East San Joaquin
WATER QUALITY COALITION
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March 1, 2010

Dania Huggins
Irrigated Lands Conditional Waiver Program
Central Valley Regional Water Quality Control Board
11020 Sun Center Drive, #200
Rancho Cordova, CA 95670-6114

Dear Dania,

The East San Joaquin Water Quality Coalition (ESJWQC) is submitting the 2010 Annual Monitoring Report (AMR) and Quarterly Monitoring Data Report (fourth quarter) for review by the Central Valley Regional Water Quality Control Board (CVRWQCB) as required by the Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands Resolution Order No. R5-2006-0053, Monitoring and Reporting Program Order No. R5-2008-0005 (MRP).

The attached documents report on the Coalition's monitoring program for the period of October 1, 2008 to December 31, 2009 and covers monitoring, reporting, outreach and education activities that occurred during this time. The Quarterly Monitoring Data Report is specific to the data collected from October 1, 2009 and December 31, 2009 (fourth quarter).

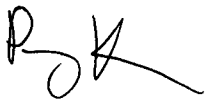
In every aspect, the Coalition seeks the best quality in its monitoring program by using the most scientifically reliable field and laboratory protocols, ensuring complete quality control and quality assurance of the data received from laboratories, and reporting on that data accurately and punctually to both the CVRWQCB and to the members of the Coalition. The Coalition and its technical staff process and review an immense quantity of data and provide a large number of reports in a timely manner to the CVRWQCB.

The Coalition's monitoring program met MRP requirements as described in the attached AMR. Sampling occurred during all fifteen months (including one storm event and two sediment events) and all data generated are an accurate reflection of conditions in the Coalition region. Overall, there was compliance with completeness, accuracy, and precision requirements for data collected from October 2008 through December 2009. Each of the five MRP programmatic questions is addressed in the Conclusions and Recommendations section of the AMR.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment for violations."

This letter will be mailed to the CVRWQCB with an original signature.

Submitted respectfully,



Parry Klassen
Executive Director
East San Joaquin Water Quality Coalition

East San Joaquin
WATER QUALITY COALITION

Annual Monitoring Report

Table of Contents

Table of Contents i

List of Tables iii

Table of Figures v

AMR Requirements – Section Key vi

List of Acronyms viii

List of Units xi

List of Terms xii

Executive Summary 1

ESJWQC Geographical Area 5

- Irrigated Land 5
- Geographical Characteristics and Land Use 6

Monitoring Objectives and Design 16

- Monitoring October 2008 – December 2009 16
- Monitoring Objectives 16
- Monitoring Design 22
  - *Normal Monitoring* *22*
  - *Management Plan Monitoring* *25*
- Monitoring Seasons 28
- Monitoring Constituents 28

Sample Site Descriptions and Rainfall Records 32

- Site Subwatershed Descriptions 34
- Sample Site Locations 37
- Rainfall Records 38
  - *October 2008 – December 2009* *38*
  - *January 2009 – March 2009* *38*
  - *April 2009 – September 2009* *39*
  - *October 2009 – December 2009* *40*

Monitoring Results 46

Adminsitrative Record
Page 16395

Sample Details *46*
Sampling and Analytical Methods 56
Precision, Accuracy and Completeness 63
Chemistry 65
Chemistry Completeness *65*
Chemistry Precision and Accuracy *66*
Toxicity 75
Discussion of Results 99
Summary of Exceedance Reports *106*
Discussion of Exceedances *115*
Actions Taken to Address Water Quality Exceedances 135
Management Practices 135
Outreach and Education 137
Pest Control Advisors, Agricultural Commissioners, and Registrants 140
Management Plan Status and Special Projects 149
Conclusions and Recommendations 151

Adminsitrative Record
Page 16396

List of Tables

TABLE 1. ACREAGE OF IRRIGATED LAND IN ESJWQC COUNTIES AND AVAILABLE DWR DATA. 5

TABLE 2. LAND USE AND SOIL PERCENTAGES FOR ESJWQC ZONES. 8

TABLE 3. MONITORING PARAMETERS. 18

TABLE 4. NORMAL MONITORING SCHEDULE FOR OCTOBER 2008 – DECEMBER 2009 INCLUDING SITE NAME, ID, ZONE AND CONSTITUENT GROUPS. 21

TABLE 5. SAMPLE SITES AND YEARS MONITORED. 23

TABLE 6. 2009 MANAGEMENT PLAN MONITORING SITES AND CONSTITUENTS. 26

TABLE 7. DESCRIPTION OF MONITORING SEASONS. 28

TABLE 8. ESJWQC OCTOBER 2008 – DECEMBER 2009 SAMPLING LOCATIONS. 33

TABLE 9. SAMPLE DETAILS FOR SAMPLES COLLECTED FROM OCTOBER 2008 THROUGH DECEMBER 2009 (SORTED BY STATION NAME, SAMPLE DATE AND MONITORING EVENT) 47

TABLE 10. SAMPLING PROCEDURES, CONTAINERS, SAMPLE VOLUMES, PRESERVATION AND STORAGE TECHNIQUES, AND HOLDING TIMES. 57

TABLE 11. FIELD PARAMETERS AND INSTRUMENTS USED TO COLLECT MEASUREMENTS. 58

TABLE 12. SITE SPECIFIC DISCHARGE METHODS. 58

TABLE 13. FIELD AND LABORATORY ANALYTICAL METHODS. 59

TABLE 14. ESJWQC SAMPLE COUNTS, FIELD QUALITY CONTROL COUNTS AND PERCENTAGES. 76

TABLE 15. ESJWQC SUMMARY OF FIELD BLANK QUALITY CONTROL SAMPLE EVALUATIONS. 78

TABLE 16. ESJWQC SUMMARY OF EQUIPMENT BLANK (DISSOLVED METALS) AND TRAVEL BLANK (TOTAL METALS) QUALITY CONTROL SAMPLE EVALUATIONS. 80

TABLE 17. ESJWQC SUMMARY OF FIELD DUPLICATE QUALITY CONTROL SAMPLE EVALUATIONS. 81

TABLE 18. ESJWQC SUMMARY OF METHOD BLANK QUALITY CONTROL SAMPLE EVALUATIONS. 83

TABLE 19. ESJWQC SUMMARY OF LAB CONTROL SPIKE QUALITY CONTROL SAMPLE EVALUATIONS. ... 85

TABLE 20. ESJWQC SUMMARY OF LAB CONTROL SPIKE DUPLICATE QUALITY CONTROL SAMPLE EVALUATIONS. 87

TABLE 21. ESJWQC SUMMARY OF MATRIX SPIKE QUALITY CONTROL SAMPLE EVALUATIONS. NON PROJECT MATRIX SPIKES ARE INCLUDED FOR BATCH COMPLETENESS. 89

TABLE 22. ESJWQC SUMMARY OF MATRIX SPIKE DUPLICATE QUALITY CONTROL SAMPLE EVALUATIONS. NON PROJECT MATRIX SPIKES ARE INCLUDED FOR BATCH COMPLETENESS. 91

Adminsitrative Record
Page 16397

TABLE 23. ESJWQC SUMMARY OF LAB DUPLICATE QUALITY CONTROL SAMPLE EVALUATIONS. NON PROJECT MATRIX SPIKES ARE INCLUDED FOR BATCH COMPLETENESS. 93

TABLE 24. ESJWQC SUMMARY OF SURROGATE RECOVERY QUALITY CONTROL SAMPLE EVALUATIONS. 95

TABLE 25. ESJWQC SUMMARY OF HOLDING TIME EVALUATIONS FOR ENVIRONMENTAL, FIELD BLANK, FIELD DUPLICATE AND MATRIX SPIKE SAMPLES. 96

TABLE 26. ESJWQC SUMMARY OF TOXICITY FIELD DUPLICATE SAMPLE EVALUATIONS. 98

TABLE 27. ESJWQC SUMMARY OF CALCULATED SEDIMENT GRAIN SIZE RPD_{SD} RESULTS. 98

TABLE 28. STATUS OF PUR DATA ASSOCIATED WITH EXCEEDANCES THAT OCCURRED FROM OCTOBER 2008 THROUGH DECEMBER 2009. 99

TABLE 29. WATER QUALITY TRIGGER LIMITS (WQTLS). 100

TABLE 30. EXCEEDANCES OF WQTLS FOR PARAMETERS MEASURED IN THE FIELD INCLUDING DISSOLVED OXYGEN, SPECIFIC CONDUCTIVITY AND PH. 107

TABLE 31. EXCEEDANCES OF WQTLS FOR E. COLI, NUTRIENTS, METALS AND PHYSICAL PARAMETERS (SORTED BY STATION NAME AND SAMPLE DATE). 109

TABLE 32. EXCEEDANCES OF WQTLS FOR PESTICIDES. 112

TABLE 33. WATER COLUMN AND SEDIMENT TOXICITY EXCEEDANCE SUMMARY. 113

TABLE 34. WATER COLUMN AND SEDIMENT TOXICITY EXCEEDANCE COUNTS. 114

TABLE 35. PESTICIDE USE DATA COLLECTED FOR EXCEEDANCES REPORTED. 115

TABLE 36. ZONE 1 (DRY CREEK @ WELLSFORD RD, DRY CREEK @ WATERFORD RD, MOOTZ DRAIN @ LANGWORTH RD, MOOTZ DRAIN DOWNSTREAM OF LANGWORTH POND) EXCEEDANCES. 117

TABLE 37. ZONE 2 (HILMAR DRAIN @ CENTRAL AVE, LATERAL 2 ½ NEAR KEYES RD, PRAIRIE FLOWER DRAIN @ CROWS LANDING RD) EXCEEDANCES. 121

TABLE 38. ZONE 3 (HIGHLINE CANAL @ HWY 99, MUSTANG CREEK @ EAST AVE) EXCEEDANCES. 126

TABLE 39. ZONE 4 (HOWARD LATERAL @ HWY 140, MERCED RIVER @ SANTA FE) EXCEEDANCES. 128

TABLE 40. ZONE 5 (DEADMAN CREEK @ GURR RD, DUCK SLOUGH @ GURR RD, DUCK SLOUGH @ HWY 99, MILES CREEK @ REILLY RD) EXCEEDANCES. 130

TABLE 41. ZONE 6 (ASH SLOUGH @ AVE 21, COTTONWOOD CREEK @ RD 20) EXCEEDANCES. 134

TABLE 42. TABLE OF ESJWQC ACTIONS AND DELIVERABLES DEALING WITH GROWER NOTIFICATION OF EXCEEDANCES AND MANAGEMENT PRACTICES RELEVANT TO THE MONITORING CONDUCTED BETWEEN OCTOBER 2008 AND DECEMBER 2009 (SORTED BY DATE) 141

TABLE 43. MONITORING SITES (OCTOBER 2008 THROUGH DECEMBER 2009), BENEFICIAL USES (BU) ASSOCIATED WITH THE DOWNSTREAM WATER BODY, AND WHETHER THE SITES MET THE WQTLS FOR THE ASSIGNED BENEFICIAL USES. 152

TABLE 44. NUMBER OF EXCEEDANCES BY CONSTITUENT GROUP AND ZONE. 155

Adminsitrative Record
Page 16398

Table of Figures

FIGURE 1. ZONE BOUNDARIES (1-6) WITHIN THE ESJWQC. 7

FIGURE 2. LAND USE FOR DRY CREEK @ WELLSFORD RD ZONE (ZONE 1). SEE FIGURE 8 FOR A LAND USE LEGEND. 9

FIGURE 3. LAND USE FOR PRAIRIE FLOWER DRAIN @ CROWS LANDING ZONE (ZONE 2). SEE FIGURE 8 FOR A LAND USE LEGEND. 10

FIGURE 4. LAND USE FOR HIGHLINE CANAL @ HWY 99 ZONE (ZONE 3). SEE FIGURE 8 FOR A LAND USE LEGEND. 11

FIGURE 5. LAND USE FOR MERCED RIVER @ SANTA FE ZONE (ZONE 4). SEE FIGURE 8 FOR A LAND USE LEGEND. 12

FIGURE 6. LAND USE FOR DUCK SLOUGH @ GURR RD ZONE (ZONE 5). SEE FIGURE 8 FOR A LAND USE LEGEND. 13

FIGURE 7. LAND USE FOR COTTONWOOD CREEK @ RD 20 ZONE (ZONE 6). SEE FIGURE 8 FOR A LAND USE LEGEND. 14

FIGURE 8. LAND USE LEGEND FOR ESJWQC. 15

FIGURE 9. SITE SUBWATERSHED LOCATIONS RELATIVE TO ZONE BOUNDARIES. 37

FIGURE 10. LOCAL WEATHER CONDITIONS BETWEEN OCTOBER 12, 2008 AND DECEMBER 31, 2008. 41

FIGURE 11. LOCAL WEATHER CONDITIONS BETWEEN JANUARY 1 AND MARCH 31, 2009. 42

FIGURE 12. LOCAL WEATHER CONDITIONS BETWEEN APRIL 1 - JUNE 30, 2009. 43

FIGURE 13. LOCAL WEATHER CONDITIONS BETWEEN JULY 1- SEPTEMBER 30, 2009. 44

FIGURE 14. LOCAL WEATHER CONDITIONS BETWEEN OCTOBER 1- DECEMBER 31, 2009. 45

Adminsitrative Record
Page 16399

AMR Requirements – Section Key

Required Section - MRP	Section Name/Location - AMR
1. Signed Transmittal Letter;	Cover Letter
2. Title page;	San Joaquin County & Delta Water Quality Coalition AMR
3. Table of contents;	Table of Contents, List of Tables, List of Figures
4. Executive Summary;	Executive Summary
5. Description of the Coalition Group geographical area;	Geographical Area
6. Monitoring objectives and design;	Monitoring Objectives and Design
7. Sampling site descriptions and rainfall records for the time period covered under the AMR;	Sampling Site Descriptions and Rainfall Record
8. Location map(s) of sampling sites, crops and land uses;	Sampling Site Descriptions and Rainfall Record, Appendix VIII (Land Use Maps and 2009 Annual Site Photos)
9. Tabulated results of all analyses arranged in tabular form so that the required information is readily discernible (example table is included in (MRP Order Attachment C);	Appendix II (Monitoring Results)
10. Discussion of data to clearly illustrate compliance with the Coalition Group Conditional Waiver, water quality standards, and trigger limits;	Discussion of Results, Conclusions and Recommendations
11. Electronic data submitted in a SWAMP comparable format;	SWAMP Comparability Access Database (attached CD)
12. Sampling and analytical methods used;	Sampling and Analytical Methods
13. Copy of chain-of-custody forms;	Appendix I (Chain of Custody Forms)
14. Field data sheets, signed laboratory reports, laboratory raw data (as identified in Attachment C);	Appendix IX (Field Sheets), Quarterly Data Submittal (attached CD, attached printed hard copies), Appendix VI (Toxicity Identification Evaluation Report)
15. Associated laboratory and field quality control samples results;	Appendix III (Lab and Field QC Results)

Adminsitrative Record
Page 16400

Required Section - MRP	Section Name/Location - AMR
16. Summary of Quality Assurance Evaluation results (as identified in Attachment C for Precision, Accuracy and Completeness) ;	Precision, Accuracy and Completeness
17. Specify the method used to obtain flow at each monitoring site during each monitoring event;	Sampling and Analytical Methods
18. Electronic or hard copies of photos obtained from all monitoring sites, clearly labeled with site ID and date.	Appendix VIII (Land Use Maps and 2009 Annual Site Photos)
19. Summary of Exceedance Reports submitted during the reporting period and related pesticide use information;	Discussion of Results, Appendix IV (Pesticide Use Reports), Appendix V (Exceedance Reports) PUR Access Database (attached CD)
20. Actions taken to address water quality exceedances that have occurred, including but not limited to, revised or additional management practices implemented;	Actions Taken To Address Water Quality Exceedances, Appendix VII (Meetings, Agendas and Handouts)
21. Status update on preparation and implementation of all Management Plans and other special projects; and	Management Plan Status and Special Projects
22. Conclusions and recommendations.	Conclusions and Recommendations

Adminsitrative Record
Page 16401

List of Acronyms

A	Assessment
AG	Agriculture
AMR	Annual Monitoring Report
AWEP	Agricultural Water Enhancement Program
BMP	Best Management Practice
BU	Beneficial Use
C	Core
CDEC	California Data Exchange Center
CEDEN	California Environmental Data Exchange Network
COC	Chain of Custody
CURES	Coalition for Urban and Rural Environmental Stewardship
CVRWQCB	Central Valley Regional Water Quality Control Board
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethylene
DDT	Dichlorodiphenyltrichloroethane
DO	Dissolved Oxygen
DQO	Data Quality Objective
DWR	(California) Department of Water Resources
EC_{50}	Effective Concentration of 50% of the measured endpoint
EPA	Environmental Protection Agency
ESJWQC	East San Joaquin Water Quality Coalition
FB	Field Blank
FD	Field Duplicate
HCH	Hexachlorocyclohexane
ID	Identification
ILRP	Irrigated Land and Regulatory Program
K_{oc}	Organic Carbon Partitioning Coefficient
LABQA	Laboratory Quality Assurance
LC_{50}	Lethal Concentration at 50% mortality
LCS	Laboratory Control Spike
LCSD	Laboratory Control Spike Duplicate
MCL	Maximum Contaminant Level
MDL	Maximum Daily Load
MLJ-LLC	Michael L. Johnson, LLC
MPM	Management Plan Monitoring

MPN	Most Probable Number
MRP	Monitoring and Reporting Program Order No. R5-2008-0005
MRPP	Monitoring and Reporting Program Plan
MS	Matrix Spike
MSD	Matrix Spike Duplicate
MUN	Municipal and Domestic Supply (beneficial use)
NA	Not Applicable
ND	Not Detected
NM	Normal Monitoring
OP	Organophosphate pesticides
PCA	Pesticide Control Advisor
pH	Power of Hydrogen
PR	Percent Recovery
PTFE	Polytetraflouroethylene (Teflon™)
PUR	Pesticide Use Report
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RfD	Reference Dose
RL	Reporting Limit
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SC	Specific Conductance
SG	Statistically significantly different from control; Greater than 80% threshold
SL	Statistically significantly different from control; Less than 80% threshold
SOP	Standard operating procedure
SWAMP	Surface Water Ambient Monitoring Program
TDS	Total Dissolved Solids
TIE	Toxicity Identification Evaluation
TKN	Total Kjeldahl Nitrogen
TMDL	Total Maximum Daily Load
TOC	Total Organic Carbon
TRS	Township, Range, Section
TSS	Total Suspended Solids
UC	University of California
UCD RDC	University of California, Davis Regional Data Center
US EPA	United States Environmental Protection Agency
VOA	Volatile Organic Analyte
WQTL	Water Quality Trigger Limit

YSI	Yellow Springs Instruments

Adminsitrative Record
Page 16404

List of Units

cfs	cubic feet per second
L	Liter
lbs	pounds
mg	milligram
NTU	Nephelometric Turbidity Units
ppm	parts per million
sec	second
TUa	Toxic Unit (acute)
TUc	Toxic Unit (chronic)
µg	microgram
µS	microsiemens

Adminsitrative Record
Page 16405

List of Terms

Agricultural Commissioner – County Agriculture Commissioner

ArcGIS – Geographic Information Systems mapping software

Central Valley or Valley – California Central Valley

Coalition –East San Joaquin Water Quality Coalition

Coalition/ESJWQC region – The region within the Central Valley that is monitored by the East San Joaquin Water Quality Coalition.

Drainage –water that moves horizontally across the surface or vertically into the subsurface from land

Landowners – one or more persons responsible for the management of the irrigated land

Non project QA sample – sample results from another project other than the Coalition included to meet laboratory QC requirements.

Regional Board – Central Valley Regional Water Quality Control Board

Site subwatershed – Starting from the sampling site, all water bodies that drain, directly or indirectly, into the water body before the point where sampling occurs.

Special study – a study conducted outside of normal monitoring activities that involves monitoring specific constituents in an effort to determine the mechanism responsible for the exceedances; also includes TMDL monitoring.

Subwatershed – The topographic perimeter of the catchment area of a stream tributary. (EPA terms of environment: (http://www.epa.gov/OCEPAterms/sterms.html)

Waiver – Central Valley Regional Water Quality Control Board Coalition Group Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands, Order No. R5-2008-0005 amending Order No. R5-2006-0053.

Water body –standing or flowing water of any size that may or may not move into a larger body of water, including lakes, reservoirs, ponds, rivers, streams, tributaries, creeks, sloughs, canals, laterals and drainage ditches.

Watershed – The land area that drains into a stream; the watershed for a major river may encompass a number of smaller watersheds that ultimately combine at a common point. (EPA terms of environment: http://www.epa.gov/OCEPAterms/wterms.html)

Adminsitrative Record
Page 16407

Executive Summary

The East San Joaquin Water Quality Coalition (ESJWQC) region includes the counties of Stanislaus, Merced, Madera, Tuolumne, and Mariposa and the portion of Calaveras County that drains into the Stanislaus River. Apart from the San Joaquin River which forms the south and east boundary of the Coalition, there are five major rivers in the watershed: the Fresno River, Chowchilla River, Merced River, Tuolumne River and Stanislaus River. In addition, the Eastside Bypass is considered a major water body. These east side tributaries of the San Joaquin River drain the Sierra Nevada range from east to west. Irrigated agriculture is the predominant land use in the Coalition area although the growing urban areas in the Central Valley are also a significant land use. Other non-irrigated land uses include dairies with minor acreage in feedlots.

The Coalition area was divided into six zones based on hydrology, crop types, land use, soil types, and rainfall. The zone names are: 1) Dry Creek @ Wellsford Zone, 2) Prairie Flower Drain @ Crows Landing Zone, 3) Highline Canal @ Hwy 99 Zone, 4) Merced River @ Santa Fe Zone, 5) Duck Slough @ Gurr Rd Zone, and 6) Cottonwood Creek @ Rd 20 Zone. Descriptions of zone-specific climate, water drainage and flow, soil characteristics and land use are included in the Coalition's Monitoring and Reporting Plan (submitted August 25, 2008).

MONITORING PROGRAM OBJECTIVES

Water quality monitoring was conducted during every month from October 2008 through December 2009. The primary objectives of the monitoring program were to characterize discharge from agriculture and to determine if implementation of management practices was effective in reducing or eliminating discharge. The ESJWQC monitored water quality at 20 sites in the Coalition region between October 2008 and December 2009. In addition, eleven sites were monitored under management plans as outlined in the ESJWQC Management Plan (submitted September 30, 2008 and updated annually on April 1 of each year). Of the sites monitored for management plan constituents, three sites (Dry Creek @ Wellsford Rd, Highline Canal @ Hwy 99, and Prairie Flower Drain @ Crows Landing Rd) were also monitored monthly for normal monitoring constituents. The Coalition sampled for numerous water quality parameters and constituents including 45 pesticides, *E. coli*, physical parameters (total dissolved solids, total suspended solids and turbidity), nine metals, total organic carbon, five nutrients, field parameters (dissolved oxygen, pH, specific conductivity), water column toxicity to three test species (*Ceriodaphnia dubia*, *Pimephales promelas* and *Selenastrum capricornutum*) and sediment toxicity to *Hyalella azteca*. In May 2009 the Coalition omitted the following constituents from its monitoring program: metals not applied by agriculture (arsenic, cadmium, lead and molybdenum), sediment bound pesticides (glyphosate, paraquat dichloride), organochlorine pesticides no longer applied by agriculture (including Group A

Adminsitrative Record
Page 16408

pesticides) along with a subset of nutrients (Total Kjeldahl Nitrogen and orthophosphate) (ESJWQC MRPP amended on May 15, 2009). These constituents will be sampled once a year during events with high total suspended solids except for Total Kjeldahl Nitrogen and orthophosphate (OP) which were omitted completely starting April 2009 due to redundancy in monitoring data. Monitoring constituents are established by the Irrigated Lands Regulatory Program (ILRP) Monitoring and Reporting Program (MRP) (Order No. R5-2008-0005).

The monitoring program from October 2008 through December 2009 under the new ILRP MRP was substantially different relative to previous years of monitoring. Within each zone, a Core Monitoring site and an Assessment Monitoring site were established. Core sites are meant to establish trends in water quality over a longer period of time and will be monitored continuously over several years. There are fewer constituents monitored at core sites, primarily physical parameters and nutrients. Assessment monitoring sites are meant to characterize discharge in the zone in which they are located. Assessment Monitoring includes the full suite of constituents. Assessment sites are rotated every third year to a new site. Core sites receive assessment monitoring every third year as well.

MONITORING PROGRAM COMPLIANCE

For the period of October 2008 to December 2009, the Coalition was able to meet its monitoring program objectives by determining the concentration and load of waste in discharges to surface waters, evaluating compliance with existing narrative and numeric water quality limit triggers to determine if implementation of additional management practices is necessary to improve and/or protect water quality and assessing the impact of storm water discharges from irrigated agriculture to surface water. The Coalition used the results from surveys of management practices to determine the implementation of management practices to reduce discharge of specific wastes that impact water quality in receiving waters of the Coalition region.

Coalition monitoring between October 1, 2008 and December 31, 2009 resulted in exceedances of Water Quality Trigger Limits (WQTLs) for dissolved oxygen (DO), power of hydrogen (pH), specific conductance (SC), *E. coli*, total dissolved solids (TDS), ammonia, nitrate, arsenic, copper, chlorpyrifos, diuron, dichlorodiphenyldichloroethylene (DDE), and hexachlorocyclohexane (HCH). Water column toxicity to *Ceriodaphnia dubia, Pimephales promelas, Selenastrum capricornutum,* and sediment toxicity to *Hyalella azteca* occurred between October 2008 and December 2009.

The most common exceedances were for DO (39 exceedances - 23%), TDS (22 exceedances - 18%), SC (28 exceedances - 17%), pH (17 exceedances - 10%), and *E. coli* (56 exceedances - 41%). Exceedances of the nitrate WQTL were common (20 exceedances - 17%) and of the metals analyzed; only copper and arsenic exceeded WQTLs. All arsenic exceedances were at a

single location, Deadman Creek @ Gurr Rd. Among the metals, only copper is currently used by agriculture within the Coalition region. Sources are distinguishable using stable isotopes but the cost of the analyses is substantial and the Coalition does not anticipate using this technique to identify the source(s). There were eleven pesticide exceedances; the most common pesticide exceedance was for the chlorpyrifos WQTL (0.9% of all samples collected, includes Management Plan Monitoring exceedances). Overall, exceedances of physical parameters and *E. coli* were more common than exceedances of pesticides or metals (16.7%, 40.7%, 0.6% and 1.5% respectively).

From the 11 toxic water column samples, five of those samples had end points less than 50% compared to the control and therefore Toxicity Identification Evaluations (TIEs) were performed. Three TIEs indicated that ammonia was the cause of the toxicity; one TIE indicated the toxicity resulted from a combination of ammonia and a cationic metal, and the remaining TIE indicated pyrethroids were the cause.

The series of actions taken to determine the potential sources of exceedances include: 1) the use of Pesticide Use Reports (PURs) to identify relevant applications that occurred upstream of the sample site and within a specified time period prior to the sampling event, 2) an analysis of monitoring data and toxicity results to better understand the potential sources and toxicity of detected constituents, and 3) special studies where appropriate and cost effective to determine the sources of constituents such as *E. coli* or the potential causes of exceedances such as low DO.

Grower notification, management practice outreach and education, and management practice tracking and implementation are additional actions taken by the Coalition to ensure that growers are aware of downstream water and sediment quality issues as well as the importance of implementing various management practices within their farm operations. The Coalition provides growers with information on management practices to reduce storm water runoff, discharge of irrigation water, and mobilization of sediments into receiving waters.

The Coalition has developed a strategy to prioritize subwatersheds in order to conduct focused outreach with individual members. The purpose of the outreach is to review current farm management practices, determine if additional management practices are applicable, and document implementation of any new practices. From 2008 to 2010 the Coalition has conducted focused outreach in: Dry Creek @ Wellsford Rd, Prairie Flower Drain @ Crows Landing Rd and Duck Slough @ Hwy 99. Growers were contacted during the spring and summer of 2009, a review of management practices was conducted and documented including any recommended practices. Follow up with growers will be conducted in spring of 2010 to document implementation of new practices.

Adminsitrative Record
Page 16410

CONCLUSIONS

The results of the monitoring program from October 2008 through December 2009 indicate that although there has been substantial improvement in water quality in many areas, water quality is still not protective of beneficial uses across most of the Coalition region. The most common exceedances of WQTLs involve physical parameters such as DO, TDS, and SC which resulted in impaired Agricultural and Aquatic Life Beneficial Uses. Other parameters such as *E. coli* and TDS also experienced numerous exceedances which resulted in impaired Recreational and Aquatic Life Beneficial Uses. The most common causes of impairment of the Municipal Beneficial Use were elevated concentrations of arsenic. Discharges from irrigated lands are but one of many possible sources of impairments to beneficial uses.

For many parameters, it is not clear to what extent WQTL exceedances are the results of current agricultural activities. Source identification is difficult especially for non-conserved constituents. There are numerous non-conserved constituents that cannot be traced upstream, e.g. dissolved oxygen. Many pesticides are the result of agricultural applications and enter surface waters as a result of drift or runoff in either storm water or irrigation return flows. The Coalition is continuing to identify sources of WQTL exceedances through PUR, assessment of water quality data and evaluation of current management practices. The Coalition's sourcing strategy is further described in the Coalition's Management Plan.

The Coalition's outreach program is focused on general meetings for growers across the entire Coalition region. Information on management practices is provided by the Coalition in several forums that range from meetings with one or two growers to large annual meetings sponsored by the Coalition.

The conclusions from these data are that 1) individual grower visits are an effective method of communicating with members, and 2) implementation of management practices is improving water quality in the Coalition region.

Adminsitrative Record
Page 16411

ESJWQC Geographical Area

The ESJWQC area includes Stanislaus, Merced, Madera, Tuolumne, and Mariposa Counties and the portion of Calaveras County that drains into the Stanislaus River. The region that drains into the Coalition area is bordered by the crest of the Sierra Nevada on the east and the San Joaquin River on the west, the Stanislaus River on the north to the San Joaquin River on the south. The southern portion of the Coalition area has been expanded since the inception of the Coalition and now includes the area that was formerly the Root Creek Coalition area. Landholdings in the vicinity of the Lone Willow Slough drainage area (west of the Eastside Bypass) have joined the Westside Coalition.

Irrigated Land

Overall the Coalition is comprised of approximately 5,500,314 acres of which 17% are irrigated. Although exact acreage is difficult to estimate due to rapidly changing land use, the Coalition area contains approximately 919,730 acres that are considered irrigated agriculture (Table 1). For Madera, Tuolumne and Mariposa Counties, the Coalition used the Department of Water Resources (DWR) land use estimates for irrigated agriculture to determine total acreage. Acreage included in Table 1 for Stanislaus, Merced and Calaveras Counties were obtained from land use survey from the DWR since the Coalition boundary does not accurately represent the county boundary (Table 1).

Table 1. Acreage of irrigated land in ESJWQC counties and available DWR data.

County	Irrigated Land Area (acres)	Data Source Year (Agricultural Land and Water Use)	Data Source Year (Land Use Survey)
Calaveras	880	2000 – Not Used	2000
Madera	295,000	2001	2001
Mariposa	1,300	2001	1998
Merced	342,200	2002 – Not Used	2002
Stanislaus	279,050	2004 – Not Used	2004
Tuolumne	1,300	2001	1997
Total	**919,730**		

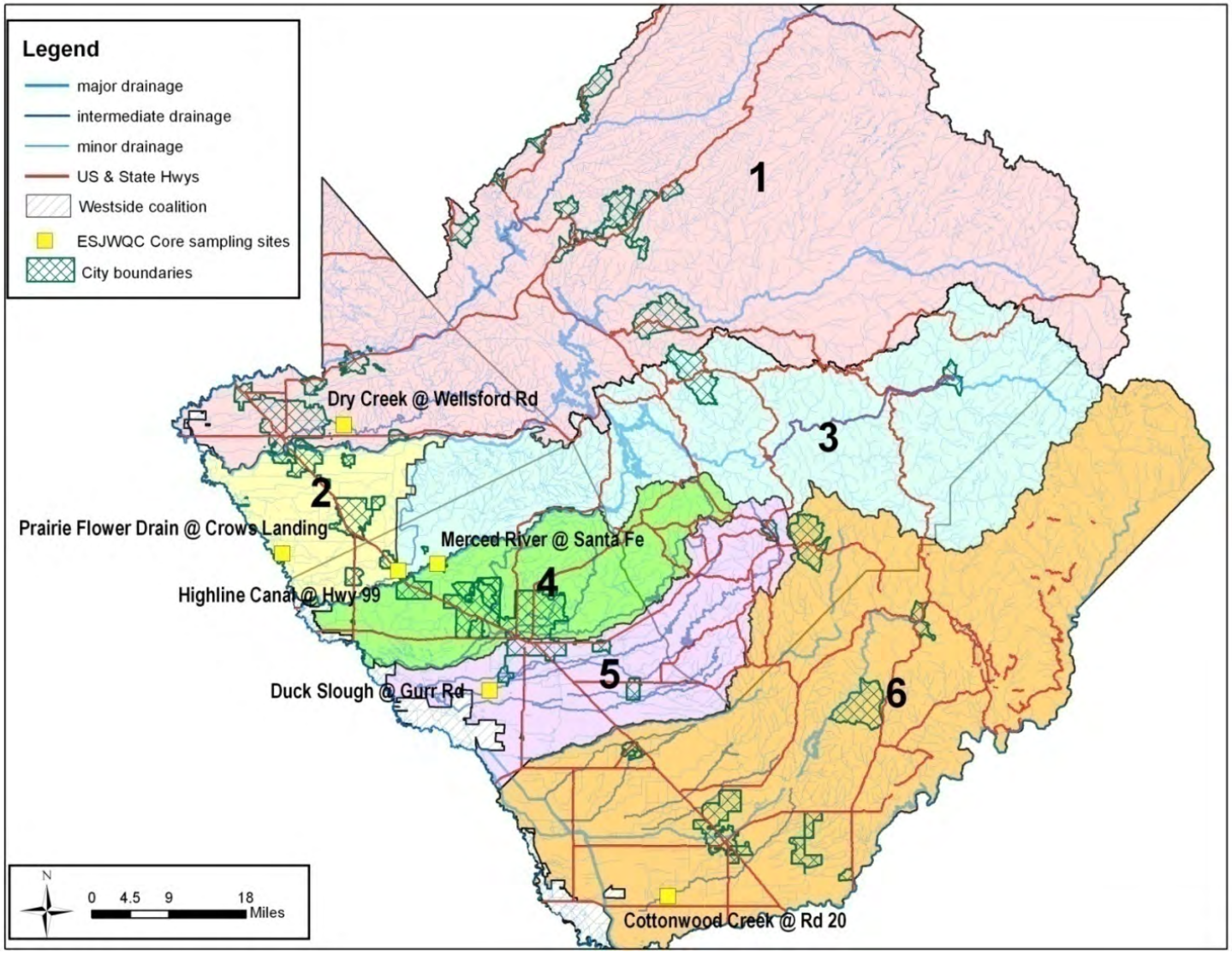
DWR Agricultural Land Use: http://www.water.ca.gov/landwateruse/anaglwu.cfm
DWR Land Use Survey: http://www.water.ca.gov/landwateruse/lusrvymain.cfm

Geographical Characteristics and Land Use

The Coalition area has been divided into six zones to create a comprehensive monitoring program (Figure 1). These zones were designated based on hydrology, crop types, land use, soil types, and rainfall (Table 2). The zone names are based on the Core Monitoring location within that area and are: 1) Dry Creek @ Wellsford Zone, 2) Prairie Flower Drain @ Crows Landing Zone, 3) Highline Canal @ Hwy 99 Zone, 4) Merced River @ Santa Fe Zone, 5) Duck Slough @ Gurr Rd Zone, and 6) Cottonwood Creek @ Rd 20 Zone. Descriptions of zone-specific climate, water drainage and flow, soil characteristics and land use are included in the Coalition's MRPP (submitted August 25, 2008). Land use maps for each zone are Figures 2 -7.

Adminsitrative Record
Page 16413

Figure 1. Zone boundaries (1-6) within the ESJWQC.



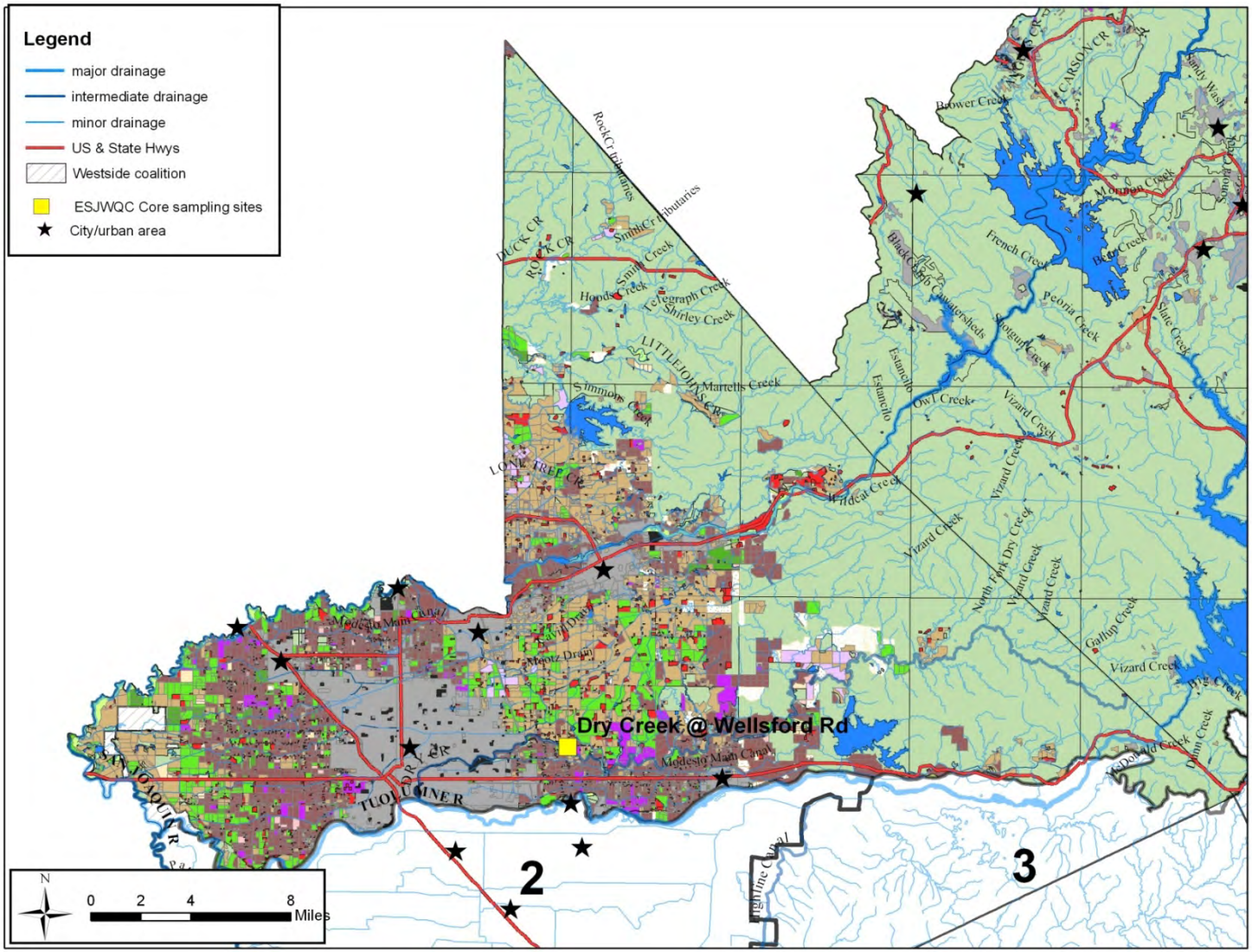
Adminsitrative Record
Page 16414

Table 2. Land use and soil percentages for ESJWQC zones.

	Zone 1 Dry Creek @ Waterford/ Wellsford Zone	Zone 2 Prairie Flower Drain @ Crows Landing Zone	Zone 3 Highline Canal @ Hwy 99 Zone	Zone 4 Merced River @ Santa Fe Zone	Zone 5 Duck Slough @ Gurr Rd Zone	Zone 6 Cottonwood Creek @ Rd 20 Zone
Total Acres	2,739,267.53	757,501.78	1,213,340.09	608,351.75	637,819.21	1,268,513.09
Irrigated Acres	134,306.48	164,632.91	88,616.45	121,746.40	142,686.29	335,069.21
Soil (average %):						
Sand	56.26	71.42	62.03	58.77	39.56	63.66
Silt	25.34	18.83	23.45	25.39	36.05	22.26
Clay	18.40	9.75	14.52	15.83	24.38	14.08
Land Use (% of irrigated acres):						
Deciduous Fruits/Nuts	39.21	37.83	60.73	37.55	18.82	31.63
Field Crops	16.27	22.73	15.84	22.25	32.85	15.29
Grains/Hay	0.89	0.81	1.57	3.87	5.54	4.28
Pasture	35.04	30.88	11.13	19.58	31.42	13.17
Vineyard	3.76	3.27	8.63	5.69	1.69	31.37
Dairies/Feedlots:						
% of total acres	0.34	1.59	0.20	0.80	0.66	0.53
Number of operations	1,903	2,302	273	473	460	1,725
Urban (% of total acres)	2.70	5.77	0.93	3.84	2.01	3.02
Depth to groundwater:						
Weighted average	49.18	30.12	138.17	46.43	68.52	119.98
% area of groundwater	5.7	71.9	7.1	39	43.3	25.1

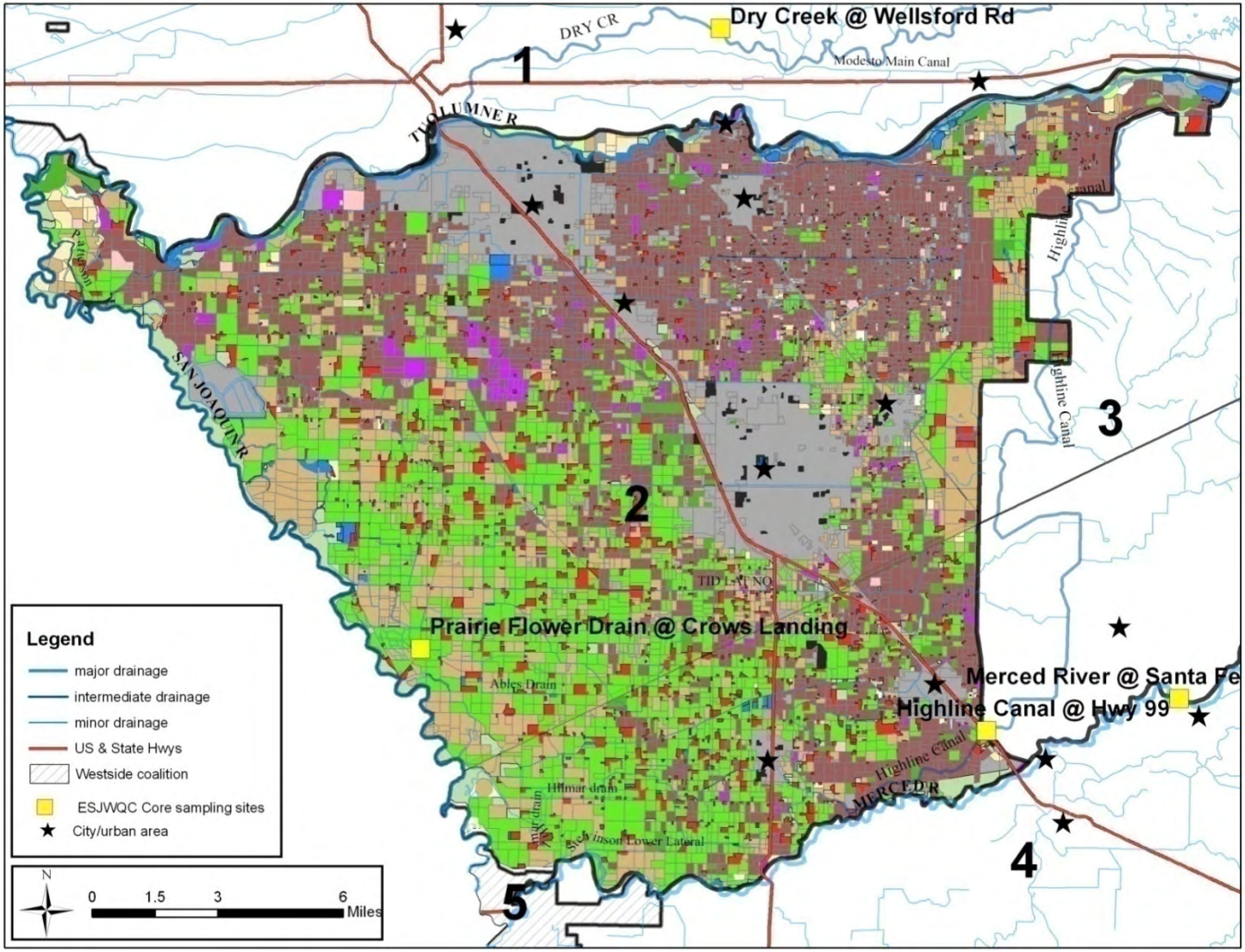
Adminsitrative Record
Page 16415

Figure 2. Land use for Dry Creek @ Wellsford Rd Zone (Zone 1). See Figure 8 for a land use legend.



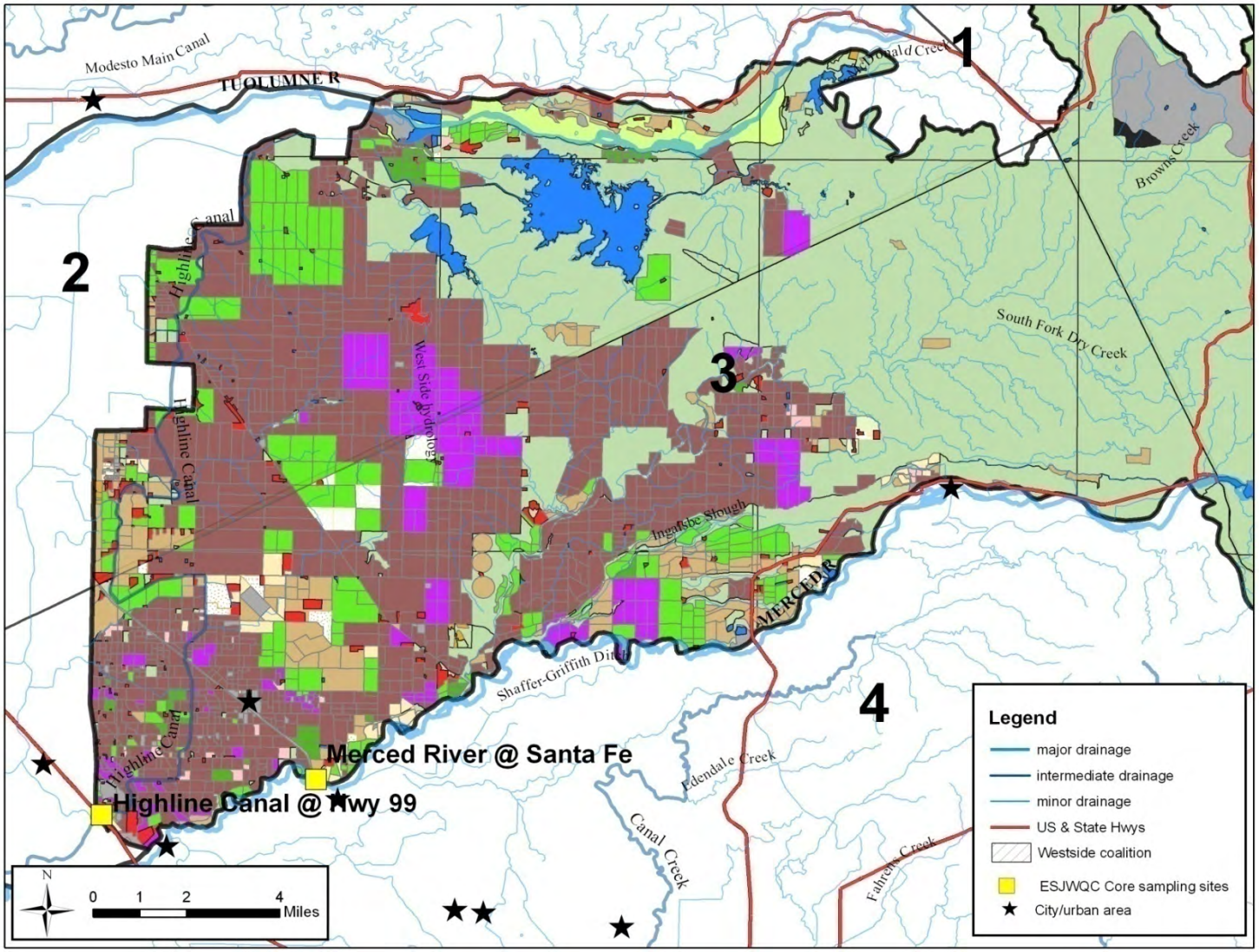
Adminsitrative Record
Page 16416

Figure 3. Land use for Prairie Flower Drain @ Crows Landing Zone (Zone 2). See Figure 8 for a land use legend.



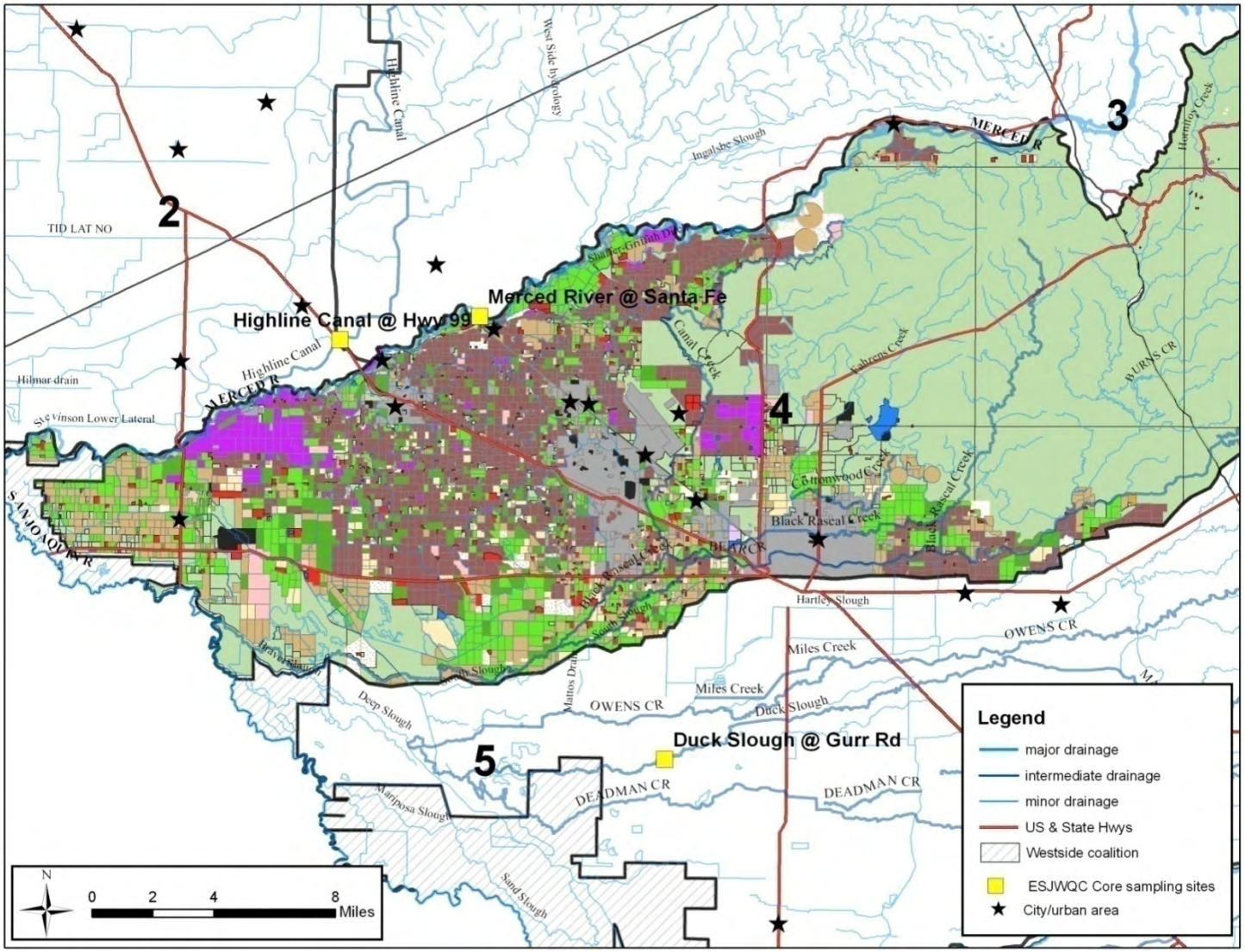
Adminsitrative Record
Page 16417

Figure 4. Land use for Highline Canal @ Hwy 99 Zone (Zone 3). See Figure 8 for a land use legend.



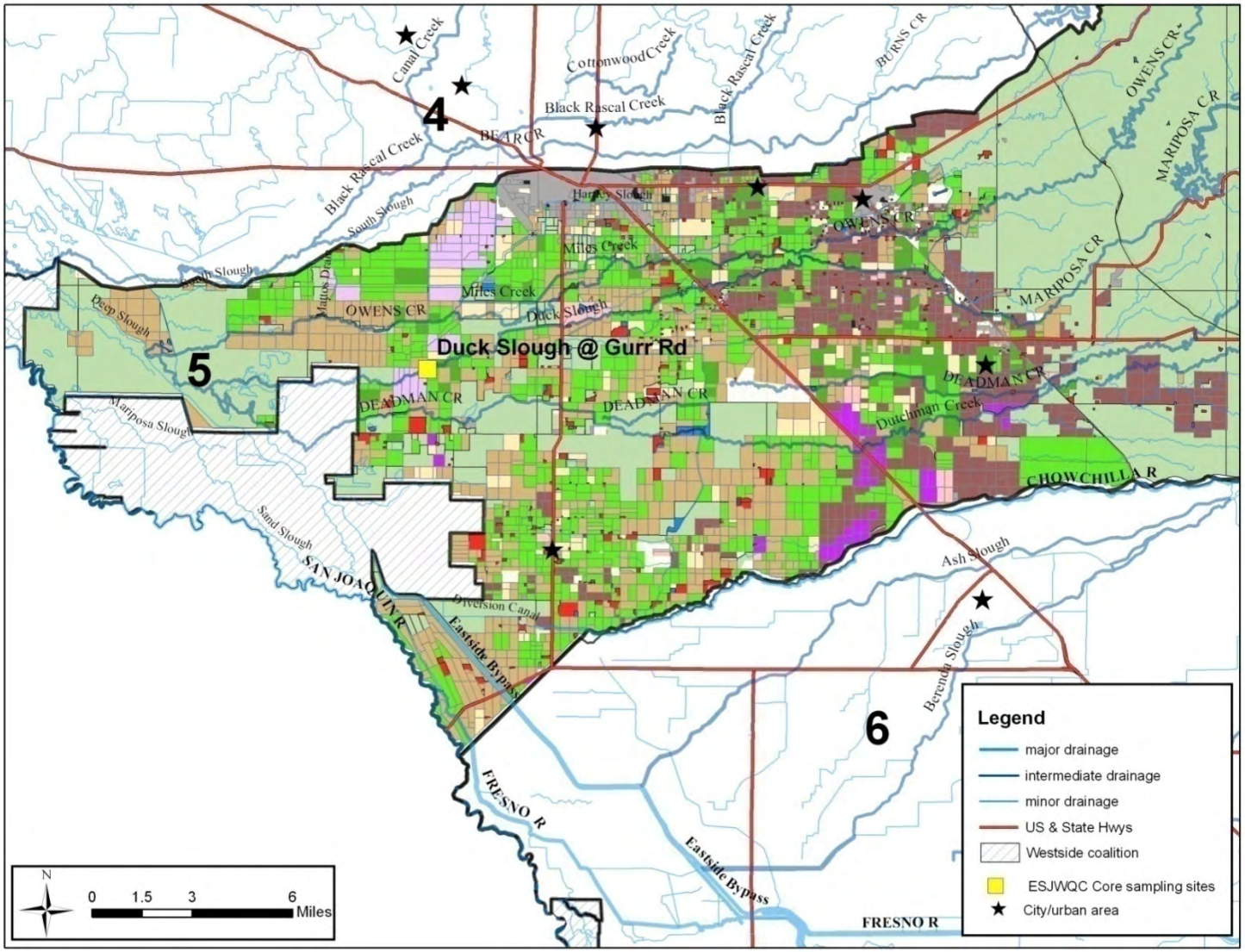
Adminsitrative Record
Page 16418

Figure 5. Land use for Merced River @ Santa Fe Zone (Zone 4). See Figure 8 for a land use legend.



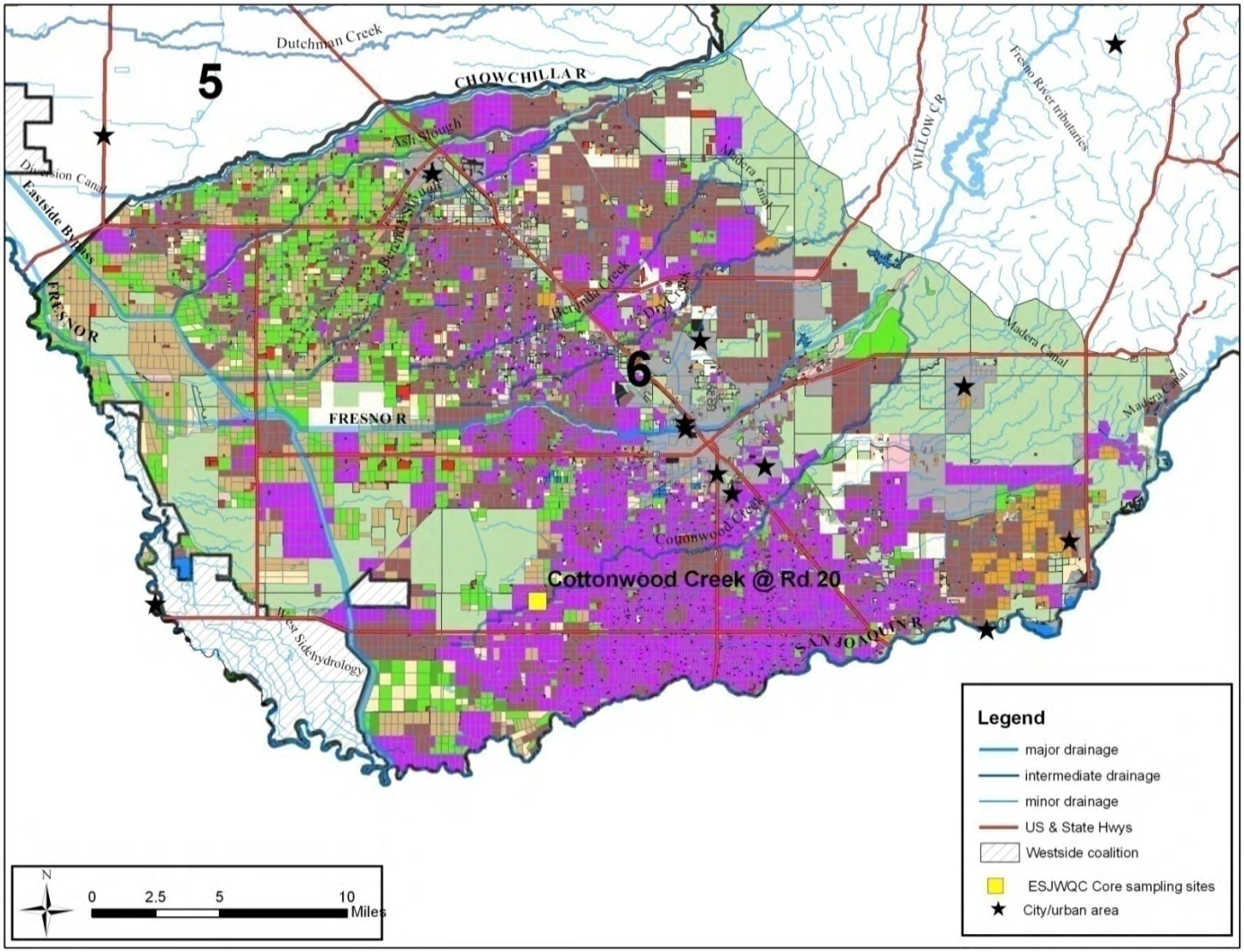
Adminsitrative Record
Page 16419

Figure 6. Land use for Duck Slough @ Gurr Rd Zone (Zone 5). See Figure 8 for a land use legend.



Adminsitrative Record
Page 16420

Figure 7. Land use for Cottonwood Creek @ Rd 20 Zone (Zone 6). See Figure 8 for a land use legend.



Adminsitrative Record
Page 16421

Figure 8. Land use legend for ESJWQC.

Monitoring Objectives and Design

Monitoring October 2008 – December 2009

From October 2008 to December 2009 the Coalition conducted both normal monitoring and Management Plan Monitoring based on the approved Management and Reporting Program Plan (MRPP) submitted on August 25, 2008 and Management Plan submitted on September 30, 2008.

As part of normal monitoring during the 2009 monitoring year, the Coalition sampled both Core and Assessment Monitoring locations once a month including at least one storm event and two sediment events. The following section briefly describes the objectives of normal monitoring (including Core, Assessment and sediment monitoring) and Management Plan Monitoring (MPM) as well as the overall Coalition sampling design including sampling seasons and storm triggers.

Monitoring Objectives

The objectives of the ESJWQC monitoring program are to:

1. Determine the concentration and load of waste in discharges to surface waters
2. Evaluate compliance with existing narrative and numeric water quality objectives to determine if implementation of additional management practices is necessary to improve and/or protect water quality
3. Assess the impact of waste discharges from irrigated agriculture to surface water
4. Determine the degree of implementation of management practices to reduce discharge of specific wastes that impact water quality in watersheds within the coalition region
5. Determine the effectiveness of management practices and strategies to reduce discharges of wastes that impact water quality

In order to achieve the objectives listed above, the ESJWQC monitored water quality at 20 sites in the Coalition region between October 2008 and December 2009. In addition, eleven sites were monitored for MPM as outlined in the ESJWQC Management Plan. Of the sites monitored for management plan constituents, three sites (Dry Creek @ Wellsford Rd, Highline Canal @ Hwy 99, and Prairie Flower Drain @ Crows Landing Rd) were also monitored monthly for normal monitoring constituents. The Coalition sampled for numerous water quality parameters and constituents including 45 pesticides, *E. coli*, physical parameters (total dissolved solids, total suspended solids and turbidity), nine metals, total organic carbon, five nutrients, field parameters (dissolved oxygen, pH, specific conductivity), water column toxicity to three test species (*Ceriodaphnia dubia*, *Pimephales promelas* and *Selenastrum capricornutum*) and sediment toxicity to *Hyalella azteca* (Table 3). In May 2009 the Coalition omitted the following constituents from its monitoring program: metals not applied by agriculture (arsenic, cadmium,

Adminsitrative Record
Page 16423

lead and molybdenum), sediment bound pesticides (glyphosate, paraquat dichloride), organochlorine pesticides no longer applied by agriculture (including Group A pesticides) along with a subset of nutrients (Total Kjeldahl Nitrogen and orthophosphate) (ESJWQC MRPP amended on May 15, 2009). These constituents will be sampled once a year during events with high total suspended solids. Monitoring constituents are established by the Monitoring and Reporting Program (MRP) (Order No. R5-2008-0005) and are discussed in more detail at the end of this section.

Adminsitrative Record
Page 16424

Table 3. Monitoring Parameters.

Constituents, Parameters, and Tests	Monitoring Type
TMDL/CWA 303(d) listed*	
Aldrin	As needed to characterize 303d listed waterbodies
Chlordane	As needed to characterize 303d listed waterbodies
Heptachlor	As needed to characterize 303d listed waterbodies
Heptachlor epoxide	As needed to characterize 303d listed waterbodies
Hexachlorocyclohexane (including Lindane) (gamma-HCH)	As needed to characterize 303d listed waterbodies
Hexachlorocyclohexane (alpha-HCH)	As needed to characterize 303d listed waterbodies
Hexachlorocyclohexane (beta-HCH)	As needed to characterize 303d listed waterbodies
Hexachlorocyclohexane (delta-HCH)	As needed to characterize 303d listed waterbodies
Endosulfan I	As needed to characterize 303d listed waterbodies
Endosulfan II	As needed to characterize 303d listed waterbodies
Toxaphene	As needed to characterize 303d listed waterbodies
Photo Monitoring	
Photograph of monitoring location	With every monitoring event
WATER COLUMN SAMPLING	
Physical Parameters and General Chemistry	
Flow (field measure)	Assessment and Core
pH (field measure)	Assessment and Core
Electrical Conductivity (field measure)	Assessment and Core
Dissolved Oxygen (field measure)	Assessment and Core
Temperature (field measure)	Assessment and Core
Turbidity	Assessment and Core
Total Dissolved Solids	Assessment and Core
Total Suspended Solids	Assessment and Core
Hardness	Assessment and Core
Total Organic Carbon (TOC)	Assessment and Core
Pathogens	
E. coli	Assessment and Core
Water Column Toxicity Test	
Algae -*Selenastrum capricornutum*	Assessment
Water Flea – *Ceriodaphnia dubia*	Assessment
Fathead Minnow - *Pimephales promelas*	Assessment
Toxicity Identification Evaluation**	As needed based on criteria described in MRP Part II.E
Pesticides	
Carbamates	
Aldicarb	Assessment

Constituents, Parameters, and Tests	Monitoring Type
Carbaryl	Assessment
Carbofuran	Assessment
Methiocarb	Assessment
Methomyl	Assessment
Oxamyl	Assessment
Organochlorines*	
Dichlorodiphenyldichloroethane (DDD)	Assessment
Dichlorodiphenyldichloroethylene (DDE)	Assessment
Dichlorodiphenyltrichloroethane (DDT)	Assessment
Dicofol	Assessment
Dieldrin	Assessment
Endrin	Assessment
Methoxychlor	Assessment
Organophosphates	
Azinphos-methyl	Assessment
Chlorpyrifos	Assessment
Diazinon	Assessment
Dichlorvos	Assessment
Dimethoate	Assessment
Dimeton-s	Assessment
Disulfoton (Disyton)	Assessment
Malathion	Assessment
Methamidophos	Assessment
Methidathion	Assessment
Parathion-methyl	Assessment
Phorate	Assessment
Phosmet	Assessment
Herbicides	
Atrazine	Assessment
Cyanazine	Assessment
Diuron	Assessment
Glyphosate*	Assessment
Linuron	Assessment
Paraquat dichloride*	Assessment
Simazine	Assessment

Constituents, Parameters, and Tests	Monitoring Type
Trifluralin	Assessment
Metals	
Arsenic (total)*	Assessment
Boron (total)	Assessment
Cadmium (total and dissolved)*	Assessment
Copper (total and dissolved)	Assessment
Lead (total and dissolved)*	Assessment
Nickel (total and dissolved)	Assessment
Molybdenum (total)*	Assessment
Selenium (total)	Assessment
Zinc (total and dissolved)	Assessment
Nutrients	
Total Kjeldahl Nitrogen†	Assessment and Core
Nitrate plus Nitrite as Nitrogen	Assessment and Core
Total Ammonia	Assessment and Core
Unionized Ammonia (calculated value)	Assessment and Core
Total Phosphorous (as P)	Assessment and Core
Soluble Orthophosphate†	Assessment and Core
SEDIMENT SAMPLING	
Sediment Toxicity	
Hyalella azteca	Assessment
Pesticides (as needed based on criteria described in MRP Part II.E.2)	
Bifenthrin	As needed based on criteria described in MRP Part II.E
Cyfluthrin	As needed based on criteria described in MRP Part II.E
Cypermethrin	As needed based on criteria described in MRP Part II.E
Esfenvalerate	As needed based on criteria described in MRP Part II.E
Lambda-Cyhalothrin	As needed based on criteria described in MRP Part II.E
Permethrin	As needed based on criteria described in MRP Part II.E
Fenpropathrin	As needed based on criteria described in MRP Part II.E
Chlorpyrifos	As needed based on criteria described in MRP Part II.E
Other sediment parameters	
Total Organic Carbon	Assessment
Grain Size	Assessment

*Starting May 2009, the Coalition will only monitor for these constituents during a single high Total Suspended Solids (TSS) event.

†Constituents were omitted from the ESJWQC MRPP on May 15, 2009.

** Specific TIE manipulations utilized in each test will be reported.

Table 4. Normal Monitoring schedule for October 2008 – December 2009 including site name, ID, zone and constituent groups.

Zone	Monitoring Type	Monitoring Location	Group A Pesticides **	Physical Parameters	Nutrients*	Pathogens	Carbamates	Organo-phosphates	Herbicides**	Metals (total and dissolved)**	Water Column Toxicity	Sediment Toxicity/ Chemistry
1	C	Dry Creek @ Wellsford Rd		x	x	x						
1	A	Mootz Drain @ Langworth Rd	x	x	x	x	x	x	x	x	x	x
1	A	Mootz Drain downstream of Langworth Pond		x	x	x	x	x	x	x	x	x
2	C	Prairie Flower Drain @ Crows Landing		x	x	x						
2	A	Lateral 2 1/2 near Keyes Rd	x	x	x	x	x	x	x	x	x	x
3	C	Highline Canal @ Hwy 99		x	x	x						
3	A	Mustang Creek @ East Ave		x	x	x	x	x	x	x	x	x
4	C	Merced River @ Santa Fe Rd	x	x	x	x		**x**		**x**		
4	A	Howard Lateral @ Hwy 140		x	x	x	x	x	x	x	x	x
5	C	Duck Slough @ Gurr Rd		x	x	x		**x**		**x**		
5	A	Deadman Creek @ Gurr Rd		x	x	x	x	x	x	x	x	x
6	C	Cottonwood Creek @ Rd 20		x	x	x					**x**†	**x**
6	A	Ash Slough @ Ave 21		x	x	x	x	x	x	x	x	x

*Total Kjeldahl Nitrogen and orthophosphate were dropped on May 15, 2009.

**Glyphosate, paraquat, arsenic, cadmium, lead, molybdenum and Group A pesticides were dropped on May 15, 2009 except for sampling during a single high TSS event.

†*Pimephales promelas* and *Selenastrum capricornutum* only.

Bolded Xs are for additional constituents at Core Monitoring locations due to one exceedance during previous monitoring (see Table 21 for specifics).

Adminsitrative Record
Page 16428

Monitoring Design

Normal Monitoring

Starting October 2008 the Coalition initiated monitoring under a new MRPP (submitted August 25, 2008 and approved on August 18, 2008) that includes a schedule of Core and Assessment Monitoring locations to be monitored on a monthly basis. Previous to the August 2008 MRPP the Coalition monitored only during the irrigation season (April – September) and twice during the storm season (December – March) as determined by a 24 hour rainfall trigger of 0.25 inches. The Coalition monitored from October to December (fall season) for the first time in 2008. For reference, Table 5 illustrates the locations and seasons that the Coalition has monitored from 2004 - 2009.

Sampling occurred at six Core and six Assessment sites once per month per site throughout each of the monitoring seasons. In the case of a storm event, monthly monitoring occurred within three days following a rainfall that exceeded 0.25 inches within 24 hours. Storm samples were collected on December 16, 2008, February 7, 2009 and December 15, 2009.

Core Monitoring

Core Monitoring is designed to track water and sediment quality trends over extended periods of time. Core Monitoring is not limited to largest volume water bodies, but includes a diversity of water body size and flows. Data generated from the Core Monitoring sites is used to establish trend information about the effectiveness of the Coalition's efforts to reduce or eliminate the impact of irrigated agriculture on surface waters.

Assessment Monitoring

Assessment Monitoring includes a diversity of monitoring sites that are representative of individual zones. Assessment Monitoring sites are selected in order to adequately characterize water quality for all waters of the State within individual zones. In conjunction with Core Monitoring for trends and Special Projects focused on specific problems, Assessment Monitoring demonstrates the effectiveness of management practices and identifies locations for implementation of new management practices, as needed.

Sediment Monitoring

Sediment samples are collected bi-yearly. Storm season sediment samples are collected after the major rainfall events and before the height of the irrigation season when water flows and levels are low (between March 1 and April 30). Irrigation season sediment samples are collected at the end of the irrigation season, when water levels are low and safe enough to sample sediment (between August 15 and October 15). Storm season sediment samples were collected on April 21, 2009 and irrigation season sediment samples were collected on August 18, 2009.

Table 5. Sample sites and years monitored.

Station Name	2004	2005		2006		2007		2008			2009			
	Irrigation	Storm	Irrigation	Storm	Irrigation	Storm	Irrigation	Storm	Irrigation	Fall	Winter	Storm	Irrigation	Fall
Ash Slough @ Ave 21			x	x	x	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
August Road Drain upstream of Crows Landing Bridge (Hogin Rd)	x													
Bear Creek @ Kibby Rd		x	x	x	x	x	x	x	x					
Bear Creek @ North Alpine Rd								x		x	x			
Berenda Slough along Ave 18 1/2					x	Dry	x	x	Dry					
Black Rascal Creek @ Yosemite Rd					x	x	x	x	x					
Cottonwood Creek @ Rd 20		x	x	x	x	Dry	x	x	x	Dry	Dry	x	Dry	x
Cottonwood Creek @ Hwy 145[1]									x					
Deadman Creek @ Hwy 59					x	x	x	x	x				Dry	
Deadman Creek (Dutchman) @ Gurr Rd	x				x	x	x	x	x	x	x	x	x	x
Dry Creek @ Rd 18			x	Dry	x	x	x	x	x					
Dry Creek @ Rd 22[1]									x					
Dry Creek @ Rd 28½[1]									x					
Dry Creek @ Oakdale Rd												Dry		Dry
Dry Creek @ Waterford Rd[1]									x				x	
Dry Creek @ Wellsford Rd		x	x	x	x	x	x	x	x	x	x	x	x	x
Duck Slough @ Gurr Rd	x	x	x	x	x	x	x	x	x	Dry	x	x	x	x
Duck Slough @ Hwy 59[1]									x					
Duck Slough @ Hwy 99		x	x	x	x	x	x	x	x				x	
Duck Slough @ Whealan Rd[1]									x					
Hatch Drain @ Tuolumne Rd							x	x	x					
Highline Canal @ Hwy 99			x	x	x	x	x	x	x	Dry	Dry	x	x	x
Highline Canal @ Lombardy Ave		x	x	x	x	x	x	x	x				x	
Hilmar Drain @ Central Ave		x	x	x	x	x	x	x	x				x	
Hilmar Drain @ Mitchell Rd[1]									x					
Howard Lateral @ Hwy 140										x	Dry	Dry	x	x
Jones Drain @ Oakdale Rd		x	x	x	x	x	x							
Lateral 2 ½ near Keyes Rd										x	Dry	Dry	x	x
Livingston Drain @ Robin Ave							x	x	x					

Adminsitrative Record
Page 16430

Station Name	2004	2005		2006		2007		2008			2009			
	Irrigation	Storm	Irrigation	Storm	Irrigation	Storm	Irrigation	Storm	Irrigation	Fall	Winter	Storm	Irrigation	Fall
Lone Willow Slough @ Madera Ave		x	x											
Merced River @ Santa Fe	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Miles Creek @ Reilly Rd							x	x	x				x	
Mootz Drain @ Langworth Rd										x	x	x	x	x
Mootz Drain downstream of Langworth Pond												x		
Mustang Creek @ East Ave					x	x	x	x	Dry	Dry	x	x	Dry	x
North Slough @ Hwy 59[1]									Dry					
Prairie Flower Drain @ Crows Landing Rd		x	x	x	x	x	x	x	x	x	x	x	x	x
Prairie Flower Drain @ Morgan Rd[1]									x					
Reclamation Drain @ Williams Ave[1]									x					
Silva Drain @ Meadow Dr					x	x	x	x	x					
South Slough @ Quinley Rd					x	Dry	x	x	x					
Westport Drain @ Vivian Rd							x	x	x					

A blank cell indicates that no sampling occurred at that site during the specified season.

"Dry" indicates that the site was dry during one or more events during the specified monitoring season.

[1]Upstream sampling of normal monitoring locations conducted for source identification.

Adminsitrative Record
Page 16431

Management Plan Monitoring

Management Plan Monitoring occurred at eleven sites during 2009: Deadman Creek @ Hwy 59, Dry Creek @ Oakdale Rd, Dry Creek @ Waterford Rd, Dry Creek @ Wellsford Rd, Duck Slough @ Hwy 99, Highline Canal @ Hwy 99, Highline Canal @ Lombardy Rd, Hilmar Drain @ Central Ave, Merced River @ Santa Fe, Miles Creek @ Reilly Rd, and Prairie Flower Drain @ Crows Landing Rd. The Coalition conducted the additional monitoring as part of the ESJWQC Management Plan's strategy to identify contaminant sources and evaluate effectiveness of newly implemented management practices at sites where exceedances had previously occurred more than once. This additional monitoring included toxicity analysis for *Ceriodaphnia* and *Selenastrum,* as well as chemistry analysis for copper and chlorpyrifos (Table 6). Details on the process and the schedule of Management Plan Monitoring are available in the ESJWQC Management Plan Update Report submitted April 1, 2009 to the Regional Board.

Adminsitrative Record
Page 16432

Table 6. 2009 Management Plan Monitoring sites and constituents.

Site Name	Year	Month	*Ceriodaphnia dubia*	*Selenastrum capricornutum*	Copper	Chlorpyrifos
Deadman Creek @ Hwy 59	2009	April		X		
Duck Slough @ Hwy 99	2009	April		X		
Highline Canal @ Hwy 99	2009	April		X		
Hilmar Drain @ Central Ave	2009	April		X		
Miles Creek @ Reilly Rd	2009	April		X		
Prairie Flower Drain @ Crows Landing Rd	2009	April		X		
Duck Slough @ Hwy 99	2009	May				X
Highline Canal @ Hwy 99	2009	May		X		
Highline Canal @ Lombardy Rd	2009	May		X		
Prairie Flower Drain @ Crows Landing Rd	2009	May		X		
Duck Slough @ Hwy 99	2009	June			X	
Dry Creek @ Waterford Rd	2009	July				X
Dry Creek @ Wellsford Rd	2009	July				X
Duck Slough @ Hwy 99	2009	July			X	X
Highline Canal @ Hwy 99	2009	July				X
Highline Canal @ Lombardy Rd	2009	July	X			X
Miles Creek @ Reilly Rd	2009	July			X	X
Deadman Creek @ Hwy 59	2009	August				X
Dry Creek @ Waterford Rd	2009	August				X
Dry Creek @ Wellsford Rd	2009	August				X
Duck Slough @ Hwy 99	2009	August			X	
Highline Canal @ Lombardy Rd	2009	August	X		X	X
Miles Creek @ Reilly Rd	2009	August			X	X
Prairie Flower Drain @ Crows Landing Rd	2009	August				X
Deadman Creek @ Hwy 59	2009	September				X
Duck Slough @ Hwy 99	2009	September			X	X
Hilmar Drain @ Central Ave	2009	September		X		
Miles Creek @ Reilly Rd	2009	September				X
Dry Creek @ Oakdale Rd	2009	November				X

Adminsitrative Record
Page 16433

Site Name	Year	Month	*Ceriodaphnia dubia*	*Selenastrum capricornutum*	Copper	Chlorpyrifos
Merced River @ Santa Fe	2009	November				X
Dry Creek @ Oakdale Rd	2009	December				X
Merced River @ Santa Fe	2009	December				X

Adminsitrative Record
Page 16434

Monitoring Seasons

The Coalition organizes its monitoring by "seasons": fall, winter, irrigation and storm (Table 7). Fall monitoring occurs after irrigation is finished and generally before dormant sprays (October – December). Winter monitoring occurs between January and March when dormant sprays and significant rainfalls are expected. Irrigation season sampling is scheduled to characterize the discharge from irrigated agriculture and irrigation return flows (April – September). A storm event can occur at anytime of the year but is expected to occur during the winter season. Additional details regarding storm sampling events and their rainfall trigger are included in the section "Sample Site Descriptions and Rainfall Records".

Table 7. Description of Monitoring Seasons.

Season	Month Range	Description
Fall	October-December	No irrigation.
Winter	January-March	No irrigation, possible dormant spray runoff.
Storm	Anytime	Storm is triggered by > 0.25 inches within 24 hours; may occur during any month but generally occurs between January and March.
Irrigation	April-September	Summer months with possible irrigation.

Monitoring Constituents

All monitoring constituents are listed in Table 3. The following section describes agricultural sources of the constituent groups analyzed for by the coalition.

Pesticides and Toxicity

Pesticides can be found in the water column or sediment as a result of applications to fields that are subsequently irrigated or drift from fields to surface waters during spraying. Irrigation return flows from fields or storm water runoff can move sediment and chemicals to surface waters. The concentrations can be compared to numeric and narrative water quality triggers to determine if exceedances are occurring. Toxicity testing is complementary to chemical analyses and can provide an independent and more direct assessment of the level of impairment in the water body. The objective of the Coalition is to use the results of toxicity testing along with water chemistry analysis to assess the impact of discharges from irrigated agriculture and determine the cause of any adverse impact.

The ESJWQC omitted sediment bound pesticides (glyphosate and paraquat dichloride) and pesticides no longer applied by agriculture (organochlorines and Group A pesticides) from their sampling schedule in May 2009. These constituents are to be sampled once a year during an event with high total suspended solids (TSS). The above pesticides have an extremely high

affinity for binding to sediments and organic material and therefore are rarely detected in the water column except for times when sediment runoff is a concern (i.e. a high TSS event).

Nutrients and Physical Parameters

Excessive nutrients can cause eutrophication of surface waters resulting in low dissolved oxygen and an inability to support normal aquatic communities. The Coalition's objective is to determine if exceedances are occurring and to determine if potential sources can be identified through analysis of monitoring data. However, sources of nutrients, organic carbon, and low dissolved oxygen are difficult to identify. If current monitoring data are not sufficient, the Coalition may conduct further investigations to identify sources. Such investigations may include special studies if they are determined to be cost effective. By understanding the sources of nutrients responsible for the exceedances, the Coalition can properly recommend management practices to address exceedances of nutrients and physical parameters.

Field Parameters

Much like physical parameters, exceedances of water quality objectives for pH, dissolved oxygen (DO), and specific conductance (SC) are difficult to track to sources. All of these parameters are non-conserved meaning that they can increase or decrease as water moves downstream. These parameters are the result of processes occurring in the water column and sediment and can vary diurnally. As with nutrients and physical parameters, the Coalition's objective is to determine if exceedances are occurring and to investigate potential sources through analysis of monitoring data and special studies if they are cost effective. By understanding the sources of constituents that may affect field parameters, the Coalition can properly recommend management practices to address the exceedances.

E. coli

E. coli inhabits the intestinal tracts of animals and is voided in fecal material. *E. coli* may persist in the presence of oxygen in the environment for periods of time after being voided. The bacteria are also known to reproduce and magnify in the environment. However, conditions under which this occurs are not well understood and require additional research. Any species of vertebrate that voids feces can contribute *E. coli* to surface waters, including humans, companion animals such as dogs and cats, cows, chickens, waterfowl (ducks and geese), raccoons, otters, ground squirrels, feral pigs, and in some locations deer. Consequently, there may be a large amount of bacteria in any environmental sample that is collected.

As a result of *E. coli* detections in samples collected for Coalition monitoring, a special study was conducted in 2006 to identify the contributing sources of *E. coli* in Coalition water bodies. Results from this study indicated that the most prominent source of bacteria being discharged into water bodies is human, with smaller contributions coming from bovine and chicken. A full report of the *E. coli* special study was submitted to the Central Valley Regional Water Quality Control Board (CVRWQCB) on September 9, 2007.

E. coli from humans can enter aquatic systems from leaky septic systems, leaky sanitary sewer lines, improperly treated discharge from waste water treatment plants, application of biosolids to agricultural land, and direct inputs from individuals who defecate in or near water bodies. Input from cows can occur from dairies, grazing in irrigated pastures, and various manure sources. *E. coli* from chickens can enter from poultry operations or manure sources. Irrigated agriculture is responsible for management if *E. coli* contamination is the result of runoff from irrigated pasture or manure applications for fertilizer.

Metals

Nine metals were included in Coalition monitoring until May 2009: arsenic, boron, cadmium, copper, lead, molybdenum, nickel, selenium and zinc. Five of these metals are analyzed for both dissolved and total concentrations, and three metals are analyzed only for total recoverable metal. Dissolved metals were added to the Coalition monitoring plan in 2008 as a result of a new provision in MRP Order R5-2008-0005. The Environmental Protection Agency (EPA) recommends "the use of dissolved metal to set and measure compliance with aquatic life water quality standards." The EPA states that dissolved metal "more closely approximates the bioavailable fraction of the metal in the water column than total recoverable metal." In order to assess compliance with water quality standards the Coalition analyzes for dissolved fractions of cadmium, copper, lead, nickel and zinc. The remaining metals are analyzed for total concentrations only. The ESJWQC omitted sampling for metals that are not currently applied by agriculture including arsenic, cadmium, lead and molybdenum except for a single event of high total suspended solids; this went into effect in May 2009 (ESJWQC MRPP amended on May 15, 2009).

Of the nine metals there are four general classes: 1) those that are naturally present because of underlying geologic materials but generally not applied by agriculture (boron, selenium, 2) those that are naturally present because of underlying geologic materials but are applied by agriculture (copper, zinc, nickel), 3) those that may be legacy pesticides but also have numerous nonagricultural sources (lead, arsenic), and 4) those that are found solely as a result of nonagricultural anthropogenic sources (cadmium). These categories are not mutually exclusive and in fact, all metals belong to the first category. For example, nickel is a plant micronutrient that may be incorporated into fertilizer mixes, although normally there is a sufficient quantity of nickel in soils to supply the needs of crops. As a result, although applied by agriculture, exceedances would be expected to primarily be a result of natural weathering of soils.

Natural weathering of geologic materials can release to surface waters metals and metalloid elements such as selenium, arsenic, and boron. Selenium salts are naturally elevated in the southwest portion of the San Joaquin Valley and are transported to surface waters during storm runoff. These salts are so problematic that there is a prohibition of discharge of irrigation tail water in some locations in the Valley. Arsenic appears to be naturally elevated in several locations in the San Joaquin Valley. Zinc and nickel are also found in soils and can be found in

surface waters at levels that reflect background concentrations. Both of these metals can be applied during agricultural operations as well, and the difference between applications and natural weathering must be understood to properly manage the amounts reaching surface waters. Understanding background levels of these elements will be an important task for the Coalition when trying to understand the magnitude of agricultural inputs to surface waters.

While all other metals can be released as a result of the weathering of geologic materials, elevated levels of most metals are a result of anthropogenic inputs. Lead was used as a pesticide during the last century but was used in declining amounts over the last several decades before being prohibited in the 1990s. Lead was also used in gasoline until the early 1980s when it was replaced by other fuel oxygenates. Lead-based paint was routinely used until the latter parts of the last century but is still present in many old buildings and structures. Lead is also a component of batteries, and is the material in solder in numerous electronic devices including televisions, computers, and cell phones. These sources can be distinguished through sophisticated analytical tests that are beyond the capabilities of the Coalition. Copper is routinely used by agriculture on a number of crops and could be found in surface waters as a result of applications. Additional sources include road surfaces where wearing of brake pads can result in substantial loading to surface waters.

Because fertilizer applications and the micronutrient constituents included in fertilizer mixes are not reported, there is no way the Coalition can distinguish between natural and anthropogenic sources with normal monitoring data. Several of these metals can be identified to source using sophisticated analytical equipment and techniques, but these tests are beyond the capabilities of the Coalition. Consequently, the Coalition will use monitoring data to determine if exceedances are occurring, and will attempt to establish background concentrations of some metals in surface waters to determine if concentrations are a result of natural or anthropogenic inputs to the water.

Sample Site Descriptions and Rainfall Records

The site names, codes and locations of the 18 sites sampled from October 2008 through December 2009 are provided in Table 8.

A narrative description of each site subwatershed with respect to hydrology and agricultural production is included in the section “Site Subwatershed Descriptions”. Location maps of sampling sites, crops and land uses are provided in the Land Use Maps and 2009 Annual Site Photos Appendix VIII.

ESJWQC region rainfall data for the months October 2008 through December 2009 are described in the section “Record of Rainfall”.

Adminsitrative Record
Page 16439

Table 8. ESJWQC October 2008 – December 2009 sampling locations.

Zone	Type	Site Name	Station Code	Latitude	Longitude
1	C*	Dry Creek @ Wellsford Rd	535XDCAWR	37.6602	-120.8743
1	A	Mootz Drain @ Langworth Rd*	535XMDALR	37.70582	-120.89303
1	A	Mootz Drain downstream of Langworth Pond*	535XMDDLP	37.70551	-120.89438
2	C*	Prairie Flower Drain @ Crows Landing	535XPFDCL	37.4422	-121.0024
2	A	Lateral 2 1/2 near Keyes Rd	535LTHNKR	37.54780	-121.09274
3	C*	Highline Canal @ Hwy 99	535XHCHNN	37.41530	-120.75570
3	A	Mustang Creek @ East Ave	535XMCAEA	37.49180	-120.68390
4	C*	Merced River @ Santa Fe Rd	535XMRSFD	37.4271	-120.6721
4	A	Howard Lateral @ Hwy 140	535XHLAHO	37.30790	-120.78200
5	C	Duck Slough @ Gurr Rd	535XDSAGR	37.2142	-120.5596
5	A	Deadman Creek @ Gurr Rd	535XDCAGR	37.19360	-120.56120
6	C	Cottonwood Creek @ Rd 20	545XCCART	36.8686	-120.1818
6	A	Ash Slough @ Ave 21	545XASAAT	37.05450	-120.41580
1	MPM	Dry Creek @ Waterford Rd	535XDCWF	37.65876	-120.77887
1	MPM*	Dry Creek @ Wellsford Rd	535XDCAWR	37.6602	-120.8743
2	MPM	Hilmar Drain @ Central Ave	535XHDACA	37.39060	-120.95820
2	MPM*	Prairie Flower Drain @ Crows Landing	535XPFDCL	37.4422	-121.0024
3	MPM	Dry Creek @ Oakdale Rd	535DCAORD	37.46047	-120.61530
3	MPM*	Highline Canal @ Hwy 99	535XHCHNN	37.41530	-120.75570
3	MPM	Highline Canal @ Lombardy Ave	535XHCALR	37.45560	-120.72070
4	MPM*	Merced River @ Santa Fe Rd	535XMRSFD	37.4271	-120.6721
5	MPM	Deadman Creek @ Hwy 59	535DMCAHF	37.19810	-120.48690
5	MPM	Duck Slough @ Hwy 99	535XDSAHN	37.25010	-120.41000
5	MPM	Miles Creek @ Reilly Rd	535XMCARR	37.25820	-120.47550

C – Core Monitoring site
A – Assessment Monitoring site
MPM – Management Plan Monitoring site
*Core site also sampled as MPM.
*Mootz Drain @ Langworth was approved to be moved downstream to Mootz Drain downstream of Langworth Pond on November 30, 2009. Sampling in the new location began December 8, 2009.

Adminsitrative Record
Page 16440

Site Subwatershed Descriptions

The Coalition sampled a total of 20 site subwatersheds as part of normal monitoring and Management Plan monitoring between October 2008 and December 2009. Not all sites had water during that time and some sites were not sampled during the entire period. Descriptions of the site subwatersheds for all sample sites are provided below alphabetically.

- Ash Slough @ Avenue 21 (29,613 irrigated acres) – Agriculture upstream includes vineyards, field crops, and deciduous nuts. Ash Slough flows just north of Chowchilla but there appears to be a buffer of agricultural land between Ash Slough and Chowchilla. Dairies are located upstream.

- Cottonwood Creek @ Road 20 (37,360 irrigated acres) – This site subwatershed is at the very southern edge of the Coalition region in Madera County and drains into the Eastside Bypass. The immediate upstream agriculture is vineyards, and there are deciduous nuts farther to the east. There are only a few dairies in the Cottonwood Creek site subwatershed.

- Deadman Creek @ Gurr Rd (39,789 irrigated acres) - This site subwatershed is a downstream site from Deadman Creek @ Hwy 59. The primary agriculture in the site subwatershed is orchards and row crops with some upstream irrigated pasture.

- Deadman Creek @ Highway 59 (36,543 irrigated acres) – Deadman Creek flows out of the Sierra foothills and confluences with Dutchman's Creek in the vicinity of Highway 59. The primary agriculture in the site subwatershed is orchards and row crops with some upstream irrigated pasture.

- Dry Creek @ Oakdale Ave (13,564 irrigated acres) – Dry Creek flows into Merced River at Oakdale Ave. The agriculture draining into Dry Creek consists primarily of deciduous trees.

- Dry Creek @ Waterford Rd (15,175 irrigated acres) – This site is upstream of Dry Creek @ Wellsford and collects runoff from approximately 62% of the irrigated agriculture in the subwatershed. The agriculture drained is of the same composition as Dry Creek @ Wellsford Rd and includes a combination of field crops, deciduous nuts, and vineyards.

- Dry Creek @ Wellsford Road (23,331 irrigated acres) – This site subwatershed is in the northern part of the Coalition region and drains a combination of field crops, deciduous nuts, and vineyards. Dry Creek originates to the east of Modesto and drains into the Tuolumne River. This site subwatershed samples Dry Creek at the furthest downstream location that collects agricultural drainage prior to flowing through the urban areas of Modesto. Dairies are located upstream of this site and the town of Waterford may contribute an urban signal.

- Duck Slough @ Gurr Road (21,082 irrigated acres) – This site subwatershed is a monitoring location downstream from Duck Slough @ Hwy 99. Located to the south

Adminsitrative Record
Page 16441

and west of Merced, this site drains field crops immediately upstream and deciduous nuts further upstream as well as some irrigated pasture. The city of Merced delivers treated water to Duck Slough a few miles upstream of the Gurr Road site. Duck Slough flows west eventually becoming Deadman Creek in the western portion of the Coalition region. The slough eventually flows into the San Joaquin River via Deadman Creek and Deep Slough.

- Duck Slough @ Hwy 99 (10,695 irrigated acres) – This site subwatershed is located upstream of the Duck Slough @ Gurr Road site and was selected to determine relative contribution of water quality impairments in the upstream portion of the Duck Slough subwatershed. Duck Slough originates in the Sierra foothills and flows west eventually joining with Deadman Creek in the western portion of the coalition region. The monitoring site is located just east of Highway 99, south of Planada and Merced. Irrigated agriculture in this site subwatershed is primarily deciduous nuts, with truck crops and irrigated pasture the next most common land uses.

- Highline Canal @ Highway 99 (35,220 irrigated acres) – The Highline Canal is a conveyance of the Turlock Irrigation District (TID) and carries both clean irrigation water and irrigation return flow during the summer, and storm water runoff during the winter. This site was selected as a downstream companion site to the Highline Canal @ Lombardy Road site. This site subwatershed is monitored to determine the relative contribution of the upstream and downstream site subwatersheds to water quality impairments. The sampling site is located just south of Delhi as the canal crosses the highway. The irrigated agriculture is primarily deciduous nuts, and these are located at the lower end of the site subwatershed. A small number of vineyards are also present.

- Highline Canal @ Lombardy Road (30,154 irrigated acres) – The Highline Canal is a conveyance of the Turlock Irrigation District and carries both clean irrigation water and irrigation return flow during the summer, and storm water runoff during the winter. The main upstream tributary of the Highline Canal is Mustang Creek. The Highline Canal flows west and eventually drains into the Merced River. Dairies are present upstream and Mustang Creek (described below), a major tributary during the dormant season, passes immediately to the southeast of the Turlock Airport. The main agricultural crop upstream is deciduous nuts.

- Hilmar Drain @ Central Ave (1,898 irrigated acres) – This site subwatershed is located toward the western edge of the Coalition region near the San Joaquin River. This is a small site subwatershed containing primarily field crops and a large number of dairies with irrigated pasture. Hilmar Drain originates at Williams Ave and Washington Road and eventually drains into the San Joaquin River. At this location TID refers to the water body as “Reclamation Drain.”

  Howard Lateral @ Hwy 140 (3,876 irrigated acres) – The lateral is located just south and west of Livingston Drain, in the central portion of the Coalition region in Merced County. Agricultural land use is predominantly truck/nursery/berry crops and deciduous fruit, but also includes field crops, pasture, grains/hay, vineyard and dairy.

Adminsitrative Record
Page 16442

- Lateral 2 1/2 near Keyes Rd (32,740 Irrigated acres) – This site subwatershed is located in the western portion of the Coalition region just south of the Tuolumne River and East of the San Joaquin River. The site subwatershed extends east past the City of Modesto to Turlock Lake. The primary agriculture in this site subwatershed is deciduous fruits and nuts but also includes almost all other crops types and land use found in the Coalition Region.

- Merced River @ Santa Fe Drive (33,421 irrigated acres) – This water body is designated as a major water body and is 303d listed. It was selected as an integrator site for several of the drains and tributaries in the vicinity. The Merced River originates in the high Sierra encountering several dams and impoundments as it flows west. The Merced River eventually drains into the San Joaquin River near Hatfield State Park. Upstream agriculture includes some field crops in the immediate vicinity of the river and deciduous nuts, primarily almonds.

- Miles Creek @ Reilly Rd. (9,840 irrigated acres) – Miles Creek is located just north of Duck Slough and drains into Owen's Creek. The primary agriculture includes field crops, deciduous nuts and fruit, pasture and truck/nursery/berry. Within the subwatershed are also urban drainages, dairies and hay, and pasture lands.

- Mootz Drain @ Langworth Rd (2,829 irrigated acres) – This site subwatershed is located in the northern part of the Coalition region. The drain originates to the east of Modesto and drains through Lateral 6 into the Stanislaus River. Land use upstream of the site is predominantly pastures and dairies. A small portion of land is allocated as field crops. The sample for this site is located upstream of the retention pond.

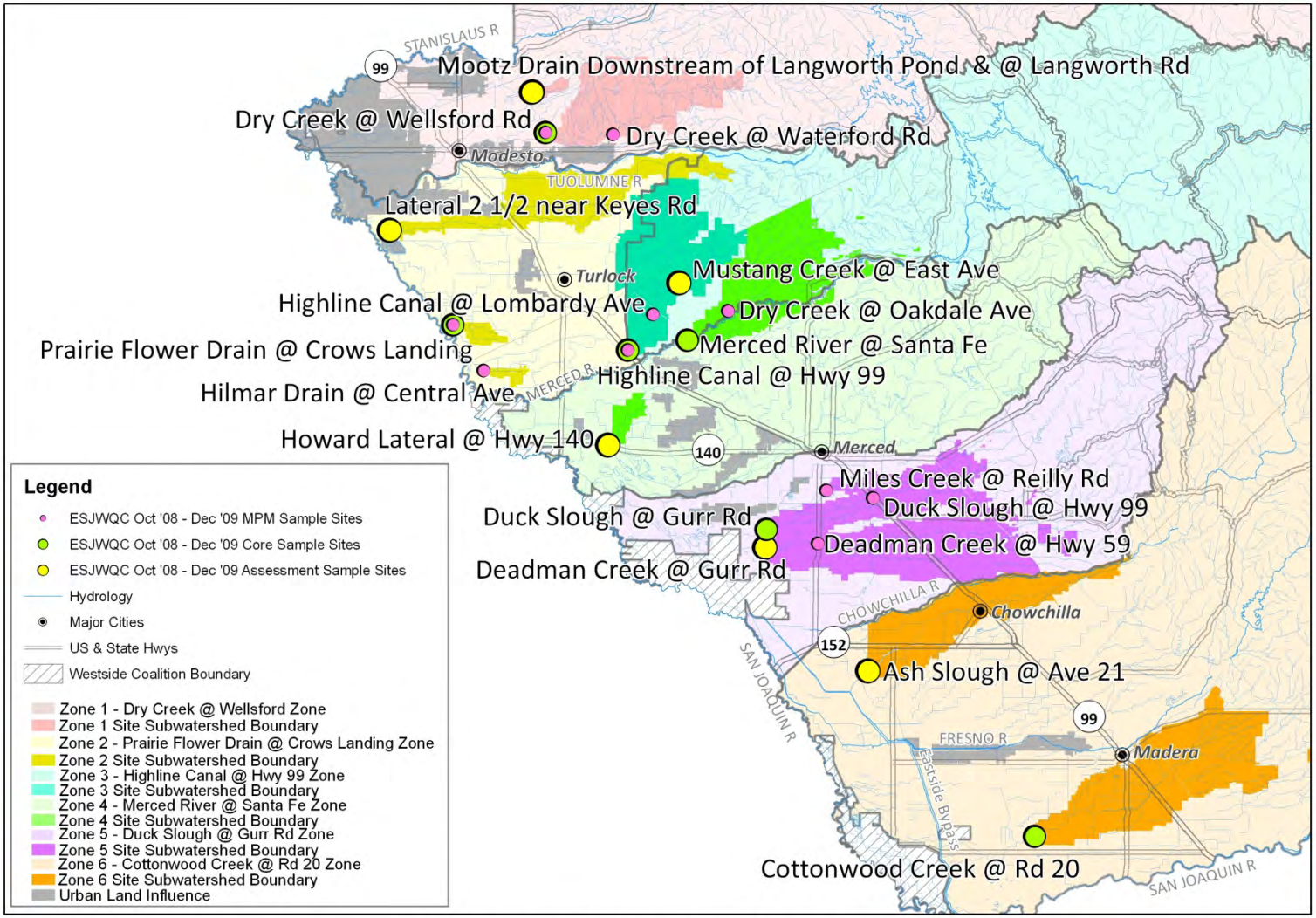
- Mootz Drain downstream of Langworth Pond (2,829 irrigated acres) – This site subwatershed is just downstream of Mootz Drain @ Langworth and represents the same acreage upstream but the sample is taken downstream of the retention pond rather than upstream.

- Mustang Creek @ East Ave (9,643 irrigated acres) – Mustang Creek originates in the foothills of the Sierra Nevada and flows into the upper portion of the Highline Canal. Mustang Creek is ephemeral with flow found primarily during winter runoff events. Summer flows are intermittent as the upstream orchards utilize microspray irrigation. Citrus and deciduous nut crops are the main agriculture with smaller amounts of field crops and grains and hay.

- Prairie Flower Drain @ Crows Landing Road (3,611 irrigated acres) – Relative to other drains in the western portion of the Coalition region, Prairie Flower Drain is longer and appears to drain mostly irrigated agriculture. Dairies and feedlots are ubiquitous in this part of the Coalition region and this drain may receive runoff from several dairies immediately upstream. Upstream agriculture is field crops.

Sample Site Locations

Figure 9. Site subwatershed locations relative to zone boundaries.



Adminsitrative Record
Page 16444

Rainfall Records

The ESJWQC considers a sampling event a "storm sampling event" when there has been at least 0.25 inches of rain within a 24 hour period. Monthly sampling is pre-scheduled and, if a storm is forecasted within a week before a scheduled sampling event or within two days after the scheduled sampling event, the Coalition moves its sampling date to capture the storm. The Coalition sampled three storms between October 2008 and December 2009. Below is a description of all the storms that occurred during that time period, including whether or not they were sampled.

Daily rainfall records are graphed for the three major cities in the Coalition region Modesto, Merced and Madera in Figure 10 (October – December 2008), Figure 11 (January – March 2009), Figure 12 (April – June 2009), Figure 13 (July – September 2009) and Figure 14 (October – December 2009).

October 2008 – December 2009

The period between October and December is not generally when large storm events occur. The area requires a few storm events to saturate the soils before rainfall will result in subsequent discharge in local streams and rivers. Because of this, the ESJWQC did not sample rain events in October and November 2009.

There was a storm in the ESJWQC region that lasted from October 30 through November 4, 2008, resulting in 0.74 inches of precipitation in Merced, 0.35 inches in the Modesto area, and 0.58 inches in Madera. The next sizable storm occurred on November 26, 2008 resulting in 0.41 inches of rain in Merced, 0.35 inches in Modesto, and 0.58 inches in Madera.

The first ESJWQC storm sampling event took place on December 16, 2008. This storm was accompanied by gusty winds and deposited 0.48 inches of rain on the Merced area in five days with 0.37 inches falling on December 14 (Figure 10). The last significant rain event of 2008 occurred between December 21- 25, 2008. This storm brought rainfall totals of 0.66 inches in Merced, 0.65 inches in Madera, and 1.06 inches in Modesto. Sampling did not occur since this rain event occurred less than two weeks after the December 16, 2008 storm event. After December, the Merced area of California reported seasonal rainfall of approximately 72% of the historical average (historical average from California Data Exchange Center (CDEC) for Merced in December is 2.00 inches).

January 2009 – March 2009

On January 2, 2009 one small rain event brought 0.08 inches of precipitation to Modesto and 0.07 inches to Merced. A few scattered showers on January 5, 2009 resulted in 0.03 inches in Modesto, and 0.02 inches in Merced and Madera. On January 21- 25, 2009, a sizeable storm came across the state that brought heavy rain to the region. Within 24 hours on January 23, Merced recorded 1.19 inches of precipitation, making the total amount of rain for the five days

equivalent to 1.73 inches. Modesto received 0.50 inches and Madera received 1.37 inches. The Coalition did not sample this event since sampling already occurred on January 20 as scheduled. This storm had been unanticipated and was not expected to result in the rainfall that occurred.

The first storm sampling event of 2009 took place on February 7, 2009, preceded by a strong two-day storm February 5- 6, 2009, that deposited 0.65 inches of rain in Madera; only 0.21 inches of rain in was recorded in Modesto and 0.20 inches in Merced (Figure 11). Due to the January rain events which saturated the soils in most of the Central Valley, the amount of rain that occurred by February 7 was considered sufficient to result in discharge throughout most of the Coalition region. On February 8, 2009, the day after storm sampling, rainfall continued in parts of the Coalition area resulting in 0.41 inches in Merced and 0.01 inches in Madera; there was no additional rain in Modesto.

The next system brought rainfall to the San Joaquin Valley shortly after the previous storm and remained in the area from February 11-18, 2009. This system showed measureable precipitation everyday with February 13 being the wettest day with totals of 0.40 to 0.49 inches in all three cities. The total precipitation for all eight days was 1.17 inches in Merced, 1.07 inches for Modesto, and 1.39 inches in Madera. There was a short break with no rain before the next system crossed the San Joaquin Valley. This system lasted six day, spanning February 21-26, 2009. Totals from this storm were less than the preceding rain event, but still significant with precipitation totals of 0.38 inches in Merced, slightly less at 0.21 inches in Modesto, and 0.33 inches in Madera. Due to saturated soils and continuous rains, it was not anticipated that dormant spray applications occurred during the rest of February.

During the first part of March, a good sized weather system lasted four days from March 1-4, 2009. The Merced area reported 0.63 inches of precipitation, Modesto 0.34 inches, and Modesto only had 0.09 inches. A small storm swept across the south Coalition region on March 21-22, 2009, and only resulted in 0.16 inches of precipitation in Modesto on March 21 and 0.03 inches on March 22, 2009. Merced received 0.10 inches and Madera recorded 0.42 inches on March 22. Following this storm, the Merced area had reported rainfall of approximately 58% of historical averages (historical average from CDEC for Merced in March is 1.75 inches).

April 2009 – September 2009

Merced received 0.47 inches of precipitation between April 6–9, 2009, and 0.31 inches of precipitation was recorded in Modesto. This system stayed to the north part of the San Joaquin Valley, therefore Madera only received 0.01 inches during this same time. The next small summer rain event occurred over May 1 and 2, producing 0.55 inches of precipitation in Merced, 0.20 inches in Modesto, and 0.11 inches in Madera (Figure 12). A small system swept quickly across the state on June 5, 2009 and lasted one day. Merced and Madera reported 0.24 inches and 0.54 inches of precipitation, respectively, while Modesto only received 0.04 inches.

The area was relatively dry with little to no measureable precipitation the rest of June through August.

On September 14, 2009, a small cell moved across Merced and amounted to less than a quarter inch of precipitation (Figure 13).

October 2009 – December 2009

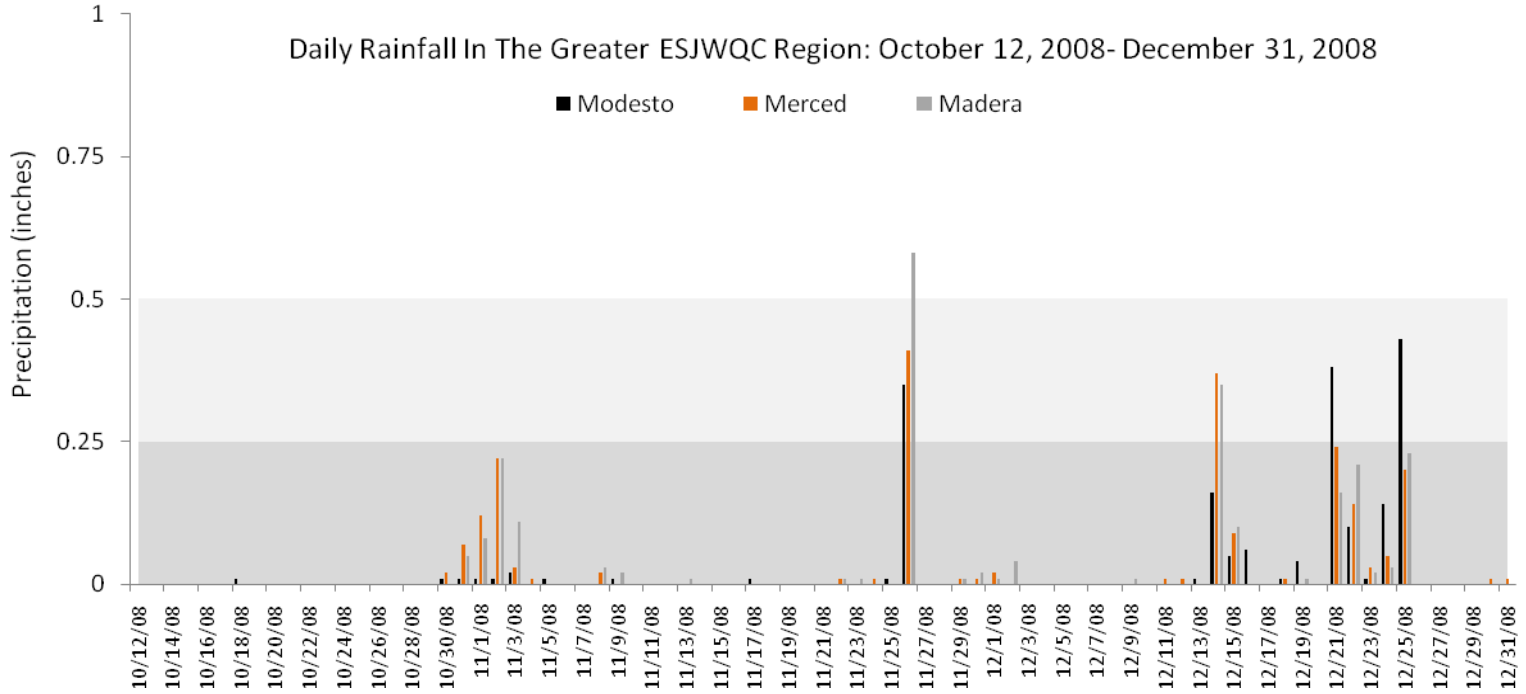
One heavy cell passed over the state on October 13, 2009 reporting as much as 1.57 inches in Modesto, 1.39 inches in Merced, and 0.81 inches in Madera (Figure 14). This event was early in the season and it was predicted that few, if any, dormant sprays would have been applied yet. No storm sampling took place to catch runoff from this event and normal monitoring occurred on October 20, 2009 as scheduled. No major rain events occurred during the remaining days of October. In November, the Merced area recorded only 0.24 inches of precipitation for the month, with less recorded in Modesto and Madera.

On December 7, 2009, a short but heavy system swept across the region bringing rain to the Coalition area. This system dropped 0.51 inches of precipitation in Merced, 0.41 inches in Modesto, and 0.30 inches in Madera. Due to sampling conflicts and the fact that another storm was predicted for the next week, sample collection was postponed until the next storm. The second storm sampling event of 2009 took place on December 15, 2009 following a three day storm system that deposited 1.60 inches of rain in Merced, 0.92 inches in Madera, and 0.49 inches in Modesto (Figure 14). This system was predicted in advance and appropriate arrangements were made for the Coalition to prepare for storm sampling. The rain stopped by the time sampling occurred on December 14, and a majority of the water bodies had slightly increased flows when compared to October flows except for Duck Slough @ Gurr Rd. The flows in Duck Slough were unsafe to measure as the depth of water increased from 0.5 inches in November to over eight feet in December.

A small system came through on December 21, 2009 resulting in 0.22 inches of precipitation in Merced, 0.11 inches in Modesto, and 0.46 inches in Madera. Subsequently, on December 26-30, 2009, a system brought precipitation totals of 0.30 inches to Merced, 0.31 inches to Modesto and 0.30 inches to Madera. Storm sampling did not occur during either of these events since storm sampling was already conducted less than two weeks earlier on December 15, 2009.

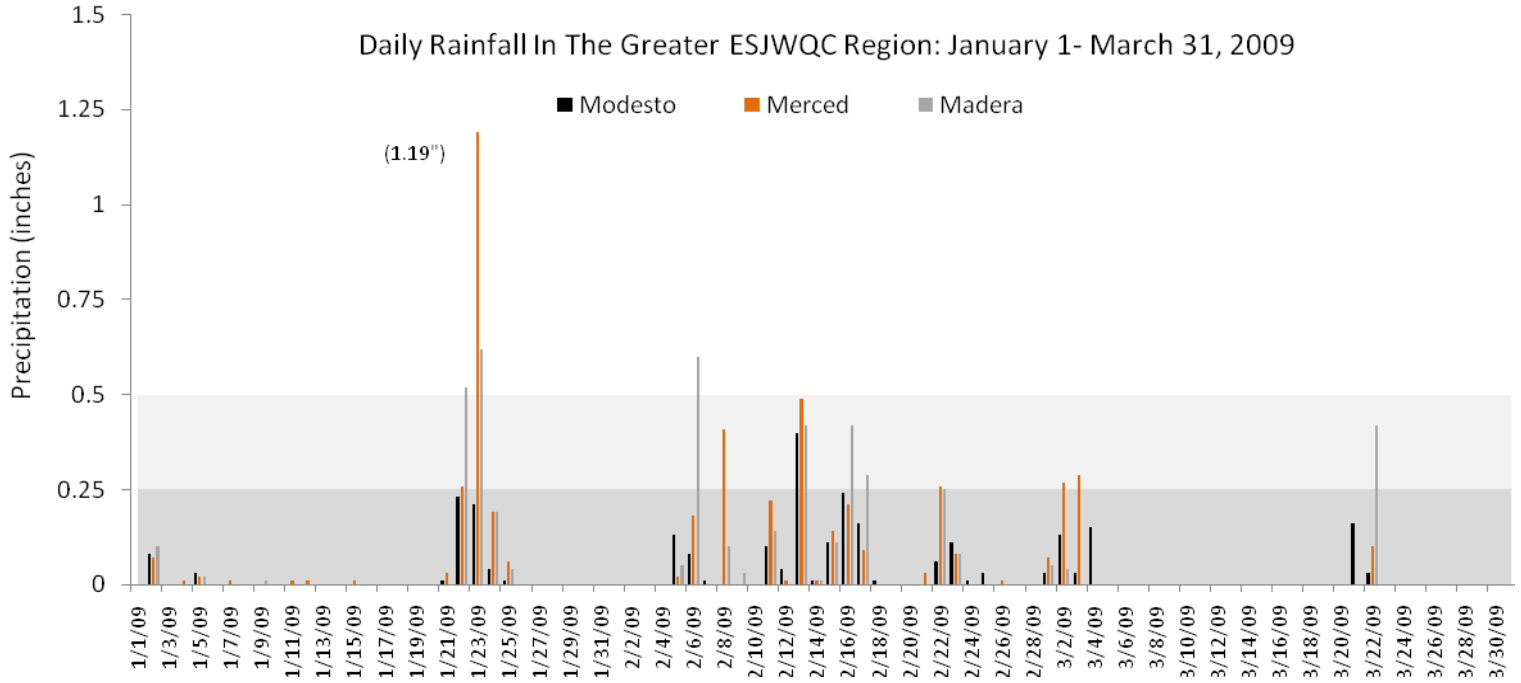
Adminsitrative Record
Page 16447

Figure 10. Local weather conditions between October 12, 2008 and December 31, 2008.
Storm sampling occurred on December 16, 2008. All data recorded in Merced, CA and reported on weatherunderground.com.



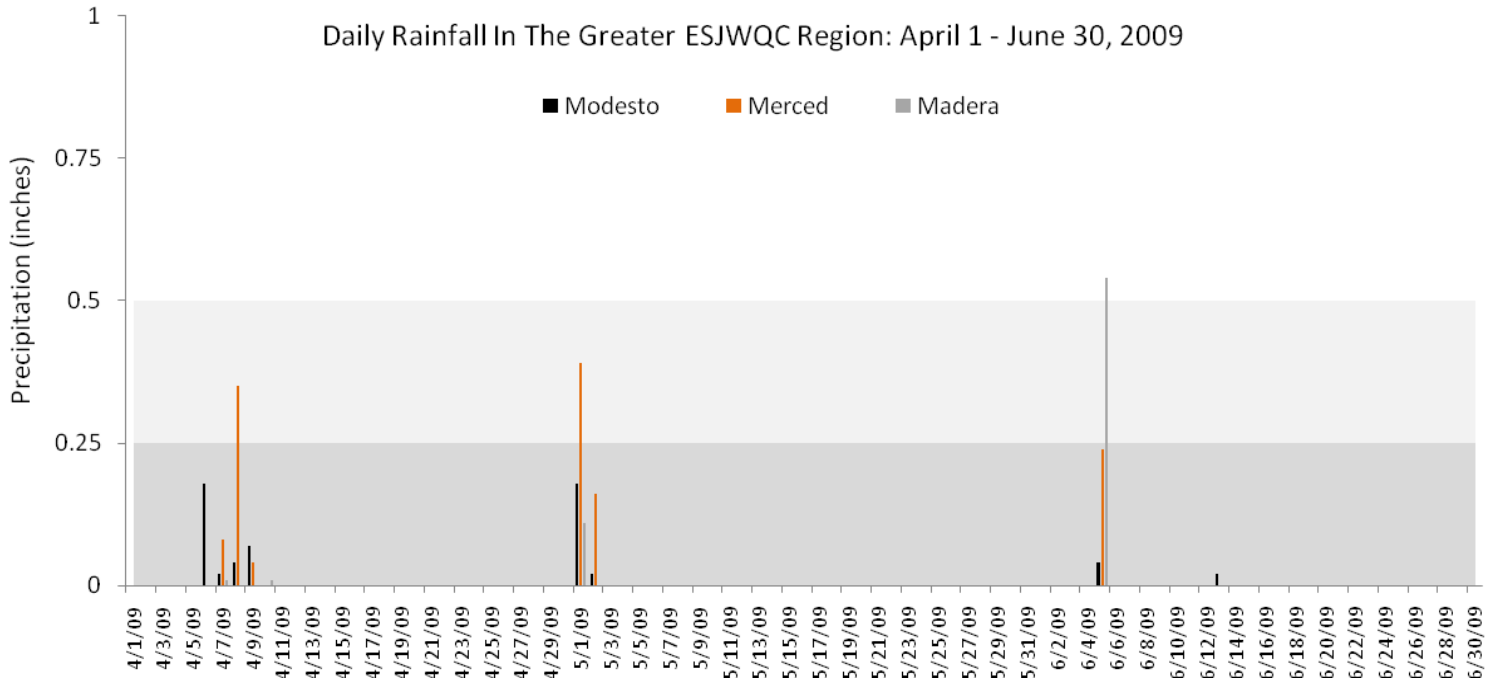
Adminsitrative Record
Page 16448

Figure 11. Local weather conditions between January 1 and March 31, 2009.
Storm sampling occurred on February 7, 2009. All data recorded in Merced, CA and reported on weatherunderground.com.



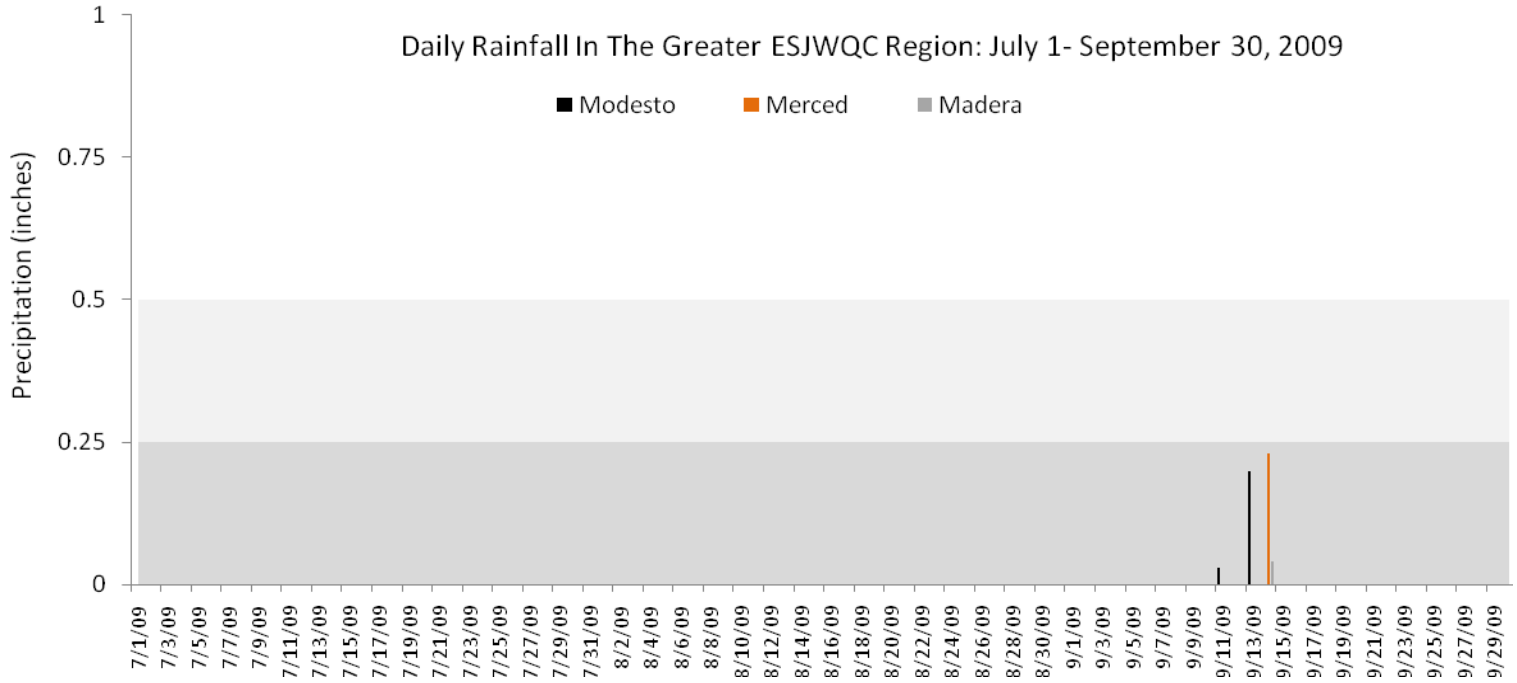
Adminsitrative Record
Page 16449

Figure 12. Local weather conditions between April 1 - June 30, 2009.
Storm sampling occurred on February 7, 2009. All data recorded in Merced, CA and reported on weatherunderground.com.



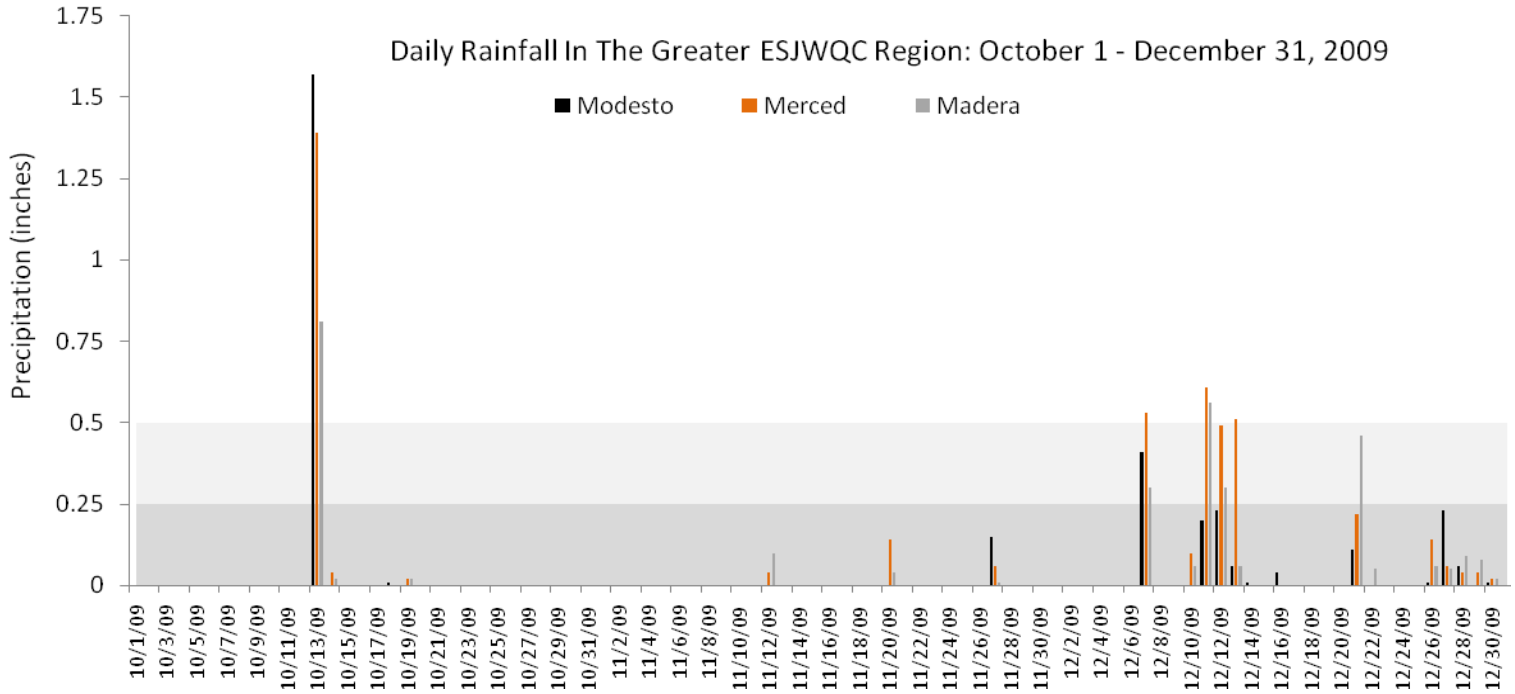
Adminsitrative Record
Page 16450

Figure 13. Local weather conditions between July 1- September 30, 2009.
Storm sampling occurred on February 7, 2009. All data recorded in Merced, CA and reported on weatherunderground.com.



Adminsitrative Record
Page 16451

Figure 14. Local weather conditions between October 1- December 31, 2009.
Storm sampling occurred on February 7, 2009. All data recorded in Merced, CA and reported on weatherunderground.com.



Adminsitrative Record
Page 16452

Monitoring Results

Sample Details

Original Chain of Custody (COC) forms were scanned and converted to pdf. Pdf copies of the COCs are provided in Appendix I. COCs were faxed by the laboratories to Michael L. Johnson,LLC (MLJ-LLC) after the receipt of samples by the laboratory. As such, they are complete and accurate records of sample handling and processing and reflect the timing of sample collection and delivery to the laboratories. Sample collection and delivery was performed according to the ESJWQC QAPP. If there were any discrepancies between the COC and sample delivery, the issues were resolved and documented either directly on the COC or on an anomaly form filled out by the laboratory. Documentation of COC anomalies can be found in Appendix I.

Complete monitoring results from sampling that occurred from October 2008 through December 2009 are included in Appendix II and III. The results include field parameters, organic (pesticides), inorganics including metals and *E. coli*, toxicity (water and sediment), sediment chemistry, and loads for any detectable analyte with corresponding site flow. Loads have been calculated for all detections (Appendix II, Table II-8) according to the following formula:

Instantaneous Load (µg/sec) = Discharge (cfs) X 28.317L x Concentration (milligram/L x 1,000 or µg/L).

The load values calculated and presented for pesticides or other constituents in this report represent instantaneous loads only. These values should not be used to extrapolate loading over any period of time (e.g. weekly, monthly, seasonal or annual). The primary purpose for reporting instantaneous loads is to provide the Regional Water Board with a context for the concentrations of various constituents at the time that samples were collected.

Monitoring data include results from samples taken for normal monitoring, Management Plan Monitoring and sediment monitoring events. Each sampling location, sampling date, sampling time and type of monitoring is listed in Table 9.

All field data sheets can be found in Appendix IX. Laboratory reports for the last quarter of 2009 will be submitted along with this report on March 1, 2010 and previous quarters' reports have already been submitted with the Coalition's Quarterly Data Submittals.

Table 9. Sample details for samples collected from October 2008 through December 2009 (sorted by station name, sample date and monitoring event).

Station Name	Station Code	Monitoring Event	Season, Group	Sample Date	Sample Time	Failure Reason	Sample Comments
Ash Slough @ Ave 21	545XASAAT	NM	Fall1	10/21/2008	10:05	Dry	
Ash Slough @ Ave 21	545XASAAT	NM	Fall2	11/11/2008	09:56	Dry	
Ash Slough @ Ave 21	545XASAAT	NM	Storm3	12/16/2008	10:28	Dry	
Ash Slough @ Ave 21	545XASAAT	NM	Winter1	1/20/2009	10:43	Dry	
Ash Slough @ Ave 21	545XASAAT	NM	Storm1	2/7/2009	10:23	Dry	
Ash Slough @ Ave 21	545XASAAT	NM	Winter2	3/17/2009	09:52	Dry	
Ash Slough @ Ave 21	545XASAAT	NM, SED	Irrigation1	4/21/2009	09:55	Dry	
Ash Slough @ Ave 21	545XASAAT	NM	Irrigation2, Non Contiguous	5/19/2009	11:30	None	Non contiguous water body, water was flowing upstream of the bridge but disappeared in the sand beneath the bridge.
Ash Slough @ Ave 21	545XASAAT	NM	Irrigation3	6/16/2009	11:00	Dry	
Ash Slough @ Ave 21	545XASAAT	NM	Irrigation4	7/21/2009	11:30	Dry	
Ash Slough @ Ave 21	545XASAAT	NM, SED	Irrigation5	8/18/2009	12:00	Dry	
Ash Slough @ Ave 21	545XASAAT	NM	Irrigation6	9/22/2009	11:25	Dry	
Ash Slough @ Ave 21	545XASAAT	NM	Fall1	10/20/2009	10:40	Dry	
Ash Slough @ Ave 21	545XASAAT	NM	Fall2	11/17/2009	10:33	Dry	
Ash Slough @ Ave 21	545XASAAT	NM	Storm2	12/15/2009	11:07	Dry	
Cottonwood Creek @ Rd 20	545XCCART	NM	Fall1	10/21/2008	09:17	Dry	
Cottonwood Creek @ Rd 20	545XCCART	NM	Fall2	11/11/2008	09:16	Dry	
Cottonwood Creek @ Rd 20	545XCCART	NM	Storm3	12/16/2008	09:33	Dry	
Cottonwood Creek @ Rd 20	545XCCART	NM	Winter1	1/20/2009	10:00	Dry	
Cottonwood Creek @ Rd 20	545XCCART	NM	Storm1, Non Contiguous	2/7/2009	09:30	None	Non contiguous water body, discharge recorded as zero.
Cottonwood Creek @ Rd 20	545XCCART	NM	Winter2	3/17/2009	09:05	Dry	
Cottonwood Creek @ Rd 20	545XCCART	NM, SED	Irrigation1	4/21/2009	09:10	Dry	
Cottonwood Creek @ Rd 20	545XCCART	NM	Irrigation2	5/19/2009	09:10	None	
Cottonwood Creek @ Rd 20	545XCCART	NM	Irrigation3	6/16/2009	10:20	None	
Cottonwood Creek @ Rd 20	545XCCART	NM	Irrigation4	7/21/2009	10:50	Dry	

Adminsitrative Record
Page 16454

Station Name	Station Code	Monitoring Event	Season, Group	Sample Date	Sample Time	Failure Reason	Sample Comments
Cottonwood Creek @ Rd 20	545XCCART	NM, SED	Irrigation5	8/18/2009	10:40	None	Creek was shallow and sediment was stirred up during sample collection.
Cottonwood Creek @ Rd 20	545XCCART	NM	Irrigation6	9/22/2009	10:25	Dry	
Cottonwood Creek @ Rd 20	545XCCART	NM	Fall1	10/20/2009	09:30	None	Too shallow to measure discharge.
Cottonwood Creek @ Rd 20	545XCCART	NM	Fall2	11/17/2009	09:40	None	
Cottonwood Creek @ Rd 20	545XCCART	NM	Storm2	12/15/2009	10:00	None	
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	NM	Fall1	10/21/2008	10:50	None	
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	NM	Fall2	11/11/2008	10:40	None	
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	NM	Storm3	12/16/2008	12:00	None	
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	NM	Winter1	1/20/2009	12:00	None	Discharge recorded as zero due to no measurable flow.
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	NM	Storm1	2/7/2009	11:00	None	
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	NM	Winter2	3/17/2009	10:30	None	Discharge recorded as zero due to no measurable flow.
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	NM, SED	Irrigation1	4/21/2009	12:00	None	Sediment chemistry analyzed for toxic samples only.
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	NM	Irrigation2	5/19/2009	12:50	None	
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	NM	Irrigation3	6/16/2009	11:50	None	
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	NM	Irrigation4	7/21/2009	12:30	None	Discharge recorded as zero due to flow moving in upstream direction, from west to east.
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	NM, SED	Irrigation5	8/18/2009	14:20	None	Sediment chemistry analyzed for toxic samples only; Discharge recorded as zero due to flow moving in upstream direction, from west to east.
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	NM	Irrigation6	9/22/2009	13:40	None	
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	NM	Fall1	10/20/2009	11:30	None	Discharge recorded as zero due to no measurable flow.
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	NM	Fall2, Non Contiguous	11/17/2009	11:20	None	Non contiguous water body; Discharge recorded as zero due to flow moving in upstream direction, from west to east.
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	NM	Storm2, Non Contiguous	12/15/2009	12:30	None	Non contiguous water body, discharge recorded as zero.
Deadman Creek @ Hwy 59	535DMCAHF	MPM	Irrigation1, Management Plan Monitoring	4/21/2009	11:28	Dry	April MPM for *Selenastrum* toxicity.
Deadman Creek @ Hwy 59	535DMCAHF	MPM	Irrigation5, Management Plan Monitoring	8/18/2009	13:49	Dry	August MPM for chlorpyrifos.
Deadman Creek @ Hwy 59	535DMCAHF	MPM	Irrigation6, Management Plan Monitoring	9/22/2009	11:55	Dry	September MPM for chlorpyrifos.

Adminsitrative Record
Page 16455

Station Name	Station Code	Monitoring Event	Season, Group	Sample Date	Sample Time	Failure Reason	Sample Comments
Dry Creek @ Oakdale Rd	535DCAORD	MPM	Fall2, Management Plan Monitoring	11/17/2009	13:54	Dry	November MPM for chlorpyrifos.
Dry Creek @ Oakdale Rd	535DCAORD	MPM	Storm2, Management Plan Monitoring	12/15/2009	13:55	Dry	December MPM for chlorpyrifos.
Dry Creek @ Wellsford Rd	535XDCAWR	NM	Fall1	10/21/2008	08:50	None	
Dry Creek @ Wellsford Rd	535XDCAWR	NM	Fall2	11/11/2008	09:30	None	
Dry Creek @ Wellsford Rd	535XDCAWR	NM	Storm3	12/16/2008	09:20	None	Discharge recorded as zero due to no measurable flow.
Dry Creek @ Wellsford Rd	535XDCAWR	NM	Winter1	1/20/2009	09:10	None	Discharge recorded as zero due to no measurable flow.
Dry Creek @ Wellsford Rd	535XDCAWR	NM	Storm1	2/7/2009	11:10	None	Discharge recorded as zero due to no measurable flow.
Dry Creek @ Wellsford Rd	535XDCAWR	NM	Winter2	3/17/2009	10:50	None	
Dry Creek @ Wellsford Rd	535XDCAWR	NM	Irrigation1	4/21/2009	11:20	None	Pipe upstream actively discharging into Dry Creek.
Dry Creek @ Wellsford Rd	535XDCAWR	NM	Irrigation2	5/19/2009	11:30	None	
Dry Creek @ Wellsford Rd	535XDCAWR	NM	Irrigation3	6/16/2009	10:50	None	
Dry Creek @ Wellsford Rd	535XDCAWR	NM, MPM	Irrigation4, Management Plan Monitoring	7/21/2009	10:50	None	July MPM for chlorpyrifos.
Dry Creek @ Wellsford Rd	535XDCAWR	NM, MPM	Irrigation5, Management Plan Monitoring	8/18/2009	12:30	None	August MPM for chlorpyrifos.
Dry Creek @ Wellsford Rd	535XDCAWR	NM	Irrigation6	9/22/2009	11:00	None	
Dry Creek @ Wellsford Rd	535XDCAWR	NM	Fall1	10/20/2009	11:10	None	
Dry Creek @ Wellsford Rd	535XDCAWR	NM	Fall2	11/17/2009	12:20	None	Discharge recorded as zero due to no measurable flow.
Dry Creek @ Wellsford Rd	535XDCAWR	NM	Storm2	12/15/2009	09:50	None	
Dry Creek at Waterford	535XDCWF	MPM	Irrigation4, Management Plan Monitoring	7/21/2009	11:50	None	July MPM for chlorpyrifos.
Dry Creek at Waterford	535XDCWF	MPM	Irrigation5, Management Plan Monitoring	8/18/2009	13:30	None	August MPM for chlorpyrifos.
Duck Slough @ Gurr Rd	535XDSAGR	NM	Fall1	10/21/2008	11:41	Dry	
Duck Slough @ Gurr Rd	535XDSAGR	NM	Fall2	11/11/2008	11:27	Dry	
Duck Slough @ Gurr Rd	535XDSAGR	NM	Storm3	12/16/2008	14:00	None	
Duck Slough @ Gurr Rd	535XDSAGR	NM	Winter1	1/20/2009	13:50	None	

Adminsitrative Record
Page 16456

Station Name	Station Code	Monitoring Event	Season, Group	Sample Date	Sample Time	Failure Reason	Sample Comments
Duck Slough @ Gurr Rd	535XDSAGR	NM	Storm1	2/7/2009	12:40	None	
Duck Slough @ Gurr Rd	535XDSAGR	NM	Winter2, Non Contiguous	3/17/2009	11:20	None	Non contiguous water body, discharge recorded as zero.
Duck Slough @ Gurr Rd	535XDSAGR	NM	Irrigation1	4/21/2009	13:20	None	
Duck Slough @ Gurr Rd	535XDSAGR	NM	Irrigation2	5/19/2009	13:40	None	
Duck Slough @ Gurr Rd	535XDSAGR	NM	Irrigation3	6/16/2009	12:30	None	
Duck Slough @ Gurr Rd	535XDSAGR	NM	Irrigation4	7/21/2009	13:20	None	
Duck Slough @ Gurr Rd	535XDSAGR	NM	Irrigation5	8/18/2009	15:40	None	
Duck Slough @ Gurr Rd	535XDSAGR	NM	Irrigation6	9/22/2009	14:50	None	
Duck Slough @ Gurr Rd	535XDSAGR	NM	Fall1	10/20/2009	12:30	None	
Duck Slough @ Gurr Rd	535XDSAGR	NM	Fall2, Non Contiguous	11/17/2009	12:10	None	Non contiguous water body, discharge recorded as zero.
Duck Slough @ Gurr Rd	535XDSAGR	NM	Storm2	12/15/2009	14:40	None	Too deep to measure discharge.
Duck Slough @ Hwy 99	535XDSAHN	MPM	Irrigation1, Management Plan Monitoring	4/21/2009	10:40	None	April MPM for *Selenastrum* toxicity; Discharge not measured due to toxicity monitoring only.
Duck Slough @ Hwy 99	535XDSAHN	MPM	Irrigation2, Management Plan Monitoring	5/19/2009	09:00	None	May MPM for chlorpyrifos; Too deep to measure discharge.
Duck Slough @ Hwy 99	535XDSAHN	MPM	Irrigation3, Management Plan Monitoring	6/16/2009	09:00	None	June MPM for copper; Too deep to measure discharge.
Duck Slough @ Hwy 99	535XDSAHN	MPM	Irrigation4, Management Plan Monitoring	7/21/2009	09:50	None	July MPM for chlorpyrifos and copper; Too deep to measure discharge.
Duck Slough @ Hwy 99	535XDSAHN	MPM	Irrigation5, Management Plan Monitoring	8/18/2009	09:00	None	August MPM for copper; Too deep to measure discharge.
Duck Slough @ Hwy 99	535XDSAHN	MPM	Irrigation6, Management Plan Monitoring	9/22/2009	09:00	None	September MPM for chlorpyrifos and copper; Too deep to measure discharge.
Highline Canal @ Hwy 99	535XHCHNN	NM	Fall1, Non Contiguous	10/21/2008	12:50	Stagnant	Non contiguous water body, no samples taken due to a miscommunication with field crew; Discharge recorded as zero.
Highline Canal @ Hwy 99	535XHCHNN	NM	Fall2	11/11/2008	08:09	Dry	
Highline Canal @ Hwy 99	535XHCHNN	NM	Storm3	12/16/2008	13:32	Dry	
Highline Canal @ Hwy 99	535XHCHNN	NM	Winter1	1/20/2009	08:47	Dry	
Highline Canal @ Hwy 99	535XHCHNN	NM	Storm1	2/7/2009	14:20	None	Discharge recorded as zero due to no measurable flow.

Adminsitrative Record
Page 16457

Station Name	Station Code	Monitoring Event	Season, Group	Sample Date	Sample Time	Failure Reason	Sample Comments
Highline Canal @ Hwy 99	535XHCHNN	NM	Winter2	3/17/2009	12:30	Dry	
Highline Canal @ Hwy 99	535XHCHNN	NM, MPM	Irrigation1, Management Plan Monitoring	4/21/2009	15:50	None	April MPM for *Selenastrum* toxicity.
Highline Canal @ Hwy 99	535XHCHNN	NM, MPM	Irrigation2, Management Plan Monitoring	5/19/2009	15:40	None	May MPM for *Selenastrum* toxicity; Too deep to measure discharge.
Highline Canal @ Hwy 99	535XHCHNN	NM	Irrigation3	6/16/2009	14:20	None	Too deep to measure discharge.
Highline Canal @ Hwy 99	535XHCHNN	NM, MPM	Irrigation4, Management Plan Monitoring	7/21/2009	08:30	None	July MPM for chlorpyrifos.
Highline Canal @ Hwy 99	535XHCHNN	NM	Irrigation5	8/18/2009	18:00	None	Too deep to measure discharge.
Highline Canal @ Hwy 99	535XHCHNN	NM	Irrigation6	9/22/2009	16:10	None	Too deep to measure discharge.
Highline Canal @ Hwy 99	535XHCHNN	NM	Fall1	10/20/2009	15:10	None	Too deep to measure discharge.
Highline Canal @ Hwy 99	535XHCHNN	NM	Fall2	11/17/2009	13:09	Dry	
Highline Canal @ Hwy 99	535XHCHNN	NM	Storm2, Non Contiguous	12/15/2009	15:50	None	Non contiguous water body, discharge recorded as zero.
Highline Canal @ Lombardy Rd	535XHCALR	MPM	Irrigation2, Management Plan Monitoring	5/19/2009	16:00	None	May MPM for *Selenastrum* toxicity; Discharge not measured due to toxicity monitoring only.
Highline Canal @ Lombardy Rd	535XHCALR	MPM	Irrigation4, Management Plan Monitoring	7/21/2009	16:40	None	July MPM for chlorpyrifos and *Ceriodaphnia* toxicity; Too deep to measure discharge.
Highline Canal @ Lombardy Rd	535XHCALR	MPM	Irrigation5, Management Plan Monitoring	8/18/2009	18:20	None	August MPM for chlorpyrifos, copper, and *Ceriodaphnia* toxicity; Too deep to measure discharge.
Hilmar Drain @ Central Ave	535XHDACA	MPM	Irrigation1, Management Plan Monitoring	4/21/2009	14:50	None	April MPM for *Selenastrum* toxicity; Discharge not measured due to toxicity monitoring only.
Hilmar Drain @ Central Ave	535XHDACA	MPM	Irrigation6, Management Plan Monitoring	9/22/2009	14:10	None	September MPM for *Selenastrum* toxicity; Discharge not measured due to toxicity monitoring only.
Howard Lateral @ Hwy 140	535XHLAHO	NM	Fall1	10/21/2008	12:12	Dry	
Howard Lateral @ Hwy 140	535XHLAHO	NM	Fall2	11/11/2008	11:59	Dry	
Howard Lateral @ Hwy 140	535XHLAHO	NM	Storm3	12/16/2008	14:56	Dry	
Howard Lateral @ Hwy 140	535XHLAHO	NM	Winter1	1/20/2009	14:44	Dry	
Howard Lateral @ Hwy 140	535XHLAHO	NM	Storm1	2/7/2009	13:40	Dry	
Howard Lateral @ Hwy 140	535XHLAHO	NM	Winter2	3/17/2009	12:00	Dry	

Adminsitrative Record
Page 16458

Station Name	Station Code	Monitoring Event	Season, Group	Sample Date	Sample Time	Failure Reason	Sample Comments
Howard Lateral @ Hwy 140	535XHLAHO	NM, SED	Irrigation1	4/21/2009	14:30	None	Sediment chemistry analyzed for toxic samples only; Discharge recorded as zero due to no measurable flow.
Howard Lateral @ Hwy 140	535XHLAHO	NM	Irrigation2	5/19/2009	14:40	None	Discharge recorded as zero due to no measurable flow.
Howard Lateral @ Hwy 140	535XHLAHO	NM	Irrigation3	6/16/2009	13:30	None	
Howard Lateral @ Hwy 140	535XHLAHO	NM	Irrigation4	7/21/2009	15:30	None	Discharge recorded as zero due to no measurable flow.
Howard Lateral @ Hwy 140	535XHLAHO	NM, SED	Irrigation5	8/18/2009	16:30	None	Sediment chemistry analyzed for toxic samples only.
Howard Lateral @ Hwy 140	535XHLAHO	NM	Irrigation6	9/22/2009	17:00	None	
Howard Lateral @ Hwy 140	535XHLAHO	NM	Fall1	10/20/2009	13:50	None	
Howard Lateral @ Hwy 140	535XHLAHO	NM	Fall2	11/17/2009	12:37	Dry	
Howard Lateral @ Hwy 140	535XHLAHO	NM	Storm2	12/15/2009	15:10	Dry	
Lateral 2 1/2 near Keys Rd	535LTHNKR	NM	Fall1	10/21/2008	10:40	None	Discharge recorded as zero due to flow moving in upstream direction, from west to east.
Lateral 2 1/2 near Keys Rd	535LTHNKR	NM	Fall2	11/11/2008	11:10	None	Too shallow to measure discharge.
Lateral 2 1/2 near Keys Rd	535LTHNKR	NM	Storm3	12/16/2008	10:11	Dry	
Lateral 2 1/2 near Keys Rd	535LTHNKR	NM	Winter1	1/20/2009	09:55	Dry	
Lateral 2 1/2 near Keys Rd	535LTHNKR	NM	Storm1	2/7/2009	12:20	Dry	
Lateral 2 1/2 near Keys Rd	535LTHNKR	NM	Winter2	3/17/2009	12:03	Dry	
Lateral 2 1/2 near Keys Rd	535LTHNKR	NM, SED	Irrigation1	4/21/2009	12:50	None	Sediment chemistry analyzed for toxic samples only.
Lateral 2 1/2 near Keys Rd	535LTHNKR	NM	Irrigation2	5/19/2009	13:00	None	
Lateral 2 1/2 near Keys Rd	535LTHNKR	NM	Irrigation3	6/16/2009	12:20	None	
Lateral 2 1/2 near Keys Rd	535LTHNKR	NM	Irrigation4	7/21/2009	13:30	None	Too shallow to measure discharge.
Lateral 2 1/2 near Keys Rd	535LTHNKR	NM, SED	Irrigation5	8/18/2009	15:10	None	Sediment chemistry analyzed for toxic samples only.
Lateral 2 1/2 near Keys Rd	535LTHNKR	NM	Irrigation6	9/22/2009	12:20	None	Turlock Irrigation District (TID) was cleaning the canal the day of sample collection.
Lateral 2 1/2 near Keys Rd	535LTHNKR	NM	Fall1	10/20/2009	12:40	None	
Lateral 2 1/2 near Keys Rd	535LTHNKR	NM	Fall2	11/17/2009	13:30	Dry	
Lateral 2 1/2 near Keys Rd	535LTHNKR	NM	Storm2	12/15/2009	11:20	Dry	
Merced River @ Santa Fe	535XMRSFD	NM	Fall1	10/21/2008	15:00	None	
Merced River @ Santa Fe	535XMRSFD	NM	Fall2	11/11/2008	13:00	None	

Adminsitrative Record
Page 16459

Station Name	Station Code	Monitoring Event	Season, Group	Sample Date	Sample Time	Failure Reason	Sample Comments
Merced River @ Santa Fe	535XMRSFD	NM	Storm3	12/16/2008	13:00	None	Online discharge information not available from CDEC site for Merced River at Cressy. (CRS) Discharge is an average from CDEC Merced River near Stevinson (MST) downstream and Merced River near Snelling (MSN) upstream.
Merced River @ Santa Fe	535XMRSFD	NM	Winter1	1/20/2009	14:10	None	
Merced River @ Santa Fe	535XMRSFD	NM	Storm1	2/7/2009	14:20	None	
Merced River @ Santa Fe	535XMRSFD	NM	Winter2	3/17/2009	13:20	None	
Merced River @ Santa Fe	535XMRSFD	NM	Irrigation1	4/21/2009	15:50	None	
Merced River @ Santa Fe	535XMRSFD	NM	Irrigation2	5/19/2009	15:30	None	
Merced River @ Santa Fe	535XMRSFD	NM	Irrigation3	6/16/2009	14:40	None	
Merced River @ Santa Fe	535XMRSFD	NM	Irrigation4	7/21/2009	15:40	None	
Merced River @ Santa Fe	535XMRSFD	NM	Irrigation5	8/18/2009	18:00	None	
Merced River @ Santa Fe	535XMRSFD	NM	Irrigation6	9/22/2009	15:10	None	
Merced River @ Santa Fe	535XMRSFD	NM	Fall1	10/20/2009	15:50	None	
Merced River @ Santa Fe	535XMRSFD	NM	Fall2	11/17/2009	14:30	None	
Merced River @ Santa Fe	535XMRSFD	NM	Storm2	12/15/2009	14:40	None	
Miles Creek @ Reilly Rd	535XMCARR	MPM	Irrigation1, Management Plan Monitoring	4/21/2009	11:20	None	April MPM for *Selenastrum* toxicity; Discharge not measured due to toxicity monitoring only.
Miles Creek @ Reilly Rd	535XMCARR	MPM	Irrigation4, Management Plan Monitoring	7/21/2009	14:00	None	July MPM for chlorpyrifos and copper.
Miles Creek @ Reilly Rd	535XMCARR	MPM	Irrigation5, Management Plan Monitoring	8/18/2009	13:20	None	August MPM for chlorpyrifos and copper.
Miles Creek @ Reilly Rd	535XMCARR	MPM	Irrigation6, Management Plan Monitoring	9/22/2009	12:40	None	September MPM for chlorpyrifos.
Mootz Drain @ Langworth Rd	535XMDALR	NM	Fall1	10/21/2008	08:19	Dry	
Mootz Drain @ Langworth Rd	535XMDALR	NM	Fall2, Non Contiguous	11/11/2008	08:30	None	Non contiguous water body, discharge recorded as zero.
Mootz Drain @ Langworth Rd	535XMDALR	NM	Storm3, Non Contiguous	12/16/2008	08:40	None	Non contiguous water body, discharge recorded as zero.
Mootz Drain @ Langworth Rd	535XMDALR	NM	Winter1	1/20/09	08:40	No access	No samples collected; unable to access site due to gate.
Mootz Drain @ Langworth Rd	535XMDALR	NM	Storm1, Non Contiguous	2/7/2009	08:40	None	Non contiguous water body, discharge recorded as zero.

Adminsitrative Record
Page 16460

Station Name	Station Code	Monitoring Event	Season, Group	Sample Date	Sample Time	Failure Reason	Sample Comments
Mootz Drain @ Langworth Rd	535XMDALR	NM	Winter2, Non Contiguous	3/17/2009	08:50	None	Non contiguous water body, discharge recorded as zero.
Mootz Drain @ Langworth Rd	535XMDALR	NM, SED	Irrigation1	4/21/2009	09:00	None	Sediment chemistry analyzed for toxic samples only; Discharge recorded as zero due to no measurable flow.
Mootz Drain @ Langworth Rd	535XMDALR	NM	Irrigation2	5/19/2009	09:00	None	
Mootz Drain @ Langworth Rd	535XMDALR	NM	Irrigation3	6/16/2009	09:20	None	
Mootz Drain @ Langworth Rd	535XMDALR	NM	Irrigation4	7/21/2009	09:00	None	
Mootz Drain @ Langworth Rd	535XMDALR	NM, SED	Irrigation5	8/18/2009	09:30	None	Sediment chemistry analyzed for toxic samples only.
Mootz Drain @ Langworth Rd	535XMDALR	NM	Irrigation6	9/22/2009	09:30	None	
Mootz Drain @ Langworth Rd	535XMDALR	NM	Fall1, Non Contiguous	10/20/2009	09:00	None	Non contiguous water body, discharge recorded as zero.
Mootz Drain @ Langworth Rd	535XMDALR	NM	Fall2, Non Contiguous	11/17/2009	09:30	None	Non contiguous water body, discharge recorded as zero.
Mootz Drain Downstream of Langworth Pond*	535XMDDLP	NM	Storm2	12/15/2009	08:50	None	Discharge recorded as zero due to no measurable flow.
Mustang Creek @ East Ave	535XMCAEA	NM	Fall1	10/21/2008	13:45	Dry	
Mustang Creek @ East Ave	535XMCAEA	NM	Fall2	11/11/2008	13:35	Dry	
Mustang Creek @ East Ave	535XMCAEA	NM	Storm3	12/16/2008	12:17	Dry	
Mustang Creek @ East Ave	535XMCAEA	NM	Winter1	1/20/2009	14:40	Dry	
Mustang Creek @ East Ave	535XMCAEA	NM	Storm1	2/7/2009	15:30	None	Discharge recorded as zero due to no measurable flow.
Mustang Creek @ East Ave	535XMCAEA	NM	Winter2, Non Contiguous	3/17/2009	14:20	None	Non contiguous water body, discharge recorded as zero.
Mustang Creek @ East Ave	535XMCAEA	NM	Irrigation1	4/21/2009	17:00	Dry	Water too shallow to fill bottles, no water samples collected.
Mustang Creek @ East Ave	535XMCAEA	SED	Irrigation1	4/21/2009	17:00	None	Sediment chemistry analyzed for toxic samples only.
Mustang Creek @ East Ave	535XMCAEA	NM	Irrigation2	5/19/2009	16:14	Dry	
Mustang Creek @ East Ave	535XMCAEA	NM	Irrigation3	6/16/2009	14:44	Dry	
Mustang Creek @ East Ave	535XMCAEA	NM	Irrigation4	7/21/2009	16:07	Dry	
Mustang Creek @ East Ave	535XMCAEA	NM, SED	Irrigation5	8/18/2009	18:32	Dry	
Mustang Creek @ East Ave	535XMCAEA	NM	Irrigation6	9/22/2009	15:35	Dry	
Mustang Creek @ East Ave	535XMCAEA	NM	Fall1, Non Contiguous	10/20/2009	15:20	None	Non contiguous water body, discharge recorded as zero.
Mustang Creek @ East Ave	535XMCAEA	NM	Fall2	11/17/2009	13:45	Dry	
Mustang Creek @ East Ave	535XMCAEA	NM	Storm2	12/15/2009	13:30	None	Discharge recorded as zero due to no measurable flow.

Adminsitrative Record
Page 16461

Station Name	Station Code	Monitoring Event	Season, Group	Sample Date	Sample Time	Failure Reason	Sample Comments
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	NM	Fall1	10/21/2008	13:50	None	
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	NM	Fall2	11/11/2008	13:30	None	
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	NM	Storm3	12/16/2008	11:10	None	
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	NM	Winter1	1/20/2009	10:40	None	Confirm all YSI meter #2 readings with YSI meter #1 for field results; Too shallow to take discharge.
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	NM	Storm1	2/7/2009	13:10	None	Sample time incorrectly recorded as 12:10 on all COCs and all sample labels; actual sample time is 13:10; Field results confirmed with second YSI meter.
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	NM	Winter2	3/17/2009	12:40	None	
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	NM, MPM	Irrigation1, Management Plan Monitoring	4/21/2009	14:20	None	April MPM for *Selenastrum* toxicity.
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	NM, MPM	Irrigation2, Management Plan Monitoring	5/19/2009	14:20	None	May MPM for *Selenastrum* toxicity.
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	NM	Irrigation3	6/16/2009	13:40	None	
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	NM	Irrigation4	7/21/2009	14:40	None	
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	NM, MPM	Irrigation5, Management Plan Monitoring	8/18/2009	16:40	None	August MPM for chlorpyrifos.
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	NM	Irrigation6	9/22/2009	13:30	None	
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	NM	Fall1	10/20/2009	14:00	None	
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	NM	Fall2	11/17/2009	14:20	None	Discharge recorded as zero due to no measurable flow.
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	NM	Storm2	12/15/2009	12:00	None	

*Replaced Mootz Drain @ Langworth Rd in December 2009.

MPM-Management Plan Monitoring

NM-Normal Monitoring

SED-Sediment Monitoring Event

COC-Chain of Custody form

Adminsitrative Record
Page 16462

Sampling and Analytical Methods

Sample collection procedures and field instruments are provided in Table 10 and Table 11, respectively. Site-specific discharge methods are provided in Table 12, and analytical methods and reporting limits are provided in Table 13. Beginning with the May 2009 sampling event, the Coalition omitted Total Kjeldahl Nitrogen and orthophosphate from its monitoring program. At the same time, the ESJWQC omitted metals not applied by agriculture (arsenic, cadmium, lead, and molybdenum), sediment bound pesticides (glyphosate, paraquat dichloride), and organochlorine pesticides no longer applied by agriculture (including Group A pesticides) except for once a year during a high Total Suspended Solids (TSS) sampling event.

All methods and reporting limits (RLs) stayed constant throughout the year, with one exception. The RL for trifluralin was decreased from 0.1 µg/L to 0.05 µg/L beginning in July of 2009. All laboratory reports thereafter used the new reporting limit.

Eight constituents used MDL values different than those recorded in the ESJWQC Quality Assurance Project Plan (QAPP); arsenic decreased from 0.01 µg/L to 0.008 µg/L, glyphosate decreased from 4.0 µg/L to 2.8 µg/L (December 2009 sampling only), hardness decreased from 3.0 mg/L to 1.7 mg/L, nitrate + nitrite (as N) decreased from 0.05 mg/L to 0.02 mg/L, paraquat dichloride increased from 0.08 µg/L to 0.21 µg/L , total organic carbon decreased from 0.30 mg/L to 0.10 mg/L , total phosphorus decreased from 0.04 mg/L to 0.01 mg/L , and soluble orthophosphate decreased from 0.01 mg/L to 0.006 mg/L. All field sampling methods were performed as outlined in the standard operating procedures (SOPs) provided in the QAPP. All analytical methods were performed as described in the ESJWQC QAPP. No deviations from these procedures occurred during the monitoring.

Adminsitrative Record
Page 16463

Table 10. Sampling procedures, containers, sample volumes, preservation and storage techniques, and holding times.

Analytical Parameter	Sample Volume[1]	Sample Container	Initial Preservation/Holding Requirements	Holding Time[2]
Physical Parameters[3]				
Total Dissolved Solids	500 mL	1x 2000 mL Polyethylene	Store at 4°C	7 Days
Total Suspended Solids	500 mL			7 Days
Turbidity	150 mL			48 Hours
Nutrients				
Soluble Orthophosphate[4]	1 L	1x 2000 mL Polyethylene	Store at 4°C	48 Hours
TKN[4], Ammonia, Total Phosphorus, Nitrate-Nitrite as N	500 mL	1x 500 mL Polyethylene	Preserve to ≤pH 2 with H_2SO_4, store at 4°C	28 Days
Metals/Trace Elements				
Metals/Trace Elements, Hardness[5]	500 mL	1x 500 mL Polyethylene	Filter as necessary; preserve to ≤pH 2 with HNO_3, store at 4°C	180 Days
Drinking Water				
E. coli (pathogens)	100 mL	1x 100 mL Polyethylene	Store at 4°C	24 Hours
Total Organic Carbon	120 mL	3x 40 mL Amber glass VOA with PTFE-lined cap	Preserve with HCl, store at 4°C	28 Days
Pesticides				
Carbamates	1 L	1 L Amber Glass	Store at 4°C; extract within 7 days	40 Days
Organochlorines[6]	1 L	1 L Amber Glass	Store at 4°C; extract within 7 days	40 Days
Organophosphates	1 L	1 L Amber Glass	Store at 4°C; extract within 7 days	40 Days
Herbicides (general)	1 L	1 L Amber Glass	Store at 4°C; extract within 7 days	40 Days
Herbicides (paraquat dichloride)[6]	1 L	1x 1 L brown Polyethylene	Store at 4°C; extract within 7 days	21 days
Herbicides (glyphosate)[6]	80 mL	2x 40 mL Glass VOA	Store at 4°C; freeze (-20°C) within 2 weeks	6 Months
Water Column Toxicity				
Aquatic Toxicity	5 Gallons	5x 1 Gallon Amber Glass	Store at 4°C	36 Hours
Sediment				
Sediment Toxicity	2 L	2x 1 L Glass	Store at 4°C, do not freeze	14 Days
Sediment Grain Size	250 mL	1x 250 mL Glass	Store at 4°C, do not freeze	28 days
Sediment Total Organic Carbon	250 mL	1x 250 mL Glass	Store at 4°C, freeze (-20°C) within 48 hours	12 Months
Sediment Chemistry	1 L	4x 250 mL Amber Glass	Store at 4°C, freeze (-20°C) within 48 hours	12 Months
Sediment Total Solids	250 mL	1x 250 mL Glass	Store at 4°C	7 Days

[1] Additional volumes may be required for QC analyses.
[2] Holding time after initial preservation or extraction.
[3] Volume of water necessary to analyze the physical parameters is typically combined in multiple 1L polyethylene bottles.
[4] Constituents sampled through April 2009; after this date, no longer sampled.
[5] To include arsenic, boron, cadmium, copper, lead, nickel, molybdenum, selenium, and zinc; arsenic, cadmium, lead, and molybdenum were sampled through April 2009; after this date, only sampled for during storm events.
[6] Constituents sampled through April 2009; after this date, only sampled once per year during a high TSS event.

Adminsitrative Record
Page 16464

Table 11. Field parameters and instruments used to collect measurements.

Parameter	Instrument
Dissolved oxygen	YSI Model 556
Temperature	YSI Model 556
pH	YSI Model 556
Specific Conductance	YSI Model 556
Discharge	Marsh-McBirney Flow Mate 2000

Table 12. Site specific discharge methods.

Site	Discharge Method	Meter/ Gauge
Ash Slough @ Ave 21	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Cottonwood Creek @ Rd 20	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Deadman Creek @ Gurr Rd	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Deadman Creek @ Hwy 59	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Dry Creek @ Oakdale Ave	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Dry Creek @ Waterford Rd	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Dry Creek @ Wellsford Rd	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Duck Slough @ Gurr Rd	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Duck Slough @ Hwy 99	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Highline Canal @ Hwy 99	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Highline Canal @ Lombardy Ave	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Hilmar Drain @ Central Ave	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Howard Lateral @ Hwy 140	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Lateral 2 1/2 near Keyes Rd	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Merced River @ Santa Fe Rd	DWR Gauge	CDEC Merced River at Cressy (CRS)
Miles Creek @ Reilly Rd	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Mootz Drain @ Langworth Rd	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Mootz Drain downstream of Langworth Pond	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Mustang Creek @ East Ave	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000
Prairie Flower Drain @ Crows Landing	USGS R2Cross Streamflow Method	Marsh McBirney Flo-Mate 2000

Adminsitrative Record
Page 16465

Table 13. Field and Laboratory Analytical Methods.

Constituent	Matrix	Analyzing Lab	RL	MDL	Analytical Method
Physical Parameters					
Flow	Fresh Water	Field Measure	1 cfs	NA	USGS R2Cross streamflow Method
pH	Fresh Water	Field Measure	0.1 pH units	NA	EPA 150.1
Electrical Conductivity	Fresh Water	Field Measure	100 µmhos/cm	NA	EPA 120.1
Dissolved oxygen	Fresh Water	Field Measure	0.1 mg/L	NA	SM 4500-O
Temperature	Fresh Water	Field Measure	0.1 °C	NA	SM 2550
Turbidity	Fresh Water	Caltest	0.5 NTU	0.020 NTU	EPA 180.1
Total Dissolved Solids	Fresh Water	Caltest	10 mg/L	4.0 mg/L	SM2540C
Total Suspended Solids	Fresh Water	Caltest	3 mg/L	2.0 mg/L	EPA 160.2
Hardness	Fresh Water	Caltest	10 mg/L	1.7 mg/L	SM2340C
Total Organic Carbon	Fresh Water	Caltest	0.5 mg/L	0.10 mg/L	EPA 415.1
Pathogens					
Escherichia coli	Fresh Water	Caltest	1 MPN/ 100 mL	1.0 MPN/ 100 mL	SM 9223
Toxicity					
Water Column Toxicity	Fresh Water	AQUA-Science	NA	NA	EPA 821-R-02-012
	Fresh Water	AQUA-Science	NA	NA	EPA 821-R-02-013
Sediment Toxicity	Sediment	AQUA-Science	NA	NA	EPA 600/R-99-064
Carbamates					
Aldicarb	Fresh Water	APPL Inc	0.4 µg/L	0.20 µg/L	EPA 8321A
Carbaryl	Fresh Water	APPL Inc	0.07 µg/L	0.050 µg/L	EPA 8321A
Carbofuran	Fresh Water	APPL Inc	0.07 µg/L	0.050 µg/L	EPA 8321A
Methiocarb	Fresh Water	APPL Inc	0.4 µg/L	0.20 µg/L	EPA 8321A
Methomyl	Fresh Water	APPL Inc	0.07 µg/L	0.050 µg/L	EPA 8321A
Oxamyl	Fresh Water	APPL Inc	0.4 µg/L	0.20 µg/L	EPA 8321A
Organochlorines					
DDD[1]	Fresh Water	APPL Inc	0.01 µg/L	0.003 µg/L	EPA 8081A
DDE[1]	Fresh Water	APPL Inc	0.01 µg/L	0.004 µg/L	EPA 8081A

Adminsitrative Record
Page 16466

Constituent	Matrix	Analyzing Lab	RL	MDL	Analytical Method
DDT[1]	Fresh Water	APPL Inc	0.01 µg/L	0.007 µg/L	EPA 8081A
Dicofol[1]	Fresh Water	APPL Inc	0.1 µg/L	0.01 µg/L	EPA 8081A
Dieldrin[1]	Fresh Water	APPL Inc	0.01 µg/L	0.005 µg/L	EPA 8081A
Endrin[1]	Fresh Water	APPL Inc	0.01 µg/L	0.007 µg/L	EPA 8081A
Methoxychlor[1]	Fresh Water	APPL Inc	0.01 µg/L	0.008 µg/L	EPA 8081A
Group A Pesticides					
Aldrin[1]	Fresh Water	APPL Inc	0.01 µg/L	0.009 µg/L	EPA 8081A
Chlordane[1]	Fresh Water	APPL Inc	0.01 µg/L	0.007 µg/L	EPA 8081A
Heptachlor[1]	Fresh Water	APPL Inc	0.01 µg/L	0.008 µg/L	EPA 8081A
Heptachlor epoxide[1]	Fresh Water	APPL Inc	0.01 µg/L	0.007 µg/L	EPA 8081A
Hexachlorocyclohexane (alpha-BHC)	Fresh Water	APPL Inc	0.01 µg/L	0.005 µg/L	EPA 8081A
Hexachlorocyclohexane (beta-BHC)[1]	Fresh Water	APPL Inc	0.01 µg/L	0.008 µg/L	EPA 8081A
Hexachlorocyclohexane (gamma-BHC; Lindane)[1]	Fresh Water	APPL Inc	0.01 µg/L	0.005 µg/L	EPA 8081A
Hexachlorocyclohexane (delta-BHC)[1]	Fresh Water	APPL Inc	0.01 µg/L	0.005 µg/L	EPA 8081A
Endosulfan I[1]	Fresh Water	APPL Inc	0.01 µg/L	0.005 µg/L	EPA 8081A
Endosulfan II[1]	Fresh Water	APPL Inc	0.01 µg/L	0.004 µg/L	EPA 8081A
Toxaphene[1]	Fresh Water	APPL Inc	0.5 µg/L	0.380 µg/L	EPA 8081A
Organophosphates					
Azinphos-methyl	Fresh Water	APPL Inc	0.1 µg/L	0.02 µg/L	EPA 8141A
Chlorpyrifos	Fresh Water	APPL Inc	0.015 µg/L	0.0026 µg/L	EPA 8141A
Diazinon	Fresh Water	APPL Inc	0.02 µg/L	0.004 µg/L	EPA 8141A
Dichlorvos	Fresh Water	APPL Inc	0.1 µg/L	0.02 µg/L	EPA 8141A
Dimethoate	Fresh Water	APPL Inc	0.1 µg/L	0.08 µg/L	EPA 8141A
Dimeton-s	Fresh Water	APPL Inc	0.1 µg/L	0.01 µg/L	EPA 8141A

Constituent	Matrix	Analyzing Lab	RL	MDL	Analytical Method
Disulfoton	Fresh Water	APPL Inc	0.05 µg/L	0.02 µg/L	EPA 8141A
Malathion	Fresh Water	APPL Inc	0.1 µg/L	0.05 µg/L	EPA 8141A
Methamidiphos	Fresh Water	APPL Inc	0.2 µg/L	0.08 µg/L	EPA 8141A
Methidathion	Fresh Water	APPL Inc	0.1 µg/L	0.04 µg/L	EPA 8141A
Parathion, methyl	Fresh Water	APPL Inc	0.1 µg/L	0.075 µg/L	EPA 8141A
Phorate	Fresh Water	APPL Inc	0.1 µg/L	0.07 µg/L	EPA 8141A
Phosmet	Fresh Water	APPL Inc	0.2 µg/L	0.06 µg/L	EPA 8141A
Herbicides					
Atrazine	Fresh Water	APPL Inc	0.5 µg/L	0.07 µg/L	EPA 619
Cyanazine	Fresh Water	APPL Inc	0.5 µg/L	0.09 µg/L	EPA 619
Diuron	Fresh Water	APPL Inc	0.4 µg/L	0.2 µg/L	EPA 8321A
Glyphosate[1]	Fresh Water	NCL Ltd	5 µg/L	2.8 µg/L[2]	EPA 547M
Linuron	Fresh Water	APPL Inc	0.4 µg/L	0.2 µg/L	EPA 8321A
Paraquat dichloride[1]	Fresh Water	APPL Inc	0.5 µg/L	0.21 µg/L	EPA 549.2M
Simazine	Fresh Water	APPL Inc	0.5 µg/L	0.08 µg/L	EPA 619
Trifluralin	Fresh Water	APPL Inc	0.05 µg/L[3]	0.036 µg/L	EPA 8141A
Metals					
Arsenic[1]	Fresh Water	Caltest	0.5 µg/L	0.008 µg/L	EPA 200.8 (ICPMS Collision Cell)
Boron	Fresh Water	Caltest	10 µg/L	0.47 µg/L	EPA 200.8 (ICPMS Collision Cell)
Cadmium[1]	Fresh Water	Caltest	0.1 µg/L	0.01 µg/L	EPA 200.8 (ICPMS Collision Cell)
Copper	Fresh Water	Caltest	0.5 µg/L	0.06 µg/L	EPA 200.8 (ICPMS Collision Cell)
Lead[1]	Fresh Water	Caltest	0.25 µg/L	0.07 µg/L	EPA 200.8 (ICPMS Collision Cell)
Molybdenum[1]	Fresh Water	Caltest	0.3 µg/L	0.02 µg/L	EPA 200.8 (ICPMS Collision Cell)
Nickel	Fresh Water	Caltest	0.5 µg/L	0.01 µg/L	EPA 200.8 (ICPMS Collision Cell)
Selenium	Fresh Water	Caltest	1 µg/L	0.06 µg/L	EPA 200.8 (ICPMS Reaction Cell)
Zinc	Fresh Water	Caltest	1 µg/L	0.8 µg/L	EPA 200.8 (ICPMS Collision Cell)
Nutrients					

Adminsitrative Record
Page 16468

Constituent	Matrix	Analyzing Lab	RL	MDL	Analytical Method
Total Kjeldahl Nitrogen[4]	Fresh Water	Caltest	0.5 mg/L	0.06 mg/L	EPA 351.3
Nitrate (as N)+ Nitrite (as N)	Fresh Water	Caltest	0.05 mg/L	0.02 mg/L	EPA 353.2
Total Ammonia	Fresh Water	Caltest	0.1 mg/L	0.040 mg/L	EPA 350.2
Total Phosphorus	Fresh Water	Caltest	0.01 mg/L	0.01 mg/L	EPA 365.2
Soluble Orthophosphate[4]	Fresh Water	Caltest	0.01 mg/L	0.006 mg/L	EPA 365.2
Sediment					
Bifenthrin	Sediment	Caltest	0.0003 mg/kg	0.0003 mg/kg	EPA 8270 (GCMS/SIM)
Cyfluthrin	Sediment	Caltest	0.0003 mg/kg	0.0002 mg/kg	EPA 8270 (GCMS/SIM)
Cypermethrin	Sediment	Caltest	0.0003 mg/kg	0.0002 mg/kg	EPA 8270 (GCMS/SIM)
Esfenvalerate	Sediment	Caltest	0.0003 mg/kg	0.0002 mg/kg	EPA 8270 (GCMS/SIM)
Lambda-Cyhalothrin	Sediment	Caltest	0.0003 mg/kg	0.0003 mg/kg	EPA 8270 (GCMS/SIM)
Permethrin	Sediment	Caltest	0.0003 mg/kg	0.0002 mg/kg	EPA 8270 (GCMS/SIM)
Fenpropathrin	Sediment	Caltest	0.0003 mg/kg	0.0002 mg/kg	EPA 8270 (GCMS/SIM)
Chlorpyrifos	Sediment	Caltest	0.003 mg/kg	0.002 mg/kg	EPA 8270 (GCMS/SIM)
Total Solids	Sediment	Caltest	0.10%	0.10%	SM2540B
Total Organic Carbon	Sediment	Caltest[5]	200 mg/kg	100 mg/kg	Walkley Black
Grain Size	Sediment	Caltest[5]	1% sand, silt, clay, gravel	0.4 µm	ASTM D-422-63, ASTM D4464M-85

[1]Constituents sampled through April 2009; after this date, only sampled once per year during a high TSS event.

[2]MDL reported as 4.0 µg/L through April 2009.

[3]RL reported as 0.1 µg/L until through June 2009.

[4]Constituents sampled through April 2009; after this date, no longer sampled.

[5] Subcontracted to PTS Laboratories.

CFS-Cubic Feet per Second

Adminsitrative Record
Page 16469

Precision, Accuracy and Completeness

Normal surface water monitoring occurred fifteen times from October 2008 through December 2009 for 13 sites with the following exceptions due to:

- Ash Slough @ Ave 21
  - Dry all sampling events except 5/19/09
- Cottonwood Creek @ Rd 20
  - Dry: 10/21/08, 11/11/08, 12/16/08, 1/20/09, 3/17/09, 4/21/09, 7/21/09, 9/22/09
- Duck Slough @ Gurr Rd
  - Dry: 10/21/08, 11/11/08
- Highline Canal @ Hwy 99
  - Dry: 11/11/08, 12/16/08, 1/20/09, 3/17/09, 11/17/09
  - Stagnant: 10/21/08*
- Howard Lateral @ Hwy 140
  - Dry: 10/21/08, 11/11/08, 12/16/08, 1/20/09, 2/7/09, 3/17/09, 11/17/09, 12/15/09
- Lateral 2 ½ near Keys Rd
  - Dry: 12/16/08, 1/20/09, 2/7/09, 3/17/09, 11/17/09, 12/15/09
- Mootz Drain @ Langworth Rd
  - Dry: 10/21/08
  - No access: 1/20/09
- Mustang Creek @ East Ave
  - Dry: 10/21/08, 11/11/08, 12/16/08, 1/20/09, 4/21/09, 5/19/09, 6/16/09, 7/21/09, 8/18/09, 9/22/09, 11/17/09

*The Coalition did not sample this non contiguous water body in October 2008 due to a miscommunication with field crews; starting in November 2008 all water bodies including those that were non-contiguous, stagnant and puddle-like were sampled.

Mootz Drain @ Langworth Rd was replaced by Mootz Drain Downstream of Langworth Pond in December 2009. The ESJWQC also dropped the following constituents from its monitoring program: metals not applied by agriculture (arsenic, cadmium, lead and molybdenum), sediment bound pesticides (glyphosate, paraquat dichloride), organochlorine pesticides no longer applied by agriculture (including Group A pesticides) along with a subset of nutrients (Total Kjeldahl Nitrogen and orthophosphate) in May 2009. These constituents will be sampled once a year during events with high total suspended solids. All updates to the monitoring schedule are included in the ESJWQC MRPP (amended on May 15, 2009) and are referenced in the Monitoring Objectives and Design section of this report.

Adminsitrative Record
Page 16470

Sediment sampling occurred twice during the irrigation season, once on April 21, 2009 and again on August 18, 2009. Sediment from the following sites was not submitted due to the sites being dry:

- Ash Slough @ Ave 21
  - Dry: 4/21/09, 8/18/09
- Cottonwood Creek @ Rd 20
  - Dry: 4/21/09
- Mustang Creek @ East Ave
  - Dry: 8/18/09

During the 2009 irrigation and fall seasons, 10 Management Plan Monitoring sites were sampled in addition to the normal monitoring sites as scheduled in the ESJWQC Management Plan Update Report (submitted April 1, 2009). See Table 6 in the Monitoring Objectives and Design section for a list of all Management Plan sites. The following Management Plan sites were not sampled due to a lack of water:

- Deadman Creek @ Hwy 59
  - Dry: 4/21/08, 8/18/09, 9/22/09
- Dry Creek @ Oakdale Rd
  - Dry: 11/17/09, 12/15/09

As required in the document "Irrigated Lands Regulatory Program General Procedures Sample Collection for Low Flow or No-Flow Conditions" the Coalition sampled both sediment and water under both no flow and low flow conditions. If a site had no flow, discharge was recorded as zero. If a water body had "puddle like conditions" the entire sample was flagged as "non contiguous". All results including field parameters, chemistry and toxicity are therefore associated with the non contiguous flag and any water quality exceedances should be evaluated relative to the fact that the water was neither flowing nor connected to a downstream water body. The exception to this was for sampling that occurred in October 2008 at Highline Canal @ Hwy 99. Due to miscommunication with field staff, this location was not in sampled in October 2008 due to puddle-like conditions.

From October 2008 through December 2009 the following sites were sampled when water was non contiguous:

- Ash Slough @ Ave 21
  - 5/19/06
- Cottonwood Creek @ Rd 20
  - 2/7/09
- Deadman Creek @ Gurr Rd
  - 11/17/09, 12/15/09
- Duck Slough @ Gurr Rd

Adminsitrative Record
Page 16471

- 3/17/09, 11/17/09
- Highline Canal @ Hwy 99
  - 12/15/09
- Mootz Drain @ Langworth Rd
  - 11/11/08, 12/16/08, 2/7/09, 3/17/09, 10/20/09, 11/17/09
- Mustang Creek @ East Ave
  - 3/17/09, 10/20/09

Chemistry

All results are tabulated in the Monitoring Results section of this report (Appendix II). Each result is flagged if it does not meet data quality objectives (acceptability criteria) using Surface Water Ambient Monitoring Program (SWAMP) codes and can also be found in the SWAMP comparable database managed by the Coalition. The Coalition works with the University of California, Davis Regional Data Center (UCD RDC) to ensure that all data remain SWAMP comparable and that all data are suitable to be uploaded to the California Environmental Data Exchange Network (CEDEN). A copy of the database has been submitted to the Regional Board with the hardcopy of this report.

For some constituents the concentration of a constituent in the environmental sample may exceed the amount that the detector can detect and therefore requires a dilution. The result reported is the amount found in the diluted sample multiplied by the dilution factor to represent the amount of the analyte present in the original sample. The dilution factor is recorded and the reporting limit (RL) is generally increased by multiplying the RL for that analyte by the dilution factor. Therefore, for each dilution that occurs, there is a corresponding increase in the limit of quantification.

Chemistry Completeness

The constituents sampled from October 2008 through December 2009 are listed by site in Tables 6 and 7. For normal and Management Plan Monitoring, not including laboratory or field quality control (QC) samples, 49-56 carbamate, 28 organochlorine, 21-54 herbicide, 62-79 organophosphate, 17 Group A pesticides, 123 *E. coli*, 47-123 physical parameters, 37-123 nutrient and 33-77 dissolved and total metal samples were collected and analyzed from October 2008 – December 2009 (Table 14). There was 100% completeness for environmental samples collected for chemistry analyses.

For each sampling event, a field duplicate and field blank were collected. In addition, an equipment blank and travel blank were analyzed for dissolved metals and total metals respectively. Field blanks and field duplicates each comprised 13.7-21.5% of organic samples, 9.8% of *E. coli* samples, 9.8-14.5% of physical parameter samples, 9.8-11.5% of nutrient samples, 12.3-14% of dissolved and 12.4-14.3% total metal samples. Equipment blanks

comprised 12.3-14% of dissolved metal samples. Travel blanks comprised 11.5-13.1% of total metal samples (Table 14).

Batch Completeness

All chemistry batches were reviewed for quality assurance/control completeness. Eight batches this sampling period were flagged as having incomplete quality control (QC).

Six organochlorine batches from October 2008 – March 2009 were run without toxaphene LCS, MS and MSDs due to laboratory error.

In July 2009 the sample bottle collected for carbamate analysis from Duck Slough @ Gurr Rd was broken by the lab. The lab was able to re-extract the sample within hold time but there was insufficient volume left to perform the MS and MSD. An LCS and LCDs were run with the batch meeting precision and accuracy requirements; however, since the batch was missing a matrix spike it was flagged as having incomplete QC.

In December 2009, an ammonia batch was run without a MSD due to instrument failure.

Hold Time Compliance

Hold times for all chemistry analysis were met, except for two orthophosphate samples in January 2009 and a TSS field blank sample in October 2009. Overall hold time compliance for all analytes was 99.95%.

The orthophosphate samples from Prairie Flower Drain and Dry Creek @ Wellsford were analyzed 26 hours past the 48 hour hold time due to miscommunication between the analytical laboratories receiving department and wet chemistry department.

The October 2009 TSS field blank was re-analyzed three weeks past the hold time due to an error by the laboratory during the original analyses. To determine if the hold time affected the results, two other samples with original detections were run along with the field blank. The re-analyzed TSS field blank sample was non-detect while the other two samples yielded similar results indicating that the exceeded hold time did not affect the results.

Chemistry Precision and Accuracy

A review of the number of samples analyzed and the percentage per analyte that meets acceptability criteria are listed in the tables following this section. A brief overview is provided below to assess overall precision and accuracy per analyte (all pesticides and metals are grouped and discussed together). Overall, precision and accuracy criteria were met for more than 90% of the samples for all analytes and all criteria.

Ammonia as N: Unionized ammonia values determined using the fraction of unionized ammonia in the total ammonia result based on field temperature and pH. Unionized ammonia values were calculated with the following formula:

$$\text{Ammonia as N, unionized} = \text{Ammonia as N, total} * f$$

Where:

f = unionized ammonia fraction of total ammonia
$= 1/(10(pK_a\text{-}pH)+ 1$
pK_a = the temperature related equilibrium constant
$= 0.0901821 + (2729.92/T_k)$
T_k = temperature in degrees Kelvin
= field temperature (°C) +273.2
pH = field pH

- Ammonia and calculated unionized ammonia results can be found in Table 4 in Appendix II and Table 7 in Appendix III.
  One hundred percent of field blanks met acceptability criteria. Seventy-three percent of field duplicates had relative percent differences (RPDs) below 25% (11 of 15). One hundred percent of laboratory blanks and LCSs met acceptability criteria. MS and MSDs were run with each batch and 100% met acceptability criteria.

  E. coli: Sterility checks of laboratory blanks, negative control and positive control samples were run for each batch. One hundred percent of laboratory blanks met acceptability criteria. One hundred percent of field blanks collected had *E. coli* counts less than the reporting limit of 1. Due to the nature of the analysis method and *E. coli* distribution within the water column, precision of *E. coli* analysis is conducted by evaluating R_{log} values of environmental and duplicate samples with the R_{log} criterion developed by the laboratory using similar samples. The mean R_{log} for the laboratory was calculated to be 0.40. This value multiplied by 3.27 resulted in a precision criterion of 1.30. All laboratory duplicates had R_{logs} below the criteria acceptance level.

  Hardness: From October 2008 – May 2009 hardness was analyzed from unfiltered samples. Hardness is used to determine the bioavailable fraction of the dissolved metals detected in a sample. Therefore, starting in June 2009 the Coalition instructed the laboratory to analyze the hardness from the samples filtered for dissolved metals analysis. In addition, the analytical laboratory conducted a brief analysis and it was determined that there is little to no difference between the hardness analyzed in the unfiltered sample versus the hardness analyzed in the filtered sample. This study was done on several Coalition samples to ensure that the hardness analysis performed prior to June 2009 accurately reflects the hardness in the associated filtered sample. For this report hardness is reported with a fraction of "none" analysis performed on unfiltered

Adminsitrative Record
Page 16474

samples (October 2008 through May 2009) and with a fraction of "dissolved" for analysis performed on filtered samples (June 2009 through December 2009).

One hundred percent of hardness field blanks were below the reporting limit. Seventy-five percent of hardness field duplicates (6 of 8) met acceptability criteria. All laboratory blanks and LCSs met laboratory QC criteria. Seventy-nine percent of MS met the acceptability criteria (19 of 24). Five MS, four of them non project samples, recovered below the acceptability criteria due to possible matrix interferences in the QC samples. Batch QC data based on LCS and RPD data. In addition, one of the non project MS/MSD pairs outside of control limits were analyzed for total hardness instead of dissolved. One hundred percent of MSDs met acceptability criteria.

One hundred percent of dissolved hardness field blanks met acceptability criteria. Seventy-one percent of field duplicates had RPDs less than 25%. Lab blanks and LCSs met acceptability criteria in 100% of the dissolved hardness samples. Seventy-nine percent of dissolved hardness MS met the acceptability criteria (PR 80-120). All five MS (from three batches) that did not meet the acceptance criteria were due to possible matrix interferences. One of the low recovery pairs were non project samples. Batch QC data were accepted based on LCS and RPD results. MSDs met the acceptability criteria for precision, RPD < 25%, in 100% of the dissolved hardness samples analyzed.

Inorganic sediment (grain size and TOC): Sediment grain size and total organic carbon were analyzed for both sets of sediment samples collected during the October 2008 – December 2009 sampling period (April 21 and August 18, 2009).

The Coalition QAPP lists the acceptable limit criterion for grain size duplicates as RSD ≤ 20% where RSD is the relative standard deviation. The RSD is traditionally defined as the standard deviation divided by the mean (equivalent to the Coefficient of Variation). The Coalition discussed with the sediment laboratory possible methods for evaluating sediment grain size precision, and it was agreed that evaluating the relative percent difference between grain size standard deviations of the environmental sample and the duplicate sample is the most suitable and accurate method for determining precision. Currently there is no standard method for evaluating grain size precision. Due to the nature of sediment and grain size analysis, results should be evaluated with the understanding that samples are not homogenous in grain size due to 1) settling of sediment within the sample container (affects laboratory duplicate precision) and 2) heterogeneity of the sediment in the field (affects field duplicate precision).

Individual grain size classes are reported as a percentage based on the composition of the entire sample and therefore are not values that can be evaluated individually (they are not independent from other percentages in the sample). Therefore it is more

accurate to assess precision of the entire sample rather than each grain size class for both field and laboratory duplicates. The grain size standard deviation (SD) for all classes of a single sample was calculated using the following Folk and Ward (1957) Logarithmic equation:

$$SD = \sigma 1 = \frac{\Phi_{84} - \Phi_{16}}{4} + \frac{\Phi_{95} - \Phi_{5}}{6.6}$$

Where Φ_{84} = phi value of the 84th percentile sediment grain size category
Φ_{16} = phi value of the 16th percentile sediment grain size category
Φ_{95} = phi value of the 95th percentile sediment grain size category
Φ_{5} = phi value of the 5th percentile sediment grain size category

Precision was calculated based on the relative percent difference between the standard deviation of the environmental sample and the standard deviation of a duplicate sample using the following formula:

$$RPD_{SD} = \left| \frac{2(SD_i - SD_D)}{(SD_i + SD_D)} \right|$$

SD_i= standard deviation of the initial or environmental sample based on the Folk and War Logarithmic equation
SD_D= standard deviation of the field or laboratory duplicate sample based on the Folk and War Logarithmic equation

The criterion used in this report to assess precision for sediment grain size and sediment total organic carbon is RPDSD ≤20%. The field duplicate RPD_{SD} were less than 20% (Table 27). One of the two laboratory duplicate RPD_{SD} was greater than 20% (RPD_{SD} = 21%) with the largest difference in standard deviations between the laboratory duplicate and the environmental sample occurring in the 95th percentile phi class. Based on the overall sample composition, all analysis conducted for grain size are considered accurate.

One hundred percent of the sediment Total Organic Carbon (TOC) lab blank samples had results less than the RL. Fifty percent (1 of 2) of the field duplicate samples and 100% of the lab duplicate samples were within acceptability criteria (RSD <20). Both TOC certified reference materials were within acceptability criteria (PR 21-199).

Metals (dissolved): Dissolved cadmium and lead were dropped from the ESJWQC constituent sampling list in May 2009.

One hundred percent of dissolved metal field blanks met field precision criteria except for one dissolved zinc sample in June 2009 (field blank result = 1.1 µg/L, environmental result = 2.2 µg/L). The associated equipment blank (used to assess contamination of the filtering equipment) had no detectable amounts of dissolved zinc, but there were dissolved zinc exceedances in three of the environmental samples in the batch. Contamination in the field may be due to contamination of the field blank water, the field blank storage container, the field blank bottle, or contamination from the sampler. All sampling SOPs (which include the steps to prevent contamination presented in the

Adminsitrative Record
Page 16476

total metals analysis section above) were followed. Other sources of contamination may have occurred during transport from the field to the laboratory (all bottles were closed tightly and only touched when being put in the cooler by the sampler and taken from the cooler by the laboratory with gloved hands) and/or during the laboratory extraction process.

Equipment blanks were analyzed starting in October 2008 with all dissolved metal batches and 100% of dissolved metals met acceptability criteria for at least 90% of samples. Laboratory blanks were run with each metals batch and 100% met acceptability criteria.

All dissolved metal field duplicate samples met acceptability criteria except for lead (87.5%) and zinc (86.6%). The lead field duplicate and associated environmental samples were both below the reporting limit. The total metal field duplicate and environmental sample collected at the same time had an RPD greater than 25 and is most likely due to heterogeneity within the water column where the samples were collected (there was no flow at this location).

The field duplicate RPDs outside the acceptance limits for dissolved zinc were 44.1% (September 2009) and 33.3% (October 2009); the results for the field duplicates and associated environmental samples were above the RL of 1 µg/L and both pairs of samples were collected from the same location. The zinc field duplicate collected in October 2009 was collected from a non contiguous water body; it is possible that the differences in the environmental and field duplicate were due to heterogeneity within the water column. Overall, field duplicate precision for all dissolved metals was 95%.

LCSs were within acceptable recovery limits for 100% of dissolved metals. At least 90% of all dissolved metal MS and MSDs met acceptance criteria for accuracy and precision.

Metals (total): Arsenic, cadmium, lead and molybdenum were dropped from the ESJWQC constituent sampling list in May 2009.

One hundred percent of field and travel blanks for total metals met acceptability criteria. Laboratory blanks were run with each total metals batch and 100% met acceptability criteria.

All field duplicates, except for total lead and total cadmium, met acceptability criteria (RPDs < 25%) for at least 90% of samples. The RPDs outside the acceptance limits for lead were 127.3% and 31.2% and each field duplicate and associated environmental sample pair was above the RL of 0.25 µg/L. The one cadmium RPD outside of acceptance limits was 50%. The concentration of the environmental sample was equal to the RL (0.1 µg/L) and the field duplicate was less than the RL at 0.06 µg/L. It is most

likely that the high RPD for the cadmium duplicate was due to the environmental and field duplicate results being equal to or below the RL. The sample site associated with the high RPDs was characterized by a mud substrate, murky, brown water and no flow. All field SOPs were followed including collecting the environmental and field duplicate samples at the same time next one another in the water column. A water body that is not well mixed across the width of the channel can result in unequal concentrations of metals and pesticides. As the analyses involve total metals (no filtration in the field), elevated amounts of suspended sediment in the sample could account for the differences between the lead and cadmium environmental and field duplicate samples.

LCSs were within acceptable recovery limits for 100% of samples run. MS recoveries were within control limits for 98% of all total metals samples analyzed. All total metals had over 90% of MSDs samples meet the acceptability criteria for precision (RPD < 25%).

Nitrate + Nitrite as N: Eighty percent (12 of 15) of field blanks met acceptability criteria. All field blanks not meeting acceptability criteria had associated environmental samples with results above the RL (0.05 µg/L). Forty percent of field duplicates had RPDs below 25%. Of the nine instances of high RPDs, all of the field duplicate and associated environmental results were no more than 0.17 µg/L above the RL and four of the instances involved undiluted field duplicate results being compared to diluted environmental results. Laboratory blanks and LCSs were run with each batch and 100% of the samples met acceptance criteria. Eighty-five percent of MS were within the acceptability criteria due to possible matrix interference in the QC samples (29 of 34). All MS were recovered below the quality control limit of 110%, but all LCSs were within range. One hundred percent of MSDs met the acceptability requirement for precision.

Nitrogen, Total Kjeldahl (TKN): Total Kjeldahl Nitrogen was dropped from the ESJWQC constituent sampling list in May 2009. From October 2008 – April 2009, 100% of field blanks met acceptance criteria. Eighty-five percent of field duplicates had RPDs below 25% (6 of 7). The TKN RPD result above the limit was 58% (environmental sample = 14 mg/L, field duplicate = 7.7mg/L). Lab blanks were run with every batch and 100% were less than the minimum detection limit. Laboratory control spikes were within acceptance criteria for all batches. Matrix spikes were performed in each batch with 95% meeting acceptability requirements (19 of 20). The single matrix spike below control limits was due to possible matrix interferences in the QC sample. One hundred percent of matrix spike duplicates met the requirements for precision.

Orthophosphate as P: Orthophosphate was dropped from ESJWQC constituent sampling in May 2009. From October 2008 – April 2009 one hundred percent of field blanks and field duplicates collected met acceptance criteria. Lab blanks were run with every batch and 100% were less than the RL. LCSs were within acceptability criteria for

Adminsitrative Record
Page 16478

all batches. MS were performed in each batch with 100% meeting acceptability criteria and 100% of MSDs meeting the requirements of accuracy and precision.

Pesticides: From October 2008 – April 2009 pesticides were analyzed in eight different groups: organochlorines (EPA 8081A), Group A pesticides (EPA 8081A), organophosphates (EPA 8141A), carbamates (EPA 8321A), methamidophos (EPA 8141A), paraquat (EPA 549.2), glyphosate (EPA 547M) and triazines (EPA 619). Starting in May 2009 – December 2009 four groups of pesticides were dropped from the ESJWQC constituent sampling list (organochlorines, Group A pesticides, glyphosate and paraquat) and are only scheduled to be analyzed for during a high total suspended solids event. Field blanks were run with each batch and 100% met acceptability criteria. One hundred percent of field duplicates met acceptability criteria for at least 90% of the samples analyzed. Lab blanks were run with each batch and 100% of the samples met acceptability criteria.

Surrogates were run for each applicable pesticide analysis (surrogates are not performed for glyphosate and paraquat analysis). Surrogate recoveries were within specific acceptance criteria for 98.2% of all samples analyzed. All batches with laboratory QC analyses outside of acceptability criteria have been flagged in addition to the specific sample acceptability criteria. When a surrogate is recovered outside of the acceptability criteria, the associated environmental sample is flagged as well. Batches are approved by evaluating all measures of precision and accuracy such that although a single quality control sample may be outside of acceptability criteria, the entire batch may be accepted due to the other quality control samples within that batch meeting acceptability criteria.

MS and LCSs were performed for each batch to assess accuracy as well as possible matrix interference. Either a MSD and/or a LCSD were performed per batch to assess precision. Ninety-six percent of MS samples run were within acceptability criteria. The individual pesticides with less than 90% of samples within acceptable recoveries for matrix spikes include HCH (68.7%), demeton (83.3%), disulfoton (83.3%) and phosmet (80%). Four MS/MSD were above control limits for HCH, while only one MS was below the control results. All associated environmental samples were non-detect, except for one sample in one batch (0.051 µg/L, RL = 0.01 µg/L), and in two of the three batches with high HCH, the LCS recovery was above control limits as well. All of the batches containing a demeton MS/MSD above the acceptability criteria had LCS samples within acceptability range and non-detect environmental sample results. Three of the five disulfoton MS/MSDs not meeting acceptability criteria were above the percent recovery range (47-117) and one MS/MSD pair was below the recovery range. In all cases, the laboratory control spikes were within the acceptable criteria and all other environmental samples in the batches were non detect. Three phosmet MS/MSD pairs

(from three batches) were recovered below the acceptability criteria (PR 50-150). Two of the batches had LCS samples within the acceptability criteria and all environmental samples were non-detect. In the last phosmet batch the LCS was also recovered below acceptability criteria due to problems with the laboratory's vendor-supplied calibration standard. The samples were not re-analyzed since the problem was not recognized until after hold times had expired for the samples. Once the issue was identified, the laboratory contacted the vendor and a new calibration standard was prepared and shipped.

Laboratory precision assessed by the RPD of laboratory duplicates, met acceptability criteria in 95.1% of matrix spike duplicates. The individual pesticides with less than 90% of samples within acceptable recoveries for matrix spike duplicates include carbofuran, methomyl and disulfoton with 86.6% (13 of 15), DDE, DDT, dieldrin, methoxychlor, chlordane, heptachlor, and endosulfan I with 87.5% (7 of 8), and aldrin with 75% (6 of 8). All three batches containing the carbofuran and methomyl high RPDs had MS, MSDs and LCSs within acceptability criteria and no environmental sample detections. Disulfoton had RPDs above 25% in two batches. In one of the batches the MS/MSD pair exceeded recovery limits, and in the other the MS/MSD pair was below recovery limits, but in both cases the LCS was within acceptability criteria and all environmental samples were non detect. Aldrin, chlordane, DDE, DDT, dieldrin, endosulfan I, heptachlor and methoxychlor all had RPDs above acceptability criteria in the same February 2009 batch. All other quality control measures in the batch met acceptance criteria and all environmental samples were non detect. Aldrin also had a duplicate RPD above the 25% acceptability criteria (26.7%) in a December 2009 batch. All environmental sample results were non detect and the MS, MSD, and LCSD all met acceptability criteria.

LCSs were within acceptability criteria for 98.6% of samples analyzed. The LCS did not meet acceptability criteria in at least 90% of HCH (4 of 8) and phosmet (14 of 16) samples. All four HCH LCS samples were recovered above the acceptability criteria (PR 12-97). In three of the four cases a MS and/or MSD in the batch was also recovered above acceptance limits, and in one batch a single environmental result was above the RL (0.01 µg/L) at 0.051µg/L. Both phosmet LCS were recovered below the acceptance criteria. The associated MS/MSD in one batch met acceptance criteria, but were recovered below the acceptance criteria in the second batch due the vendor calibration standard issues noted in the above paragraph. The low LCS recoveries can be attributed to the incorrect calibration standards for the single batch of samples. The samples associated with this set of calibration standards all had no detectable amount of phosmet (six environmental samples).

The Coalition supplies the laboratory with sufficient sample water to perform MS/MSDs for every 20 samples. Therefore, the laboratory will only perform a laboratory duplicate

in a batch where there is no MSD. A carbamates batch in October 2008 was run with a laboratory control spike duplicate for quality assurance purposes even though MS and MSDs were run. Aldicarb and oxamyl had LCSDs above the 25% limit, at 26.4% and 35.5% respectively and all other acceptance limits were met for the LCS. The aldicarb MSD exceeded the acceptance range in the batch, and all MS/MSD in the batch were re-analyzed with similar results.

Phosphate as P: Field blanks met acceptance criteria in 93.3% of the samples collected (14 of 15). The single field blank result above the reporting limit of 0.01 mg/L was 0.058 mg/L and its associated environmental sample result equaled 0.27 mg/L. All other environmental samples in the batch also had results above the RL. Eighty-seven percent of field duplicates had RPDs less than 25%. Laboratory blanks and LCSs were within acceptability criteria for all batches. Eighty six percent of MS (26 of 30) met acceptability criteria for accuracy. Two MS/MSD pairs recovered below percent recovery limits due to possible matrix interferences in the QC samples. All associated LCS were within criteria. One hundred percent of MSD met acceptability criteria for precision.

Total Dissolved Solids (TDS): Field blanks met acceptability criteria in 100% of the samples analyzed. Ninety-three percent of field duplicates had RPDs less than 25%. Lab blanks were run with every batch and met acceptance criteria for 95% of samples. The single lab blank above acceptance criteria was a low level contamination (result = 10, RL = 10) and was not re-analyzed due to hold time limitations. LCSs met acceptability criteria in 100% of the samples analyzed. A single lab duplicate did not meet the batch precision requirements, RPD < 25% (environmental sample = 28 mg/L, duplicate = 21 mg/L, RPD 29%). MS/MSD cannot be performed for TDS.

Total Organic Carbon (TOC): One hundred percent of field blanks and 93.3% of field duplicates met acceptability criteria. Laboratory blanks and LCSs met acceptance criteria for 100% of the samples. One hundred percent of MS and MSDs performed met acceptability requirements.

Total Suspended Solids (TSS): One hundred percent of field blanks met acceptability criteria. Only 40% of field duplicates (6 of 15) had RPDs less than 25%. The 9 field duplicate RPDs > 25% ranged from 25.81% - 107.4%, and all field duplicate and associated environmental sample results were above the RL (3 mg/L). In 5 of the 9 cases, both samples were diluted. One hundred percent of lab blanks, LCSs and laboratory duplicates met acceptance criteria. MS and MSDs cannot be performed for TSS.

Turbidity: One hundred percent of field blanks and 60% of field duplicates (9 of 15) met acceptability criteria. Laboratory blanks were run with every batch and 100% were less than the reporting limit. LCS and laboratory duplicates were analyzed with each batch and all of the samples met acceptance criteria. MS cannot be performed for turbidity.

Toxicity

For aquatic toxicity testing, the acceptability of test results is determined primarily by performance-based criteria for test organisms, culture and test conditions, and the results of control bioassays. Control bioassays include monthly reference toxicant testing and negative and solvent controls (for TIEs). Test acceptability requirements are documented in the method documents for each bioassay method and are included in the ESJWQC QAPP. In addition to the quality assurance (QA) requirements for the toxicity testing methods, a field duplicate must be collected with each sampling event or every 20 samples, whichever is more frequent. Field duplicates were collected every sampling event. The overall percentage of field duplicates are as follows: *Ceriodaphnia* 23%, *Pimephales* 21%, *Selenastrum* 19% and *Hyalella* 16%.

Water Column Toxicity: Field duplicates were collected during each monitoring event and were tested for toxicity to *Ceriodaphnia*, *Selenastrum* and *Pimephales* (Table 26). All three species had 100% of field duplicates within the acceptability criteria (RPD < 25%) except for *Pimephales*, which had 93.3% of RPDs less than 25% (14 of 15). The *Pimephales* field duplicate and environmental samples associated with the high RPD (26.4%) both exhibited significant toxicity compared to the control. All tests met holding time requirements (< 36 hours), water quality requirements and control requirements (as listed in the EPA method guidelines).

Sediment Toxicity: Sediment was collected on April 21, 2009 and August 18, 2009. Two field duplicates were collected and both had RPDs less than 25% (Table 26). One hundred percent of the sediment samples had laboratory control negatives within acceptability criteria. All sediment samples met holding time criteria.

Table 14. ESJWQC sample counts, field quality control counts and percentages.

Method	Analyte	Env. Samples (#)	Env. and Field QC Samples (#)	Field Blanks (#)	Field Blanks (%)	Field Dup. (#)	Field Dup. (%)	Equip. Blank (#)	Equip. Blank (%)	Travel Blank (#)	Travel Blank (%)
EPA 8321A CARB	Aldicarb	49	79	15	19.0%	15	19.0%		NA		NA
EPA 8321A CARB	Carbaryl	49	79	15	19.0%	15	19.0%		NA		NA
EPA 8321A CARB	Carbofuran	56	86	15	17.4%	15	17.4%		NA		NA
EPA 8321A CARB	Methiocarb	49	79	15	19.0%	15	19.0%		NA		NA
EPA 8321A CARB	Methomyl	49	79	15	19.0%	15	19.0%		NA		NA
EPA 8321A CARB	Oxamyl	49	79	15	19.0%	15	19.0%		NA		NA
EPA 8321A CARB	Diuron	49	79	15	19.0%	15	19.0%		NA		NA
EPA 8321A CARB	Linuron	49	79	15	19.0%	15	19.0%		NA		NA
EPA 619	Atrazine	49	79	15	19.0%	15	19.0%		NA		NA
EPA 619	Cyanazine	54	84	15	17.9%	15	17.9%		NA		NA
EPA 619	Simazine	54	84	15	17.9%	15	17.9%		NA		NA
EPA 547M	Glyphosate	21	37	8	21.6%	8	21.6%		NA		NA
EPA 549.2M	Paraquat dichloride	21	37	8	21.6%	8	21.6%		NA		NA
EPA 8081A	DDD(p,p')	28	44	8	18.2%	8	18.2%		NA		NA
EPA 8081A	DDE(p,p')	28	44	8	18.2%	8	18.2%		NA		NA
EPA 8081A	DDT(p,p')	28	44	8	18.2%	8	18.2%		NA		NA
EPA 8081A	Dicofol	28	44	8	18.2%	8	18.2%		NA		NA
EPA 8081A	Dieldrin	28	44	8	18.2%	8	18.2%		NA		NA
EPA 8081A	Endrin	28	44	8	18.2%	8	18.2%		NA		NA
EPA 8081A	Methoxychlor	28	44	8	18.2%	8	18.2%		NA		NA
EPA 8081A	Aldrin	17	29	6	20.7%	6	20.7%		NA		NA
EPA 8081A	Chlordane	17	29	6	20.7%	6	20.7%		NA		NA
EPA 8081A	Heptachlor	17	29	6	20.7%	6	20.7%		NA		NA
EPA 8081A	Heptachlor epoxide	17	29	6	20.7%	6	20.7%		NA		NA
EPA 8081A	HCH, alpha	17	29	6	20.7%	6	20.7%		NA		NA
EPA 8081A	HCH, beta	17	29	6	20.7%	6	20.7%		NA		NA
EPA 8081A	HCH, delta	17	29	6	20.7%	6	20.7%		NA		NA
EPA 8081A	HCH, gamma	17	29	6	20.7%	6	20.7%		NA		NA
EPA 8081A	Endosulfan I	17	29	6	20.7%	6	20.7%		NA		NA
EPA 8081A	Endosulfan II	17	29	6	20.7%	6	20.7%		NA		NA
EPA 8081A	Toxaphene	17	29	6	20.7%	6	20.7%		NA		NA
EPA 8141A OP	Azinphos methyl	63	93	15	16.1%	15	16.1%		NA		NA
EPA 8141A OP	Chlorpyrifos	79	109	15	13.8%	15	13.8%		NA		NA
EPA 8141A OP	Diazinon	63	93	15	16.1%	15	16.1%		NA		NA
EPA 8141A OP	Dichlorvos	63	93	15	16.1%	15	16.1%		NA		NA
EPA 8141A OP	Dimethoate	63	93	15	16.1%	15	16.1%		NA		NA
EPA 8141A OP	Demeton-s	63	93	15	16.1%	15	16.1%		NA		NA
EPA 8141A OP	Disulfoton	63	93	15	16.1%	15	16.1%		NA		NA

Method	Analyte	Env. Samples (#)	Env. and Field QC Samples (#)	Field Blanks (#)	Field Blanks (%)	Field Dup. (#)	Field Dup. (%)	Equip. Blank (#)	Equip. Blank (%)	Travel Blank (#)	Travel Blank (%)
EPA 8141A OP	Malathion	63	93	15	16.1%	15	16.1%		NA		NA
EPA 8141A OP	Methidathion	63	93	15	16.1%	15	16.1%		NA		NA
EPA 8141A OP	Parathion, Methyl	63	93	15	16.1%	15	16.1%		NA		NA
EPA 8141A OP	Phorate	63	93	15	16.1%	15	16.1%		NA		NA
EPA 8141A OP	Phosmet	63	93	15	16.1%	15	16.1%		NA		NA
EPA 8141A OP	Trifluralin	49	79	15	19.0%	15	19.0%		NA		NA
EPA 8141A OP	Methamidophos	62	92	15	16.3%	15	16.3%		NA		NA
SM 2340 C	Hardness as CaCO3 (Dissolved)	41	55	7	12.7%	7	12.7%		NA		NA
SM 2340 C	Hardness as CaCO3	37	55	8	14.5%	8	14.5%		NA	2	3.6%
EPA 160.1	Total Dissolved Solids	123	153	15	9.8%	15	9.8%		NA		NA
EPA 160.2	Total Suspended Solids	123	153	15	9.8%	15	9.8%		NA		NA
EPA 180.1	Turbidity	123	153	15	9.8%	15	9.8%		NA		NA
EPA 350.2	Ammonia as N	123	153	15	9.8%	15	9.8%		NA		NA
EPA 351.3	Nitrogen, Total Kjeldahl	47	61	7	11.5%	7	11.5%		NA		NA
EPA 353.2	Nitrate + Nitrite as N	123	153	15	9.8%	15	9.8%		NA		NA
EPA 365.2	OrthoPhosphate as P	47	61	7	11.5%	7	11.5%		NA		NA
EPA 365.2	Phosphate as P	123	153	15	9.8%	15	9.8%		NA		NA
EPA 415.1	Total Organic Carbon	123	153	15	9.8%	15	9.8%		NA		NA
Walkley-Black	Total Organic Carbon (sediment)	10	12		0.0%	2	16.7%		NA		NA
SM 9223	*E. coli*	123	153	15	9.8%	15	9.8%		NA		NA
EPA 200.8	Arsenic	33	56	8	14.3%	8	14.3%		NA	7	12.5%
EPA 200.8	Boron	63	107	15	14.0%	15	14.0%		NA	14	13.1%
EPA 200.8	Cadmium	33	56	8	14.3%	8	14.3%		NA	7	12.5%
EPA 200.8	Copper	77	121	15	12.4%	15	12.4%		NA	14	11.6%
EPA 200.8	Lead	34	57	8	14.0%	8	14.0%		NA	7	12.3%
EPA 200.8	Molybdenum	33	56	8	14.3%	8	14.3%		NA	7	12.5%
EPA 200.8	Nickel	63	107	15	14.0%	15	14.0%		NA	14	13.1%
EPA 200.8	Selenium	63	107	15	14.0%	15	14.0%		NA	14	13.1%
EPA 200.8	Zinc	63	107	15	14.0%	15	14.0%		NA	14	13.1%
EPA 200.8	Cadmium (Dissolved)	33	57	8	14.0%	8	14.0%	8	14.0%		NA
EPA 200.8	Copper (Dissolved)	77	122	15	12.3%	15	12.3%	15	12.3%		NA
EPA 200.8	Lead (Dissolved)	34	58	8	13.8%	8	13.8%	8	13.8%		NA
EPA 200.8	Nickel (Dissolved)	63	108	15	13.9%	15	13.9%	15	13.9%		NA
EPA 200.8	Zinc (Dissolved)	63	108	15	13.9%	15	13.9%	15	13.9%		NA

Adminsitrative Record
Page 16484

Table 15. ESJWQC summary of field blank quality control sample evaluations.

Method	Analyte	Data Quality Objective	Number of Samples	Samples Within Control Limits	Percent Samples Acceptable
EPA 8321A CARB	Aldicarb	<RL or < (env sample/5)	15	15	100.00
EPA 8321A CARB	Carbaryl	<RL or < (env sample/5)	15	15	100.00
EPA 8321A CARB	Carbofuran	<RL or < (env sample/5)	15	15	100.00
EPA 8321A CARB	Methiocarb	<RL or < (env sample/5)	15	15	100.00
EPA 8321A CARB	Methomyl	<RL or < (env sample/5)	15	15	100.00
EPA 8321A CARB	Oxamyl	<RL or < (env sample/5)	15	15	100.00
EPA 8321A CARB	Diuron	<RL or < (env sample/5)	15	15	100.00
EPA 8321A CARB	Linuron	<RL or < (env sample/5)	15	15	100.00
EPA 619	Atrazine	<RL or < (env sample/5)	15	15	100.00
EPA 619	Cyanazine	<RL or < (env sample/5)	15	15	100.00
EPA 619	Simazine	<RL or < (env sample/5)	15	15	100.00
EPA 547M	Glyphosate	<RL or < (env sample/5)	8	8	100.00
EPA 549.2M	Paraquat dichloride	<RL or < (env sample/5)	8	8	100.00
EPA 8081A	DDD(p,p')	<RL or < (env sample/5)	8	8	100.00
EPA 8081A	DDE(p,p')	<RL or < (env sample/5)	8	8	100.00
EPA 8081A	DDT(p,p')	<RL or < (env sample/5)	8	8	100.00
EPA 8081A	Dicofol	<RL or < (env sample/5)	8	8	100.00
EPA 8081A	Dieldrin	<RL or < (env sample/5)	8	8	100.00
EPA 8081A	Endrin	<RL or < (env sample/5)	8	8	100.00
EPA 8081A	Methoxychlor	<RL or < (env sample/5)	8	8	100.00
EPA 8081A	Aldrin	<RL or < (env sample/5)	6	6	100.00
EPA 8081A	Chlordane	<RL or < (env sample/5)	6	6	100.00
EPA 8081A	Heptachlor	<RL or < (env sample/5)	6	6	100.00
EPA 8081A	Heptachlor epoxide	<RL or < (env sample/5)	6	6	100.00
EPA 8081A	HCH, alpha	<RL or < (env sample/5)	6	6	100.00
EPA 8081A	HCH, beta	<RL or < (env sample/5)	6	6	100.00
EPA 8081A	HCH, delta	<RL or < (env sample/5)	6	6	100.00
EPA 8081A	HCH, gamma	<RL or < (env sample/5)	6	6	100.00
EPA 8081A	Endosulfan I	<RL or < (env sample/5)	6	6	100.00
EPA 8081A	Endosulfan II	<RL or < (env sample/5)	6	6	100.00
EPA 8081A	Toxaphene	<RL or < (env sample/5)	6	6	100.00
EPA 8141A OP	Azinphos methyl	<RL or < (env sample/5)	15	15	100.00
EPA 8141A OP	Chlorpyrifos	<RL or < (env sample/5)	15	15	100.00
EPA 8141A OP	Diazinon	<RL or < (env sample/5)	15	15	100.00
EPA 8141A OP	Dichlorvos	<RL or < (env sample/5)	15	15	100.00
EPA 8141A OP	Dimethoate	<RL or < (env sample/5)	15	15	100.00
EPA 8141A OP	Demeton-s	<RL or < (env sample/5)	15	15	100.00
EPA 8141A OP	Disulfoton	<RL or < (env sample/5)	15	15	100.00

Method	Analyte	Data Quality Objective	Number of Samples	Samples Within Control Limits	Percent Samples Acceptable
EPA 8141A OP	Malathion	<RL or < (env sample/5)	15	15	100.00
EPA 8141A OP	Methidathion	<RL or < (env sample/5)	15	15	100.00
EPA 8141A OP	Parathion, Methyl	<RL or < (env sample/5)	15	15	100.00
EPA 8141A OP	Phorate	<RL or < (env sample/5)	15	15	100.00
EPA 8141A OP	Phosmet	<RL or < (env sample/5)	15	15	100.00
EPA 8141A OP	Trifluralin	<RL or < (env sample/5)	15	15	100.00
EPA 8141A OP	Methamidophos	<RL or < (env sample/5)	15	15	100.00
SM 2340 C	Hardness as CaCO3 (Dissolved)	<RL or < (env sample/5)	7	7	100.00
SM 2340 C	Hardness as CaCO3	<RL or < (env sample/5)	8	8	100.00
EPA 160.1	Total Dissolved Solids	<RL or < (env sample/5)	15	15	100.00
EPA 160.2	Total Suspended Solids	<RL or < (env sample/5)	15	15	100.00
EPA 180.1	Turbidity	<RL or < (env sample/5)	15	15	100.00
EPA 350.2	Ammonia as N	<RL or < (env sample/5)	15	15	100.00
EPA 351.3	Nitrogen, Total Kjeldahl	<RL or < (env sample/5)	7	7	100.00
EPA 353.2	Nitrate + Nitrite as N	<RL or < (env sample/5)	15	12	80.00
EPA 365.2	OrthoPhosphate as P	<RL or < (env sample/5)	7	7	100.00
EPA 365.2	Phosphate as P	<RL or < (env sample/5)	15	14	93.33
EPA 415.1	Total Organic Carbon	<RL or < (env sample/5)	15	15	100.00
Walkley-Black	Total Organic Carbon (sediment)	NA			NA
SM 9223	*E. coli*	<RL or < (env sample/5)	15	15	100.00
EPA 200.8	Arsenic	<RL or < (env sample/5)	8	8	100.00
EPA 200.8	Boron	<RL or < (env sample/5)	15	15	100.00
EPA 200.8	Cadmium	<RL or < (env sample/5)	8	8	100.00
EPA 200.8	Copper	<RL or < (env sample/5)	15	15	100.00
EPA 200.8	Lead	<RL or < (env sample/5)	8	8	100.00
EPA 200.8	Molybdenum	<RL or < (env sample/5)	8	8	100.00
EPA 200.8	Nickel	<RL or < (env sample/5)	15	15	100.00
EPA 200.8	Selenium	<RL or < (env sample/5)	15	15	100.00
EPA 200.8	Zinc	<RL or < (env sample/5)	15	15	100.00
EPA 200.8	Cadmium (Dissolved)	<RL or < (env sample/5)	8	8	100.00
EPA 200.8	Copper (Dissolved)	<RL or < (env sample/5)	15	15	100.00
EPA 200.8	Lead (Dissolved)	<RL or < (env sample/5)	8	8	100.00
EPA 200.8	Nickel (Dissolved)	<RL or < (env sample/5)	15	15	100.00
EPA 200.8	Zinc (Dissolved)	<RL or < (env sample/5)	15	14	93.33
		TOTAL	**830**	**825**	**99.40**

Adminsitrative Record
Page 16486

Table 16. ESJWQC summary of equipment blank (dissolved metals) and travel blank (total metals) quality control sample evaluations.

Method	Analyte	Data Quality Objective	Number of Samples	Samples Within Control Limits	Percent Samples Acceptable
EPA 200.8	Arsenic	<RL or < (env sample/5)	7	7	NA
EPA 200.8	Boron	<RL or < (env sample/5)	14	14	NA
EPA 200.8	Cadmium	<RL or < (env sample/5)	7	7	NA
EPA 200.8	Copper	<RL or < (env sample/5)	14	14	NA
EPA 200.8	Lead	<RL or < (env sample/5)	7	7	NA
EPA 200.8	Molybdenum	<RL or < (env sample/5)	7	7	NA
EPA 200.8	Nickel	<RL or < (env sample/5)	14	14	NA
EPA 200.8	Selenium	<RL or < (env sample/5)	14	14	NA
EPA 200.8	Zinc	<RL or < (env sample/5)	14	14	NA
EPA 200.8	Cadmium (Dissolved)	<RL or < (env sample/5)	8	8	100.00
EPA 200.8	Copper (Dissolved)	<RL or < (env sample/5)	15	15	100.00
EPA 200.8	Lead (Dissolved)	<RL or < (env sample/5)	8	8	100.00
EPA 200.8	Nickel (Dissolved)	<RL or < (env sample/5)	15	15	100.00
EPA 200.8	Zinc (Dissolved)	<RL or < (env sample/5)	15	15	100.00
		TOTAL	**61**	**61**	**100.00**

Adminsitrative Record
Page 16487

Table 17. ESJWQC summary of field duplicate quality control sample evaluations.

Method	Analyte	Data Quality Objective	Number of Samples	Samples Within Control Limits	Percent Samples Acceptable
EPA 8321A CARB	Aldicarb	RPD ≤ 25	15	15	100.00
EPA 8321A CARB	Carbaryl	RPD ≤ 25	15	15	100.00
EPA 8321A CARB	Carbofuran	RPD ≤ 25	15	15	100.00
EPA 8321A CARB	Methiocarb	RPD ≤ 25	15	15	100.00
EPA 8321A CARB	Methomyl	RPD ≤ 25	15	15	100.00
EPA 8321A CARB	Oxamyl	RPD ≤ 25	15	15	100.00
EPA 8321A CARB	Diuron	RPD ≤ 25	15	15	100.00
EPA 8321A CARB	Linuron	RPD ≤ 25	15	15	100.00
EPA 619	Atrazine	RPD ≤ 25	15	15	100.00
EPA 619	Cyanazine	RPD ≤ 25	15	15	100.00
EPA 619	Simazine	RPD ≤ 25	15	14	93.33
EPA 547M	Glyphosate	RPD ≤ 25	8	8	100.00
EPA 549.2M	Paraquat dichloride	RPD ≤ 25	8	8	100.00
EPA 8081A	DDD(p,p')	RPD ≤ 25	8	8	100.00
EPA 8081A	DDE(p,p')	RPD ≤ 25	8	8	100.00
EPA 8081A	DDT(p,p')	RPD ≤ 25	8	8	100.00
EPA 8081A	Dicofol	RPD ≤ 25	8	8	100.00
EPA 8081A	Dieldrin	RPD ≤ 25	8	8	100.00
EPA 8081A	Endrin	RPD ≤ 25	8	8	100.00
EPA 8081A	Methoxychlor	RPD ≤ 25	8	8	100.00
EPA 8081A	Aldrin	RPD ≤ 25	6	6	100.00
EPA 8081A	Chlordane	RPD ≤ 25	6	6	100.00
EPA 8081A	Heptachlor	RPD ≤ 25	6	6	100.00
EPA 8081A	Heptachlor epoxide	RPD ≤ 25	6	6	100.00
EPA 8081A	HCH, alpha	RPD ≤ 25	6	6	100.00
EPA 8081A	HCH, beta	RPD ≤ 25	6	6	100.00
EPA 8081A	HCH, delta	RPD ≤ 25	6	6	100.00
EPA 8081A	HCH, gamma	RPD ≤ 25	6	6	100.00
EPA 8081A	Endosulfan I	RPD ≤ 25	6	6	100.00
EPA 8081A	Endosulfan II	RPD ≤ 25	6	6	100.00
EPA 8081A	Toxaphene	RPD ≤ 25	6	6	100.00
EPA 8141A OP	Azinphos methyl	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Chlorpyrifos	RPD ≤ 25	15	14	93.33
EPA 8141A OP	Diazinon	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Dichlorvos	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Dimethoate	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Demeton-s	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Disulfoton	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Malathion	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Methidathion	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Parathion, Methyl	RPD ≤ 25	15	15	100.00

Adminsitrative Record
Page 16488

Method	Analyte	Data Quality Objective	Number of Samples	Samples Within Control Limits	Percent Samples Acceptable
EPA 8141A OP	Phorate	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Phosmet	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Trifluralin	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Methamidophos	RPD ≤ 25	15	15	100.00
SM 2340 C	Hardness as CaCO3 (Dissolved)	RPD ≤ 25	7	5	71.43
SM 2340 C	Hardness as CaCO3	RPD ≤ 25	8	6	75.00
EPA 160.1	Total Dissolved Solids	RPD ≤ 25	15	14	93.33
EPA 160.2	Total Suspended Solids	RPD ≤ 25	15	6	40.00
EPA 180.1	Turbidity	RPD ≤ 25	15	9	60.00
EPA 350.2	Ammonia as N	RPD ≤ 25	15	11	73.33
EPA 351.3	Nitrogen, Total Kjeldahl	RPD ≤ 25	7	6	85.71
EPA 353.2	Nitrate + Nitrite as N	RPD ≤ 25	15	6	40.00
EPA 365.2	OrthoPhosphate as P	RPD ≤ 25	7	7	100.00
EPA 365.2	Phosphate as P	RPD ≤ 25	15	13	86.67
EPA 415.1	Total Organic Carbon	RPD ≤ 25	15	14	93.33
Walkley-Black	Total Organic Carbon (sediment)	RSD ≤ 20	2	1	50.00
SM 9223	*E. coli*	RPD ≤ 25			NA
EPA 200.8	Arsenic	RPD ≤ 25	8	8	100.00
EPA 200.8	Boron	RPD ≤ 25	15	14	93.33
EPA 200.8	Cadmium	RPD ≤ 25	8	7	87.50
EPA 200.8	Copper	RPD ≤ 25	15	15	100.00
EPA 200.8	Lead	RPD ≤ 25	8	6	75.00
EPA 200.8	Molybdenum	RPD ≤ 25	8	8	100.00
EPA 200.8	Nickel	RPD ≤ 25	15	14	93.33
EPA 200.8	Selenium	RPD ≤ 25	15	15	100.00
EPA 200.8	Zinc	RPD ≤ 25	15	14	93.33
EPA 200.8	Cadmium (Dissolved)	RPD ≤ 25	8	8	100.00
EPA 200.8	Copper (Dissolved)	RPD ≤ 25	15	15	100.00
EPA 200.8	Lead (Dissolved)	RPD ≤ 25	8	7	87.50
EPA 200.8	Nickel (Dissolved)	RPD ≤ 25	15	15	100.00
EPA 200.8	Zinc (Dissolved)	RPD ≤ 25	15	13	86.67
		TOTAL	**817**	**768**	**94.00**

Adminsitrative Record
Page 16489

Table 18. ESJWQC summary of method blank quality control sample evaluations.

Method	Analyte	Data Quality Objective	Number of Samples	Samples Within Control Limits	Percent Samples Acceptable
EPA 8321A CARB	Aldicarb	<RL	15	15	100.00
EPA 8321A CARB	Carbaryl	<RL	15	15	100.00
EPA 8321A CARB	Carbofuran	<RL	16	16	100.00
EPA 8321A CARB	Methiocarb	<RL	15	15	100.00
EPA 8321A CARB	Methomyl	<RL	15	15	100.00
EPA 8321A CARB	Oxamyl	<RL	15	15	100.00
EPA 8321A CARB	Diuron	<RL	15	15	100.00
EPA 8321A CARB	Linuron	<RL	15	15	100.00
EPA 619	Atrazine	<RL	15	15	100.00
EPA 619	Cyanazine	<RL	15	15	100.00
EPA 619	Simazine	<RL	15	15	100.00
EPA 547M	Glyphosate	<RL	8	8	100.00
EPA 549.2M	Paraquat dichloride	<RL	8	8	100.00
EPA 8081A	DDD(p,p')	<RL	8	8	100.00
EPA 8081A	DDE(p,p')	<RL	8	8	100.00
EPA 8081A	DDT(p,p')	<RL	8	8	100.00
EPA 8081A	Dicofol	<RL	8	8	100.00
EPA 8081A	Dieldrin	<RL	8	8	100.00
EPA 8081A	Endrin	<RL	8	8	100.00
EPA 8081A	Methoxychlor	<RL	8	8	100.00
EPA 8081A	Aldrin	<RL	8	8	100.00
EPA 8081A	Chlordane	<RL	8	8	100.00
EPA 8081A	Heptachlor	<RL	8	8	100.00
EPA 8081A	Heptachlor epoxide	<RL	8	8	100.00
EPA 8081A	HCH, alpha	<RL	8	8	100.00
EPA 8081A	HCH, beta	<RL	8	8	100.00
EPA 8081A	HCH, delta	<RL	8	8	100.00
EPA 8081A	HCH, gamma	<RL	8	8	100.00
EPA 8081A	Endosulfan I	<RL	8	8	100.00
EPA 8081A	Endosulfan II	<RL	8	8	100.00
EPA 8081A	Toxaphene	<RL	8	8	100.00
EPA 8141A OP	Azinphos methyl	<RL	15	15	100.00
EPA 8141A OP	Chlorpyrifos	<RL	15	15	100.00
EPA 8141A OP	Diazinon	<RL	15	15	100.00
EPA 8141A OP	Dichlorvos	<RL	15	15	100.00
EPA 8141A OP	Dimethoate	<RL	15	15	100.00
EPA 8141A OP	Demeton-s	<RL	15	15	100.00
EPA 8141A OP	Disulfoton	<RL	15	15	100.00
EPA 8141A OP	Malathion	<RL	15	15	100.00
EPA 8141A OP	Methidathion	<RL	15	15	100.00
EPA 8141A OP	Parathion, Methyl	<RL	15	15	100.00
EPA 8141A OP	Phorate	<RL	15	15	100.00
EPA 8141A OP	Phosmet	<RL	15	15	100.00
EPA 8141A OP	Trifluralin	<RL	15	15	100.00
EPA 8141A OP	Methamidophos	<RL	15	15	100.00

Adminsitrative Record
Page 16490

Method	Analyte	Data Quality Objective	Number of Samples	Samples Within Control Limits	Percent Samples Acceptable
SM 2340 C	Hardness as CaCO3 (Dissolved)	<RL	10	10	100.00
SM 2340 C	Hardness as CaCO3	<RL	11	11	100.00
EPA 160.1	Total Dissolved Solids	<RL	20	19	95.00
EPA 160.2	Total Suspended Solids	<RL	20	20	100.00
EPA 180.1	Turbidity	<RL	15	15	100.00
EPA 350.2	Ammonia as N	<RL	23	23	100.00
EPA 351.3	Nitrogen, Total Kjeldahl	<RL	10	10	100.00
EPA 353.2	Nitrate + Nitrite as N	<RL	17	17	100.00
EPA 365.2	OrthoPhosphate as P	<RL	8	8	100.00
EPA 365.2	Phosphate as P	<RL	15	15	100.00
EPA 415.1	Total Organic Carbon	<RL	20	20	100.00
Walkley-Black	Total Organic Carbon (sediment)	<RL	2	2	100.00
SM 9223	*E. coli*	<RL	15	15	100.00
EPA 200.8	Arsenic	<RL	8	8	100.00
EPA 200.8	Boron	<RL	17	17	100.00
EPA 200.8	Cadmium	<RL	8	8	100.00
EPA 200.8	Copper	<RL	18	18	100.00
EPA 200.8	Lead	<RL	8	8	100.00
EPA 200.8	Molybdenum	<RL	8	8	100.00
EPA 200.8	Nickel	<RL	17	17	100.00
EPA 200.8	Selenium	<RL	17	17	100.00
EPA 200.8	Zinc	<RL	20	20	100.00
EPA 200.8	Cadmium (Dissolved)	<RL	8	8	100.00
EPA 200.8	Copper (Dissolved)	<RL	16	16	100.00
EPA 200.8	Lead (Dissolved)	<RL	8	8	100.00
EPA 200.8	Nickel (Dissolved)	<RL	15	15	100.00
EPA 200.8	Zinc (Dissolved)	<RL	15	15	100.00
		TOTAL	**905**	**904**	**99.89**

Adminsitrative Record
Page 16491

Table 19. ESJWQC summary of lab control spike quality control sample evaluations.

Method	Analyte	Data Quality Objective	Number of Samples	Samples Within Control Limits	Percent Samples Acceptable
EPA 8321A CARB	Aldicarb	PR 31-133	16	16	100.00
EPA 8321A CARB	Carbaryl	PR 44-133	16	16	100.00
EPA 8321A CARB	Carbofuran	PR 36-165	18	18	100.00
EPA 8321A CARB	Methiocarb	PR 35-142	16	16	100.00
EPA 8321A CARB	Methomyl	PR 23-152	16	16	100.00
EPA 8321A CARB	Oxamyl	PR 10-117	16	16	100.00
EPA 8321A CARB	Diuron	PR 52-136	16	16	100.00
EPA 8321A CARB	Linuron	PR 49-144	16	16	100.00
EPA 619	Atrazine	PR 39-156	16	16	100.00
EPA 619	Cyanazine	PR 22-172	16	16	100.00
EPA 619	Simazine	PR 21-179	16	16	100.00
EPA 547M	Glyphosate	PR 72-131	16	16	100.00
EPA 549.2M	Paraquat dichloride	PR 50-141	9	9	100.00
EPA 8081A	DDD(p,p')	PR 38-135	8	8	100.00
EPA 8081A	DDE(p,p')	PR 21-134	8	8	100.00
EPA 8081A	DDT(p,p')	PR 18-145	8	8	100.00
EPA 8081A	Dicofol	PR 40-135	8	8	100.00
EPA 8081A	Dieldrin	PR 48-121	8	8	100.00
EPA 8081A	Endrin	PR 24-143	8	8	100.00
EPA 8081A	Methoxychlor	PR 30-163	8	8	100.00
EPA 8081A	Aldrin	PR 11-138	8	8	100.00
EPA 8081A	Chlordane	PR 44-152	8	8	100.00
EPA 8081A	Heptachlor	PR 24-124	8	8	100.00
EPA 8081A	Heptachlor epoxide	PR 58-109	8	8	100.00
EPA 8081A	HCH, alpha	PR 33-111	8	8	100.00
EPA 8081A	HCH, beta	PR 49-119	8	8	100.00
EPA 8081A	HCH, delta	PR 12-97	8	4	50.00
EPA 8081A	HCH, gamma	PR 40-114	8	8	100.00
EPA 8081A	Endosulfan I	PR 50-131	8	8	100.00
EPA 8081A	Endosulfan II	PR 55-128	8	8	100.00
EPA 8081A	Toxaphene	PR 23-140	2	2	100.00
EPA 8141A OP	Azinphos methyl	PR 36-189	16	16	100.00
EPA 8141A OP	Chlorpyrifos	PR 61-125	16	16	100.00
EPA 8141A OP	Diazinon	PR 57-130	16	16	100.00
EPA 8141A OP	Dichlorvos	PR 10-175	16	16	100.00
EPA 8141A OP	Dimethoate	PR 68-202	16	16	100.00
EPA 8141A OP	Demeton-s	PR 40-125	16	16	100.00
EPA 8141A OP	Disulfoton	PR 47-117	16	15	93.75
EPA 8141A OP	Malathion	PR 47-125	16	16	100.00
EPA 8141A OP	Methidathion	PR 50-150	16	16	100.00
EPA 8141A OP	Parathion, Methyl	PR 55-164	16	16	100.00
EPA 8141A OP	Phorate	PR 44-117	16	15	93.75
EPA 8141A OP	Phosmet	PR 50-150	16	14	87.50
EPA 8141A OP	Trifluralin	PR 40-148	16	16	100.00
EPA 8141A OP	Methamidophos	PR 25-136	16	16	100.00

Adminsitrative Record
Page 16492

Method	Analyte	Data Quality Objective	Number of Samples	Samples Within Control Limits	Percent Samples Acceptable
SM 2340 C	Hardness as CaCO3 (Dissolved)	PR 80-120	10	10	100.00
SM 2340 C	Hardness as CaCO3	PR 80-120	11	11	100.00
EPA 160.1	Total Dissolved Solids	PR 80-120	20	20	100.00
EPA 160.2	Total Suspended Solids	PR 80-120	20	20	100.00
EPA 180.1	Turbidity	PR 90-110	15	15	100.00
EPA 350.2	Ammonia as N	PR 80-120	23	23	100.00
EPA 351.3	Nitrogen, Total Kjeldahl	PR 80-120	10	10	100.00
EPA 353.2	Nitrate + Nitrite as N	PR 80-120	17	17	100.00
EPA 365.2	OrthoPhosphate as P	PR 80-120	8	8	100.00
EPA 365.2	Phosphate as P	PR 80-120	15	15	100.00
EPA 415.1	Total Organic Carbon	PR 75-125	20	20	100.00
Walkley-Black	Total Organic Carbon (sediment)	PR 21-199	2	2	100.00
SM 9223	*E. coli*	NA			NA
EPA 200.8	Arsenic	PR 75-125	8	8	100.00
EPA 200.8	Boron	PR 75-125	17	17	100.00
EPA 200.8	Cadmium	PR 75-125	8	8	100.00
EPA 200.8	Copper	PR 75-125	18	18	100.00
EPA 200.8	Lead	PR 75-125	8	8	100.00
EPA 200.8	Molybdenum	PR 75-125	8	8	100.00
EPA 200.8	Nickel	PR 75-125	17	17	100.00
EPA 200.8	Selenium	PR 75-125	17	17	100.00
EPA 200.8	Zinc	PR 75-125	20	20	100.00
EPA 200.8	Cadmium (Dissolved)	PR 75-125	8	8	100.00
EPA 200.8	Copper (Dissolved)	PR 75-125	16	16	100.00
EPA 200.8	Lead (Dissolved)	PR 75-125	8	8	100.00
EPA 200.8	Nickel (Dissolved)	PR 75-125	15	15	100.00
EPA 200.8	Zinc (Dissolved)	PR 75-125	15	15	100.00
		TOTAL	**919**	**911**	**99.13**

Table 20. ESJWQC summary of lab control spike duplicate quality control sample evaluations.

Method	Analyte	Data Quality Objective	Number of Pairs	Pairs Within Control Limits	Percent Samples Acceptable
EPA 8321A CARB	Aldicarb	RPD ≤ 25	1	0	0.00
EPA 8321A CARB	Carbaryl	RPD ≤ 25	1	1	100.00
EPA 8321A CARB	Carbofuran	RPD ≤ 25	2	2	100.00
EPA 8321A CARB	Methiocarb	RPD ≤ 25	1	1	100.00
EPA 8321A CARB	Methomyl	RPD ≤ 25	1	1	100.00
EPA 8321A CARB	Oxamyl	RPD ≤ 25	1	0	0.00
EPA 8321A CARB	Diuron	RPD ≤ 25	1	1	100.00
EPA 8321A CARB	Linuron	RPD ≤ 25	1	1	100.00
EPA 619	Atrazine	RPD ≤ 25	1	1	100.00
EPA 619	Cyanazine	RPD ≤ 25	1	1	100.00
EPA 619	Simazine	RPD ≤ 25	1	1	100.00
EPA 547M	Glyphosate	RPD ≤ 25	8	8	100.00
EPA 549.2M	Paraquat dichloride	RPD ≤ 25	1	1	100.00
EPA 8081A	DDD(p,p')	RPD ≤ 25			NA
EPA 8081A	DDE(p,p')	RPD ≤ 25			NA
EPA 8081A	DDT(p,p')	RPD ≤ 25			NA
EPA 8081A	Dicofol	RPD ≤ 25			NA
EPA 8081A	Dieldrin	RPD ≤ 25			NA
EPA 8081A	Endrin	RPD ≤ 25			NA
EPA 8081A	Methoxychlor	RPD ≤ 25			NA
EPA 8081A	Aldrin	RPD ≤ 25			NA
EPA 8081A	Chlordane	RPD ≤ 25			NA
EPA 8081A	Heptachlor	RPD ≤ 25			NA
EPA 8081A	Heptachlor epoxide	RPD ≤ 25			NA
EPA 8081A	HCH, alpha	RPD ≤ 25			NA
EPA 8081A	HCH, beta	RPD ≤ 25			NA
EPA 8081A	HCH, delta	RPD ≤ 25			NA
EPA 8081A	HCH, gamma	RPD ≤ 25			NA
EPA 8081A	Endosulfan I	RPD ≤ 25			NA
EPA 8081A	Endosulfan II	RPD ≤ 25			NA
EPA 8081A	Toxaphene	RPD ≤ 25			NA
EPA 8141A OP	Azinphos methyl	RPD ≤ 25	1	1	100.00
EPA 8141A OP	Chlorpyrifos	RPD ≤ 25	1	1	100.00
EPA 8141A OP	Diazinon	RPD ≤ 25	1	1	100.00
EPA 8141A OP	Dichlorvos	RPD ≤ 25	1	1	100.00
EPA 8141A OP	Dimethoate	RPD ≤ 25	1	1	100.00
EPA 8141A OP	Demeton-s	RPD ≤ 25	1	1	100.00
EPA 8141A OP	Disulfoton	RPD ≤ 25	1	1	100.00
EPA 8141A OP	Malathion	RPD ≤ 25	1	1	100.00
EPA 8141A OP	Methidathion	RPD ≤ 25	1	1	100.00

Method	Analyte	Data Quality Objective	Number of Pairs	Pairs Within Control Limits	Percent Samples Acceptable
EPA 8141A OP	Parathion, Methyl	RPD ≤ 25	1	1	100.00
EPA 8141A OP	Phorate	RPD ≤ 25	1	1	100.00
EPA 8141A OP	Phosmet	RPD ≤ 25	1	1	100.00
EPA 8141A OP	Trifluralin	RPD ≤ 25	1	1	100.00
EPA 8141A OP	Methamidophos	RPD ≤ 25	1	1	100.00
SM 2340 C	Hardness as CaCO3 (Dissolved)	RPD ≤ 25			NA
SM 2340 C	Hardness as CaCO3	RPD ≤ 25			NA
EPA 160.1	Total Dissolved Solids	RPD ≤ 25			NA
EPA 160.2	Total Suspended Solids	RPD ≤ 25			NA
EPA 180.1	Turbidity	RPD ≤ 25			NA
EPA 350.2	Ammonia as N	RPD ≤ 25			NA
EPA 351.3	Nitrogen, Total Kjeldahl	RPD ≤ 25			NA
EPA 353.2	Nitrate + Nitrite as N	RPD ≤ 25			NA
EPA 365.2	OrthoPhosphate as P	RPD ≤ 25			NA
EPA 365.2	Phosphate as P	RPD ≤ 25			NA
EPA 415.1	Total Organic Carbon	RPD ≤ 25			NA
Walkley-Black	Total Organic Carbon (sediment)	RSD ≤ 20			NA
SM 9223	*E. coli*	RPD ≤ 25			NA
EPA 200.8	Arsenic	RPD ≤ 25			NA
EPA 200.8	Boron	RPD ≤ 25			NA
EPA 200.8	Cadmium	RPD ≤ 25			NA
EPA 200.8	Copper	RPD ≤ 25			NA
EPA 200.8	Lead	RPD ≤ 25			NA
EPA 200.8	Molybdenum	RPD ≤ 25			NA
EPA 200.8	Nickel	RPD ≤ 25			NA
EPA 200.8	Selenium	RPD ≤ 25			NA
EPA 200.8	Zinc	RPD ≤ 25			NA
EPA 200.8	Cadmium (Dissolved)	RPD ≤ 25			NA
EPA 200.8	Copper (Dissolved)	RPD ≤ 25			NA
EPA 200.8	Lead (Dissolved)	RPD ≤ 25			NA
EPA 200.8	Nickel (Dissolved)	RPD ≤ 25			NA
EPA 200.8	Zinc (Dissolved)	RPD ≤ 25			NA
		TOTAL	**35**	**33**	**94.29**

Adminsitrative Record
Page 16495

Table 21. ESJWQC summary of matrix spike quality control sample evaluations. Non project matrix spikes are included for batch completeness.

Method	Analyte	Data Quality Objective	Number of Samples	Samples Within Control Limits	Percent Samples Acceptable
EPA 8321A CARB	Aldicarb	PR 31-133	30	28	93.33
EPA 8321A CARB	Carbaryl	PR 44-133	30	29	96.67
EPA 8321A CARB	Carbofuran	PR 36-165	30	30	100.00
EPA 8321A CARB	Methiocarb	PR 35-142	30	29	96.67
EPA 8321A CARB	Methomyl	PR 23-152	30	30	100.00
EPA 8321A CARB	Oxamyl	PR 10-117	30	30	100.00
EPA 8321A CARB	Diuron	PR 52-136	30	27	90.00
EPA 8321A CARB	Linuron	PR 49-144	30	29	96.67
EPA 619	Atrazine	PR 39-156	30	30	100.00
EPA 619	Cyanazine	PR 22-172	30	27	90.00
EPA 619	Simazine	PR 21-179	30	30	100.00
EPA 547M	Glyphosate	PR 72-131	16	16	100.00
EPA 549.2M	Paraquat dichloride	PR 50-141	16	16	100.00
EPA 8081A	DDD(p,p')	PR 38-135	16	16	100.00
EPA 8081A	DDE(p,p')	PR 21-134	16	16	100.00
EPA 8081A	DDT(p,p')	PR 18-145	16	16	100.00
EPA 8081A	Dicofol	PR 40-135	16	16	100.00
EPA 8081A	Dieldrin	PR 48-121	16	16	100.00
EPA 8081A	Endrin	PR 24-143	16	16	100.00
EPA 8081A	Methoxychlor	PR 30-163	16	16	100.00
EPA 8081A	Aldin	PR 11-138	16	16	100.00
EPA 8081A	Chlordane	PR 44-152	16	16	100.00
EPA 8081A	Heptachlor	PR 24-124	16	16	100.00
EPA 8081A	Heptachlor epoxide	PR 58-109	16	16	100.00
EPA 8081A	HCH, alpha	PR 33-111	16	16	100.00
EPA 8081A	HCH, beta	PR 49-119	16	16	100.00
EPA 8081A	HCH, delta	PR 12-97	16	11	68.75
EPA 8081A	HCH, gamma	PR 40-114	16	16	100.00
EPA 8081A	Endosulfan I	PR 50-131	16	16	100.00
EPA 8081A	Endosulfan II	PR 55-128	16	16	100.00
EPA 8081A	Toxaphene	PR 23-140	4	4	100.00
EPA 8141A OP	Azinphos methyl	PR 36-189	30	30	100.00
EPA 8141A OP	Chlorpyrifos	PR 61-125	30	28	93.33
EPA 8141A OP	Diazinon	PR 57-130	30	30	100.00
EPA 8141A OP	Dichlorvos	PR 10-175	30	30	100.00
EPA 8141A OP	Dimethoate	PR 68-202	30	30	100.00
EPA 8141A OP	Demeton-s	PR 40-125	30	25	83.33
EPA 8141A OP	Disulfoton	PR 47-117	30	25	83.33
EPA 8141A OP	Malathion	PR 47-125	30	30	100.00
EPA 8141A OP	Methidathion	PR 50-150	30	30	100.00

Adminsitrative Record
Page 16496

Method	Analyte	Data Quality Objective	Number of Samples	Samples Within Control Limits	Percent Samples Acceptable
EPA 8141A OP	Parathion, Methyl	PR 55-164	30	30	100.00
EPA 8141A OP	Phorate	PR 44-117	30	27	90.00
EPA 8141A OP	Phosmet	PR 50-150	30	24	80.00
EPA 8141A OP	Trifluralin	PR 40-148	30	30	100.00
EPA 8141A OP	Methamidophos	PR 25-136	30	30	100.00
SM 2340 C	Hardness as CaCO3 (Dissolved)	PR 80-120	18	13	72.22
SM 2340 C	Hardness as CaCO3	PR 80-120	24	19	79.17
EPA 160.1	Total Dissolved Solids	PR 80-120			NA
EPA 160.2	Total Suspended Solids	PR 80-120			NA
EPA 180.1	Turbidity	PR 90-110			NA
EPA 350.2	Ammonia as N	PR 80-120	45	45	100.00
EPA 351.3	Nitrogen, Total Kjeldahl	PR 80-120	20	19	95.00
EPA 353.2	Nitrate + Nitrite as N	PR 80-120	34	29	85.29
EPA 365.2	OrthoPhosphate as P	PR 80-120	16	16	100.00
EPA 365.2	Phosphate as P	PR 80-120	30	26	86.67
EPA 415.1	Total Organic Carbon	PR 80-120	40	40	100.00
Walkley-Black	Total Organic Carbon (sediment)	PR 21-199			NA
SM 9223	*E. coli*	NA			NA
EPA 200.8	Arsenic	PR 75-125	16	16	100.00
EPA 200.8	Boron	PR 75-125	34	32	94.12
EPA 200.8	Cadmium	PR 75-125	16	16	100.00
EPA 200.8	Copper	PR 75-125	36	36	100.00
EPA 200.8	Lead	PR 75-125	16	16	100.00
EPA 200.8	Molybdenum	PR 75-125	16	16	100.00
EPA 200.8	Nickel	PR 75-125	34	34	100.00
EPA 200.8	Selenium	PR 75-125	34	34	100.00
EPA 200.8	Zinc	PR 75-125	40	38	95.00
EPA 200.8	Cadmium (Dissolved)	PR 75-125	16	16	100.00
EPA 200.8	Copper (Dissolved)	PR 75-125	32	31	96.88
EPA 200.8	Lead (Dissolved)	PR 75-125	16	15	93.75
EPA 200.8	Nickel (Dissolved)	PR 75-125	30	29	96.67
EPA 200.8	Zinc (Dissolved)	PR 75-125	30	29	96.67
		TOTAL	**1651**	**1586**	**96.06**

Adminsitrative Record
Page 16497

Table 22. ESJWQC summary of matrix spike duplicate quality control sample evaluations. Non project matrix spikes are included for batch completeness.

Method	Analyte	Data Quality Objective	Number of Pairs	Pairs Within Control Limits	Percent Samples Acceptable
EPA 8321A CARB	Aldicarb	RPD ≤ 25	15	14	93.33
EPA 8321A CARB	Carbaryl	RPD ≤ 25	15	14	93.33
EPA 8321A CARB	Carbofuran	RPD ≤ 25	15	13	86.67
EPA 8321A CARB	Methiocarb	RPD ≤ 25	15	14	93.33
EPA 8321A CARB	Methomyl	RPD ≤ 25	15	13	86.67
EPA 8321A CARB	Oxamyl	RPD ≤ 25	15	14	93.33
EPA 8321A CARB	Diuron	RPD ≤ 25	15	14	93.33
EPA 8321A CARB	Linuron	RPD ≤ 25	15	14	93.33
EPA 619	Atrazine	RPD ≤ 25	15	15	100.00
EPA 619	Cyanazine	RPD ≤ 25	15	15	100.00
EPA 619	Simazine	RPD ≤ 25	15	15	100.00
EPA 547M	Glyphosate	RPD ≤ 25	8	8	100.00
EPA 549.2M	Paraquat dichloride	RPD ≤ 25	8	8	100.00
EPA 8081A	DDD(p,p')	RPD ≤ 25	8	8	100.00
EPA 8081A	DDE(p,p')	RPD ≤ 25	8	7	87.50
EPA 8081A	DDT(p,p')	RPD ≤ 25	8	7	87.50
EPA 8081A	Dicofol	RPD ≤ 25	8	8	100.00
EPA 8081A	Dieldrin	RPD ≤ 25	8	7	87.50
EPA 8081A	Endrin	RPD ≤ 25	8	8	100.00
EPA 8081A	Methoxychlor	RPD ≤ 25	8	7	87.50
EPA 8081A	Aldrin	RPD ≤ 25	8	6	75.00
EPA 8081A	Chlordane	RPD ≤ 25	8	7	87.50
EPA 8081A	Heptachlor	RPD ≤ 25	8	7	87.50
EPA 8081A	Heptachlor epoxide	RPD ≤ 25	8	8	100.00
EPA 8081A	HCH, alpha	RPD ≤ 25	8	8	100.00
EPA 8081A	HCH, beta	RPD ≤ 25	8	8	100.00
EPA 8081A	HCH, delta	RPD ≤ 25	8	8	100.00
EPA 8081A	HCH, gamma	RPD ≤ 25	8	8	100.00
EPA 8081A	Endosulfan I	RPD ≤ 25	8	7	87.50
EPA 8081A	Endosulfan II	RPD ≤ 25	8	8	100.00
EPA 8081A	Toxaphene	RPD ≤ 25	2	2	100.00
EPA 8141A OP	Azinphos methyl	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Chlorpyrifos	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Diazinon	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Dichlorvos	RPD ≤ 25	15	14	93.33
EPA 8141A OP	Dimethoate	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Demeton-s	RPD ≤ 25	15	14	93.33
EPA 8141A OP	Disulfoton	RPD ≤ 25	15	13	86.67
EPA 8141A OP	Malathion	RPD ≤ 25	15	14	93.33
EPA 8141A OP	Methidathion	RPD ≤ 25	15	15	100.00

Adminsitrative Record
Page 16498

Method	Analyte	Data Quality Objective	Number of Pairs	Pairs Within Control Limits	Percent Samples Acceptable
EPA 8141A OP	Parathion, Methyl	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Phorate	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Phosmet	RPD ≤ 25	15	14	93.33
EPA 8141A OP	Trifluralin	RPD ≤ 25	15	15	100.00
EPA 8141A OP	Methamidophos	RPD ≤ 25	15	14	93.33
SM 2340 C	Hardness as CaCO3 (Dissolved)	RPD ≤ 25	9	9	100.00
SM 2340 C	Hardness as CaCO3	RPD ≤ 25	12	12	100.00
EPA 160.1	Total Dissolved Solids	RPD ≤ 25			NA
EPA 160.2	Total Suspended Solids	RPD ≤ 25			NA
EPA 180.1	Turbidity	RPD ≤ 25			NA
EPA 350.2	Ammonia as N	RPD ≤ 25	22	22	100.00
EPA 351.3	Nitrogen, Total Kjeldahl	RPD ≤ 25	10	10	100.00
EPA 353.2	Nitrate + Nitrite as N	RPD ≤ 25	17	17	100.00
EPA 365.2	OrthoPhosphate as P	RPD ≤ 25	8	8	100.00
EPA 365.2	Phosphate as P	RPD ≤ 25	15	15	100.00
EPA 415.1	Total Organic Carbon	RPD ≤ 25	20	20	100.00
Walkley-Black	Total Organic Carbon (sediment)	RSD ≤ 20			NA
SM 9223	*E. coli*	RPD ≤ 25			NA
EPA 200.8	Arsenic	RPD ≤ 25	8	8	100.00
EPA 200.8	Boron	RPD ≤ 25	17	17	100.00
EPA 200.8	Cadmium	RPD ≤ 25	8	8	100.00
EPA 200.8	Copper	RPD ≤ 25	18	18	100.00
EPA 200.8	Lead	RPD ≤ 25	8	8	100.00
EPA 200.8	Molybdenum	RPD ≤ 25	8	8	100.00
EPA 200.8	Nickel	RPD ≤ 25	17	17	100.00
EPA 200.8	Selenium	RPD ≤ 25	17	17	100.00
EPA 200.8	Zinc	RPD ≤ 25	20	19	95.00
EPA 200.8	Cadmium (Dissolved)	RPD ≤ 25	8	8	100.00
EPA 200.8	Copper (Dissolved)	RPD ≤ 25	16	16	100.00
EPA 200.8	Lead (Dissolved)	RPD ≤ 25	8	8	100.00
EPA 200.8	Nickel (Dissolved)	RPD ≤ 25	15	15	100.00
EPA 200.8	Zinc (Dissolved)	RPD ≤ 25	15	15	100.00
		TOTAL	**825**	**798**	**96.73**

Adminsitrative Record
Page 16499

Table 23. ESJWQC summary of lab duplicate quality control sample evaluations. Non project matrix spikes are included for batch completeness.

Method	Analyte	Data Quality Objective	Number of Samples	Samples Within Control Limits	Percent Samples Acceptable
EPA 8321A CARB	Aldicarb	RPD ≤ 25			NA
EPA 8321A CARB	Carbaryl	RPD ≤ 25			NA
EPA 8321A CARB	Carbofuran	RPD ≤ 25			NA
EPA 8321A CARB	Methiocarb	RPD ≤ 25			NA
EPA 8321A CARB	Methomyl	RPD ≤ 25			NA
EPA 8321A CARB	Oxamyl	RPD ≤ 25			NA
EPA 8321A CARB	Diuron	RPD ≤ 25			NA
EPA 8321A CARB	Linuron	RPD ≤ 25			NA
EPA 619	Atrazine	RPD ≤ 25			NA
EPA 619	Cyanazine	RPD ≤ 25			NA
EPA 619	Simazine	RPD ≤ 25			NA
EPA 547M	Glyphosate	RPD ≤ 25			NA
EPA 549.2M	Paraquat dichloride	RPD ≤ 25			NA
EPA 8081A	DDD(p,p')	RPD ≤ 25			NA
EPA 8081A	DDE(p,p')	RPD ≤ 25			NA
EPA 8081A	DDT(p,p')	RPD ≤ 25			NA
EPA 8081A	Dicofol	RPD ≤ 25			NA
EPA 8081A	Dieldrin	RPD ≤ 25			NA
EPA 8081A	Endrin	RPD ≤ 25			NA
EPA 8081A	Methoxychlor	RPD ≤ 25			NA
EPA 8081A	Aldrin	RPD ≤ 25			NA
EPA 8081A	Chlordane	RPD ≤ 25			NA
EPA 8081A	Heptachlor	RPD ≤ 25			NA
EPA 8081A	Heptachlor epoxide	RPD ≤ 25			NA
EPA 8081A	HCH, alpha	RPD ≤ 25			NA
EPA 8081A	HCH, beta	RPD ≤ 25			NA
EPA 8081A	HCH, delta	RPD ≤ 25			NA
EPA 8081A	HCH, gamma	RPD ≤ 25			NA
EPA 8081A	Endosulfan I	RPD ≤ 25			NA
EPA 8081A	Endosulfan II	RPD ≤ 25			NA
EPA 8081A	Toxaphene	RPD ≤ 25			NA
EPA 8141A OP	Azinphos methyl	RPD ≤ 25			NA
EPA 8141A OP	Chlorpyrifos	RPD ≤ 25			NA
EPA 8141A OP	Diazinon	RPD ≤ 25			NA
EPA 8141A OP	Dichlorvos	RPD ≤ 25			NA
EPA 8141A OP	Dimethoate	RPD ≤ 25			NA
EPA 8141A OP	Demeton-s	RPD ≤ 25			NA
EPA 8141A OP	Disulfoton	RPD ≤ 25			NA
EPA 8141A OP	Malathion	RPD ≤ 25			NA
EPA 8141A OP	Methidathion	RPD ≤ 25			NA

Method	Analyte	Data Quality Objective	Number of Samples	Samples Within Control Limits	Percent Samples Acceptable
EPA 8141A OP	Parathion, Methyl	RPD ≤ 25			NA
EPA 8141A OP	Phorate	RPD ≤ 25			NA
EPA 8141A OP	Phosmet	RPD ≤ 25			NA
EPA 8141A OP	Trifluralin	RPD ≤ 25			NA
EPA 8141A OP	Methamidophos	RPD ≤ 25			NA
SM 2340 C	Hardness as CaCO3 (Dissolved)	RPD ≤ 25			NA
SM 2340 C	Hardness as CaCO3	RPD ≤ 25			NA
EPA 160.1	Total Dissolved Solids	RPD ≤ 25	20	19	95.00
EPA 160.2	Total Suspended Solids	RPD ≤ 25	20	20	100.00
EPA 180.1	Turbidity	RPD ≤ 25	15	15	100.00
EPA 350.2	Ammonia as N	RPD ≤ 25			NA
EPA 351.3	Nitrogen, Total Kjeldahl	RPD ≤ 25			NA
EPA 353.2	Nitrate + Nitrite as N	RPD ≤ 25			NA
EPA 365.2	OrthoPhosphate as P	RPD ≤ 25			NA
EPA 365.2	Phosphate as P	RPD ≤ 25			NA
EPA 415.1	Total Organic Carbon	RPD ≤ 25			NA
Walkley-Black	Total Organic Carbon (sediment)	RSD ≤ 20	2	2	100.00
SM 9223	*E. coli*	RPD ≤ 25	15	15	100.00
EPA 200.8	Arsenic	RPD ≤ 25			NA
EPA 200.8	Boron	RPD ≤ 25			NA
EPA 200.8	Cadmium	RPD ≤ 25			NA
EPA 200.8	Copper	RPD ≤ 25			NA
EPA 200.8	Lead	RPD ≤ 25			NA
EPA 200.8	Molybdenum	RPD ≤ 25			NA
EPA 200.8	Nickel	RPD ≤ 25			NA
EPA 200.8	Selenium	RPD ≤ 25			NA
EPA 200.8	Zinc	RPD ≤ 25			NA
EPA 200.8	Cadmium (Dissolved)	RPD ≤ 25			NA
EPA 200.8	Copper (Dissolved)	RPD ≤ 25			NA
EPA 200.8	Lead (Dissolved)	RPD ≤ 25			NA
EPA 200.8	Nickel (Dissolved)	RPD ≤ 25			NA
EPA 200.8	Zinc (Dissolved)	RPD ≤ 25			NA
		TOTAL	**72**	**71**	**98.61**

Adminsitrative Record
Page 16501

Table 24. ESJWQC summary of surrogate recovery quality control sample evaluations. Surrogates were run with water samples collected and LABQAs analyzed during the irrigation season of 2008 for all organics except paraquat and glyphosate; non project samples are included.

Method	Analyte	Data Quality Objective	Number of Samples	Samples Within Control Limits	Percent Samples Acceptable
EPA 8321A CARB	Tributylphosphate(Surrogate)	RPD ≤ 25; PR 36-140	150	150	100.00
EPA 8321A CARB	Triphenyl phosphate(Surrogate)	RPD ≤ 25; PR 56-129			NA
EPA 619	Tributylphosphate(Surrogate)	RPD ≤ 25; PR 62-145	145	143	98.62
EPA 619	Triphenyl phosphate(Surrogate)	RPD ≤ 25; PR 54-144	145	144	99.31
EPA 8081A	Decachlorobiphenyl(Surrogate)	RPD ≤ 25; PR 16-146	81	81	100.00
EPA 8081A	Tetrachloro-m-xylene(Surrogate)	RPD ≤ 25; PR 15-98	81	81	100.00
EPA 8141A OP	Tributylphosphate(Surrogate)	RPD ≤ 25; PR 60-150	323	316	97.83
EPA 8141A OP	Triphenyl phosphate(Surrogate)	RPD ≤ 25; PR 56-129	323	310	95.98
		TOTAL	**1248**	**1225**	**98.16**

Adminsitrative Record
Page 16502

Table 25. ESJWQC summary of holding time evaluations for environmental, field blank, field duplicate and matrix spike samples.

Method	Analyte	Data Quality Objective	Number of Samples	Samples Within Control Limits	Percent Samples Acceptable
EPA 8321A CARB	Aldicarb	7 days	94	94	100.00
EPA 8321A CARB	Carbaryl	7 days	94	94	100.00
EPA 8321A CARB	Carbofuran	7 days	101	101	100.00
EPA 8321A CARB	Methiocarb	7 days	94	94	100.00
EPA 8321A CARB	Methomyl	7 days	94	94	100.00
EPA 8321A CARB	Oxamyl	7 days	94	94	100.00
EPA 8321A CARB	Diuron	7 days	94	94	100.00
EPA 8321A CARB	Linuron	7 days	94	94	100.00
EPA 619	Atrazine	7 days	94	94	100.00
EPA 619	Cyanazine	7 days	99	99	100.00
EPA 619	Simazine	7 days	99	99	100.00
EPA 547M	Glyphosate	14 days	45	45	100.00
EPA 549.2M	Paraquat dichloride	7 days	45	45	100.00
EPA 8081A	DDD(p,p')	7 days	52	52	100.00
EPA 8081A	DDE(p,p')	7 days	52	52	100.00
EPA 8081A	DDT(p,p')	7 days	52	52	100.00
EPA 8081A	Dicofol	7 days	52	52	100.00
EPA 8081A	Dieldrin	7 days	52	52	100.00
EPA 8081A	Endrin	7 days	52	52	100.00
EPA 8081A	Methoxychlor	7 days	52	52	100.00
EPA 8081A	Aldrin	7 days	36	36	100.00
EPA 8081A	Chlordane	7 days	36	36	100.00
EPA 8081A	Heptachlor	7 days	36	36	100.00
EPA 8081A	Heptachlor epoxide	7 days	36	36	100.00
EPA 8081A	HCH, alpha	7 days	36	36	100.00
EPA 8081A	HCH, beta	7 days	36	36	100.00
EPA 8081A	HCH, delta	7 days	36	36	100.00
EPA 8081A	HCH, gamma	7 days	36	36	100.00
EPA 8081A	Endosulfan I	7 days	36	36	100.00
EPA 8081A	Endosulfan II	7 days	36	36	100.00
EPA 8081A	Toxaphene	7 days	31	31	100.00
EPA 8141A OP	Azinphos methyl	7 days	108	108	100.00
EPA 8141A OP	Chlorpyrifos	7 days	124	124	100.00
EPA 8141A OP	Diazinon	7 days	108	108	100.00
EPA 8141A OP	Dichlorvos	7 days	108	108	100.00
EPA 8141A OP	Dimethoate	7 days	108	108	100.00
EPA 8141A OP	Demeton-s	7 days	108	108	100.00
EPA 8141A OP	Disulfoton	7 days	108	108	100.00
EPA 8141A OP	Malathion	7 days	108	108	100.00
EPA 8141A OP	Methidathion	7 days	108	108	100.00

Adminsitrative Record
Page 16503

Method	Analyte	Data Quality Objective	Number of Samples	Samples Within Control Limits	Percent Samples Acceptable
EPA 8141A OP	Parathion, Methyl	7 days	108	108	100.00
EPA 8141A OP	Phorate	7 days	108	108	100.00
EPA 8141A OP	Phosmet	7 days	108	108	100.00
EPA 8141A OP	Trifluralin	7 days	94	94	100.00
EPA 8141A OP	Methamidophos	7 days	107	107	100.00
SM 2340 C	Hardness as CaCO3 (Dissolved)	6 months	63	63	100.00
SM 2340 C	Hardness as CaCO3	6 months	63	63	100.00
EPA 160.1	Total Dissolved Solids	7 days	153	153	100.00
EPA 160.2	Total Suspended Solids	7 days	153	152	99.35
EPA 180.1	Turbidity	48 hours	153	153	100.00
EPA 350.2	Ammonia as N	Field acidify, 28 days	168	168	100.00
EPA 351.3	Nitrogen, Total Kjeldahl	Field acidify, 28 days	68	68	100.00
EPA 353.2	Nitrate + Nitrite as N	Field acidify, 28 days	168	168	100.00
EPA 365.2	OrthoPhosphate as P	48 hours	69	67	97.10
EPA 365.2	Phosphate as P	Field acidify, 28 days	168	168	100.00
EPA 415.1	Total Organic Carbon	28 days	171	171	100.00
Walkley-Black	Total Organic Carbon (sediment)	2 days	12	12	100.00
SM 9223	*E. coli*	24 hours	153	153	100.00
EPA 200.8	Arsenic	Field acidify, 6 months	64	64	100.00
EPA 200.8	Boron	Field acidify, 6 months	124	124	100.00
EPA 200.8	Cadmium	Field acidify, 6 months	64	64	100.00
EPA 200.8	Copper	Field acidify, 6 months	138	138	100.00
EPA 200.8	Lead	Field acidify, 6 months	65	65	100.00
EPA 200.8	Molybdenum	Field acidify, 6 months	64	64	100.00
EPA 200.8	Nickel	Field acidify, 6 months	124	124	100.00
EPA 200.8	Selenium	Field acidify, 6 months	124	124	100.00
EPA 200.8	Zinc	Field acidify, 6 months	124	124	100.00
EPA 200.8	Cadmium (Dissolved)	Field acidify, 6 months	65	65	100.00
EPA 200.8	Copper (Dissolved)	Field acidify, 6 months	137	137	100.00
EPA 200.8	Lead (Dissolved)	Field acidify, 6 months	66	66	100.00
EPA 200.8	Nickel (Dissolved)	Field acidify, 6 months	123	123	100.00
EPA 200.8	Zinc (Dissolved)	Field acidify, 6 months	123	123	100.00
		TOTAL	**6376**	**6373**	**99.95**

Adminsitrative Record
Page 16504

Table 26. ESJWQC summary of toxicity field duplicate sample evaluations.

Method	Toxicity Species	Total Field Duplicate Samples	Data Quality Objective (DQO)	Total Field Duplicate Samples Within DQO	Percent Samples Within Acceptable Criteria
EPA 821/R-02-012	*Ceriodaphnia dubia*	15	RPD ≤ 25	15	100.00
EPA 821/R-02-012	*Pimephales promelas*	15	RPD ≤ 25	14	93.33
EPA 821/R-02-013	*Selenastrum capricornutum*	15	RPD ≤ 25	15	100.00
EPA 600/R-99-064	*Hyalella azteca*	2	RPD ≤ 25	2	100.00

Table 27. ESJWQC summary of calculated sediment grain size RPD_{SD} results.
Batch calculations based on the relative percent difference (RPD_{SD}) between the standard deviation (SD) of the environmental samples and the standard deviation of their duplicate samples.

Sample Type	Analysis Month	Φ_5	Φ_{16}	Φ_{84}	Φ_{95}	SD	RPD_{SD}
Environmental Sample	April 2009	-0.11	0.55	5.45	7.71	2.41	-
Lab Duplicate	April 2009	-0.23	0.38	4.17	6.35	1.94	21.38
Field Duplicate	April 2009	-0.36	0.38	4.88	7.29	2.28	5.36
Environmental Sample	August 2009	-0.43	0.05	6.49	8.95	3.03	-
Lab Duplicate	August 2009	-0.46	0.10	5.75	8.51	2.77	8.95
Field Duplicate	August 2009	-0.52	0.07	5.47	8.34	2.69	11.84

Adminsitrative Record
Page 16505

Discussion of Results

The Coalition monitored all constituents as required in the MRP and outlined in the MRPP submitted on August 25, 2008 from October 2008 through April 2009 and amended May 15, 2009 with an update of constituents for sampling from March 2009 through December 2010. All data met 90 percent completeness, precision and accuracy. A discussion of all quality control is included in the Precision and Accuracy section of this report. All exceedances of water quality trigger limits (WQTLs) (Table 29) were reported within five business days upon receipt of lab results except for an HCH exceedance that occurred in samples collected on November 11, 2008. An amended exceedance report was submitted on June 19, 2009.

TIEs were performed for all samples when survival or growth was 50 percent or less compared to the control. A TIE report is included in Appendix VI.

Evaluation of WQTL exceedances of applied pesticides were reviewed in the context of the Pesticide Use Report (PUR) data relevant to exceedances. PUR data from October 2008 through November 2009 for all counties in the Coalition were available for review (Table 28). Any outstanding PUR data that are made available after this report is submitted will be included in an addendum to the Annual Monitoring Report (AMR) on June 30, 2010.

Table 28. Status of PUR data associated with exceedances that occurred from October 2008 through December 2009.

County	PUR Data Obtained	PUR Data Outstanding
Madera	October 2008-November 2009	December 2009
Merced	October 2008-November 2009	December 2009
Stanislaus	October 2008-November 2009	December 2009

Coalition monitoring between October 1, 2008 and December 31, 2009 resulted in exceedances of WQTLs (Table 29) for DO, pH, SC, *E. coli*, TDS, ammonia, nitrate, arsenic, copper, chlorpyrifos, diuron, DDE, and HCH (Tables 30-33). Water column toxicity to *Ceriodaphnia dubia, Pimephales promelas, Selenastrum capricornutum,* and sediment toxicity to *Hyalella azteca* also occurred (Table 34 Exceedances are tallied by the number of environmental exceedances, the number of exceedances that occurred in non contiguous water bodies, the number of Management Plan Monitoring exceedances and a total count for all WQTL exceedances (Tables 36 – 41). If a WQTL exceedance occurred in the environmental sample and the field duplicate sample, the result is only counted once.

Table 29. Water Quality Trigger Limits (WQTLs).

Constituent	Water Quality Trigger Limit (WQTL)	Standard Type	Beneficial Use (BU) with most protective limit	Reference for the Trigger Limit	Category (see footnotes)
pH	6.5 - 8.5 units	Numeric		Sacramento/San Joaquin Rivers Basin Plan (page III.6.00)	1
Electrical Conductivity (maximum)	700 umhos/cm	Narrative	Agricultural Supply	Water Quality for Agriculture (Ayers & Westcot)	3
Dissolved Oxygen (minimum)	7 mg/L	Numeric	Cold Freshwater Habitat, Spawning	Sacramento/San Joaquin Rivers Basin Plan. Water Quality Control Plan for the Tulare Lake Basin.	1
	5 mg/L		Warm Freshwater Habitat	Basin Plan Objective, page III-5.00: for waters designated WARM (aquatic life). Tulare Lake Basin Plan	
Turbidity	variable	Numeric	Municipal and Domestic Supply	Basin Plan Objective - increase varies based on natural turbidity	1
Total Dissolved Solids	450 mg/L	Narrative	Agricultural Supply	Water Quality for Agriculture (Ayers & Westcot)	3
Total Suspended Solids	NA				
Temperature	variable	Numeric		Basin Plan Objective (see objectives for COLD, WARM, and Enclosed Bays and Estuaries)	1
E coli	235 MPN/100 ml	Narrative	Water Contact Recreation	EPA ambient water quality criteria, single-sample maximum	3
Fecal coliform	200 MPN/100 ml **400 MPN/100 ml**	Numeric	Water Contact Recreation	Sacramento/San Joaquin Rivers Basin Plan (page III.3.00) Geometric mean of not less than five samples for any 30- day period, **nor shall more than 10% of the total number of samples taken during a 30 -day period.**	1
TOC	NA				
Pesticides - Carbamates					
Aldicarb	3 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: USEPA Primary MCL (MUN, human health)	1
Carbaryl	2.53 ug/L	Narrative	Freshwater Habitat	Sacramento/San Joaquin Basin Plan Toxicity Objective: Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average	3
Carbofuran	ND	Numeric		Sacramento/San Joaquin Basin Plan - Basin Plan Prohibition	2
Methiocarb	0.5 ug/L	Narrative	Freshwater Habitat	Sacramento/San Joaquin Basin Plan Toxicity Objective: Handbook of Acute Toxicity of Chemicals to Fish and Aquatic Invertebrates	3
Methomyl	0.52 ug/L	Narrative	Freshwater Habitat	Sacramento/San Joaquin Basin Plan Toxicity Objective: Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average (California Department of Fish and Game) (aquatic life)	3
Oxamyl	50 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: Drinking Water Standards - Maximum Contaminant Levels (MCLs). California Dept of Health Services. Primary MCL	3
Pesticides - Organochlorines					
DDD(p,p')	0.00083 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective:	1

Adminsitrative Record
Page 16507

Constituent	Water Quality Trigger Limit (WQTL)	Standard Type	Beneficial Use (BU) with most protective limit	Reference for the Trigger Limit	Category (see footnotes)
DDE(p,p')	0.00059 ug/L			CTR, Human Health Protection, 30-Day Average - Sources of Drinking Water (water & fish consumption)	
DDT(p,p')	0.00059 ug/L				
Dicofol	NA				
Dieldrin	0.00014 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR (USEPA), Human Health Protection, 30-Day Average - Sources of Drinking Water (water & fish consumption)	1
	0.056	Numeric	Freshwater Habitat	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR (USEPA) / Continuous Concentration 4-day average (total)	1
Endrin	0.036 ug/L	Numeric	Freshwater Habitat	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR (USEPA) - Continuous Concentration 4-Day Average	1
	0.76 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR (USEPA), Human Health Protection, 30-Day Average - Sources of Drinking Water (water & fish consumption)	1
Methoxychlor	0.03 ug/L	Narrative	Freshwater Habitat	Sacramento/San Joaquin Basin Plan Toxicity Objective: USEPA National Ambient Water Quality Criteria - Freshwater Aquatic Life Protection - instantaneous maximum	3
	30 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: California Primary MCL (MUN, human health)	1
Pesticides - Organophosphates					
Azinphos methyl	0.01 ug/L	Narrative	Freshwater Habitat	Sacramento/San Joaquin Basin Plan Toxicity Objective: USEPA National Ambient Water Quality Criteria - instantaneous maximum	3
Chlorpyrifos	0.015 ug/L	Numeric	Freshwater Habitat	Sacramento/San Joaquin Rivers Basin Plan: page III-6.01; San Joaquin River & Delta, Sacramento & Feather Rivers; more stringent 4-day average.	1
Diazinon	0.1 ug/L	Numeric	Freshwater Habitat	Sacramento/San Joaquin Basin Plan: San Joaquin River & Delta numeric standard. Sacramento & Feather Rivers numeric standard	1
Dichlorvos	0.085 ug/L	Narrative	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Toxicity Objective: Drinking Water Health Advisories or Suggested No-Adverse-Response Levels for non-cancer health effects. One-in-a-Million Incremental Cancer Risk Estimates for Drinking Water. Cal/EPA Cancer Potency Factor as a drinking water level	3
Dimethoate	1.0 ug/L	Narrative	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Toxicity Objective: Notification Level – DHS (MUN, human health). California Notification Levels. (Department of Health Services)	3
Demeton-s	NA				

Adminsitrative Record
Page 16508

Constituent	Water Quality Trigger Limit (WQTL)	Standard Type	Beneficial Use (BU) with most protective limit	Reference for the Trigger Limit	Category (see footnotes)
Disulfoton	0.05 ug/L	Narrative	Freshwater Habitat	Sacramento/San Joaquin Basin Plan Toxicity Objective: USEPA National Ambient Water Quality Criteria - Freshwater Aquatic Life Protection - instantaneous maximum	3
Malathion	ND	Numeric		Sacramento/San Joaquin Basin Plan - Basin Plan Prohibition	2
Methamidophos	0.35 ug/L	Narrative	Municipal and Domestic Supply	Basin Plan Toxicity Objective, Drinking Water Health Advisories or Suggested No-Adverse-Response Levels for non-cancer health effects. USEPA IRIS Reference Dose (RfD) as a drinking water level.	3
Methidathion	0.7	Narrative	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Toxicity Objective: USEPA IRIS Reference Dose (MUN, human health)	3
Parathion, Methyl	ND	Numeric		Sacramento/San Joaquin Basin Plan - Basin Plan Prohibition	2
Phorate	0.7 ug/L	Narrative	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Toxicity Objective: Drinking Water Health Advisories or Suggested No-Adverse-Response Levels for non-cancer health effects. USEPA IRIS Reference Dose (RfD) as a drinking water level.	3
Phosmet	140 ug/L	Narrative	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Toxicity Objective: Drinking Water Health Advisories or Suggested No-Adverse-Response Levels for non-cancer health effects. USEPA IRIS Reference Dose (RfD) as a drinking water level.	3
Group A Pesticides					
Aldrin	0.00013 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR (USEPA), Human Health Protection, 30-Day Average - Sources of Drinking Water (water & fish consumption)	1
	3 ug/L		Freshwater Habitat	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR (USEPA) - Instantaneous maximum	
Chlordane	0.00057 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR (USEPA), Human Health Protection, 30-Day Average - Sources of Drinking Water (water & fish consumption)	1
	0.0043 ug/L		Freshwater Habitat	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR (USEPA) - Continuous Concentration 4-day average (total)	
Heptachlor	0.00021ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR (USEPA), Human Health Protection, 30-Day Average - Sources of Drinking Water (water & fish consumption)	1
	0.0038 ug/L		Freshwater Habitat	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR (USEPA) - Continuous Concentration 4-day average (total)	
Heptachlor Epoxide	0.0001 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR (USEPA), Human Health Protection, 30-Day Average - Sources of Drinking Water (water & fish consumption)	1

Adminsitrative Record
Page 16509

Constituent	Water Quality Trigger Limit (WQTL)	Standard Type	Beneficial Use (BU) with most protective limit	Reference for the Trigger Limit	Category (see footnotes)
	0.0038 ug/L		Freshwater Habitat	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR (USEPA) - Continuous Concentration 4-day average (total)	
Total Hexachlorocyclohexane (including lindane)	0.0039 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR (USEPA), Human Health Protection, 30-Day Average - Sources of Drinking Water (water & fish consumption)	1
	0.95 ug/L		Freshwater Habitat	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR (USEPA) - Maximum Concentration (1-hour Average)	
Endosulfan	110 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR (USEPA), Human Health Protection, 30-Day Average - Sources of Drinking Water (water & fish consumption)	1
	0.056 ug/L		Freshwater Habitat	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: NTR (USEPA) - Continuous Concentration 4-day average (total)	
Toxaphene	0.00073 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR (USEPA), Human Health Protection, 30-Day Average - Sources of Drinking Water (water & fish consumption)	1
	0.0002 ug/L		Cold Freshwater Habitat, Spawning	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR (USEPA) - Continuous Concentration 4-day average (total)	
Pesticides - Herbicides					
Atrazine	1.0 ug/L	Narrative	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: California Primary MCL	1
Cyanazine	1.0 ug/L	Narrative	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Toxicity Objective: USEPA Health Advisory (human health)	3
Diuron	2 ug/L	Narrative	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Toxicity Objective: One-in-a-Million Incremental Cancer Risk Estimates for Drinking Water. USEPA Health Advisory. Likely to be carcinogenic to humans (U.S. Environmental Protection Agency, 2005 Guidelines for Carcinogen Risk Assessment).	3
Glyphosate	700 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: California Primary MCL (MUN, human health)	1
Linuron	1.4 ug/L	Narrative	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Toxicity Objective: USEPA IRIS Reference Dose as a drinking water level	3
Molinate	ND	Numeric		Sacramento/San Joaquin Basin Plan - Basin Plan Discharge Prohibition	2
Paraquat dichloride	3.2 ug/L	Narrative	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Toxicity Objective: USEPA IRIS Reference Dose as a drinking water level	3
Simazine	4.0 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: California Primary MCL (MUN, human health)	1
Thiobencarb	ND	Numeric		Sacramento/San Joaquin Basin Plan - Basin Plan Discharge Prohibition	2

Adminsitrative Record
Page 16510

Constituent	Water Quality Trigger Limit (WQTL)	Standard Type	Beneficial Use (BU) with most protective limit	Reference for the Trigger Limit	Category (see footnotes)
Trifluralin	5 ug/L	Narrative	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Toxicity Objective: USEPA IRIS Cancer Risk Level. One-in-a-Million Incremental Cancer Risk Estimates for Drinking Water	3
Metals (c)					
Arsenic	10 ug/L	Narrative	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: USEPA Primary MCL (MUN, human health)	1
Boron	700 ug/L	Narrative	Agricultural Supply	Water Quality for Agriculture (Ayers & Westcot)	3
Cadmium	for aquatic life; variable (see cadmium worksheet).	Numeric	Freshwater Habitat	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average - Varies with water hardness	1
	5 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: California Primary MCL (MUN, human health)	1
Copper	for aquatic life; variable (see copper worksheet).	Numeric	Freshwater Habitat	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: CTR Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average - Varies with water hardness/	1
	1,300 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: California Primary MCL (MUN, human health)	1
Lead	for aquatic life; variable (see lead worksheet).	Numeric	Freshwater Habitat	CTR Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average - varies with water hardness	1
	15 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: California Primary MCL (MUN, human health)	1
Molybdenum	15 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan - San Joaquin River, Mouth of the Merced River to Vernalis	1
	50 ug/L			Sacramento/San Joaquin Basin Plan - Salt Slough, Mud Slough (north), San Joaquin River from Sack Dam to the mouth of Merced River	
	10 ug/L	Narrative	Agricultural Supply	Water Quality for Agriculture (Ayers & Westcot)	3
	35 ug/L		Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Toxicity Objective: USEPA IRIS Reference Dose as a drinking water level.	
Nickel	For aquatic life variable (see Nickel worksheet).	Numeric	Freshwater Habitat	CTR Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average - varies with water hardness	1
	100 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: California Primary MCL (MUN, human health)	1
Selenium	50 ug/L	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: California Primary MCL (MUN, human health)	1

Adminsitrative Record
Page 16511

Constituent	Water Quality Trigger Limit (WQTL)	Standard Type	Beneficial Use (BU) with most protective limit	Reference for the Trigger Limit	Category (see footnotes)
	5 ug/L (4-day average)	Numeric	Freshwater Habitat	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: NTR Freshwater Aquatic Life Protection - Continuous Concentration - 4-Day Average	
Zinc	For aquatic life variable (see Zinc worksheet).	Numeric	Freshwater Habitat	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average - varies with water hardness/	1
Nutrients					
Nitrate as NO3 Nitrate as N	45,000 ug/L as NO3 10,000 ug/L as N	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: California Primary MCL	1
Nitrite as Nitrogen	1,000 ug/L as N	Numeric	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Chemical Constituents Objective: California Primary MCL	1
Ammonia	For aquatic life variable (see ammonia worksheet).	Narrative	Freshwater Habitat	Sacramento/San Joaquin Basin Plan Toxicity Objective: USEPA Freshwater Aquatic Life Criteria, Continuous Concentration	3
	1.5 mg/L (regardless of pH and Temperature values)	Narrative	Municipal and Domestic Supply	Sacramento/San Joaquin Basin Plan Toxicity Objective: Taste and Odor Threshold (Ammore and Hautala)	3
Hardness	NA				
Phosphorus, total	NA				
Orthophosphate, soluble	NA				
TKN	NA				

Category 1: Constituents that have numeric water quality objectives in the Sac-SJR Basin Plan or other WQO listed by reference such as MCLs (Page III-3.0)* , CTRs (Page III-10.1)*,

Category 2: Pesticides with discharge prohibitions. Prohibitions apply to any discharges not subject to board-approved management practices (Page IV-25.0)*.

Category 3: Constituent does not have numeric WQO, and does not have a primary MCL. WQ Trigger Limit exceedance is based on implementation of narrative objective. All detections should be tracked. None are default exceedances.

MUN-Municipal and Domestic Supply

NA-Not Available. Until completion of evaluation studies and MRP Plan submittals with site specific information on beneficial uses.

ND-Non Detect

(*)-Water Quality Control Plan for the Sacramento and San Joaquin River Basins. Revised on October 2007.

-Narrative WQTLs are based on Water Quality Goals Database. Updated by Jon Marshack on July 16, 2008.

Adminsitrative Record
Page 16512

Summary of Exceedance Reports

All Exceedance Reports are included in Appendix V. If any errors occurred in the original communication, an updated report was emailed to the Regional Board; all communications regarding updates are documented in Appendix V. A summary update report was submitted to the Regional Board on June 19, 2009 containing amendments to past exceedance reports. A copy of this report can be found in Appendix V. A tally of all exceedances that occurred between October 2008 and December 2010 are listed by constituent group in Tables 30 - 34. All exceedances are tabulated by zone in Tables 36 – 41 followed by an assessment of agricultural applications of pesticides that are potential sources to the listed exceedances.

Adminsitrative Record
Page 16513

Table 30. Exceedances of WQTLs for parameters measured in the field including dissolved oxygen, specific conductivity and pH.

Field parameters under a management plan are all classified as Priority E constituents and are monitored only as a part of normal monitoring (see Management Plan submitted September 30, 2008, Prioritization of Exceedances section).

Station Name	Season	Sample Date	DO, mg/L	pH, none	SC, µS/cm
Ash Slough @ Ave 21	Irrigation2, Non Contiguous	5/19/2009	6.99		
Cottonwood Creek @ Rd 20	Irrigation2	5/19/2009	6.72		
Deadman Creek @ Gurr Rd	Winter1	1/20/2009	5.61		762
Deadman Creek @ Gurr Rd	Storm1	2/7/2009	1.01		1802
Deadman Creek @ Gurr Rd	Irrigation4	7/21/2009	6.04		
Deadman Creek @ Gurr Rd	Irrigation5	8/18/2009	6.94		
Deadman Creek @ Gurr Rd	Fall1	10/20/2009	6.08		
Deadman Creek @ Gurr Rd	Storm2, Non Contiguous	12/15/2009	5.02		995
Dry Creek @ Wellsford Rd	Fall1	10/21/2008	4.91		
Dry Creek @ Wellsford Rd	Storm3	12/16/2008	2.77	8.86	
Dry Creek @ Wellsford Rd	Winter1	1/20/2009	5.1		707
Dry Creek @ Wellsford Rd	Irrigation2	5/19/2009	6.24		
Dry Creek @ Wellsford Rd	Irrigation4, MPM	7/21/2009	5.9		
Dry Creek @ Wellsford Rd	Fall1	10/20/2009	4.04		
Dry Creek @ Wellsford Rd	Fall2	11/17/2009	3.04		
Dry Creek @ Wellsford Rd	Storm2	12/15/2009	6.65		
Dry Creek at Waterford	Irrigation4, MPM	7/21/2009	6.89		
Duck Slough @ Gurr Rd	Winter2, Non Contiguous	3/17/2009		9.7	
Duck Slough @ Gurr Rd	Irrigation6	9/22/2009		9.03	
Duck Slough @ Gurr Rd	Fall2, Non Contiguous	11/17/2009			1215
Duck Slough @ Hwy 99	Irrigation3, MPM	6/16/2009	6.78		
Highline Canal @ Hwy 99	Storm1	2/7/2009		8.86	
Highline Canal @ Hwy 99	Irrigation3	6/16/2009		8.95	
Highline Canal @ Hwy 99	Irrigation5	8/18/2009		9.03	
Highline Canal @ Hwy 99	Irrigation6	9/22/2009		8.61	
Highline Canal @ Hwy 99	Storm2, Non Contiguous	12/15/2009		8.61	
Hilmar Drain @ Central Ave	Irrigation1, MPM	4/21/2009			904
Hilmar Drain @ Central Ave	Irrigation6, MPM	9/22/2009			934
Howard Lateral @ Hwy 140	Irrigation1	4/21/2009	1.55		
Howard Lateral @ Hwy 140	Irrigation2	5/19/2009			810
Howard Lateral @ Hwy 140	Irrigation4	7/21/2009		8.88	
Howard Lateral @ Hwy 140	Irrigation5	8/18/2009		9.14	
Howard Lateral @ Hwy 140	Irrigation6	9/22/2009		9.15	
Lateral 2 1/2 near Keys Rd	Fall1	10/21/2008		9.57	
Lateral 2 1/2 near Keys Rd	Fall2	11/11/2008		9.09	
Lateral 2 1/2 near Keys Rd	Irrigation1	4/21/2009		9.2	
Lateral 2 1/2 near Keys Rd	Fall1	10/20/2009		8.68	
Merced River @ Santa Fe	Irrigation4	7/21/2009	6.12		
Merced River @ Santa Fe	Fall1	10/20/2009	4.82		

Adminsitrative Record
Page 16514

Station Name	Season	Sample Date	DO, mg/L	pH, none	SC, µS/cm
Miles Creek @ Reilly Rd	Irrigation1, MPM	4/21/2009	6.3		
Miles Creek @ Reilly Rd	Irrigation4, MPM	7/21/2009	6.45		
Miles Creek @ Reilly Rd	Irrigation5, MPM	8/18/2009	6.58		
Miles Creek @ Reilly Rd	Irrigation6, MPM	9/22/2009	6.35		
Mootz Drain @ Langworth Rd	Fall2, Non Contiguous	11/11/2008	3.55	4.32	
Mootz Drain @ Langworth Rd	Winter2, Non Contiguous	3/17/2009	4.01		
Mootz Drain @ Langworth Rd	Irrigation1	4/21/2009	3.14		
Mootz Drain @ Langworth Rd	Irrigation2	5/19/2009	4.59		
Mootz Drain @ Langworth Rd	Irrigation3	6/16/2009	5.4		
Mootz Drain @ Langworth Rd	Irrigation4	7/21/2009	2.18		
Mootz Drain @ Langworth Rd	Irrigation5	8/18/2009	4.9		
Mootz Drain @ Langworth Rd	Irrigation6	9/22/2009	5.62		
Mootz Drain @ Langworth Rd	Fall1, Non Contiguous	10/20/2009	6.35		
Mootz Drain @ Langworth Rd	Fall2, Non Contiguous	11/17/2009	4.98		
Mootz Drain Downstream of Langworth Pond	Storm2	12/15/2009	5.51		
Mustang Creek @ East Ave	Storm1	2/7/2009			704
Mustang Creek @ East Ave	Winter2, Non Contiguous	3/17/2009			1042
Mustang Creek @ East Ave	Irrigation1	4/21/2009	0.98		1433
Mustang Creek @ East Ave	Fall1, Non Contiguous	10/20/2009	2.95		870
Mustang Creek @ East Ave	Storm2	12/15/2009			892
Prairie Flower Drain @ Crows Landing Rd	Fall1	10/21/2008			1742
Prairie Flower Drain @ Crows Landing Rd	Fall2	11/11/2008			2151
Prairie Flower Drain @ Crows Landing Rd	Storm3	12/16/2008			2298
Prairie Flower Drain @ Crows Landing Rd	Winter1	1/20/2009			2414
Prairie Flower Drain @ Crows Landing Rd	Storm1	2/7/2009			2255
Prairie Flower Drain @ Crows Landing Rd	Winter2	3/17/2009		8.74	2394
Prairie Flower Drain @ Crows Landing Rd	Irrigation1, MPM	4/21/2009			2223
Prairie Flower Drain @ Crows Landing Rd	Irrigation2, MPM	5/19/2009	4.78		2066
Prairie Flower Drain @ Crows Landing Rd	Irrigation3	6/16/2009			2417
Prairie Flower Drain @ Crows Landing Rd	Irrigation4	7/21/2009			1366
Prairie Flower Drain @ Crows Landing Rd	Irrigation5, MPM	8/18/2009			1984
Prairie Flower Drain @ Crows Landing Rd	Irrigation6	9/22/2009			2171
Prairie Flower Drain @ Crows Landing Rd	Fall1	10/20/2009			2459
Prairie Flower Drain @ Crows Landing Rd	Fall2	11/17/2009			2415
Prairie Flower Drain @ Crows Landing Rd	Storm2	12/15/2009			2695
Environmental Exceedances			**24**	**14**	**19**
Non Contiguous Water Body Exceedances			**7**	**3**	**4**
Management Plan Monitoring Exceedances[1]			**8**	**0**	**5**
TOTAL Exceedances			**39**	**17**	**28**

MPM – Management Plan Monitoring

[1]Refers to sites sampled for only MP monitoring that experienced a field exceedance.

Table 31. Exceedances of WQTLs for E. coli, nutrients, metals and physical parameters (sorted by Station Name and Sample Date).

If a field duplicate and an environmental sample both have an exceedance, only the environmental sample exceedance is included in this table. If there is an exceedance in the field duplicate sample and not the environmental sample, this field duplicate result is included and is noted by (FD) at the end of the station name. Physical parameters under a management plan that are classified as Priority E constituents are monitored only as a part of normal monitoring and not counted toward Management Plan Monitoring Exceedances (see Management Plan submitted September 30, 2008, Prioritization of Exceedances section).

Station Name[1]	Season	Sample Date	*E. coli*, MPN/100 mL	Total Dissolved Solids, mg/L	Ammonia, mg/L	Nitrate as N, mg/L	Arsenic[2], µg/L	Copper[3], µg/L
Ash Slough @ Ave 21	Irrigation2, Non Contiguous	5/19/2009						3 (2.17)
Cottonwood Creek @ Rd 20	Storm1, Non Contiguous	2/7/2009	>2400					
Cottonwood Creek @ Rd 20	Fall2	11/17/2009	770					
Deadman Creek @ Gurr Rd	Fall1	10/21/2008	1400				12	
Deadman Creek @ Gurr Rd	Fall2	11/11/2008	370				14	
Deadman Creek @ Gurr Rd	Storm3	12/16/2008	1400					
Deadman Creek @ Gurr Rd	Winter1	1/20/2009	>2400	470	5.5		18	
Deadman Creek @ Gurr Rd	Storm1	2/7/2009	>2400	1100	50		30	
Deadman Creek @ Gurr Rd	Winter2	3/17/2009	1600				14	
Deadman Creek @ Gurr Rd	Irrigation2	5/19/2009	490					
Deadman Creek @ Gurr Rd	Irrigation3	6/16/2009	730					
Deadman Creek @ Gurr Rd	Irrigation4	7/21/2009	460					
Deadman Creek @ Gurr Rd	Fall1	10/20/2009	490					
Deadman Creek @ Gurr Rd	Fall2, Non Contiguous	11/17/2009	2000					
Deadman Creek @ Gurr Rd	Storm2, Non Contiguous	12/15/2009	>2400	610	15			
Dry Creek @ Wellsford Rd	Fall1	10/21/2008	550					
Dry Creek @ Wellsford Rd	Winter2	3/17/2009	250					
Dry Creek @ Wellsford Rd	Irrigation2	5/19/2009	260					
Dry Creek @ Wellsford Rd	Irrigation3	6/16/2009	1600					
Dry Creek @ Wellsford Rd	Irrigation4, MPM	7/21/2009	270					
Dry Creek @ Wellsford Rd	Irrigation5, MPM	8/18/2009	410					
Dry Creek @ Wellsford Rd	Fall1	10/20/2009	490					
Dry Creek @ Wellsford Rd	Fall2	11/17/2009	730					

Adminsitrative Record
Page 16516

Station Name[1]	Season	Sample Date	*E. coli*, MPN/100 mL	Total Dissolved Solids, mg/L	Ammonia, mg/L	Nitrate as N, mg/L	Arsenic[2], µg/L	Copper[3], µg/L
Dry Creek @ Wellsford Rd	Storm2	12/15/2009	820					
Duck Slough @ Gurr Rd	Storm1	2/7/2009				13		
Duck Slough @ Gurr Rd	Irrigation2	5/19/2009	>2400					7.3 (6.12)
Duck Slough @ Gurr Rd	Fall2, Non Contiguous	11/17/2009	340					
Duck Slough @ Gurr Rd	Storm2	12/15/2009	>2400					
Highline Canal @ Hwy 99	Irrigation2, MPM	5/19/2009	340					
Howard Lateral @ Hwy 140	Irrigation2	5/19/2009		530		13		
Howard Lateral @ Hwy 140	Irrigation6	9/22/2009	330					
Howard Lateral @ Hwy 140	Fall1	10/20/2009	240					3.3 (1.57)
Lateral 2 1/2 near Keys Rd	Fall1	10/21/2008	280					
Lateral 2 1/2 near Keys Rd	Fall2	11/11/2008	370		0.65			
Lateral 2 1/2 near Keys Rd	Irrigation1	4/21/2009	>2400					
Lateral 2 1/2 near Keys Rd	Irrigation2	5/19/2009	>2400					
Lateral 2 1/2 near Keys Rd	Irrigation3	6/16/2009	370					
Lateral 2 1/2 near Keys Rd	Irrigation4	7/21/2009	1600					
Lateral 2 1/2 near Keys Rd	Irrigation5	8/18/2009	>2400			15		
Lateral 2 1/2 near Keys Rd	Irrigation6	9/22/2009	1700					
Mootz Drain @ Langworth Rd	Storm3, Non Contiguous	12/16/2008	>2400					
Mootz Drain @ Langworth Rd	Irrigation1	4/21/2009	>2400					
Mootz Drain @ Langworth Rd	Irrigation2	5/19/2009	>2400					
Mootz Drain @ Langworth Rd	Irrigation3	6/16/2009	390					
Mootz Drain @ Langworth Rd	Irrigation4	7/21/2009	2000					
Mootz Drain @ Langworth Rd	Irrigation5	8/18/2009	>2400					
Mootz Drain @ Langworth Rd	Irrigation6	9/22/2009	1700					
Mootz Drain @ Langworth Rd	Fall1, Non Contiguous	10/20/2009	240					
Mootz Drain @ Langworth Rd	Fall2, Non Contiguous	11/17/2009	>2400		2.1			
Mootz Drain Downstream of Langworth Pond	Storm2	12/15/2009	>2400					
Mustang Creek @ East Ave	Storm1	2/7/2009		560		12		25 (20.93)
Mustang Creek @ East Ave	Winter2, Non Contiguous	3/17/2009		710		33		
Mustang Creek @ East Ave	Fall1, Non Contiguous	10/20/2009	250	670	2.3			44 (24.20)

Adminsitrative Record
Page 16517

Station Name[1]	Season	Sample Date	*E. coli*, MPN/100 mL	Total Dissolved Solids, mg/L	Ammonia, mg/L	Nitrate as N, mg/L	Arsenic[2], µg/L	Copper[3], µg/L
Mustang Creek @ East Ave	Storm2	12/15/2009						25 (22.90)
Prairie Flower Drain @ Crows Landing Rd	Fall1	10/21/2008	370	1100		27		
Prairie Flower Drain @ Crows Landing Rd	Fall2	11/11/2008		1500		39		
Prairie Flower Drain @ Crows Landing Rd	Storm3	12/16/2008	1300	2900		40		
Prairie Flower Drain @ Crows Landing Rd	Winter1	1/20/2009		1500		43		
Prairie Flower Drain @ Crows Landing Rd	Storm1	2/7/2009		1300		31		
Prairie Flower Drain @ Crows Landing Rd	Winter2	3/17/2009		1400		34		
Prairie Flower Drain @ Crows Landing Rd	Irrigation1, MPM	4/21/2009	410	1400		24		
Prairie Flower Drain @ Crows Landing Rd	Irrigation2, MPM	5/19/2009	>2400	1200	3.2	20		
Prairie Flower Drain @ Crows Landing Rd	Irrigation3	6/16/2009		1400	1.3	22		
Prairie Flower Drain @ Crows Landing Rd	Irrigation4	7/21/2009		820	1.8	14		
Prairie Flower Drain @ Crows Landing Rd	Irrigation5, MPM	8/18/2009		1200		22		
Prairie Flower Drain @ Crows Landing Rd	Irrigation6	9/22/2009	1300	1400		35		
Prairie Flower Drain @ Crows Landing Rd	Fall1	10/20/2009	1300	1400		25		
Prairie Flower Drain @ Crows Landing Rd	Fall2	11/17/2009	>2400	1500	8.8	36		
Prairie Flower Drain @ Crows Landing Rd	Storm2	12/15/2009	2000	1600		36		
Environmental Exceedances			**48**	**19**	**7**	**19**	**5**	**4**
Non Contiguous Water Body Exceedances			**8**	**3**	**3**	**1**	**0**	**2**
Management Plan Monitoring Exceedances[4]			**0**	**0**	**0**	**0**	**0**	**0**
TOTAL Exceedances			**56**	**22**	**10**	**20**	**5**	**6**

MPM – Management Plan Monitoring FD – Field Duplicate

[1] A field duplicate with the same exceedance as its associated environmental sample is not recorded as a part of the exceedance counts.

[2] Arsenic was omitted from normal monitoring in May 2009 (see Monitoring Objectives section).

[3] If copper exceedance is the dissolved fraction of copper, the limit based on hardness is shown in parenthesis.

[4] Refers to monitoring for high priority Management Plan constituents at Assessment, Core or Management Plan Monitoring locations.

Adminsitrative Record
Page 16518

Table 32. Exceedances of WQTLs for pesticides.

If a field duplicate and an environmental sample both have an exceedance, only the environmental sample exceedance is included in this table. If there is an exceedance in the field duplicate sample and not the environmental sample, this field duplicate result is included and is noted by (FD) at the end of the station name.

Station Name[1]	Season	Sample Date	Chlorpyrifos, µg/L	Diuron, µg/L	DDE[2], µg/L	HCH[3], alpha, µg/L	HCH[3], delta, µg/L
Dry Creek @ Wellsford Rd	Irrigation4, MPM	8/18/2009	0.027				
Highline Canal @ Hwy 99	Irrigation4, MPM	7/21/2009	0.093				
Lateral 2 1/2 near Keys Rd	Fall2	11/11/2008				0.013	
Lateral 2 1/2 near Keys Rd	Irrigation4	7/21/2009	0.049				
Merced River @ Santa Fe	Fall2	11/11/2008	0.1				0.051
Miles Creek @ Reilly Rd	Irrigation4, MPM	7/21/2009	0.028				
Mootz Drain @ Langworth Rd	Storm3, Non Contiguous	12/16/2008	0.017				
Mootz Drain @ Langworth Rd	Storm1, Non Contiguous	2/7/2009		2.1			
Mootz Drain @ Langworth Rd	Irrigation3	6/16/2009	0.033				
Mustang Creek @ East Ave	Storm2	12/15/2009			0.022		
Environmental Exceedances			**3**	**0**	**1**	**1**	**1**
Non Contiguous Water Body Exceedances			**1**	**1**	**0**	**0**	**0**
Management Plan Monitoring Exceedances[4]			**3**	**0**	**0**	**0**	**0**
TOTAL Exceedances			**7**	**1**	**1**	**1**	**1**

MPM – Management Plan Monitoring
FD – Field Duplicate
[1] A field duplicate with the same exceedance as its associated environmental sample is not recorded as a part of the exceedance counts.
[2] DDE-Dichlorodiphenyldichloroethylene
[3] HCH – Hexachlorocyclohexane, results compared to the WQTL for total HCH.
[4] Refers to monitoring for high priority Management Plan constituents at Assessment, Core or Management Plan Monitoring locations.

Adminsitrative Record
Page 16519

Table 33. Water column and sediment toxicity exceedance summary.

If a field duplicate and an environmental sample both have an exceedance, only the environmental sample exceedance is included in this table. If there is an exceedance in the field duplicate sample and not the environmental sample, this field duplicate result is included and is noted by (FD) at the end of the station name.

Station Name	Season	Sample Date	Species	Toxicity End Point	Mean	Percent Control	Toxicity Significance	Summary Comments
Deadman Creek @ Gurr Rd	Winter1	1/20/2009	*Pimephales promelas*	Survival (%)	87.5	87.5	SG	
Deadman Creek @ Gurr Rd	Storm1	2/7/2009	*Ceriodaphnia dubia*	Survival (%)	0	0	SL	Complete mortality on Day 1. TIE initiated on 02/17/09 and it was concluded that ammonia was the cause of toxicity.
Deadman Creek @ Gurr Rd	Storm1	2/7/2009	*Pimephales promelas*	Survival (%)	0	0	SL	Due to low and unstable DO, the sample was aerated throughout test. Complete mortality on Day 1. TIE initiated on 02/17/09 and it was concluded that ammonia was the cause of toxicity.
Deadman Creek @ Gurr Rd	Storm1	2/7/2009	*Selenastrum capricornutum*	Total Cell Count	60069	7.0	SL	TIE initiated on 02/17/09 and it was concluded that ammonia was the cause of toxicity.
Deadman Creek @ Gurr Rd	Winter2	3/17/2009	*Ceriodaphnia dubia*	Survival (%)	10	10	SL	TIE initiated on 3/25/09 and it was concluded that pyrethroids were the cause of toxicity.
Deadman Creek @ Gurr Rd	Storm2, Non contiguous	12/15/2009	*Pimephales promelas*	Survival (%)	75	75	SL	
Howard Lateral @ Hwy 140	Irrigation2	5/19/2009	*Selenastrum capricornutum*	Total Cell Count	631526	77	SL	
Lateral 2 1/2 near Keys Rd	Irrigation1, Sediment	4/21/2009	*Hyalella azteca*	Survival (%)	74	90	SG	
Lateral 2 1/2 near Keys Rd	Irr2	5/19/2009	*Selenastrum capricornutum*	Total Cell Count	501266	56	SL	
Mootz Drain @ Langworth Rd	Storm1, Non contiguous	2/7/2009	*Selenastrum capricornutum*	Total Cell Count	605474	70.9	SL	
Prairie Flower Drain @ Crows Landing Rd	Irrigation2, MPM	5/19/2009	*Selenastrum capricornutum*	Total Cell Count	266798	30	SL	TIE initiated on 5/27/09 and it was concluded that cationic chemical(s) and ammonia were the cause of toxicity.

MPM – Management Plan Monitoring FD – Field Duplicate SG-Statistically significantly different from control; Greater than 80% threshold SL-Statistically significantly different from control; Less than 80% threshold

Adminsitrative Record
Page 16520

Table 34. Water column and sediment toxicity exceedance counts.

Monitoring Type	*C. dubia*	*P. promelas*	*S. capricornutum*	*H. azteca*
Environmental Exceedances	2	2	3	1
Non Contiguous Water Body Environmental Exceedances	0	1	1	0
Management Plan Monitoring Exceedances[1]	0	0	1	0
Total	**2**	**3**	**5**	**1**

[1]Refers to monitoring for high priority Management Plan constituents at Assessment, Core or Management Plan Monitoring locations.

Adminsitrative Record
Page 16521

Discussion of Exceedances

Pesticide Use Report Data

Pesticide Use Report (PUR) data are provided to the Coalition from each of the county Agricultural Commissioner's offices and are evaluated for applications relevant to WQTL exceedances. To assess sources toxicity not associated with exceedances of chemical WQTLs, applications of pesticides known to be toxic to the test species are identified based on a variety of factors including the organic carbon partition coefficient (K_{oc}), chemical type, mode of action and solubility. If sediment toxicity occurs then pesticides with a relatively high K_{oc} (1600 or greater) are considered relevant. If water toxicity occurs then pesticides with a relatively low K_{oc} (below 1900) are evaluated. Most pesticides are queried for applications within 30 days prior to water sampling. Pyrethroid pesticides, due to their long half-life, are queried for applications made for a period of 180 days prior to the date of the exceedance, and metals are queried for a period of 90 days prior to the exceedance (Table 35). If there were no applications within the specified time period, the PUR database was queried for applications an additional 30 days prior to the standard query period. Appendix IV includes tables and maps of all pesticide applications that are relevant to WQTL exceedances or toxicity. If the PUR data for any county were unattainable at the time of this report, a note was made in Appendix IV. Information regarding obtained and outstanding PUR is included in Table 28 in the Discussion of Results section of this report. Any outstanding PUR will be submitted in an addendum to the AMR on June 30, 2010.

Aldrin, dieldrin, endrin, HCH, DDT and DDE exceedances are not queried since there are no registered products that contain these chemicals.

Table 35. Pesticide use data collected for exceedances reported.

Exceedance Type	Pesticides Use Data Collected
Pesticides	1 month
Metals	3 months
Sediment Toxicity	3 months with 6 months for pyrethroids
Water Column Toxicity	1 months with 6 months for pyrethroids 3 months for metals

Tables 36 - 41 provide details on all exceedances in each Coalition Zone that occurred between October 2008 and December 2009. The following section discusses possible sources of WQTL exceedances that are due to pesticide applications. All exceedances are included in the Tables 36 - 41 as reference when discussing possible sources and contributing factors. PUR data relevant to pesticide exceedances and toxicity are discussed based on the pounds of active

Adminsitrative Record
Page 16522

ingredient applied upstream of the sampling site. Measures taken to address these exceedances are described in the section Actions Taken to Address Water Quality Exceedances.

Adminsitrative Record
Page 16523

Table 36. Zone 1 (Dry Creek @ Wellsford Rd, Dry Creek @ Waterford Rd, Mootz Drain @ Langworth Rd, Mootz Drain downstream of Langworth Pond) Exceedances.

Zone	Station Name	Sample Type Code	Sample Date	DO, mg/L	pH, none	SC, µS/cm	Ammonia as N, mg/L	*E. coli*, MPN/100 mL	Chlorpyrifos, µg/L	Diuron, µg/L	*S. capricornutum*, % Control
Zone 1	Dry Creek @ Wellsford Rd	NM	10/21/2008	4.91				550			
Zone 1	Dry Creek @ Wellsford Rd	NM	12/16/2008	2.77	8.86						
Zone 1	Dry Creek @ Wellsford Rd	NM	1/20/2009	5.1		707					
Zone 1	Dry Creek @ Wellsford Rd	NM	3/17/2009					250			
Zone 1	Dry Creek @ Wellsford Rd	NM	5/19/2009	6.24				260			
Zone 1	Dry Creek @ Wellsford Rd	NM	6/16/2009					1600			
Zone 1	Dry Creek @ Wellsford Rd	MPM	7/21/2009	5.9				270			
Zone 1	Dry Creek @ Wellsford Rd	MPM	8/18/2009					410	0.027		
Zone 1	Dry Creek @ Wellsford Rd	NM	10/20/2009	4.04				490			
Zone 1	Dry Creek @ Wellsford Rd	NM	11/17/2009	3.04				730			
Zone 1	Dry Creek @ Wellsford Rd	NM	12/15/2009	6.65				820			
Zone 1	Dry Creek @ Waterford	MPM	7/21/2009	6.89							
Zone 1	Mootz Drain @ Langworth Rd	NM	11/11/2008	3.55	4.32						
Zone 1	Mootz Drain @ Langworth Rd	NM	12/16/2008					2400	0.017		
Zone 1	Mootz Drain @ Langworth Rd	FD	2/7/2009							2.1	72
Zone 1	Mootz Drain @ Langworth Rd	NM	2/7/2009							2.1	71
Zone 1	Mootz Drain @ Langworth Rd	NM	3/17/2009	4.01							
Zone 1	Mootz Drain @ Langworth Rd	FD, Sediment	4/21/2009					2400			
Zone 1	Mootz Drain @ Langworth Rd	NM, Sediment	4/21/2009	3.14				2400			
Zone 1	Mootz Drain @ Langworth Rd	FD	5/19/2009					2400			
Zone 1	Mootz Drain @ Langworth Rd	NM	5/19/2009	4.59				2400			
Zone 1	Mootz Drain @ Langworth Rd	FD	6/16/2009					370	0.066		

Adminsitrative Record
Page 16524

Zone	Station Name	Sample Type Code	Sample Date	DO, mg/L	pH, none	SC, µS/cm	Ammonia as N, mg/L	*E. coli*, MPN/100 mL	Chlorpyrifos, µg/L	Diuron, µg/L	*S. capricornutum*, % Control
Zone 1	Mootz Drain @ Langworth Rd	NM	6/16/2009	5.4				390	0.033		
Zone 1	Mootz Drain @ Langworth Rd	FD	7/21/2009					1600			
Zone 1	Mootz Drain @ Langworth Rd	NM	7/21/2009	2.18				2000			
Zone 1	Mootz Drain @ Langworth Rd	FD, Sediment	8/18/2009					>2400			
Zone 1	Mootz Drain @ Langworth Rd	NM, Sediment	8/18/2009	4.9				>2400			
Zone 1	Mootz Drain @ Langworth Rd	FD	9/22/2009					1700			
Zone 1	Mootz Drain @ Langworth Rd	NM	9/22/2009	5.62				1700			
Zone 1	Mootz Drain @ Langworth Rd	NM	10/20/2009	6.35				240			
Zone 1	Mootz Drain @ Langworth Rd	FD	11/17/2009				5	>2400			
Zone 1	Mootz Drain @ Langworth Rd	NM	11/17/2009	4.98			2.1	>2400			
Zone 1	Mootz Drain Downstream of Langworth Pond	NM	12/15/2009	5.51				>2400			

FD – field duplicate
NM-Normal Monitoring
MPM-Management Plan Monitoring
DO-Dissolved Oxygen
SC-Specific Conductance

Adminsitrative Record
Page 16525

Ammonia

Ammonium can enter a water body through two sources, direct discharge from agricultural fertilizers or animal waste, or from discharges from waste water treatment plants. In soils, ammonia from fertilizers is typically converted to nitrite and then to nitrate over a short period of time. Therefore, discharge of fertilizer would have to be immediate to detect ammonium in the receiving water body. Ammonium can also be created in the water body through the mineralization of organic nitrogen. Previous exceedances of the ammonium WQTL have been attributed to discharge from dairies. Past toxicity analyses have resulted in toxicity that was attributed to ammonium. Zone 1 (Table 36) had two exceedances for both the field duplicate and the environmental sample of ammonium at Mootz Drain @ Langworth Rd during the November 17, 2009 sampling event.

Chlorpyrifos

Chlorpyrifos is an organophosphate pesticide applied for pest control on alfalfa, grapes, and orchards, among other crops in California. In a water body, chlorpyrifos can both bind to sediment and remain in the water column (K_{oc} of 6070). The LC_{50} for chlorpyrifos to *Ceriodaphnia* is 0.055 µg/L. Exceedances of chlorpyrifos occurred at two sites in Zone 1 (Table 36). A chlorpyrifos exceedance at Mootz Drain @ Langworth Rd (0.017 µg/L) occurred in samples collected on December 16, 2008 with no associated toxicity in the water column. There were no reported applications of chlorpyrifos upstream of Mootz Drain in the months prior to sampling. There were chlorpyrifos exceedances in the grab sample (0.033µg/L) and the field duplicate (0.066 µg/L) collected at Mootz Drain @ Langworth Rd on June 16, 2009. There was no toxicity associated with these exceedances. No reported applications of chlorpyrifos upstream of Mootz Drain were associated with this exceedance. Management Plan Monitoring for chlorpyrifos in samples collected on August 18, 2009 at Dry Creek @ Wellsford Rd did have a chlorpyrifos exceedance (0.027 µg/L). PUR data reports (Appendix IV) indicate that between July 22 and July 28, 2009 35 gallons of chlorpyrifos were applied to 75 acres of almonds. Between July 27 and August 18, 2009 there were 18.25 gallons of Lorsban applied to 97.5 acres of walnuts and 12.5 gallons of Warhawk were applied to 120 acres of corn. There was no toxicity associated with this exceedance.

Diuron

Diuron is a broad-spectrum herbicide used for weed control on agriculture and on highway shoulders. It acts by inhibiting photosynthesis and can also affect seed germination. Diuron has a half-life (in soil) of about 90 days and is relatively mobile. It inhibits growth of *Selenastrum* with an EC_{50} of 2.4 µg/L. Samples collected from Mootz Drain on February 7, 2009 contained 2.1 µg/L of diuron. No applications of diuron were reported (Appendix IV).

Adminsitrative Record
Page 16526

Toxicity

The concentration of diuron detected in water samples collected from Mootz Drain (2.1 µg/L) during the first 2009 storm sampling event is enough to account for the *Selenastrum* toxicity (NM-71%, and FD-72% cell count relative to control) that occurred in the February samples. These were the only toxic samples collected in Zone 1 (Table 36) between October 2008 and December 2009. PUR data (Appendix IV) indicates that on January 29, 2009 110 acres of almonds were treated with 44 quarts of Orchard Star (Dimethylamine Salt) and 66 quarts of Buccaneer Glyphosate Herbicide (Glyphosate Isopropylamine Salt).

Adminsitrative Record
Page 16527

Table 37. Zone 2 (Hilmar Drain @ Central Ave, Lateral 2 ½ near Keyes Rd, Prairie Flower Drain @ Crows Landing Rd) Exceedances.

Zone	Station Name	Sample Type Code	Sample Date	DO, mg/L	pH, none	SC, µS/cm	Ammonia as N, mg/L	Total Dissolved Solids, mg/L	*E. coli*, MPN/100 mL	Nitrate + Nitrite as N, mg/L	Chlorpyrifos, µg/L	HCH, alpha , µg/L	*H. azteca*, % Control	*S. capricornutum*, % Control
Zone 2	Hilmar Drain @ Central Ave	MPM	4/21/2009			904								
Zone 2	Hilmar Drain @ Central Ave	MPM	9/22/2009			934								
Zone 2	Lateral 2 1/2 near Keys Rd	NM	10/21/2008		9.57				280					
Zone 2	Lateral 2 1/2 near Keys Rd	FD	11/11/2008						310			0.016		
Zone 2	Lateral 2 1/2 near Keys Rd	NM	11/11/2008		9.09		0.65		370			0.013		
Zone 2	Lateral 2 1/2 near Keys Rd	NM, Sediment	4/21/2009		9.2								90	
Zone 2	Lateral 2 1/2 near Keys Rd	NM	5/19/2009											56
Zone 2	Lateral 2 1/2 near Keys Rd	NM	7/21/2009								0.049			
Zone 2	Lateral 2 1/2 near Keys Rd	NM, Sediment	8/18/2009							15				
Zone 2	Lateral 2 1/2 near Keys Rd	NM	10/20/2009		8.68									
Zone 2	Prairie Flower Drain @ Crows Landing Rd	NM	10/21/2008			1742		1100	370	27				
Zone 2	Prairie Flower Drain @ Crows Landing Rd	NM	11/11/2008			2151		1500		39				
Zone 2	Prairie Flower Drain @ Crows Landing Rd	NM	12/16/2008			2298		2900	1300	40				
Zone 2	Prairie Flower Drain @ Crows Landing Rd	NM	1/20/2009			2414		1500		43				
Zone 2	Prairie Flower Drain @ Crows Landing Rd	NM	2/7/2009			2255		1300		31				
Zone 2	Prairie Flower Drain @ Crows Landing Rd	NM	3/17/2009		8.74	2394		1400		34				
Zone 2	Prairie Flower Drain @ Crows Landing Rd	MPM	4/21/2009			2223		1400	410	24				
Zone 2	Prairie Flower Drain @ Crows Landing Rd	MPM	5/19/2009	4.78		2066	3.2	1200	2400	20				30
Zone 2	Prairie Flower Drain @ Crows Landing Rd	NM	6/16/2009			2417	1.3	1400		22				
Zone 2	Prairie Flower Drain @ Crows Landing Rd	NM	7/21/2009			1366	1.8	820		14				

Adminsitrative Record
Page 16528

Zone	Station Name	Sample Type Code	Sample Date	DO, mg/L	pH, none	SC, µS/cm	Ammonia as N, mg/L	Total Dissolved Solids, mg/L	*E. coli*, MPN/100 mL	Nitrate + Nitrite as N, mg/L	Chlorpyrifos, µg/L	HCH, alpha , µg/L	*H. azteca*, % Control	*S. capricornutum*, % Control
Zone 2	Prairie Flower Drain @ Crows Landing Rd	MPM	8/18/2009			1984		1200		22				
Zone 2	Prairie Flower Drain @ Crows Landing Rd	NM	9/22/2009			2171		1400	1300	35				
Zone 2	Prairie Flower Drain @ Crows Landing Rd	NM	10/20/2009			2459		1400	1300	25				
Zone 2	Prairie Flower Drain @ Crows Landing Rd	NM	11/17/2009			2415	8.8	1500	>2400	36				
Zone 2	Prairie Flower Drain @ Crows Landing Rd	NM	12/15/2009			2695		1600	2000	36				

HCH – Hexachlorocyclohexane
NM-Normal Monitoring
MPM-Management Plan Monitoring
DO-Dissolved Oxygen
SC-Specific Conductance

Adminsitrative Record
Page 16529

Ammonia

Ammonium exceedances occurred once in Zone 2 (Table 37) at Lateral 2 ½ near Keyes Rd (0.65 mg/L) in November 2008, and four times at the Prairie Flower Drain site; May, June, July, and November. The greatest concentrations occurred in November and were associated with elevated levels of TDS, *E. coli*, and nitrate. Previous exceedances of the ammonia WQTL have been attributed to discharge from dairies and the exceedances in 2009 are also likely due to diaries.

Nitrates

Potential sources of nitrate in surface waters include runoff of fertilizers or organic matter from irrigated pasture, leaking septic systems, waste-treatment facility effluent, and inputs from animal waste. These sources can move to surface waters through above ground runoff or shallow subsurface flows. Animal waste that enters surface waters can be converted to nitrate by nitrifying bacteria. Possible sources of animal waste in a water body include dairies, poultry operations, pasture and/or wildlife. From years of movement of nitrate from dairies into ground water, there is a significant amount of nitrate in the aquifers beneath the Coalition region. Many of these aquifers are very shallow and many of the drains in the western portion of the Coalition were constructed in the 1800s to lower the water table and allow farming. More recently, tile drains have been placed in some areas of the Coalition, and these further remove shallow ground water from the subsurface and move it to surface drainages. As a result, nitrate from dairies may now intercepted by the field and surface drains resulting in consistent exceedances of the nitrate WQTL. Because of its extreme solubility, it is likely that any applications of nitrate fertilizers would result in immediate runoff to surface waters and it is unlikely that applications in the spring would result in exceedances of the WQTL throughout the irrigation season. In Zone 2 (Table 37), one exceedance of nitrate occurred in Zone 2 at Lateral 2 ½ near Keyes Rd (15 mg/L), and 15 nitrate exceedances occurred at Prairie Flower Drain @ Crows Landing Rd between October 2008 and December 2009.

Chlorpyrifos

One exceedance of chlorpyrifos occurred in Zone 2 (Table 37) at Lateral 2 ½ near Keyes Rd (0.049 µg/L) in samples collected on July 21, 2009. This sample did not cause toxicity. Between June 24 and July 21, 2009 11 gallons of chlorpyrifos were applied to 44 acres of alfalfa, 196 gallons of chlorpyrifos were applied to 517.5 acres of almonds, 95.81 gallons of chlorpyrifos were applied to 408 acres of corn, and 681.5 gallons of chlorpyrifos were applied to 1379.10 acres of walnut. See Appendix IV to review PUR data.

Hexachlorocyclohexane

Hexachlorocyclohexane (lindane) is an organochlorine insecticide that is not currently registered for agricultural use. Lindane was used in the past as a pesticide and a pharmaceutical treatment for lice and scabies. Isomers of lindane include alpha-HCH, beta-HCH

Adminsitrative Record
Page 16530

and delta-HCH. Lindane is not produced in the US (since 1970), but has been imported from other nations. In 2006 US EPA called for a voluntary withdraw of all agricultural uses of Lindane. Lindane is still used for its pharmaceutical application but has been banned for use on agriculture in the US. All products containing Lindane are currently banned in California. Detections of the lindane isomers alpha-HCH and delta-HCH are a result of past use and cannot be attributed to current agricultural practices. Zone 2 (Table 37) samples from Lateral 2 ½ near Keyes Rd contained HCH in the grab (0.013 µg/L) and field duplicate (0.016 µg/L) on November 11, 2008.

Toxicity

There were a total of three toxic samples collected from Zone 2 (Table 37) between October 2008 and December 2009. Sediment samples collected from Lateral 2 ½ near Keyes Road on April 21, 2009 tested toxic to *Hyalella*. Because survival was 90 percent relative to the control these samples did not undergo chemical analysis and therefore the chemical responsible for the toxicity is unknown. There were no exceedances of any pesticides or metals in the water samples collected at this site on this date. PUR data specified that pesticide applications occurred during the months of January-April 2009. PUR data (Appendix IV) indicate applications of cypermethrin, bifenthrin, cyfluthrin, fenpropathrin and permethrin were applied in between January 6 and April 15 2009 to a total of 2765 acres of alfalfa, almond, apple, tree, greenhouse plant, and peaches.

Lateral 2 ½ near Keyes Road had toxic water samples resulting 56 percent growth compared to the control for *Selenastrum* during the second irrigation monitoring event on May 19, 2009. This was the first *Selenastrum* toxicity to occur at this site. There were no pesticide or metal exceedances associated with this toxicity. The reduction in growth was not below 50 percent so a TIE was not initiated. There were 674 applications of pesticides that upstream of Lateral 2 ½ near Keyes Rd that occurred between February 24 and May 19, 2009. Since there were no other exceedances detected in the water column during this sampling event, it is likely that a constituent that was not analyzed for in the water chemistry samples could have caused the toxicity. The active ingredients in the pesticide applications reported in PUR data include; 2,4-D, dimethylamine salt, clethodim, copper hydroxide, copper oxide (ous), copper sulfate (basic copper), diflubenzuron, flumioxazin, glufosinate-ammonium, glyphosate, glyphosate isopropylamine salt, glyphosate potassium salt, mancozeb, maneb, metam-sodium, nonflurazon, oryzalin, oxyfluorfen, paraquat dichloride, pendimethalin, sethoxydim, simazine, S-metolachlor, and trifluralin which were applied to a total of 16,127 acres of almond, apricot, dried bean, cherry, corn, grape, wine grape, kiwi, nectarine, greenhouse plant, vine, peach, plum, sweet potato, and walnuts. For PUR data, see Appendix IV.

A sample from Prairie Flower Drain @ Crows Landing Rd tested toxic to *Selenastrum* during the Management Plan Monitoring event for *Selenastrum* on May 19, 2009. The sample collected

on this date resulted in 30 percent growth compared to the control. These results were below 50 percent so a TIE was initiated and can be found in the Toxicity Identification Evaluation Report (Appendix VI). The TIE indicated the cause of toxicity was most likely cationic metals and ammonia. An exceedance of 3.2 mg/L of ammonia was identified in the samples and the lab confirmed a detection of 3.1 mg/L of ammonia in the samples. The role of the cationic metals could not be determined in these samples given that they were not analyzed for metals. Other exceedances experienced during this event were: DO (4.78 mg/L), SC (2066 µS/cm), *E. coli* (>2400 MPN/100ml), TDS (1200 mg/L), ammonia (3.20 mg/L), and nitrate (20 mg/L). PUR data (Appendix IV) indicate that applications of trifluralin, clethodim, diglycolamine salt of 3,6-dichloro-o-anisic acid, and glyphosate isopropylamine salt were applied to 521 acres of alfalfa and corn between April 25, and May 15, 2009.

Adminsitrative Record
Page 16532

Table 38. Zone 3 (Highline Canal @ Hwy 99, Mustang Creek @ East Ave) Exceedances.

Zone	Station Name	Sample Type Code	Sample Date	DO, mg/L	pH, none	SC, µS/cm	Ammonia as N, mg/L	Total Dissolved Solids, mg/L	*E. coli*, MPN/100 mL, None	Nitrate + Nitrite as N, mg/L	Copper Dissolved, µg/L	Chlorpyrifos, µg/L	DDE(p,p'), µg/L
Zone 3	Highline Canal @ Hwy 99	NM	2/7/2009		8.86								
Zone 3	Highline Canal @ Hwy 99	MPM	5/19/2009						340				
Zone 3	Highline Canal @ Hwy 99	NM	6/16/2009		8.95								
Zone 3	Highline Canal @ Hwy 99	MPM	7/21/2009									0.093	
Zone 3	Highline Canal @ Hwy 99	NM	8/18/2009		9.03								
Zone 3	Highline Canal @ Hwy 99	NM	9/22/2009		8.61								
Zone 3	Highline Canal @ Hwy 99	NM	12/15/2009		8.61								
Zone 3	Mustang Creek @ East Ave	NM	2/7/2009			704		560		12	25		
Zone 3	Mustang Creek @ East Ave	NM	3/17/2009			1042		710		33			
Zone 3	Mustang Creek @ East Ave	NM, Sediment	4/21/2009	0.98		1433							
Zone 3	Mustang Creek @ East Ave	NM	10/20/2009	2.95		870	2.3	670	250		44		
Zone 3	Mustang Creek @ East Ave	NM	12/15/2009			892					25		0.022

DDE-Dichlorodiphenyldichloroethylene
NM-Normal Monitoring
MPM-Management Plan Monitoring
DO-Dissolved Oxygen
SC-Specific Conductance

Adminsitrative Record
Page 16533

Chlorpyrifos

Management Plan Monitoring for chlorpyrifos at Highline Canal @ Hwy 99 in Zone 3 (Table 38) resulted in an exceedance of chlorpyrifos (0.093 µg/L). There were no toxicity reports associated with this exceedance. PUR data (Appendix IV) indicate the 14 applications of pesticides (Nufos 4E, Lorsban and Warhawk) occurred between June 23 and July 16, 2009 to walnut and corn over 854.5 acres.

Copper

There are a number of possible sources of copper in water bodies within the Coalition region. Copper is applied in numerous forms such as copper hydroxide, copper sulfide and copper oxide, as a fungicide to a variety of vegetable crops, grains, and fruit and nut orchards. Copper can also enter a drainage system as a result of inputs other than agriculture. Copper is commonly applied by dairies and can also become available to water bodies through the weathering of rocks and soils. Automobile components may also contain copper and wearing of brakes can add substantial amounts of copper to surface waters that pass through or near urban areas. Zone 3 (Table 38) samples collected on February 7, 2009 (after a storm event) from Mustang Creek @ East Ave contained 25 µg/L of copper. In the Mustang Creek site subwatershed there were five applications of copper hydroxide within six months prior to this exceedance. There were four applications to almonds ranging from 78 lbs applied on 13 acres to 360 lbs applied on 30 acres. An application of 456 lbs of copper hydroxide also occurred on 38 acres of peaches. Samples collected from Mustang Creek @ East Ave on October 20, 2009 contained 44 µg/L of copper. No applications of copper were reported in the PUR data after April 18, 2009. Samples collected from Mustang Creek @ East Ave during the storm 2 event on December 15, 2009 contained 25 µg/L of copper. No applications of copper were reported in the PUR data after April 18, 2009. PUR data for Merced County has only been reported through November 2009. Any outstanding PUR data will be provided in the Addendum to the AMR on June 30, 2010. See Appendix IV for PUR data.

Dichlorodiphenyldichloroethylene

Exceedances of DDT and its breakdown products, DDE and DDD, are a result of applications in the past. DDT, aldrin, and dieldrin are no longer registered or applied within the United States but persist because of their exceptionally high K_{oc} and long half life. It is estimated that the K_{oc} for DDT is between 100,000 and 1,000,000 years depending on the source, and the half life in aquatic systems is probably over 150 years (http://www.speclab.com/compound/c50293.htm). DDT was banned in 1972, and the USEPA prohibited application of aldrin and dieldrin in 1974 except for uses on termites and banned all uses in 1987. These pesticides may be bound to sediment in the channels and mobilized periodically by unknown mechanisms. Zone 3 (Table 38) samples collected at Mustang Creek @ East Ave contained DDE (0.022µg/L) on December 15, 2009. There was no toxicity associated with this exceedance.

Adminsitrative Record
Page 16534

Table 39. Zone 4 (Howard Lateral @ Hwy 140, Merced River @ Santa Fe) Exceedances.

Zone	Station Name	Sample Type Code	Sample Date	DO, mg/L	pH, none	SC, µS/cm	Total Dissolved Solids, mg/L	*E. coli*, MPN/100 mL, None	Nitrate + Nitrite as N, mg/L	Copper Dissolved, µg/L	Chlorpyrifos, µg/L	HCH, delta, µg/L	*S. capricornutum*, % Conrol
Zone 4	Howard Lateral @ Hwy 140	NM, Sediment	4/21/2009	1.55									
Zone 4	Howard Lateral @ Hwy 140	NM	5/19/2009			810	530		13				77
Zone 4	Howard Lateral @ Hwy 140	NM	7/21/2009		8.88								
Zone 4	Howard Lateral @ Hwy 140	NM, Sediment	8/18/2009		9.14								
Zone 4	Howard Lateral @ Hwy 140	NM	9/22/2009		9.15			330					
Zone 4	Howard Lateral @ Hwy 140	NM	10/20/2009					240		3.3			
Zone 4	Merced River @ Santa Fe	MPM	11/11/2008								0.1	0.051	
Zone 4	Merced River @ Santa Fe	NM	7/21/2009	6.12									
Zone 4	Merced River @ Santa Fe	NM	10/20/2009	4.82									

HCH – Hexachlorocyclohexane; results are compared to the WQTL for HCH total
NM-Normal Monitoring
MPM-Management Plan Monitoring
DO-Dissolved Oxygen
SC-Specific Conductance

Adminsitrative Record
Page 16535

Chlorpyrifos

In Zone 4 (Table 39), an exceedance of chlorpyrifos occurred during the fall 2008 Management Plan Monitoring for chlorpyrifos in samples collected on November 11, 2008 from Merced River @ Santa Fe (0.100 µg/L). No toxicity in the water column was reported. PUR data (Appendix IV) indicate six applications of Lorsban occurred in the upstream subwatershed of Merced River between October 14th and 24th. All applications were to wine grapes by the same permittee,.

Copper

Howard Lateral @ Hwy 140 had samples containing 3.3 µg/L of copper on October 20, 2009 in Zone 4 (Table 39). PUR data (Appendix IV) indicate no applications of copper were made after January 2009 and this is the first copper exceedance to occur at this location.

Hexachlorocyclohexane

Detections of the lindane isomers alpha-HCH and delta-HCH, are a result of past use and cannot be attributed to current agricultural practices. Zone 4 (Table 39) samples from Merced River @ Santa Fe contained HCH (0.051 µg/L) on November 11, 2008.

Toxicity

Water samples collected at Howard Lateral @ Hwy 140 during the second irrigation monitoring event on May 19, 2009 tested toxic to *Selenastrum*. The samples resulted in 77 percent growth compared to the control. There were no pesticide or metal exceedances for this site associated with this monitoring event. PUR data (Appendix IV) indicate 46 pesticide applications of 2, 4-D dimethylamine salt, flumioxazin, glyphosate isopropylamine salt, metam-sodium, oxyfluorfen, and paraquat dichloride occurred between April 21 and May 19, 2009 to 1389 acres of almonds, wine grapes, peaches, and sweet potatoes.

Adminsitrative Record
Page 16536

Table 40. Zone 5 (Deadman Creek @ Gurr Rd, Duck Slough @ Gurr Rd, Duck Slough @ Hwy 99, Miles Creek @ Reilly Rd) Exceedances.

Zone	Station Name	Sample Type Code	Sample Date	DO, mg/L	pH, none	SC, µS/cm	Ammonia as N, mg/L	Total Dissolved Solids, mg/L	*E. coli*, MPN/100 mL	Nitrate + Nitrite as N, mg/L	Arsenic, µg/L	Copper, Dissolved, µg/L	Chlorpyrifos, µg/L	*C. dubia*, % Control	*P. promelas*, % Control	*S. capricornutum*, % Control
Zone 5	Deadman Creek @ Gurr Rd	NM	10/21/2008						1400		12					
Zone 5	Deadman Creek @ Gurr Rd	NM	11/11/2008						370		14					
Zone 5	Deadman Creek @ Gurr Rd	FD	12/16/2008						4400							
Zone 5	Deadman Creek @ Gurr Rd	NM	12/16/2008						1400							
Zone 5	Deadman Creek @ Gurr Rd	FD	1/20/2009				5.4	460	2400		18					
Zone 5	Deadman Creek @ Gurr Rd	NM	1/20/2009	5.61		762	5.5	470	2400		18				87.5	
Zone 5	Deadman Creek @ Gurr Rd	NM	2/7/2009	1.01		1802	50	1100	2400		30			0	0	7.042
Zone 5	Deadman Creek @ Gurr Rd	NM	3/17/2009						1600		14			10		
Zone 5	Deadman Creek @ Gurr Rd	NM	5/19/2009						490							
Zone 5	Deadman Creek @ Gurr Rd	NM	6/16/2009						730							
Zone 5	Deadman Creek @ Gurr Rd	NM	7/21/2009	6.04					460							
Zone 5	Deadman Creek @ Gurr Rd	NM, Sediment	8/18/2009	6.94												
Zone 5	Deadman Creek @ Gurr Rd	NM	10/20/2009	6.08					490							
Zone 5	Deadman Creek @ Gurr Rd	NM	11/17/2009						2000							
Zone 5	Deadman Creek @ Gurr Rd	FD	12/15/2009				15	610							57.5	
Zone 5	Deadman Creek @ Gurr Rd	NM	12/15/2009	5.02		995	15	610	>2400						75	
Zone 5	Duck Slough @ Gurr Rd	NM	2/7/2009							13						
Zone 5	Duck Slough @ Gurr Rd	NM	3/17/2009		9.7											
Zone 5	Duck Slough @ Gurr Rd	NM	5/19/2009						2400			7.3				
Zone 5	Duck Slough @ Gurr Rd	NM	9/22/2009		9.03											
Zone 5	Duck Slough @ Gurr Rd	NM	11/17/2009			1215			340							

Adminsitrative Record
Page 16537

Zone	Station Name	Sample Type Code	Sample Date	DO, mg/L	pH, none	SC, µS/cm	Ammonia as N, mg/L	Total Dissolved Solids, mg/L	*E. coli*, MPN/100 mL	Nitrate + Nitrite as N, mg/L	Arsenic, µg/L	Copper, Dissolved, µg/L	Chlorpyrifos, µg/L	*C. dubia*, % Control	*P. promelas*, % Control	*S. capricornutum*, % Control
Zone 5	Duck Slough @ Gurr Rd	NM	12/15/2009						>2400							
Zone 5	Duck Slough @ Hwy 99	NM	6/16/2009	6.78												
Zone 5	Miles Creek @ Reilly Rd	NM	4/21/2009	6.3												
Zone 5	Miles Creek @ Reilly Rd	NM	7/21/2009	6.45									0.028			
Zone 5	Miles Creek @ Reilly Rd	NM	8/18/2009	6.58												
Zone 5	Miles Creek @ Reilly Rd	NM	9/22/2009	6.35												

NM-Normal Monitoring
DO-Dissolved Oxygen
SC-Specific Conductance

Adminsitrative Record
Page 16538

Ammonia

Previous exceedances of the ammonia WQTL have been attributed to discharge from dairies. *Pimephales* is the most sensitive test species to ammonia. *Ceriodaphnia* and *Selenastrum* are also sensitive to ammonia, as shown in samples collected on February 7, 2009, in which ammonia accounted for water toxicity to all three test species at Deadman Creek @ Gurr Rd in Zone 5 (Table 40).

Nitrates

There was one exceedance of nitrate experienced in Zone 5 (Table 40) at Duck Slough @ Gurr Rd (13 mg/L) on February 7, 2009.

Arsenic

There were arsenic exceedances at Deadman Creek @ Gurr Rd (Table 40) in October and November 2008, as well as January, February and March 2009.

Copper

Samples collected from Duck Slough @ Gurr Rd on May 19, 2009 had of 7.3 µg/L of copper (Table 40). PUR data (Appendix IV) indicate there were 18 applications of copper hydroxide to walnuts, process tomatoes, and tomatoes between April 4, and May 8, 2009 ranging between 17 lbs on 9.5 acres to 256 lbs on 32 acres.

Chlorpyrifos

Irrigation 4 Management Plan Monitoring samples in Zone 5 (Table 40) for chlorpyrifos taken from Miles Creek @ Reilly Rd on July 21, 2009 resulted in a chlorpyrifos exceedance of 0.028 µg/L. There was no toxicity associated with these exceedances. PUR data (Appendix IV) indicates that there were 9 applications of chlorpyrifos to 478 acres of alfalfa, almonds and cotton between June 27 and July 20, 2009.

Toxicity

There were seven toxic samples in Zone 5 (Table 40) between October 2008 and December 2009. Deadman Creek @ Gurr Rd tested toxic to *Pimephales* during the first winter monitoring event on January 20, 2009, to all test species during storm monitoring February 7, 2009, to *Ceriodaphnia* during the second winter event on March 17, 2009, and to the environmental sample and field duplicate (FD) December 15, 2009. In samples collected in January 2009, ammonia was detected at 5.5 mg/L, an exceedance of the WQTL for ammonia and enough to account for the 13 percent *Pimephales* mortality experienced. Samples collected in February contained 45 mg/L of ammonia. Due to the high levels of ammonia in the February samples, DO remained below the protocol requirement for *Pimephales* tests, therefore; samples were aerated throughout the test (refer to laboratory report under Appendix VI for details on protocol). Zeolite treatment was used in the TIE to determine if ammonia could account for the toxicity seen in all of the test species. All of the toxicity was eliminated after Zeolite treatment,

Adminsitrative Record
Page 16539

and the toxicity was recovered in the ammonia add-back treatment with all three test species. Because the results strongly pointed to ammonia as the source of toxicity, further TIE treatments were not conducted. Samples collected in March, which resulted in 10 percent survival relative to the control in *Ceriodaphnia*, contained 0.34 mg/L of ammonia, which is not enough to account for any of the toxicity. TIE tests were run on these samples. Results from the TIE indicated that the source of toxicity was pyrethroid pesticide(s). Four applications of pyrethroid pesticides occurred during the months of October and November, 2008. Cypermethrin was applied on October 11 and 21, 2008 on 127 acres of radicchio and two applications of bifenthrin occurred on November 28, 2008 on 5.5 acres of almonds. After November, there were no additional applications of pyrethroids that could have contributed to the March toxicity. The December 15, 2009 toxicity to *Pimephales* resulted in 75 percent survival in the grab sample and only 57.5 percent survival in the field duplicate. These results were not below 50 percent so a TIE was not initiated. PUR data for Merced County has only been reported through November 2009. Any outstanding PUR data will be accounted for in the Addendum to the AMR on June 30, 2010. See Appendix IV to review PUR data and Appendix VI for TIE laboratory reports.

Adminsitrative Record
Page 16540

Table 41. Zone 6 (Ash Slough @ Ave 21, Cottonwood Creek @ Rd 20) Exceedances.

Zone	Station Name	Sample Type Code	Sample Date	DO, mg/L	*E. coli* MPN/100 mL	Copper Dissolved, µg/L
Zone 6	Ash Slough @ Ave 21	NM	5/19/2009	6.99		3
Zone 6	Cottonwood Creek @ Rd 20	NM	2/7/2009		2400	
Zone 6	Cottonwood Creek @ Rd 20	NM	5/19/2009	6.72		
Zone 6	Cottonwood Creek @ Rd 20	NM	11/17/2009		770	

NM-Normal Monitoring
DO-Dissolved Oxygen
SC-Specific Conductance

Copper

Zone 6 (Table 41) samples at Ash Slough @ Ave 21 had a dissolved copper exceedance (3 µg/L) in samples collected on May 19, 2009. Although there have been total copper exceedances at Ash Slough in the past, this is the first dissolved copper exceedance at this location. There were three applications of copper hydroxide to almonds totaling 171 gallons to 175 acres between the dates January 27-29, 2009 (Appendix IV).

Adminsitrative Record
Page 16541

Actions Taken to Address Water Quality Exceedances

Monitoring of ambient surface waters is conducted by the Coalition for the purpose of characterizing discharges from agriculture. Results from each event within a monitoring season can identify constituents, agricultural lands, crops and/or particular pesticides that need to be managed to reduce or eliminate input from agriculture. A series of actions taken to determine the potential sources of exceedances include 1) the use of PURs to identify relevant applications that occurred upstream of the sample site and within a specified time period prior to the sampling event, 2) an analysis of monitoring data and toxicity results to better understand the potential sources and toxicity of detected constituents, and 3) special studies where appropriate and cost effective to determine the sources of constituents such as *E. coli* or the potential causes of exceedances such as low DO (see Discussion of Results section).

The Coalition notified the Regional Board of all exceedances in Exceedance Reports (Appendix V). In addition, the Coalition creates an annual report for Coalition members to review all exceedances. Results are also disseminated via grower mailings, at grower outreach meetings, and, in some cases, by personal communication when evidence such as PURs indicates the likely source of a pesticide.

Grower notification, management practice outreach and education, and management practice tracking and implementation are additional actions taken by the Coalition to ensure that growers are aware of downstream water and sediment quality issues as well as the importance of implementing various management practices within their farm operations. Grower notification of upcoming meetings, water quality results and Coalition news such as available funding for management practice implementation, grower meetings to conduct outreach and education and encourage growers to implement additional management practices and management practice tracking and implementation actions (prioritized according to the ESJWQC Management Plan) are documented in Table 42.

Management Practices

The Coalition provides growers with information on management practices to reduce storm water runoff, discharge of irrigation water, and mobilization of sediments into receiving waters. Relevant management practices were detailed in a handbook developed by the Coalition for Urban and Rural Environmental Stewardship (CURES) and mailed to all members in October, 2008 (Table 42). Additional management practices such as the use of alternative products, structural changes to manage drain water, and pesticide application practices for minimizing spray drift, were presented at meetings. Appendix VII includes meeting agendas and handouts from meetings held from October 2008 through December 2009.

To evaluate and establish a baseline of current management practices, the Coalition requests that all members complete a general survey. The survey documents irrigation and storm water management practices, pest management strategies and drift management activities. The ESJWQC submitted a General Survey Summary Report to the Regional Board on January 30, 2009.

The Coalition has developed a strategy to prioritize subwatersheds in order to conduct focused outreach with individual members. The purpose of the outreach is to review current farm management practices, determine if additional management practices are applicable, and document implementation of any new practices. From 2008 to 2010 the Coalition has conducted focused outreach in: Dry Creek @ Wellsford Rd, Prairie Flower Drain @ Crows Landing Rd and Duck Slough @ Hwy 99. Growers were contacted during the spring and summer of 2009, a review of management practices was conducted and documented including any recommended practices. Follow up with growers will be conducted in spring of 2010 to document implementation of new practices. This process is further detailed below (Management Plan Status and Table 42), and the Coalition Management Plan Update Report to be submitted on April 1, 2010 will summarize information obtained from these individual contacts. The Coalition has also begun contacting growers in the next priority subwatersheds which include Highline Canal @ Hwy 99, Cottonwood Creek @ Hwy 20, Duck Slough @ Gurr Rd and Bear Creek @ Kibby Rd. The Coalition's Management Plan includes a schedule of prioritized subwatersheds and details regarding the prioritization strategy.

Targeted members in high priority subwatersheds (Dry Creek, Duck Slough above Hwy 99, and Prairie Flower Drain) were notified in a June 4, 2009 mailing that they are required to schedule an individual meeting with Coalition representatives to assess current management practices in order to remain in compliance with the ILRP. A follow-up letter was mailed on June 23, 2009 to unresponsive members, and a final letter informing growers they were dropped from the Coalition for failure to respond was sent on September 11, 2009. The Coalition made several individual grower contacts in high priority subwatersheds over the past year that have enabled the Coalition to assess current management practice implementation and gauge expected future implementation. Individual contacts with growers in the Dry Creek subwatershed occurred between January and August, 2009, in the Duck Slough (above Hwy 99) subwatershed between May and July, 2009, and in the Prairie Flower Drain subwatershed between June and September, 2009 (Table 42). An individual contact summary and letter was mailed to all participating members on September 30, 2009. The Coalition is in the process of assessing and analyzing the survey results and will provide a summary of individual contacts conducted in 2009 in the ESJWQC Management Plan Update Report to be submitted on April 1, 2010.

Also during the month of October 2008, a mailing was sent out to all 118 Coalition members within the Dry Creek @ Wellsford Rd site subwatershed to announce an upcoming grower meeting. Included in the mailing were a blank general survey (if outstanding) and an

exceedance table for all years and seasons. The meeting with Dry Creek growers was held on November 12, 2008 at the Fruit Yard restaurant in Modesto. MLJ-LLC and Coalition representatives discussed water quality exceedances, management plan requirements and management practices to reduce agricultural discharge.

In late November, the Modesto Pesticide Applicator Professional Association Seminar, a grower and Pesticide Control Advisor (PCA) meeting, took place and Coalition Executive Director Parry Klassen presented Coalition monitoring results from sites within Stanislaus County, and information on best management practices for organophosphate and pyrethroid pesticides.

The 2008 Annual Grower Meetings were held on December 16, 17, and 18 in Stanislaus, Merced, and Madera Counties, respectively. Coalition representatives and MLJ-LLC personnel discussed ESJWQC Coalition activities, 2008 monitoring results, and priority subwatershed management plans. Annual reports were available for members and general surveys were available for members to fill out at the meeting.

The Coalition continues to be committed to collaboration with outside sponsors to secure unique opportunities that will enhance the Coalition's ability to achieve its goal of reducing the impact of agricultural discharge on water quality (Table 42). The ESJWQC, along with CURES, the Westside San Joaquin River Watershed Coalition, NRCS, and the West and East Stanislaus Resource Conservation District, applied for money from the USDA Agricultural Water Enhancement Program (AWEP) to be used in Stanislaus and Merced counties. On July 30, 2009 they received an award of $2 million annually over 5 years ($10 million total). The money will fund the installation of management practices on farms and dairies with operations bordering waterways within subwatersheds covered by Management Plans in the two county regions. Two hundred twenty-six members in the Dry Creek, Duck Slough, and Prairie Flower Drain subwatersheds were notified of eligibility, requirements, and the application process to receive the funds via an August 6, 2009 mailing.

The Coalition also hosts a website: http://www.esjcoalition.org/home.asp. This website serves as a clearing house for Coalition activities and outreach on management practices. Information provided on the website functions as a useful supplement to regular grower contacts and meetings.

Outreach and Education

Outreach and education activities are an important component of the Coalition monitoring program. The Coalition continues to provide information to growers at regular meetings, at meetings conducted by the County Agricultural Commissioner, and by personal contact. Coalition presentations from October 2008 through December 2009 provided members with information regarding the Coalition's intentions and progress and site subwatershed specific monitoring results, as well as management practices that are effective in reducing the discharge

of pesticides to water bodies. All outreach and education activities are documented in Table 42. Overall Coalition representatives conducted or participated in 23 meetings from October 2008 through December 2009. Of those meetings, 14 addressed storm water quality issues, 14 addressed irrigation water quality issues, 7 meetings addressed sediment runoff issues, 17 meetings reviewed management practices and 15 addressed specific site subwatershed management plans.

During the early Fall 2008 monitoring season, prior to dormant sprays, Coalition Executive Director Parry Klassen was invited to present at four sections of the Merced Community College Pest Management Update Course held on October 7, 21, 28, and November 4, 2008. The presentations included Coalition monitoring results, sprayer calibrations, and management of organophosphates and pyrethroids for both orchards and row crops.

Also during the month of October 2008, a mailing was sent out to all 118 Coalition members within the Dry Creek @ Wellsford Rd site subwatershed to announce an upcoming grower meeting. Included in the mailing were a blank general survey (if outstanding) and a table of water quality exceedances for all years and seasons. The meeting with Dry Creek growers was held on November 12, 2008 at the Fruit Yard restaurant in Modesto. MLJ-LLC and Coalition representatives discussed water quality exceedances, management plan requirements and management practices to reduce agricultural discharge.

In late November 2008, Parry Klassen presented Coalition monitoring results from sites within Stanislaus County and information on best management practices for organophosphate and pyrethroid pesticides at the Modesto Pesticide Applicator Professional Association Seminar, a meeting attended by both growers and PCAs in the area.

The 2008 ESJWQC Annual Grower Meetings were held on December 16, 17, and 18 in Stanislaus, Merced, and Madera Counties, respectively. Coalition representatives and MLJ-LLC personnel discussed ESJWQC Coalition activities, 2008 monitoring results, and priority subwatershed management plans. Annual reports were available for members which included maps and water quality exceedances for all sites monitored from since 2004. In addition, general surveys were available for members to complete to continue documentation of current management practices.

The Coalition attended and spoke at meetings coordinated by pest supply companies and irrigation districts to increase their outreach effort to entities with the potential to influence member pest management decisions including PCAs, permittees and farm managers. Parry Klassen reviewed the management plan progression of the high priority subwatersheds Dry Creek and Prairie Flower Drain Management Plans and presented pesticide and nutrient management practices at the California Association of Pest Control Advisors (CAPCA) Continuing Education Meeting on February 5, 2009. On February 9 and March 23, 2009, Parry

Adminsitrative Record
Page 16545

Klassen attended meetings hosted by Helena Chemical Company in Modesto and Merced, respectively. Parry Klassen educated Helena Chemical Company staff managers and PCAs on the purpose and strategy of the ESJWQC Management Plan including specific water quality issues within local watersheds and relevant management practice information. Coalition representatives also attended Modesto Irrigation District Meetings held on March 2 and 4, 2009 to discuss with a total of 100 attendees Dry Creek (Stanislaus County) and Prairie Flower Drain Management Plan strategies and status.

On March 10, 2009, Parry Klassen participated in a PCA and grower meeting hosted by Merced City College. He presented an update on the Long-term Irrigated Lands Regulatory Program, discussed management practices for row crops and orchards and focused on organic farming topics to a large grower audience including non-members in Merced.

On March 26, 2009, 43 of the 88 members invited, representing 23 farming operations, attended the Duck Slough subwatershed grower meeting. The mailing announcement for this meeting included a Duck Slough water quality exceedance chart and blank general survey to return (if outstanding).

In a focused effort to address the issue of multiple chlorpyrifos exceedances throughout the region in the previous year, the Coalition sent out a chlorpyrifos specific mailing to 334 growers in various subwatersheds who either own land adjacent to waterways or grow alfalfa, almond, and/or walnuts. Because some members own parcels in several subwatersheds, Table 2 tallies the number of members reached in each subwatershed. The mailing detailed management practices relevant to chlorpyrifos, provided a past history of chlorpyrifos in the particular watershed, and reminded members of their responsibilities. The mailing went out June 5, 2009 to target the month of July, when most chlorpyrifos applications are made and when the Coalition has experienced the most exceedances in the past.

Coalition members were invited to the Drip and Micro Sprinkler Irrigation Meeting on August 4, 2009, sponsored by East Stanislaus Resource Conservation District, University of California Cooperative Extension (Stanislaus County), and the United States Department of Agriculture-Natural Resource Conservation Service (USDA – NRCS) Modesto Service Center. The meeting focused on maintenance and chemigation uniformity, fertilizer efficiencies, irrigation scheduling, and water management and crop quality including pest management as related to microspray and drip irrigation.

Two hundred seventy-seven growers were invited to the Preventing Sediment Discharges from Lower Sierra Foothill Farms/Ranches Meeting held on August 12, 2009. Discussion topics included sediment management practices and an explanation of recent changes in regulatory actions taken by California Department of Fish and Game/Regional Board against farmers with

fields discharging excessive sediment into local tributaries to the Merced, Stanislaus or Tuolumne Rivers as a result of inadequate storm runoff management practices.

In an effort to make meetings easier to incorporate into growers' schedules, the Coalition hosted its first grower conference call meetings on October 21 and 22, 2009 for the Cottonwood Creek subwatershed. A total of four members participated in a discussion of the ESJWQC Management Plan strategy and status for Cottonwood Creek.

At the 2009 Annual Grower Meetings held on December 15, 17, and 21, 2009, Parry Klassen and MLJ-LLC personnel reviewed the water quality monitoring results, ESJWQC Management Plan strategy and status, as well as Coalition activities including outreach, collaborations and member responsibilities, as well as other administrative business. ESJWQC 2009 Annual Reports were mailed in advance of the meetings and many growers brought the reports with them to the meeting. Several management practice informational handouts and flyers were made available to growers at the meetings. The Coalition recently invested in Turning Interactive Survey Devices, a tool used to poll a meeting audience and receive real time feedback, and employed the new technology at the Annual Meetings. This instantaneous response allows the Coalition to better interact with growers, such that if further elaboration on a topic is needed, a representative can address it within the same meeting. Available polling results are included in Appendix VII. A total of 211 growers attended the three meetings.

Pest Control Advisors, Agricultural Commissioners, and Registrants

For the Coalition to be most effective in providing recommendations on management practices that will reduce or eliminate discharge, collaboration with County Agricultural Commissioners, PCAs and pesticide registrants is critical. Throughout the October 2008 to December 2009 timeframe, and specifically during the 2009 irrigation season, the Coalition worked with each of these entities as needed to follow-up on exceedances. Coalition representatives spoke at the PCA meetings: Modesto Pesticide Application Professional Association Seminar (November 20, 2008), CAPCA Continuing Education Meeting (February 5, 2009) and the Helena Chemical Company sponsored meetings (February 9, 2009 and March 23, 2009).

Agricultural Commissioners from the various counties are active participants as non-voting members of the ESJWQC Board of Directors.

Table 42. Table of ESJWQC actions and deliverables dealing with grower notification of exceedances and management practices relevant to the monitoring conducted between October 2008 and December 2009 (sorted by date).

Area	Date	Category	Details	Constituents Addressed	Who
All Counties	October, 2008	BMP Outreach and Education	BMP Handbook: Management Practices for Protecting Water Quality sent out to all Coalition members (binder of information on Best Management Practices (BMPs). Developed by CURES, funded by Westside Coalition Prop 50 grant.	All constituents	Parry Klassen
All Counties	October 2, 2008	Grower Notification	Mailing to all ESJ Members to announce NRCS funds (through EQIP) are available but deadline for BMP implementation is quickly approaching (Oct. 31).	Pesticides	Parry Klassen
Merced	October 7, 2008	BMP Outreach and Education	Merced Community College Pest Management Update Course: grower, PCA meeting to discuss Coalition results.	All constituents	Parry Klassen
Merced	October 21, 2008	BMP Outreach and Education	Merced Community College Pest Management Update Course: grower, PCA meeting to discuss sprayer calibrations.	All constituents	Parry Klassen
Merced	October 28, 2008	BMP Outreach and Education	Merced Community College Pest Management Update Course: grower, PCA meeting to discuss organophosphates and pyrethroids with regard to orchards.	Organophosphates, pyrethroids	Parry Klassen
Dry Creek @ Wellsford subwatershed	October 29, 2008	Grower Notification	Mailing to all 118 members within Dry Creek subwatershed to announce grower meeting on November 14, 2008; included cover letter, agenda, survey (if outstanding), and exceedances chart for all years and seasons.	All Constituents	Parry Klassen
Merced	November 4, 2008	BMP Outreach and Education	Merced Community College Pest Management Update Course: grower, PCA meeting to discuss organophosphates and pyrethroids with regard to row crops.	Organophosphates, pyrethroids	Parry Klassen
Dry Creek @ Wellsford subwatershed	November 12, 2008	BMP Outreach and Education	Dry Creek Grower Meeting at Fruit Yard Restaurant, Modesto: discussed water quality exceedances, Management Plan requirements, and management practices to reduce agricultural discharge.	All constituents	Parry Klassen, MLJ-LLC

Adminsitrative Record
Page 16548

Area	Date	Category	Details	Constituents Addressed	Who
Modesto	November 20, 2008	BMP Outreach and Education	Pesticide Applicator Professional Association grower meeting: discussed Stanislaus County Coalition results and BMPs for OPs and pyrethroids.	Organophosphates, pyrethroids	Parry Klassen
All Counties	December 3, 2008	Grower Notification	Mailing to all growers announcing a deadline extension for membership renewal and the 2008 Annual Meetings.	All constituents	Parry Klassen
Stanislaus County	December 16, 2008	BMP Outreach and Education	2008 Annual Grower Meeting: discussed ESJ Coalition activities, 2008 monitoring results, priority Management Plans (pesticides drive water quality challenge), and filled out BMP surveys.	All constituents	Parry Klassen, MLJ-LLC
Merced County	December 17, 2008	BMP Outreach and Education	2008 Annual Grower Meeting: discussed ESJ Coalition activities, 2008 monitoring results, priority Management Plans (pesticides drive water quality challenge), and filled out BMP surveys.	All constituents	Parry Klassen, MLJ-LLC
Madera County	December 18, 2008	BMP Outreach and Education	2008 Annual Grower Meeting: discussed ESJ Coalition activities, 2008 monitoring results, priority Management Plans (pesticides drive water quality challenge), and filled out BMP surveys.	All constituents	Parry Klassen, MLJ-LLC
All Counties	January 30, 2009	Management Practice Tracking	General survey results linked to parcels and summarized in the ESJWQC General Survey Summary Report.	All constituents	MLJ-LLC
Stanislaus County: Dry Creek & Prairie Flower Drain	February 5, 2009	BMP Outreach and Education	CAPCA Continuing Education meeting: discussed various pest management issues. Included a presentation by Klassen on the Dry Creek and Prairie Flower Drain MP status and BMPs for pesticides and nutrients were discussed.	Pesticides, nutrients, sediment	Parry Klassen
Stanislaus County: Dry Creek & Prairie Flower Drain	February 9, 2009	BMP Outreach and Education	Meeting with Helena Chemical Company, Modesto: Coalition representatives discussed the MP status of Dry Creek and Prairie Flower Drain with Staff Managers and Pest Control Advisors (#6 PCAs) as a means to contact more growers.	Pesticides, nutrients	Parry Klassen

Area	Date	Category	Details	Constituents Addressed	Who
Stanislaus, Merced Counties	February 28, 2009	Water Quality Collaborations	Submitted grant proposal to USDA Agricultural Water Enhancement Program for funding to install BMPs on farms located in subwatersheds in Stanislaus and Merced counties with Management Plans. Requested $2 million annually for 5 years ($10 million total). Decision on funding to be made May 15, 2009.	Not Applicable	Parry Klassen/CURES; ESJQWC; Westside San Joaquin River Watershed Coalition; NRCS; West and East Stanislaus Resource Conservation District
Waterford	March 2, 2009	BMP Outreach and Education	Modesto Irrigation District Grower Meeting: Klassen reviewed results from Stanislaus County sites and the MP on Dry Creek and Prairie Flower Drain. 40 growers attended.	All	Parry Klassen
Modesto	March 4, 2009	BMP Outreach and Education	Modesto Irrigation District Grower Meeting: Zipser reviewed results from Stanislaus County sites and the MP on Dry Creek and Prairie Flower Drain. 60 growers attended.	All	Wayne Zipser
Merced	March 10, 2009	BMP Outreach and Education	Merced City College PCA and Grower Meeting: discussed topics related to organic farming including organic inspections, approved materials, OSPs, and an individual grower/PCA's experience with the transition to organic. Klassen presented an update on the Irrigated Lands Program and BMPs for row crops and orchards with runoff of pesticides and nutrients.	All	Parry Klassen
Duck Slough site subwatershed	March 10, 2009	Grower Notification	Mailing to 88 members in Duck Slough to announce grower meeting for the Duck Slough/Mariposa Creek Watershed on March 26, 2009 to discuss recently approved MP for Duck Slough. Mailing included letter, meeting agenda, BMP survey (if outstanding), and exceedance chart.	All	Parry Klassen, Wayne Zipser

Area	Date	Category	Details	Constituents Addressed	Who
Merced County: Duck Slough site subwatershed	March 23, 2009	BMP Outreach and Education	Meeting with Helena Chemical Company, Modesto: Coalition representatives discussed the MP status of Duck Slough with Staff Managers and Pest Control Advisors (#5 PCAs) as a means to contact more growers.	Pesticides, nutrients	Parry Klassen
Le Grand, Duck Slough site subwatershed	March 26, 2009	BMP Outreach and Education	Grower meeting: presentations discussed watershed specific 2009 MP, past exceedances, BMPs for row crops and orchards with runoff of pesticides and nutrients, and Coalition follow-up activities (PUR review, individual grower contacts, BMPs); growers filled out meeting surveys. Growers with properties adjacent to Duck Slough were specifically invited; 43 people attended, representing 23 member farming operations.	All	Parry Klassen, MLJ LLC
Dry Creek, Duck Slough, Prairie Flower Drain site subwatersheds	June 4, 2009	Grower Notification	Mailing to 25 members in high priority site subwatersheds to notify members that individual meetings are required for 100% of growers near or adjacent to the waterways and members are responsible for scheduling individual contact meetings via provided contact information in mailing. Additionally, an email containing the same information was sent to 13 high priority members on June 1, 2009.	All	Parry Klassen, Wayne Zipser
CCART(36), DCAGR(32), DCAWR(62), DCARE(19), DSAHN(51), HCHNN(63), LDARA(16), MRSFD(50), MCARR(20), MCAEA(17), PFDCL(6), SDAMD(1), SSAQR(5), WDAVR(8) site subwatersheds	June 5, 2009	Grower Notification	"Hull Split" mailing to 334 members who grow alfalfa, almond, and/or walnuts and/or operate parcels adjacent to waterways in subwatersheds with 2008 chlorpyrifos exceedances. Mailing included chlorpyrifos discussion letter, Dow AgroScience chlorpyrifos bulletin, subwatershed specific exceedance chart, and state letter explaining Coalition member requirements and potential consequences non-cooperative members.	Chlorpyrifos	Parry Klassen, Wayne Zipser

Adminsitrative Record
Page 16551

Area	Date	Category	Details	Constituents Addressed	Who
Dry Creek, Duck Slough, Prairie Flower Drain site subwatersheds	June 23, 2009	Grower Notification	Follow-up mailing to June 4 mailing regarding scheduling individual meetings. Sent to all growers who had not yet scheduled an individual meeting urging members to do so and providing in a supplementary Regional Board letter an explanation of the consequences for members and the Coalition if the meetings are not conducted.	All	Parry Klassen, Wayne Zipser
Sierra Foothills area	July 30, 2009	Grower Notification	Mailing to 277 members who farm in the Sierra Foothills, east of Oakdale between Merced and Stanislaus County lines, to announce a grower meeting to discuss sediment best management practices and explain recent changes in regulatory actions taken by CA. Dept. of Fish and Game/Regional Water Board against fields discharging excessive sediment into local creeks and streams leading to the Merced, Stanislaus or Tuolumne Rivers after storms.	All	Parry Klassen
Stanislaus, Merced Counties	July 30, 2009	Water Quality Collaborations	USDA announced Jul. 30, 2009 an award of $2 million annually over 5 years ($10 million total) funded by the Agricultural Water Enhancement Program (AWEP) created in the 2008 Farm Bill. The money will aid in installation of Management Practices and be directed to farms and dairies with operations bordering waterways within subwatersheds covered by Management Plans in the two county regions.	Not Applicable	Parry Klassen/CURES; ESJQWC; Westside San Joaquin River Watershed Coalition; NRCS; West and East Stanislaus Resource Conservation District

Area	Date	Category	Details	Constituents Addressed	Who
All Counties	July 31, 2009	Grower Notification	Email to members who farm in the Sierra Foothills to announce the Drip and Micro Sprinkler Irrigation Meeting on August 4, 2009 sponsored by East Stanislaus Resource Conservation District, University of California Cooperative Extension, Stanislaus, and the USDA - NRCS Modesto Service Center. Sent to all members on ESJWQC email list and flyer included in mailing to 277 members in Sierra Foothills area.	All	Parry Klassen
Dry Creek Site Subwatershed	January - August 2009	Management Practice Tracking	Individual contact with targeted growers in Dry Creek subwatershed (current management practice evaluation).	All	Parry Klassen, Wayne Zipser
Duck Slough (above Hwy 99) Subwatershed	May - August 2009	Management Practice Tracking	Individual contact with targeted growers in Duck Slough (above Hwy 99) subwatershed (current management practice evaluation).	All	Parry Klassen, Wayne Zipser
Sierra Foothills area	August 4, 2009	BMP Outreach and Education	Drip and Micro Sprinkler Irrigation Meeting to discuss maintenance, chemigation uniformity, fertilizer efficiencies, irrigation scheduling, and water management and crop quality including pest management as related to micro and drip irrigation.	All	Wayne Zipser
Dry Creek, Duck Slough, Prairie Flower Drain site subwatersheds	August 6, 2009	Grower Notification	Mailing to 226 members in high priority subwatersheds announcing that the USDA recently approved $2 million annually in grants over the next 5 years for projects intended to improve water quality of waterways in Stanislaus and Merced counties; includes details of eligibility, requirements, and application process.	All	Parry Klassen
Sierra Foothills area	August 12, 2009	BMP Outreach and Education	Preventing Sediment Discharges from Lower Sierra Foothill Farms/Ranches Meeting: discussed BMPs relevant to preventing soil erosion	All	Parry Klassen, Wayne Zipser
Prairie Flower Drain Subwatershed	June - September 2009	Management Practice Tracking	Individual contact with targeted growers in Prairie Flower Drain subwatershed (current management practice evaluation).	All	Parry Klassen, Wayne Zipser

Area	Date	Category	Details	Constituents Addressed	Who
Dry Creek and Prairie Flower Drain site subwatersheds	September 10, 2009	Grower Notification	Mailing to all members who have not responded to Coalition attempts to contact and schedule an individual meeting. Letter informed those members they have been dropped from the ESJWQC Coalition as of August 31, 2009 and must now seek alternative methods of complying with the ILRP.	All	Parry Klassen, Wayne Zipser
Dry Creek, Duck Slough, Prairie Flower Drain site subwatersheds	September 30, 2009	Grower Notification	Individual survey recap and letter mailed to participants in most recent round of individual contact meetings to provide members with a copy for their records and remind them they will be contacted in spring 2010 to regarding the implementation status of recommended management practices.	All	Parry Klassen, Wayne Zipser
All Counties	October 14, 2009	Grower Notification	Letter mailed to all members with parcels adjacent to Cottonwood Creek announcing two conference call meetings (Oct. 21st @ 11AM and Oct. 22nd @ 4PM) to inform growers about requirements for and initiate the scheduling of individual contact meetings.	All	Parry Klassen, Wayne Zipser
Cottonwood Creek area	October 21, 2009	BMP Outreach and Education	Conference call meeting to inform growers about the Cottonwood Creek Management Plan, specifically requirements for and to initiate the scheduling of individual contact meetings. A total of four members were represented (total includes participants in the 10/22/09 call).	All	Parry Klassen
Cottonwood Creek area	October 22, 2009	BMP Outreach and Education	Conference call meeting to inform growers about the Cottonwood Creek Management Plan, specifically requirements for and to initiate the scheduling of individual contact meetings. A total of four members were represented (total includes participants in the 10/21/09 call).	All	Parry Klassen
All Counties	December 3, 2009	Grower Notification	Annual grower meeting announcement postcard mailed to 2,385 growers.	All	Parry Klassen, Wayne Zipser

Area	Date	Category	Details	Constituents Addressed	Who
Merced County	December 15, 2009	BMP Outreach and Education	Annual Grower Meeting: discussed and reviewed Coalition activities and monitoring results of the past year, and priority MP status and funding. Annual Report with cover letter and newsletter were handed to all members; BMP information available. Surveyed the audience using Turning Interactive Survey Device. 49 Coalition members had at least one representative in attendance.	All	Parry Klassen, MLJ-LLC
Madera County	December 17, 2009	BMP Outreach and Education	Annual Grower Meeting: discussed and reviewed Coalition activities and monitoring results of the past year, and priority MP status and funding. Annual Report with cover letter and newsletter were handed to all members; BMP information available. Surveyed the audience using Turning Interactive Survey Device. 51 Coalition members had at least one representative in attendance.	All	Parry Klassen, MLJ-LLC
Stanislaus County	December 21, 2009	BMP Outreach and Education	Annual Grower Meeting: discussed and reviewed Coalition activities and monitoring results of the past year, and priority MP status and funding. Annual Report with cover letter and newsletter were handed to all members; BMP information available. Surveyed the audience using Turning Interactive Survey Device. 111 Coalition members had at least one representative in attendance.	All	Parry Klassen, MLJ-LLC

Management Plan Status and Special Projects

The ESJWQC established monitoring and management activities as required in the Regional Board's Basin Plan for the Sacramento and San Joaquin River basins as well as the ILRP MRP for Coalition Groups (Order No. R5-2008-0005). The Basin Plan sets forth Total Maximum Daily Load (or TMDL) requirements for dischargers and requires that dischargers comply with the monitoring and management criteria defined in the Basin Plan. In addition, the ILRP MRP requires that a management plan be developed if more than one exceedance of the same parameter at the same location occurs within a three-year period. If an exceedance occurs for a TMDL constituent (i.e. chlorpyrifos, diazinon, salt and boron) a management plan will be required for that constituent and site subwatershed regardless of whether there was a second exceedance.

A management plan resulting from a single exceedance of a TMDL constituent, or from more than one exceedance of a constituent without a TMDL; results in additional focused efforts that take place within subwatersheds. Coalition efforts in all zones will include but not be limited to: (1) continued monitoring during periods when peak pesticide application use occurs, (2) analysis of Pesticide Use Report (PUR) data, (3) Management Plan Monitoring, (4) conducting site subwatershed grower meetings, (5) encouraging and evaluating implementation of management practices, and (6) addressing the seven compliance components described in the Basin Plan in conjunction with dairy operators with irrigated lands and other entities identified as potential sources of discharges. The Coalition addresses toxicity, pesticides, and sediment bound analytes with specific management practices whether or not there is a TMDL in place. A narrative concerning each special monitoring constituent has been documented in the Coalition's Management Plan (submitted on September 30, 2008) as an effort by the Coalition to describe how it is meeting the TMDL requirements for Coalition members. This narrative will be updated in the Management Plan Update Report to be submitted on April 1, 2010 to account for activities that occurred during 2009. TMDL constituents currently include chlorpyrifos, diazinon, dissolved oxygen, salinity/boron and mercury.

The Coalition's Management Plan was approved on November 25, 2008 and describes the Coalitions strategy for intensive outreach and documentation of management practices which are enacted occur throughout the Coalition. As described in the Action Taken section, greater efforts to acquire these details are made at the site subwatersheds that the Coalition has designated as High Priority areas. The Coalition actively informs growers with irrigated crop land about water sampling results and the status of evolving water quality objectives, and obtains information on management practices. Furthermore, the Coalition conducts meetings in adjacent counties to provide growers with information on management practices that address toxicity or exceedances of water quality standards while also performing evaluations of these practices and their suitability for the Coalition's irrigated land.

Adminsitrative Record
Page 16556

The 2010 Management Plan Update Report will include an update on the following items:

1. Status of high priority subwatershed performance goals
2. Evaluation of current Management Plan strategy
3. Evaluation of management practices and water quality improvements
4. Status of TMDL constituents and Basin Plan requirements

Adminsitrative Record
Page 16557

Conclusions and Recommendations

The following conclusions and recommendations answer the five key Program questions (ILRP MRP Order No. R5-2008-0005) based on water quality information obtained under the Coalition's MRPP for October 2008 through December 2009.

QUESTION No.1: Are conditions in waters of the State that receive discharges of wastes from irrigated lands within Coalition Group boundaries, as a result of activities within those boundaries, protective of beneficial uses?

The results of the monitoring program from October 2008 through December 2009 indicate that although there has been substantial improvement in water quality in many areas, water quality is still not protective of beneficial uses across most of the coalition region (Table 43). The most common exceedances of WQTLs involve physical parameters such as DO and SC which resulted in impaired Agricultural and Aquatic Life Beneficial Uses. Other parameters such as *E. coli* and TDS also experienced numerous exceedances which resulted in impaired Recreational and Aquatic Life Beneficial Uses. The most common causes of impairment of the Municipal Beneficial Use were elevated concentrations of arsenic. While discharges from irrigated lands are possible sources of impairments to beneficial uses, natural or existing conditions are more commonly the likely sources of impairment of beneficial uses in waterways monitored by the Coalition

Adminsitrative Record
Page 16558

Table 43. Monitoring sites (October 2008 through December 2009), beneficial uses (BU) associated with the downstream water body, and whether the sites met the WQTLs for the assigned beneficial uses.

X indicates no sampling occurred during the years specified.

Monitoring Site	Immediate Downstream Water Body	Beneficial Use Immediate Downstream Water Body	Status 2004-2007 Meets BUs?	Status 2008 Meets BUs?	Status 2009 Meets BUs?
Howard Lateral @ Hwy 140	San Joaquin River (Sack Dam to mouth of Merced River)	MUN	X	X	No
		AG	X	X	No
		REC 1	X	X	No
		AQ Life	X	X	No
Lateral 2 ½ near Keyes Rd	San Joaquin River (mouth of Merced River to Vernalis)	MUN	X	X	No
		AG	X	X	No
		REC 1	X	X	No
		AQ Life	X	X	No
Merced River @ Santa Fe	Merced River (McSwain Reservoir to SJ River)	MUN	No	Yes	Yes
		AG	Yes	Yes	Yes
		REC 1	No	Yes	Yes
Highline Canal @ Hwy 99	San Joaquin River (mouth of Merced River to Vernalis) / Merced River (McSwain Reservoir to SJR)	MUN	No	No	No
		AG	Yes	No	No
		REC 1	No	No	No
		AQ Life	No	No	No
Mustang Creek @ East Ave	San Joaquin River (mouth of Merced River to Vernalis) / Merced River (McSwain Reservoir to SJR)	MUN	No	No	No
		AG	No	No	No
		REC 1	No	No	No
		AQ Life	Yes	No	No
Prairie Flower Drain @ Crows Landing Rd	San Joaquin River (mouth of Merced River to Vernalis)	MUN	No	No	No
		AG	No	No	No
		REC 1	No	No	No
		AQ Life	No	No	No
Ash Slough @ Ave 21	San Joaquin River (Sack Dam to mouth of Merced River)	MUN	No	Yes	Yes
		AG	Yes	Yes	Yes
		REC 1	No	Yes	Yes
		AQ Life	No	Yes	No
Cottonwood Creek @ Rd 20	San Joaquin River (Sack Dam to mouth of Merced River)	MUN	No	Yes	Yes
		AG	Yes	Yes	Yes
		REC 1	No	Yes	No
		AQ Life	No	Yes	Yes
Deadman Creek @ Gurr Rd	San Joaquin River (Sack Dam to mouth of Merced River)	MUN	No	No	No
		AG	Yes	Yes	No
		REC 1	No	No	No
		AQ Life	No	No	No
Deadman Creek	San Joaquin River (Sack	MUN	No	Yes	No

Adminsitrative Record
Page 16559

Monitoring Site	Immediate Downstream Water Body	Beneficial Use Immediate Downstream Water Body	Status 2004-2007 Meets BUs?	Status 2008 Meets BUs?	Status 2009 Meets BUs?
@ Hwy 59	Dam to mouth of Merced River)	AG	Yes	Yes	No
		REC 1	No	Yes	No
		AQ Life	No	Yes	No
Duck Slough @ Gurr Rd	San Joaquin River (Sack Dam to mouth of Merced River)	MUN	No	Yes	No
		AG	No	Yes	No
		REC 1	No	Yes	No
		AQ Life	No	Yes	No
Duck Slough @ Hwy 99	San Joaquin River (Sack Dam to mouth of Merced River)	MUN	No	No	Yes
		AG	Yes	No	Yes
		REC 1	No	No	Yes
		AQ Life	No	No	No
Mootz Drain @ Langworth Rd.	San Joaquin River (mouth of Merced River to Vernalis)	MUN	X	X	No
		AG	X	X	No
		REC 1	X	X	No
		AQ Life	X	X	No
Dry Creek @ Wellsford Rd	Tuolumne River (New Don Pedro Dam to SJ River)	MUN	No	No	No
		AG	No	Yes	Yes
		REC 1	No	No	No
		AQ Life	No	No	No

QUESTION No.2: What is the magnitude and extent of water quality problems in waters of the State that receive agricultural drainage or are affected by other irrigated agriculture activities within Coalition Group boundaries, as determined using monitoring information?

Appendix II includes all tabulated results from October 2008 through December 2009. Exceedances occurred in every zone during 2009 (Table 44).

Exceedances of physical parameters and *E. coli* were more common than exceedances of pesticides or metals (16.7%, 40.7%, 0.6% and 1.5% respectively) (Table 44). And, as described in the Discussion of Results section, the zones differed substantially in the types of exceedances. For example, in Zone 2 (Prairie Flower Drain @ Crows Landing Rd) there were a large number of exceedances of SC, TDS, and nitrate (48 of 76 total samples). Zone 2 is located in the western portion of the Coalition region with shallow salty ground water and a high density of dairy operations. The discharges are most probably a result of intrusion of shallow ground water into Prairie Flower Drain (see response to Question #3 below). Zones 1 and 5 experienced frequent *E. coli* exceedances (19 of 29 samples and 15 of 28 samples, respectively) and are locations within the Coalition region with large numbers of rural dwellings near surface waters.

Some exceedances were more common seasonally. Warm water with little or no flow occurred during summer as did consistent exceedances of the dissolved oxygen (DO) WQTL. Mootz Drain was sampled in a large pond structure with little or no flow and as a result, there were exceedances of the DO WQTL in every month except January and February.

Exceedances of some parameters were limited to a single location. For example, exceedances of the arsenic WQTL occurred only at Deadman Creek @ Gurr Rd suggesting that geologic conditions and/or soils with elevated arsenic were responsible for the exceedances.

Overall, Zones 2 and 3 experienced the greatest percentage of exceedances (12.8 % and 7.7% respectively) while Zones 4 and 6 experienced the lowest percentage (1.9% and 3.5% respectively).

Adminsitrative Record
Page 16561

Table 44. Number of exceedances by constituent group and zone.

Analyte Name	Zone 1		Zone 2		Zone 3		Zone 4		Zone 5		Zone 6		Total Exceed.	Total Samples	Pct Exceed.
	Exceed. Counts	Samples	Exceed. Counts	Samples	Exceed. Counts	Samples	Exceed. Counts	Samples	Exceed. Counts	Samples	Exceed. Counts	Samples			
Physical Parameters	23	121	38	108	15	91	8	103	20	148	2	62	106	633	**16.7%**
E. coli	19	28	10	24	2	13	2	22	15	28	2	8	50	123	**40.7%**
Carbamates	0	78	0	54	0	24	0	42	0	97	0	6	0	301	**0.0%**
Organochlorines	0	36	0	18	1	18	0	48	0	48	0	0	1	168	**0.6%**
Organophosphates	3	160	1	109	1	51	1	181	1	258	0	12	7	772	**0.9%**
Group A Pesticides	0	66	1	33	0	0	1	88	0	0	0	0	2	187	**1.1%**
Herbicides	1	90	0	60	0	30	0	44	0	106	0	16	1	346	**0.3%**
Metals	0	142	0	90	3	52	1	182	6	258	1	8	11	732	**1.5%**
Nutrients	1	56	21	48	3	26	1	44	4	56	0	16	30	246	**12.2%**
Water Column Toxicity	1	39	2	31	0	17	1	21	6	47	0	15	10	170	**5.9%**
Sediment Toxicity	0	2	1	2	0	1	0	2	0	2	0	1	1	10	**10.0%**
Count per Zone	**48**	**818**	**74**	**577**	**25**	**323**	**15**	**777**	**52**	**1048**	**5**	**144**	**219**	**3688**	
Pct Exceed. per Zone	**5.9%**		**12.8%**		**7.7%**		**1.9%**		**5.0%**		**3.5%**		**5.9%**		

Adminsitrative Record
Page 16562

QUESTION No.3: What are the contributing source(s) from irrigated agriculture to the water quality problems in waters of the State that receive agricultural drainage or are affected by other irrigated agriculture activities within Coalition Group boundaries?

For many parameters, it is not clear to what extent WQTL exceedances are from agricultural activities that result in off-site movement of farm inputs and sediment into waterways. Source identification of constituents that are not farm inputs is difficult especially for non-conserved constituents. There are numerous non-conserved constituents that can not be traced upstream, e.g. dissolved oxygen. For example, locations at the west side of the coalition region (Zone 2) experienced numerous exceedances of SC and TDS. The construction of drains such as Prairie Flower Drain occurred in the late 1800s as a means of lowering the shallow ground water table to a level that allowed crops to be grown. The shallow ground water is very salty and although indirectly a result of agriculture, the water in Prairie Flower Drain for a large portion of the year is not discharged by agriculture. Also, as discussed several times in previous semi-annual reports, *E. coli* source tracking analysis identified the coliform bacteria in the system as originating predominantly from human sources. Nitrate is a major cause of impairment of the Municipal Beneficial Use but may not be a result of fertilizer runoff into waterways. High nitrate is often a result of dairy operations but unless sophisticated isotopic analytical techniques are performed, it is not possible to distinguish nitrate from inorganic fertilizers applied to crop land from nitrate originating from dairy operations.

Many exceedances of currently labeled pesticides are the result of agricultural applications and enter surface waters as a result of spray drift or runoff in either storm water or irrigation return flows. Legacy pesticides no longer legal to use also continue to be found in Coalition sampling. The Coalition is continuing to identify sources of WQTL exceedances of currently registered pesticides through PUR, assessment of water quality data and evaluation of current management practices. The Coalition's sourcing strategy is further described in the Coalition's Management Plan.

QUESTION No.4: What are the management practices that are being implemented to reduce the impacts of irrigated agriculture on waters of the State within the Coalition Group boundaries and where are they being applied?

The Coalition conducts outreach and education regarding management practices known to be effective in reducing impact of irrigated agriculture on waters of the State through grower meetings, management practice handouts and booklets and through individual grower visits in high priority subwatersheds. The section Actions Taken to Address Water Quality Exceedances includes documentation of outreach activities.

The Coalition has obtained management practice information from members through General Surveys which have been mailed to members in the Coalition region since 2007. The Coalition submitted a General Survey Summary Report in January 2009 tabulating management practices

documented through those surveys on a subwatershed level and is used by the Coalition as an overall baseline of management practices.

The Coalition has prioritized Management Plan sites and constituents and is focusing on obtaining management practice information from priority subwatersheds. A schedule of subwatershed prioritization is included in the Coalition's Management Plan. In high priority subwatersheds, the Coalition conducts individual visits with growers to discuss current management practices and the potential for implementing additional management practices.

Information on management practices provided by the Coalition to growers is tailored to the individual grower and typically involves the elimination of spray drift and/or surface runoff and switching to inputs or farming practices that do not pose a risk to water quality.

The management practices recommended determined by previous analyses and farm visits. For locations with the potential for spray drift, the following practices are recommended:

1. Shut off outside nozzles when spraying outer rows; and/or
2. Spray areas close to water bodies when the wind is blowing away from them; and/or
3. When using orchard air blast sprayers, making applications when the wind is between 3-10 mph and upwind of a sensitive site

For locations with the potential for surface runoff, recommended practices include:

1. Controlling the timing of pumping/draining into the waterway,
2. Planting vegetation in the ditches and
3. Constructing drainage basins/sediment ponds
4. Using farm inputs or practices that do not pose a risk to water quality.

Details on these specific management practices will be provided in the Management Plan Update Report to be submitted on April 1, 2010. The monitoring results are examined to determine if the pattern of exceedances with respect to timing and concentration are indicative of runoff or drift. Growers that are possible contributors to exceedances are identified and individual visits are scheduled. During the visit, the Coalition representative tours the farming operation and determines if surface runoff or drift are possible. After identifying the most probable source of contamination, the Coalition representative discusses the appropriate management practices with the grower and assesses whether the grower can implement additional practices.

Growers in the first three priority watersheds were visited last spring and early summer and additional contacts are occurring now to determine if practices recommended to the growers are being implemented. That assessment will be provided in the Management Plan Update Report (April 1, 2010). However, monitoring data indicate that the number of exceedances of

pesticides and metals (e.g. chlorpyrifos and copper) decreased during 2009 relative to previous years indicating an improvement in water quality, most likely a result of the implementation of management practices.

QUESTION No.5: Are water quality conditions in waters of the State within Coalition Group boundaries getting better or worse through implementation of management practices?

Monitoring data indicate that the number of exceedances of pesticides and metals decreased relative to in previous years most notably in the three high priority site subwatersheds. These three locations were prioritized first due to the frequency and magnitude of pesticide exceedances from 2004 to 2008, in particular chlorpyrifos and overall poor water quality Monitoring results from the summer of 2009 indicate that visits from Coalition representatives and the presumed implementation of management practices are resulting in improved water quality.

Overall, there were fewer exceedances of metals and pesticides across the coalition region in 2009 compared to 2008. In the case of metals, the reduction in exceedances is a result of the Coalition's testing for dissolved metals rather than total metals. When testing for total metals, a calculation was performed to convert total metal to dissolved metal and the conversion resulted in numerous exceedances. The lack of exceedances when analyzing for dissolved metals indicates the conversion may not be accurate and it is not known if the improvement in water quality is a result of the inaccurate conversion or a reduction in the concentration of metals in surface waters. The Coalition will perform an analysis of the data and provide the results in the Management Plan Update to be submitted on April 1, 2010. The metals causing the greatest number of exceedances were copper with 6 exceedances in 77 samples (7.8%) and arsenic with 5 exceedances in 33 samples (15%). As mentioned above, all of the arsenic exceedances occurred at a single site, and the 6 copper exceedances occurred at 4 sites suggesting that arsenic was a result of site-specific factors and copper exceedances were a result of similar conditions across the Coalition region. For copper, it is difficult to determine if these conditions are the result of agricultural practices. However, Coalition representatives are discussing management practices with growers that should result in reductions of dissolved copper if copper exceedances are the result of applications of copper-based pesticides.

There were fewer pesticide exceedances in 2009 compared to past years. If legacy pesticides are eliminated from consideration, chlorpyrifos remains the most problematic pesticide applied in the Coalition region with 7 exceedances from October 2008 to December 2009. The only other currently registered pesticide that caused an exceedance was diuron.

Water column toxicity occurred in 10 of 170 samples (5.9%) in 2009 compared to 37 samples that experienced toxicity in 2008. Of the 37 toxic samples in 2008, 35 were toxic to *Selenastrum* and 2 were toxic to *Ceriodaphnia*. In 2009, 5 samples were toxic to *Selenastrum*, 3

to *Pimephales*, and 2 to *Ceriodaphnia* indicating a significant decline in Selenastrum toxicity. Monthly monitoring during the winter and spring should identify at least as many diuron exceedances as in previous years if those exceedances were occurring. The other area with notable improvement was sediment toxicity. In the past, sediment toxicity occurred at between 40 and 60% of the samples. Toxicity in samples from the two events collected in 2009 was only 10% (1 of 10 samples), a significant improvement over previous years. For example, in 2008, sediment toxicity occurred in 24 samples.

The conclusions from these data are that 1) individual grower visits are an effective method of communicating with members, and 2) implementation of management practices is improving water quality in the Coalition region.

Adminsitrative Record
Page 16566

Appendix I

Chain of Custody Forms

Table of Contents

COC Anomalies 2
Organic Chemistry Analysis 3
Water Toxicity Analysis 41
Sediment Toxicity Analysis 59
Inorganic Chemistry Analysis 62
Glyphosate Chemistry Analysis 134

COC Anomalies

East San Joaquin Water Quality Coalition Chain of Custody (COC) forms, October 2008 through December 2009.

Table I - 1. COC Anomalies.

Sample Date	APPL	Caltest	NCL	AQUA-Science	Site IDs Affected	Description	Resolution	Resolution Date
12/16/08		X			535XDCAGR	COC for sample 535XDCAGR-GR was not marked for Matrix Spike & Matrix Spike Duplicate.	A sample acceptance form was submitted and the extra volume submitted was used to perform the MS/MSD analysis.	12/17/08
12/16/08	X				535XDCAGR	COC for sample 5535XDCAGR was mislabeled for analysis of Group A Pesticides.	The lab was contacted and Group A Pesticides were crossed off the COC.	12/17/08
2/07/09		X			535XPFDCL	COC with samples 535XPFDCL-GR was labeled with wrong sample time.	The correct time was entered into the database.	02/8/08

Organic Chemistry Analysis

Agriculture & Priority Pollutants Laboratories, Inc (APPL)

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name:	MLJ-LLC
Address:	1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By:	J. Katz, S. Henderson
Phone:	(530) 756-5200
Fax:	(530) 756-5225
Project Manager:	Michael Johnson
Project Name:	East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321 or EPA 632*	Organochlorine pesticides by EPA 8081A or EPA 608*	Organophosphorus pesticides by EPA 8141A or EPA 614*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A	Paraquat dichloride by EPA 549.1	SAMPLE COMMENTS
1	~~535XMDALR-GR~~			FW	4	1-L Amber Glass	Ice	X	X	X	X	X		DRY Site
2					1	1-L Brown Poly	Ice						X	
3	535LTHNKR-GR	10/21/08	10:40	FW	4	1-L Amber Glass	Ice	X	X	X	X	X		
4					1	1-L Brown Poly	Ice						X	
5	~~535XMCALA-GR~~			FW	4	1-L Amber Glass	Ice	X	X	X	X	X		DRY Site
6					1	1-L Brown Poly	Ice						X	
7	535XMRSFD-GR	10/21/08	15:00	FW	2	1-L Amber Glass	Ice		X	X		X		
8														
9	~~535XMDALR-FB~~ 535LTHNKR-FB	10/21/08	16:40	FW	4	1-L Amber Glass	Ice	X	X	X	X	X		
10					1	1-L Brown Poly	Ice						X	
11	~~535XMDALR-MS~~ 535LTHNKR-MS	10/21/08	10:40	FW	3	1-Gal Amber Glass	Ice	X	X	X	X	X		MATRIX SPIKE
12					1	1-L Brown Poly	Ice						X	MATRIX SPIKE
13	~~535XMDALR-GR2~~ 535LTHNKR-GR2	10/21/08	10:40	FW	4	1-L Amber Glass	Ice	X	X	X	X	X		
14					1	1-L Brown Poly	Ice						X	
15														
16														
17														
18														

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By –
Signature		
Print Name	JONATHAN KATZ	DOUG RICHARDS
Organization	MLJ LLC	EC MILE
Date / Time	10/21/08 16:02	10-21-08 1725
Received By		**Received By**
Signature		
Print Name	DOUG RICHARDS	Chue Fue Mova
Organization	EC MILE	APPL INC
Date / Time	10-21-08 1602	10-22-08 0800

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
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APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: F. WulFF, G. Bohrer
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321 or EPA 632*	Organochlorine pesticides by EPA 8081A or EPA 608*	Organophosphorus pesticides by EPA 8141A or EPA 614*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A	Paraquat dichloride by EPA 549.1	SAMPLE COMMENTS
1	~~535XHLAHO-GR~~			FW	4	1-L Amber Glass	Ice	X	X	X	X			Dry site
2					1	1-L Brown Poly	Ice						X	
3	535XDCAGR-GR	10/21/08	10:50	FW	4	1-L Amber Glass	Ice	X	X	X	X			
4					1	1-L Brown Poly	Ice						X	
5	~~535XDSAGR-GR~~			FW	1	1-L Amber Glass	Ice			X				Dry site
6														
7	~~545XASAAT-GR~~			FW	4	1-L Amber Glass	Ice	X	X	X	X			Dry site
8					1	1-L Brown Poly	Ice						X	
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	Per WJF	Signature	
Print Name	Frank Wulff	Print Name	DOUG KLEINFELD
Organization	MLJ-LLC	Organization	EX MLJ
Date	10/21/08	Time	16:02	Date	10-21-08	Time	1725
Received By		**Received By**	
Signature		Signature	
Print Name	DOUG RICHARDS	Print Name	Chue Poe Moua
Organization	EX MLJ	Organization	APPL INC
Date	10-21-08	Time	1602	Date	10-22-08	Time	0800

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

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APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: J. Wolff G. Bohrer
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321 or EPA 632*	Organochlorine pesticides by EPA 8081A or EPA 608*	Organophosphorus pesticides by EPA 8141A or EPA 614*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A	Paraquat dichloride by EPA 549.1	SAMPLE COMMENTS
1	535XMDALR-GR	11/11/08	8:30	FW	4	1-L Amber Glass	Ice	X	X	X	X	X		
2					1	1-L Brown Poly	Ice						X	
3	535LTHNKR-GR	11/11/08	11:10	FW	4	1-L Amber Glass	Ice	X	X	X	X	X		
4					1	1-L Brown Poly	Ice						X	
5	~~535XMCAEA-GR~~			~~FW~~	~~4~~	~~1-L Amber Glass~~	~~Ice~~	X	X	X	X			Dry Site
6					~~1~~	~~1-L Brown Poly~~	~~Ice~~						X	
7	535XMRSFD-GR	11/11/08	13:00	FW	2	1-L Amber Glass	Ice		X	X		X		
8														
9	535LTHNKR-FB	11/11/08	11:10	FW	4	1-L Amber Glass	Ice	X	X	X	X	X		
10					1	1-L Brown Poly	Ice						X	
11	535LTHNKR-MS	11/11/08	11:10	FW	3	1-Gal Amber Glass	Ice	X	X	X	X	X		MATRIX SPIKE
12					1	1-L Brown Poly	Ice						X	MATRIX SPIKE
13	535LTHNKR-GR2	11/11/08	11:10	FW	4	1-L Amber Glass	Ice	X	X	X	X	X		
14					1	1-L Brown Poly	Ice						X	
15														
16														
17														
18														

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	GB	Signature	
Print Name	Gabrielle Bohrer	Print Name	DOUG RICHARDS
Organization	MLJ-LLC	Organization	EC MILE
Date	11/11/08	Time	16:15
Date	11-12-08	Time	1730
Received By		**Received By**	
Signature		Signature	
Print Name	DOUG RICHARDS	Print Name	Clue Fue Moua
Organization	EC MILE	Organization	APM INC
Date	11-11-08	Time	16:15
Date	11-13-08	Time	0800

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: JONATHAN KATZ, STEPHANIE HENDERSON
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321 or EPA 632*	Organochlorine pesticides by EPA 8081A or EPA 608*	Organophosphorus pesticides by EPA 8141A or EPA 614*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A	Paraquat dichloride by EPA 549.1	SAMPLE COMMENTS
1	~~535XHLANO-GR~~	—	—	FW	4	1-L Amber Glass	Ice	X	X	X	X			Dry Site
2					1	1-L Brown Poly	Ice						X	
3	535XDCAGR-GR	11/11/08	10:40	FW	4	1-L Amber Glass	Ice	X	X	X	X			
4					1	1-L Brown Poly	Ice						X	
5	~~535XDSAGR-GR~~	—	—	FW	1	1-L Amber Glass	Ice			X				Dry Site
6														
7	~~545XASAAT-GR~~	—	—	FW	4	1-L Amber Glass	Ice	X	X	X	X			Dry Site
8					1	1-L Brown Poly	Ice						X	
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	Jonathan Katz	Signature	Doug Richards
Print Name	JONATHAN KATZ	Print Name	DOUG RICHARDS
Organization	MLJ LLC	Organization	ET MLE
Date	11/11/08 Time 16:15	Date	11-12-08 Time 1736
Received By		**Received By**	
Signature	Doug Richards	Signature	Chue Fue Moua
Print Name	DOUG RICHARDS	Print Name	Chue Fue Moua
Organization	ET MLE	Organization	APPL INC
Date	11-11-08 Time 1615	Date	11-13-08 Time 0800

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

APPL CHAIN-OF-CUSTODY RECORD

MICHAEL L. JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

Client Name:	MLJ-LLC
Address:	1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By:	J. Katz, S. Henderson
Phone:	(530) 756-5200
Fax:	(530) 756-5225
Project Manager:	Michael Johnson
Project Name:	East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321 or EPA 632*	Organochlorine pesticides by EPA 8081A or EPA 608*	Organophosphorus pesticides by EPA 8141A or EPA 614*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A	Paraquat dichloride by EPA 549.1	SAMPLE COMMENTS
1	535XMDALR-GR	12/16/08	8:40	FW	4	1-L Amber Glass	Ice	X	X	X	X	X		
2					1	1-L Brown Poly	Ice						X	
3	~~535LTHNKR-GR~~			FW	4	1-L Amber Glass	Ice	X	X	X	X	X		Dry Site
4					1	1-L Brown Poly	Ice						X	
5	535XMCAEA-GR			FW	4	1-L Amber Glass	Ice	X	X	X	X			Dry Site
6					1	1-L Brown Poly	Ice						X	
7	535XMRSFD-GR	12/16/08	13:60	FW	2	1-L Amber Glass	Ice		X	X		X		
8														
9	535XDCAGR-FB	12/16/08	12:00	FW	4	1-L Amber Glass	Ice	X	X	X	X	X		(TB) Removed per client's email: 12-17-08
10					1	1-L Brown Poly	Ice						X	
11	535XDCAGR-MS	12/16/08	12:00	FW	3	1-Gal Amber Glass	Ice	X	X	X	X	X		MATRIX SPIKE
12					1	1-L Brown Poly	Ice						X	MATRIX SPIKE
13	535XDCAGR-GRB	12/16/08	12:00	FW	4	1-L Amber Glass	Ice	X	X	X	X	X		
14					1	1-L Brown Poly	Ice						X	
15														
16														
17														
18														

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	[signature]	Signature	[signature]
Print Name	Jonathan Katz	Print Name	Doug Richards
Organization	MLJ LLC	Organization	Ex Mile
Date 12/16/08	Time 16:05	Date 12-16-08	Time 17:30
Received By		**Received By**	
Signature	[signature]	Signature	[signature]
Print Name	Doug Richards	Print Name	Chue Fue Moua
Organization	Ex Mile	Organization	APPL Inc
Date 12-16-08	Time 1605	Date 12-17-08	Time 0800

Matrix codes: **SED** = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: FRANK WULFF, GABRIELLE BOHRER
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321 or EPA 632*	Organochlorine pesticides by EPA 8081A or EPA 608*	Organophosphorus pesticides by EPA 8141A or EPA 614*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A	Paraquat dichloride by EPA 849.1	SAMPLE COMMENTS
1	535XHLAHO-GR			FW	4	1-L Amber Glass	Ice	X	X	X	X		X	Dry Site
2					1	1-L Brown Poly	Ice							
3	535XDCAGR-GR	12/16/08	12:00	FW	4	1-L Amber Glass	Ice	X	X	X	X			
4					1	1-L Brown Poly	Ice						X	
5	535XDSAGR-GR	12/16/08	14:00	FW	1	1-L Amber Glass	Ice			X				
6														
7	545XASAAT-GR			FW	4	1-L Amber Glass	Ice	X	X	X	X			Dry Site
8					1	1-L Brown Poly	Ice						X	
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														

Comments:

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* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature		Signature	
Print Name	Gabrielle Bohrer	Print Name	DOUG RICHARDS
Organization	MLJ-LLC	Organization	FG MLE
Date	12/16/08	Time	16:05
Date	12-16-08	Time	1730
Received By		**Received By**	
Signature		Signature	
Print Name	DOUG RICHARDS	Print Name	Anne Fue Moua
Organization	FG MLE	Organization	APPL INC
Date	12-16-08	Time	1605
Date	12-17-08	Time	0800

Matrix codes: **SED** = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: JONATHAN KATZ, DANIEL CORCORAN
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organochlorine pesticides by EPA 8081A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A*	Paraquat dichloride by EPA 549.1	SAMPLE COMMENTS
1	~~535XHLAHO-GR~~				~~5~~	~~1-L Amber Glass~~	Ice	X	X	X	X	X			
2				FW	1	1-L Brown Poly	Ice							X	DRY SITE
3	535XDCAGR-GR	01/20/09	12:00	FW	5	1-L Amber Glass	Ice	X	X	X	X	X			
4					1	1-L Brown Poly	Ice							X	
5	535XDSAGR-GR	01/20/09	13:50	FW	3	1-L Amber Glass	Ice			X	X				
6															
7	~~535XASAAT-GR~~				~~5~~	~~1-L Amber Glass~~	~~Ice~~	X	X	X	X	X			
8				FW	1	1-L Brown Poly	Ice							X	DRY SITE
9	535XDCAGR-GRZ	01/20/09	12:00	FW	5	1-L Amber	Ice	X	X	X	X	X			
10					1	1-L Poly	Ice							X	
11	535XDCAGR-MS	01/20/09	12:00	FW	3	1-L Amber	Ice	X	X	X	X	X			MATRIX SPIKE
12					1	1-L Poly	Ice							X	MATRIX SPIKE
13	535XDCAGR-FB	01/20/09	12:00	FW	5	1-L Amber	Ice	X	X	X	X	X			
14					1	1-L Poly	Ice							X	
15															
16															
17															
18															

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	Jonathan Katz	Signature	Doug Richards
Print Name	JONATHAN KATZ	Print Name	DOUG RICHARDS
Organization	MLJ LLC	Organization	FX MILE
Date / Time	01/20/09 16:15	Date / Time	1-20-09 1830
Received By		**Received By**	
Signature	Doug Richards	Signature	Chue Fue Moua
Print Name	DOUG RICHARDS	Print Name	Chue Fue Moua
Organization	FX MILE	Organization	APPL INC
Date / Time	1-20-09 1615	Date / Time	~~1-21-09~~ 1-21-09 0800

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: F. Wulff, S. Henderson
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organochlorine pesticides by EPA 8081A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A*	Paraquat dichloride by EPA 549.1	SAMPLE COMMENTS
1	~~535XMDALR-GR~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X		
2					1	1-L Brown Poly	Ice							X	
3	~~535LTHNKR-GR~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X		Dry Site
4					1	1-L Brown Poly	Ice							X	
5	~~535XMCAEA-GR~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	X			Dry Site
6					1	1-L Brown Poly	Ice							X	
7	535XMRSFD-GR	1/20/09	14:10	FW	4	1-L Amber Glass	Ice		X	X	X		X		
8															
9	~~535XMDALR-FB~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X		Dry Site
10					1	1-L Brown Poly	Ice							X	
11	~~535XMDALR-MS~~			FW	3	1-Gal Amber Glass	Ice	X	X	X	X	X	X		~~MATRIX SPIKE~~ Dry Site
12					1	1-L Brown Poly	Ice							X	MATRIX SPIKE
13	~~535XMDALR-GR2~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X		Dry Site
14					1	1-L Brown Poly	Ice							X	
15															
16															
17															
18															

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature		Signature	
Print Name	Stephanie Henderson	Print Name	Doug Richards
Organization	MLJ-LLC	Organization	EP MILL
Date / Time	1/20/09 16:15	Date / Time	1-20-09 1830
Received By		**Received By**	
Signature		Signature	
Print Name	Doug Richards	Print Name	Chue Fue Moua
Organization	EP MILL	Organization	APPL INC
Date / Time	1-20-09 1615	Date / Time	1-21-09 0800

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: M. Turner, J. Katz
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organochlorine pesticides by EPA 8081A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A*	Paraquat dichloride by EPA 549.1	SAMPLE COMMENTS
1	535XMDALR-GR	02/09/09	08:40	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X		
2					1	1-L Brown Poly	Ice							X	
3	~~535LTHNRR-GR~~	~~02/07/09~~		~~FW~~	5	1-L Amber Glass	Ice	X	X	X	X	X	X		DRY
4					1	1-L Brown Poly	Ice							X	
5	535XMCAEA-GR	02/09/09	15:30	FW	5	1-L Amber Glass	Ice	X	X	X	X	X			
6					1	1-L Brown Poly	Ice							X	
7	535XMRSFD-GR	02/07/09	14:20	FW	4	1-L Amber Glass	Ice		X	X	X		X		
8															
9	535XMDALR-FB	02/07/09	08:40	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X		
10					1	1-L Brown Poly	Ice							X	
11	535XMDALR-MS	02/07/09	08:40	FW	3	1-Gal Amber Glass	Ice	X	X	X	X	X	X		MATRIX SPIKE
12					1	1-L Brown Poly	Ice							X	MATRIX SPIKE
13	535XMDALR-GR2	02/07/09	08:40	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X		
14					1	1-L Brown Poly	Ice							X	
15															
16															
17															
18															

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	[signature]	Signature	[signature]
Print Name	JONATHAN KATZ	Print Name	DOUG RICHARDS
Organization	MLJ LLC	Organization	EX MINE
Date	2/9/09	Time	8:15
Date	2-9-09	Time	1245
Received By		**Received By**	
Signature	[signature]	Signature	[signature]
Print Name	DOUG RICHARDS	Print Name	Tom Vong
Organization	EX MINE	Organization	Appl Fnc
Date	2-9-09	Time	615
Date	2/9/09	Time	1250

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

Administrative Record
Page 16579

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name:	MLJ-LLC
Address:	1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By:	F. Wulff, S. Henderson
Phone:	(530) 756-5200
Fax:	(530) 756-5225
Project Manager:	Michael Johnson
Project Name:	East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organochlorine pesticides by EPA 8081A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A*	Paraquat dichloride by EPA 549.1	SAMPLE COMMENTS
1	~~535XHLAHQ-GR~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	X			Dry Site
2					1	1-L Brown Poly	Ice							X	
3	535XDCAGR-GR	02/07/09	11:00	FW	5	1-L Amber Glass	Ice	X	X	X	X	X			
4					1	1-L Brown Poly	Ice							X	
5	535XDSAGR-GR	02/07/09	12:40	FW	3	1-L Amber Glass	Ice			X	X				
6															
7	~~545XASAAT-GR~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	X			Dry Site
8					1	1-L Brown Poly	Ice							X	
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature		Signature	
Print Name	JONATHAN KATZ	Print Name	DOUG RICHARDS
Organization	MLJ LLC	Organization	EA MVE
Date	2/9/09	Time	8:15
Date	2-9-09	Time	1245
Received By		**Received By**	
Signature		Signature	
Print Name	DOUG RICHARDS	Print Name	Tom Vong
Organization	EA MVE	Organization	Appl Inc
Date	2-9-09	Time	815
Date	2/9/09	Time	1250

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

Administrative Record
Page 16580

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: J. Katz, S. Henderson
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organochlorine pesticides by EPA 8081A*	Organophosphorus pesticides by EPA 8141A*	Methamidphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A*	Paraquat dichloride by EPA 549.1	SAMPLE COMMENTS
1	535XMDALR-GR	3/17/09	8:50	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X		
2					1	1-L Brown Poly	Ice							X	
3	~~535CTHNKR-GR~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X		SITE DRY
4					1	1-L Brown Poly	Ice							X	
5	535XMCAEA-GR	3/17/09	14:20	FW	5	1-L Amber Glass	Ice	X	X	X	X	X			
6					1	1-L Brown Poly	Ice							X	
7	535XMDALR-GR2	3/17/09	8:50	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X		
8					1	1-L Brown Poly	Ice							X	
9	535XMDALR-FB	3/17/09	8:50	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X		
10					1	1-L Brown Poly	Ice							X	
11	535XMDALR-MS	3/17/09	8:50	FW	3	1-Gal Amber Glass	Ice	X	X	X	X	X	X		MATRIX SPIKE
12					1	1-L Brown Poly	Ice							X	MATRIX SPIKE
13															
14															
15															
16															
17															
18															

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	Jonathan Katz	Signature	Doug Richards
Print Name	JONATHAN KATZ	Print Name	DOUG RICHARDS
Organization	MLJ-LLC	Organization	~~ESP~~ MLE
Date	3/17/09	Time	15:12
Date	3-17-09	Time	1755
Received By		**Received By**	
Signature	Doug Richards	Signature	Chue Fue Moua
Print Name	DOUG RICHARDS	Print Name	Chue Fue Moua
Organization	ESP MLE	Organization	APPL INC
Date	3-17-09	Time	1512
Date	3-17-09	Time	1755

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L. JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: F. Wulff M. Turner
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organochlorine pesticides by EPA 8081A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A*	Paraquat dichloride by EPA 549.1	SAMPLE COMMENTS
1	~~535XHLAHQ-GR~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	X			Dry site
2					1	1-L Brown Poly	Ice							X	
3	535XDCAGR-GR	03/17/09	10:30	FW	5	1-L Amber Glass	Ice	X	X	X	X	X			
4					1	1-L Brown Poly	Ice							X	
5	535XDSAGR-GR	03/17/09	11:20	FW	3	1-L Amber Glass	Ice			X	X				
6															
7	~~545XASAAT-GR~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	X			Dry site
8					1	1-L Brown Poly	Ice							X	
9	~~535XMCAEA-GR~~	~~03/17/09~~	~~14:20~~	~~FW~~	5	1-L Amber Glass	Ice	X	X	X	X	X			on other COC
10					1	1-L Brown Poly	Ice							X	
11	535XMRSED	03/17/09	13:20	FW	4	1L Amber	Ice		X	X			X		
12															
13															
14															
15															
16															
17															
18															

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By	Relinquished By
Signature: Melissa Turner	Signature:
Print Name: Melissa Turner	Print Name: DOUG RICHARDS
Organization: MLJ-LLC	Organization: Ex MILE
Date: 3/17/09 Time: 15:20	Date: 3-17-09 Time: 1755
Received By	**Received By**
Signature:	Signature: Chue Fue Mona
Print Name: DOUG RICHARDS	Print Name: Chue Fue Mona
Organization: Ex MILE	Organization: HAPPL Inc
Date: 3-17-09 Time: 1520	Date: 3-17-09 Time: 1755

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: FRANK WILKE, KRISTA CALLINAN
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organochlorine pesticides by EPA 8081A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A*	Paraquat dichloride by EPA 549.1	SAMPLE COMMENTS
1	535XMDALR-GR	4/21/09	9:00	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X		
2					1	1-L Brown Poly	Ice							X	
3	535LTHNKR-GR	4/21/09	12:50	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X		
4					1	1-L Brown Poly	Ice							X	
5	~~535XMCAFA-GR~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	X			Dry Site
6					1	1-L Brown Poly	Ice							X	
7	535XMDALR-GR2	4/21/09	9:00	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X		
8					1	1-L Brown Poly	Ice							X	
9	535XMDALR-FB	4/21/09	9:00	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X		
10					1	1-L Brown Poly	Ice							X	
11	535XMDALR-MS	4/21/09	9:00	FW	3	1-Gal Amber Glass	Ice	X	X	X	X	X	X		MATRIX SPIKE
12					1	1-L Brown Poly	Ice							X	MATRIX SPIKE
13	535XMRSFD-GR	4/21/09	15:50	FW	4	1-L Amber Glass	Ice		X	X	X		X		
14															
15															
16															
17															
18															

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	Allison Siadatan	Signature	
Print Name	Allison Siadatan	Print Name	DOUG RICCARDS
Organization	MLJ-LLC	Organization	BP MILE
Date	04/22/09	Time	08:40
Date	4-22-09	Time	1215
Received By		**Received By**	
Signature		Signature	
Print Name	DOUG RICCARDS	Print Name	Tom Vons
Organization	BP MILE	Organization	Appl Inc
Date	4-22-09	Time	0840
Date	4/22/09	Time	1216

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: J. Katz, S. Henderson
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organochlorine pesticides by EPA 8081A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A*	Paraquat dichloride by EPA 549.1	SAMPLE COMMENTS
1	535XHLAHO-GR	4/21/09	14:30	FW	5	1-L Amber Glass	Ice	X	X	X	X	X			
2					1	1-L Brown Poly	Ice							X	
3	535XDCAGR-GR	4/21/09	12:00	FW	5	1-L Amber Glass	Ice	X	X	X	X	X			
4					1	1-L Brown Poly	Ice							X	
5	535XDSAGR-GR	4/21/09	13:20	FW	3	1-L Amber Glass	Ice			X	X				
6															
7	535XASAAT-GR	DRY SITE		FW	5	1-L Amber Glass	Ice	X	X	X	X	X			DRY Site
8					1	1-L Brown Poly	Ice							X	
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By	Relinquished By
Signature: Allison Siadatan	Signature: Doug Rectenwens
Print Name: Allison Siadatan	Print Name: Doug Rectenwens
Organization: MLJ-LLC	Organization: Ex MILE
Date: 4/22/09 Time: 08:40	Date: 4-22-09 Time: 1215
Received By	**Received By**
Signature: Doug Rectenwens	Signature:
Print Name: Doug Rectenwens	Print Name: tom Vons
Organization: Ex MILE	Organization: Appl Inc
Date: 4-22-09 Time: 0840	Date: 4/22/09 Time: 1216

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name:	MLJ-LLC
Address:	1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By:	JONATHAN KATZ, KRISTA CALLINAN
Phone:	(530) 756-5200
Fax:	(530) 756-5225
Project Manager:	Michael Johnson
Project Name:	East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organophosphorus pesticides by EPA 8141A*	Methamidophos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	SAMPLE COMMENTS
1	535XMDALR-GR	5/19/09	9:00	FW	5	1-L Amber Glass	Ice	X	X	X	X	
2	535LTHNKR-GR	5/19/09	13:00	FW	5	1-L Amber Glass	Ice	X	X	X	X	
3	~~535XMCAEA-GR~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	site dry
4	535XMDALR-GR2	5/19/09	9:00	FW	5	1-L Amber Glass	Ice	X	X	X	X	
5	535XMDALR-FB	5/19/09	9:00	FW	5	1-L Amber Glass	Ice	X	X	X	X	
6	535XMDALR-MS	5/19/09	9:00	FW	3	1-Gal Amber Glass	Ice	X	X	X	X	MATRIX SPIKE
7	535XMRSFD-GR	5/19/09	15:30	FW	4	1-L Amber Glass	Ice		X	X		
8												
9												

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature		Signature	
Print Name	JONATHAN KATZ	Print Name	DOUG RICHARDS
Organization	MLJ LLC	Organization	FGE MILF
Date / Time	05/19/09 16:53	Date / Time	5-19-09 1800
Received By		**Received By**	
Signature		Signature	
Print Name	DOUG RICHARDS	Print Name	Tom Vons
Organization	FGE MLF	Organization	Apple Inc
Date / Time	5-19-09 1653	Date / Time	5/20/09 800

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: F. Wulff, S. Henderson
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organophosphorus pesticides by EPA 8141A*	Methamidphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	SAMPLE COMMENTS
1	535XHLAHO-GR	5/19/09	14:40	FW	5	1-L Amber Glass	Ice	X	X	X	X	
2	535XDCAGR-GR	5/19/09	12:50	FW	5	1-L Amber Glass	Ice	X	X	X	X	
3	535XDSAGR-GR	5/19/09	13:40	FW	3	1-L Amber Glass	Ice		X	X		
4	545XASAAT-GR	5/19/09	11:30	FW	5	1-L Amber Glass	Ice	X	X	X	X	
5												
6												
7												
8												
9												

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature		Signature	
Print Name	Stephanie Henderson	Print Name	Doug Richards
Organization	MLJ, LLC	Organization	BY MILE
Date	05/19/09 Time 16:53	Date	5-19-09 Time 1830
Received By		**Received By**	
Signature		Signature	
Print Name	Doug Richards	Print Name	Tom Vons
Organization	BY MILE	Organization	Apple Inc
Date	5-19-09 Time 1653	Date	5/20/09 Time 800

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name:	MLJ-LLC
Address:	1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By:	F. Wulff, S. Henderson
Phone:	(530) 756-5200
Fax:	(530) 756-5225
Project Manager:	Michael Johnson
Project Name:	East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Organophosphates: Chlorpyrifos only, EPA 8141A	SAMPLE COMMENTS
1	535XDSAHN-GR	5/19/09	09:00	FW	2	1-L Amber Glass	Ice	X	**Chlorpyrifos Only**
2									
3									
4									
5									
6									
7									
8									
18									

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225
May Management Plan Sampling

Temperature at Log In:
(°C)

Relinquished By		Relinquished By	
Signature	[signature]	Signature	[signature]
Print Name	Stephanie Henderson	Print Name	Doug Richards
Organization	MLJ, LLC	Organization	ESO MLE
Date	05/19/09	Time	16:53
Date	5-19-09	Time	1800
Received By		**Received By**	
Signature	[signature]	Signature	[signature]
Print Name	DOUG RICHARDS	Print Name	Tom Vong
Organization	ESO MLE	Organization	Appl Inc
Date	5-19-09	Time	1653
Date	5/20/09	Time	800

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: JONATHAN KATZ, DANIEL GORSORAN
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organophosphorus pesticides by EPA 8141A*	Methamidphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	SAMPLE COMMENTS
1	535XMDALR-GR	6/16/09	9:20	FW	5	1-L Amber Glass	Ice	X	X	X	X	
2	53SLTHNKR-GR	6/16/09	12:20	FW	5	1-L Amber Glass	Ice	X	X	X	X	
3	~~535XMCALA-GR~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	Site Dry
4	535XMDALR-GR2	6/16/09	9:20	FW	5	1-L Amber Glass	Ice	X	X	X	X	
5	535XMDALR-FB	6/16/09	9:20	FW	5	1-L Amber Glass	Ice	X	X	X	X	
6	535XMDALR-MS	6/16/09	9:20	FW	3	1-Gal Amber Glass	Ice	X	X	X	X	MATRIX SPIKE
7												
8												
9												

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature		Signature	
Print Name	JONATHAN KATZ	Print Name	DOUG RICHARDS
Organization	MLJ LLC	Organization	EF MILE
Date	6/16/09	Time	16:15
Date	6-16-09	Time	1730
Received By		**Received By**	
Signature		Signature	
Print Name	DOUG RICHARDS	Print Name	Tom Vong
Organization	EF MILE	Organization	Appl Inc
Date	6-16-09	Time	1615
Date	6/17/09	Time	800

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: F. Wulff, S. Henderson
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	SAMPLE COMMENTS
1	535XHLAHO-GR	6/16/09	13:30	FW	5	1-L Amber Glass	Ice	X	X	X	X	
2	535XDCAGR-GR	6/16/09	11:50	FW	5	1-L Amber Glass	Ice	X	X	X	X	
3	535XDSAGR-GR	6/16/09	12:30	FW	2	1-L Amber Glass	Ice	X				Carbofuran only
4	~~545XASAAT-GR~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	Dry Site
5	545XCCART-GR	6/16/09	10:20	FW	2	1-L Amber Glass	Ice				X	Simazine & Cyanazine only
6												
7												
8												
9												

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	Frank Wulff	Signature	
Print Name	Frank WOLFF	Print Name	DOUG RICHARDS
Organization	MLJ-LLC	Organization	EP MILE
Date / Time	6/16/09 16:15	Date / Time	6-16-09 1730
Received By		**Received By**	
Signature		Signature	
Print Name	DOUG RICHARDS	Print Name	Tom Vong
Organization	EP MILE	Organization	Appl Inc
Date / Time	6-16-09 1615	Date / Time	6/17/09 800

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: F. Wulf, S. Henderson
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organophosphorus pesticides by EPA 8141A*	Methamidphos by EPA 8141A*	Herbicides by EPA 649, EPA 8321, EPA 8141A*	SAMPLE COMMENTS
1	535XMDALR-GR	7/21/09	9:00	FW	5	1-L Amber Glass	Ice	X	X	X	X	
2	535LTHNKR-GR	7/21/09	13:30	FW	5	1-L Amber Glass	Ice	X	X	X	X	
3	~~535XMCAEA-GR~~			~~FW~~	~~5~~	~~1-L Amber Glass~~	~~Ice~~	X	X	X	X	DRY STRE
4	535XMDALR-GR2	7/21/09	9:00	FW	5	1-L Amber Glass	Ice	X	X	X	X	
5	535XMDALR-FB	7/21/09	9:00	FW	5	1-L Amber Glass	Ice	X	X	X	X	
6	535XMDALR-MS	7/21/09	9:00	FW	3	1-Gal Amber Glass	Ice	X	X	X	X	MATRIX SPIKE
7												
8												
9												

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By	Relinquished By
Signature	Signature
Print Name Stephanie Henderson	Print Name Doug Reutzel
Organization MLJ-LLC	Organization BC MLE
Date 07/21/2009 Time 19:20	Date 7-22-09 Time 0915
Received By	**Received By**
Signature	Signature
Print Name DOUG REUTZEL	Print Name Tom Vong
Organization BC MLE	Organization Appl
Date 7-21-09 Time 1920	Date 7/22/09 Time 0916

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name:	MLJ-LLC
Address:	1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By:	JONATHAN KATZ, BEN JANES
Phone:	(530) 756-5200
Fax:	(530) 756-5225
Project Manager:	Michael Johnson
Project Name:	East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organophosphorus pesticides by EPA 8141A*	Methamidphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	SAMPLE COMMENTS
1	535XHLAHO-GR	7/21/09	15:30	FW	5	1-L Amber Glass	Ice	X	X	X	X	
2	535XDCAGR-GR	7/21/09	12:30	FW	5	1-L Amber Glass	Ice	X	X	X	X	
3	535XDSAGR-GR	7/21/09	13:20	FW	2	1-L Amber Glass	Ice	X				Carbofuran only
4	~~545XASAAT-GR~~			~~FW~~	~~5~~	~~1-L Amber Glass~~	~~Ice~~	X	X	X	X	site dry
5	~~545XCCART-GR~~			FW	~~2~~	~~1-L Amber Glass~~	~~Ice~~				X	~~Simazine & Cyanazine only~~ site dry
6												
7												
8												
9												

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature		Signature	
Print Name	JONATHAN KATZ	Print Name	DOUG RICHARDS
Organization	MLJ-LLC	Organization	EC MLJ
Date	07/21/09	Time	19:20
Date	7-22-09	Time	0915
Received By		**Received By**	
Signature		Signature	
Print Name	DOUG RICHARDS	Print Name	Tom Vong
Organization	EC MLJ	Organization	Appl
Date	7-21-09	Time	1920
Date	7/22/09	Time	0916

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name:	MLJ-LLC
Address:	1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By:	F. Wulff, S. Henderson
Phone:	(530) 756-5200
Fax:	(530) 756-5225
Project Manager:	Michael Johnson
Project Name:	East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Organophosphates: Chlorpyrifos only, EPA 8141A	SAMPLE COMMENTS
1	535XDCWF-GR	7/21/09	11:50	FW	2	1-L Amber Glass	Ice	X	Chlorpyrifos Only
2	535DCAWR-GR	7/21/09	10:50	FW	1	1-L Amber Glass	Ice	X	Chlorpyrifos Only
3	535XDSAHN-GR	7/21/09	09:50	FW	2	1-L Amber Glass	Ice	X	Chlorpyrifos Only
4	535XHCHNN-GR	7/21/09	08:30	FW	2	1-L Amber Glass	Ice	X	Chlorpyrifos Only
5	535XHCALR-GR	7/21/09	16:40	FW	2	1-L Amber Glass	Ice	X	Chlorpyrifos Only
6	535XMCARR-GR	7/21/09	14:00	FW	2	1-L Amber Glass	Ice	X	Chlorpyrifos Only
7									
8									
9									

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to jkatz@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature		Signature	
Print Name	Stephanie Henderson	Print Name	Doug Richards
Organization	MLJ-LLC	Organization	EXP MLJ
Date / Time	07/21/2009 19:20	Date / Time	7-22-09 0915
Received By		**Received By**	
Signature		Signature	
Print Name	Doug Richards	Print Name	Tom Vorg
Organization	EXP MLJ	Organization	Appl
Date / Time	7-21-09 1920	Date / Time	7/22/09 0916

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

Administrative Record
Page 16592

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: F. WulFF, R. West
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	SAMPLE COMMENTS
1	535XMDALR-GR	8/18/09	09:30	FW	5	1-L Amber Glass	Ice	X	X	X	X	
2	535LTHNKR-GR	8/18/09	15:10	FW	5	1-L Amber Glass	Ice	X	X	X	X	
3	~~535XMGAEA-GR*~~			~~FW~~	5	~~1-L Amber Glass~~	~~Ice~~	X	X	X	X	Dry Site
4	535XMDALR-GR2	8/18/09	09:30	FW	5	1-L Amber Glass	Ice	X	X	X	X	
5	535XMDALR-FB	8/18/09	09:30	FW	5	1-L Amber Glass	Ice	X	X	X	X	
6	535XMDALR-MS	8/18/09	09:30	FW	3	1-Gal Amber Glass	Ice	X	X	X	X	MATRIX SPIKE
7												
8												
9												

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to fwulff@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	Frank WulFF	Signature	Doug Richards
Print Name	Frank WulFF	Print Name	DOUG RICHARDS
Organization	MLJ-LLC	Organization	Exp MILE
Date	8/19/09	Time	07:54
Date	8-19-09	Time	1135
Received By		**Received By**	
Signature	Doug Richards	Signature	
Print Name	DOUG RICHARDS	Print Name	Tom Vons
Organization	Exp MILE	Organization	Appl
Date	8-19-09	Time	0754
Date	8/19/09	Time	1135

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name:	MLJ-LLC
Address:	1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By:	S. Henderson, K. Collinan
Phone:	(530) 756-5200
Fax:	(530) 756-5225
Project Manager:	Michael Johnson
Project Name:	East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Organophosphates: Chlorpyrifos only, EPA 8141A	SAMPLE COMMENTS
1	535XDCWF-GR	8/18/09	13:30	FW	2	1-L Amber Glass	Ice	X	Chlorpyrifos Only
2	535DCAWR-GR	8/18/09	12:30	FW	2	1-L Amber Glass	Ice	X	Chlorpyrifos Only
3	~~535DMGANF-GR~~			~~FW~~	~~2~~	~~1-L Amber Glass~~	~~Ice~~	~~X~~	~~Chlorpyrifos Only~~ DRY SITE.
4	535XPFDCL-GR	8/18/09	16:40	FW	2	1-L Amber Glass	Ice	X	Chlorpyrifos Only
5	535XHCALR-GR	8/18/09	18:20	FW	2	1-L Amber Glass	Ice	X	Chlorpyrifos Only
6	535XMCARR-GR	8/18/09	13:20	FW	2	1-L Amber Glass	Ice	X	Chlorpyrifos Only
7									
8									
9									

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to fwulff@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	Frank Wulff	Signature	
Print Name	Frank WulFF	Print Name	Doug Richards
Organization	MLJ-LLC	Organization	Exp MLL
Date	8/19/09 Time 754	Date	8-19-09 Time 1135
Received By		**Received By**	
Signature		Signature	
Print Name	DOUG RICHARDS	Print Name	Tom Vong
Organization	Exp MLLE	Organization	Appl
Date	8-19-09 Time 754	Date	8/19/09 Time 1135

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L. JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name:	MLJ-LLC
Address:	1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By:	S. Hanlon, K. Collinan
Phone:	(530) 756-5200
Fax:	(530) 756-5225
Project Manager:	Michael Johnson
Project Name:	East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	SAMPLE COMMENTS
1	535XHLAHO-GR	8/18/09	16:30	FW	5	1-L Amber Glass	Ice	X	X	X	X	
2	535XDCAGR-GR	8/18/09	14:20	FW	5	1-L Amber Glass	Ice	X	X	X	X	
3	535XDSAGR-GR	8/18/09	15:40	FW	2	1-L Amber Glass	Ice	X				Carbofuran only
4	~~545XASAAT-GR~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	Dry Site
5	545XCCART-GR	8/18/09	10:40	FW	2	1-L Amber Glass	Ice				X	Simazine & Cyanazine only
6												
7												
8												
9												

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to fwulff@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	Frank Wulff	Signature	
Print Name	Frank Wulff	Print Name	Doug Richards
Organization	MLJ-LLC	Organization	Exp MLL
Date	8/19/09	Time	07:54
Date	8-19-09	Time	1135
Received By		**Received By**	
Signature		Signature	
Print Name	Doug Richards	Print Name	Tom Vong
Organization	Exp MLL	Organization	Appl
Date	8-19-09	Time	0754
Date	8/19/09	Time	1135

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: F. WulFF, D. Corcoran
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	SAMPLE COMMENTS
1	535XMDALR-GR	9/22/09	09:30	FW	5	1-L Amber Glass	Ice	X	X	X	X	
2	535LTHNKR-GR	9/22/09	12:20	FW	5	1-L Amber Glass	Ice	X	X	X	X	
3	~~535XMCAEA-GR~~			FW	5	~~1-L Amber Glass~~	~~Ice~~	X	X	X	X	Dry Site
4	535XMDALR-GR2	9/22/09	09:30	FW	5	1-L Amber Glass	Ice	X	X	X	X	
5	535XMDALR-FB	9/22/09	09:30	FW	5	1-L Amber Glass	Ice	X	X	X	X	
6	535XMDALR-MS	9/22/09	07:30	FW	3	1-Gal Amber Glass	Ice	X	X	X	X	MATRIX SPIKE
7												
8												
9												

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to fwulff@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	Frank WulFF	Signature	Doug Richards
Print Name	Frank WulFF	Print Name	Doug Richards
Organization	MLJ-LLC	Organization	EA MILE
Date	9/23/09	Time	08:30
Date	9-23-09	Time	1200
Received By		**Received By**	
Signature	Doug Richards	Signature	
Print Name	DOUG RICHARDS	Print Name	Tom Wong
Organization	EA MILE	Organization	Appl Inc
Date	9-23-09	Time	0830
Date	9/23/09	Time	1200

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: R. West, J. Swanson
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	SAMPLE COMMENTS
1	535XHLAHO-GR	9/22/09	1700	FW	5	1-L Amber Glass	Ice	X	X	X	X	
2	535XDCAGR-GR	9/22/09	1340	FW	5	1-L Amber Glass	Ice	X	X	X	X	
3	535XDSAGR-GR	9/22/09	1450	FW	2	1-L Amber Glass	Ice	X				Carbofuran only
4	~~545XASAAT-GR~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	site dry.
5	~~545XCCART-GR~~			FW	2	1-L Amber Glass	Ice				X	Simazine & Cyanazine only site dry
6												
7												
8												
9												

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to fwulff@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	Frank Wulff	Signature	Doug Richards
Print Name	Frank WulFF	Print Name	DOUG RICHARDS
Organization	MLJ-LLC	Organization	ESE MIKE
Date	9/23/09	Time	08:30
Date	9-23-09	Time	1200
Received By		**Received By**	
Signature	Doug Richards	Signature	
Print Name	DOUG RICHARDS	Print Name	Tom Vang
Organization	ESE MIKE	Organization	Appl Inc
Date	9-23,09	Time	0830
Date	9/23/09	Time	1200

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: R. West, J. Swanson
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Organophosphates: Chlorpyrifos only, EPA 8141A	SAMPLE COMMENTS
1	~~535DMCANE-GR~~			~~FW~~	~~2~~	~~1-L Amber Glass~~	~~Ice~~	X	~~Chlorpyrifos Only~~ Site dry
2	535XMCARR-GR	9/22/09	1240	FW	2	1-L Amber Glass	Ice	X	Chlorpyrifos Only
3	535XDSAHN-GR	9/22/09	0900	FW	2	1-L Amber Glass	Ice	X	Chlorpyrifos Only
4									
5									
6									
7									
8									
9									

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to fwulff@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By	Relinquished By
Signature: Frank Wulff	Signature:
Print Name: Frank WULFF	Print Name: DOUG RICHARDS
Organization: MLJ-LLC	Organization: EA MLE
Date: 9/23/09 Time: 08:30	Date: 9-23-09 Time: 1200
Received By	**Received By**
Signature:	Signature:
Print Name: DOUG RICHARDS	Print Name: Tom Vong
Organization: EA MLE	Organization: Appl Inc
Date: 9-23-09 Time: 0830	Date: 9/23/09 Time: 1200

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: F. WulFF, R. Weast
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	SAMPLE COMMENTS
1	535XMDALR-GR	10/20/09	09:00	FW	123 45 5	1-L Amber Glass	Ice	X	X	X	X	
2	535LTHNKR-GR	10/20/09	12:40	FW	123 45 5	1-L Amber Glass	Ice	X	X	X	X	
3	535XMCAEA-GR	10/20/09	15:20	FW	123 45 5	1-L Amber Glass	Ice	X	X	X	X	
4	535XMDALR-GR2	10/20/09	09:00	FW	123 45 5	1-L Amber Glass	Ice	X	X	X	X	
5	535XMDALR-FB	10/20/09	09:00	FW	123 45 5	1-L Amber Glass	Ice	X	X	X	X	
6	535XMDALR-MS	10/20/09	09:00	FW	111 3	1-Gal Amber Glass	Ice	X	X	X	X	MATRIX SPIKE
7												
8												
9												

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to fwulff@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	Frank WulFF	Signature	
Print Name	Frank WulFF	Print Name	Doug Richards
Organization	MLJ-LLC	Organization	EBMUD
Date	10/20/09	Time	08:45
Date	10-21-09	Time	1200
Received By		**Received By**	
Signature		Signature	
Print Name	Doug Richards	Print Name	Tom Young
Organization	EBMUD	Organization	Appl Inc
Date	10-21-09	Time	0845
Date	10/21/09	Time	1200

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

Administrative Record
Page 16599

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: F. Wulff, R. West
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	SAMPLE COMMENTS
1	535XHLAHO-GR	10-20-09	1350	FW	...-5	1-L Amber Glass	Ice	X	X	X	X	
2	535XDCAGR-GR	10-20-09	1130	FW	5	1-L Amber Glass	Ice	X	X	X	X	
3	535XDSAGR-GR	10-20-09	1230	FW	.. 2	1-L Amber Glass	Ice	X				Carbofuran only
4	~~545XASAAT-GR~~	—	—	FW	5	1-L Amber Glass	Ice	X	X	X	X	DRY
5	545XCCART-GR	10-20-09	0930	FW	.. 2	1-L Amber Glass	Ice				X	Simazine & Cyanazine only
6												
7												
8												
9												

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to fwulff@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	Rachel C. West	Signature	
Print Name	Rachel C. West	Print Name	DOUG RICHARDS
Organization	MLJ-LLC.	Organization	EC MILE
Date	10-21-09	Time	08:45
Date	10-21-09	Time	1200
Received By		**Received By**	
Signature		Signature	
Print Name	DOUG RICHARDS	Print Name	Tom Vong
Organization	EC MILE	Organization	Appl Inc
Date	10-21-09	Time	0845
Date	10/21/09	Time	1200

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

13

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 Drew Ave., Suite 175, Davis, CA 95618
Office: (530) 756-5200 Fax: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: F. WulFF, D. Corcoran
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organophosphorus pesticides by EPA 8141A*	Methamidophos by EPA 8141A*	Herbicides by EPA 610, EPA 8321, EPA 8141A*	SAMPLE COMMENTS
1	535XMDALR-GR	11-17-09	0930	FW	5	1-L Amber Glass	Ice	X	X	X	X	
2	~~535LTHNKR-GR~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	DRY SITE
3	~~535XMGAEA-GR~~			FW	5	1-L Amber Glass	Ice	X	X	X	X	
4	535XMDALR-GR2	11-17-09	0930	FW	5	1-L Amber Glass	Ice	X	X	X	X	
5	535XMDALR-FB	11-17-09	0930	FW	5	1-L Amber Glass	Ice	X	X	X	X	
6	535XMDALR-MS	11-17-09	0930	FW	3	1-Gal Amber Glass	Ice	X	X	X	X	MATRIX SPIKE
7												
8												
9												

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to fwulff@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By
Signature: [signature]
Print Name: Frank WulFF
Organization: MLJ-LLC
Date: 11/17/09 Time: 16:45

Received By
Signature: [signature]
Print Name: Doug Richards
Organization: Ex MLE
Date: 11-17-09 Time: 1645

Relinquished By
Signature: [signature]
Print Name: Doug Richards
Organization: Ex MLE
Date: 11-18-09 Time: 1000

Received By
Signature: [signature]
Print Name: Tom Vony
Organization: APPL Inc
Date: 11/18/09 Time: 1000

Matrix codes: **SED** = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name:	MLJ-LLC
Address:	1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By:	F. Wulff, D. Caruana
Phone:	(530) 756-5200
Fax:	(530) 756-5225
Project Manager:	Michael Johnson
Project Name:	East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	SAMPLE COMMENTS
1	~~536XHLAMO-GR~~			~~FW~~	~~5~~	~~1-L Amber Glass~~	~~Ice~~	~~X~~	~~X~~	~~X~~	~~X~~	→ Dry site
2	535XDCAGR-GR	11/17/09	11:20	FW	5	1-L Amber Glass	Ice	X	X	X	X	
3	535XDSAGR-GR	11/17/09	12:10	FW	2	1-L Amber Glass	Ice	X				Carbofuran only
4	~~545XASAAT-GR~~			~~FW~~	~~5~~	~~1-L Amber Glass~~	~~Ice~~	~~X~~	~~X~~	~~X~~	~~X~~	→Dry site
5	545XCCART-GR	11/17/09	09:40	FW	2	1-L Amber Glass	Ice				X	Simazine & Cyanazine only
6												
7												
8												
9												

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to fwulff@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In:
(°C)

Relinquished By		Relinquished By	
Signature		Signature	
Print Name	Frank Wulff	Print Name	Doug Richards
Organization	MLJ LLC	Organization	EX MIKE
Date	11/17/09	Time	16:45	Date	11-17-09	Time	1000
Received By		**Received By**	
Signature		Signature	
Print Name	Doug Richards	Print Name	Tom Vang
Organization	EX MIKE	Organization	Appl Inc
Date	11-17-09	Time	645	Date	11/18/09	Time	~~1000~~ 1000

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

12

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: F. Wulff, D. Corcoran
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Organophosphates: Chlorpyrifos only, EPA 8141A	SAMPLE COMMENTS
1	535XMRSFD-GR	11/17/09	14:30	FW	2	1-L Amber Glass	Ice	X	Chlorpyrifos Only
2	~~535DCAORD-GR~~			~~FW~~	~~2~~	~~1-L Amber Glass~~	~~Ice~~	X	~~Chlorpyrifos Only~~ Dry Site
3									
4									
5									
6									
7									
8									
9									

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to fwulff@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	Frank Wulff	Signature	
Print Name	Frank Wulff	Print Name	Doug Richards
Organization	MLJ-LLC	Organization	EP MLE
Date / Time	11/17/09 16:45	Date / Time	11-18-09 1000
Received By		**Received By**	
Signature		Signature	
Print Name	Doug Richards	Print Name	Tom Vong
Organization	EP MLE	Organization	Appl Inc
Date / Time	11-17-09 1645	Date / Time	11/18/09 1000

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

13

60537

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: F. WulFF J. Swanson
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organochlorine pesticides by EPA 8081A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A*	Paraquat dichloride by EPA 549.1	SAMPLE COMMENTS
1	535XHLAHO-GR			FW	5	1-L Amber Glass	Ice	X	X	X	X	X			Dry Side
2					1	1-L Brown Poly	Ice							X	
5	545XASAAT-GR			FW	5	1-L Amber Glass	Ice	X	X	X	X	X			Dry Side
6					1	1-L Brown Poly	Ice							X	
7	535XMRSFD-GR	12/15/09	14:40	FW	2	1-L Amber Glass	Ice			X			X		Group A pesticides and, Chlorpyrifos
8															
9	535XMRSFD-FB	12/15/09	14:40	FW	1	1-L Amber Glass	Ice						X		
10															
11	535XMRSFD-GR2	12/15/09	14:40	FW	1	1-L Amber Glass	Ice						X		
12															
13	535XMRSFD-MS	12/15/09	14:40	FW	2	1-L Amber Glass	Ice						X		MATRIX SPIKE
14															
15															
16															
17															
18															

Comments:

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* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	Frank Wulff	Signature	
Print Name	Frank Wulff	Print Name	Doug Richards
Organization	MLJ-LLC	Organization	EF Mile
Date	12/16/09	Time	6:10
Date	12-16-09	Time	0945
Received By		**Received By**	
Signature		Signature	
Print Name	Doug Richards	Print Name	Jesus Leon
Organization	EF Mile	Organization	Appl Inc
Date	12-16-09	Time	6:10
Date	12/16/09	Time	9:45

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

13

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APPL CHAIN-OF-CUSTODY RECORD

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Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: F. Wulff, J. Swanson
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbomate pesticides by EPA 8321A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	SAMPLE COMMENTS
1	545XCCART-GR	12/15/09	10:00	FW	2	1-L Amber Glass	Ice				X	Simazine & Cyanazine only
2	535XDSAGR-GR	12/15/09	14:40	FW	2	1-L Amber Glass	Ice	X				Carbofuran only
3												
4												
5												
6												
7												
8												
9												

Comments:

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(530) 756-5225, or email to fwulff@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	Frank Wulff	Signature	Doug Richards
Print Name	Frank Wulff	Print Name	Doug Richards
Organization	MLJ-LLC	Organization	EF MILE
Date	12/16/09	Time	6:10
Date	12-16-09	Time	0945
Received By		**Received By**	
Signature	Doug Richards	Signature	
Print Name	Doug Richards	Print Name	Jesus Leon
Organization	EF MILE	Organization	Apple Inc
Date	12-16-09	Time	6:10
Date	12/16/09	Time	9:45

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

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APPL CHAIN-OF-CUSTODY RECORD

Client Name:	MLJ-LLC
Address:	1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By:	F. WulFF, J. Swanson
Phone:	(530) 756-5200
Fax:	(530) 756-5225
Project Manager:	Michael Johnson
Project Name:	East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Organophosphates: Chlorpyrifos only, EPA 8141A	SAMPLE COMMENTS
1	~~S35DGAORD-GR~~			~~FW~~	2	~~1 L Amber Glass~~	~~Ice~~	X	~~Chlorpyrifos Only~~ Dry Site
2									
3									
4									
5									
6									
7									
8									
9									

Comments:

Please fax signed and completed COC to MLJ LLC:
(530) 756-5225, or email to fwulff@mlj-llc.com
* See project-specific guidelines for exact analyte list

Temperature at Log In: (°C)

Relinquished By		Relinquished By	
Signature	Frank Wulff	Signature	
Print Name	Frank WulFF	Print Name	DOUG RICHARDS
Organization	MLJ-LLC	Organization	BP MLE
Date	12/16/09	Time	6:10
Date	12-16-09	Time	945
Received By		**Received By**	
Signature		Signature	
Print Name	DOUG RICHARDS	Print Name	Jesus Lea
Organization	BP MLE	Organization	Appl Inc
Date	12-16-09	Time	6:10
Date	12/16/09	Time	9:45

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

Administrative Record
Page 16606

MICHAEL L JOHNSON LLC
ECOSYSTEMS CONSULTING
1490 DREW AVE., SUITE 175, DAVIS, CA 95618
OFFICE: (530) 756-5200 FAX: (530) 756-5225

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
Address: 1490 Drew Ave. Suite 175, Davis, CA 95618
Sampled By: F. WulFF, J. Swanson
Phone: (530) 756-5200
Fax: (530) 756-5225
Project Manager: Michael Johnson
Project Name: East San Joaquin Water Quality Coalition

	Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organochlorine pesticides by EPA 8081A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A*	Paraquat dichloride by EPA 549.1	SAMPLE COMMENTS
1	535XMDDLP-GR	12/15/09	8:50	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X		
2					1	1-L Brown Poly	Ice							X	
3	~~535LTHNKR-GR~~			~~FW~~	~~5~~	1-L Amber Glass	Ice	X	X	X	X	X	X		Dg site
4					1	1-L Brown Poly	Ice							X	
5	535XMCAEA-GR	12/15/09	1330	FW	5	1-L Amber Glass	Ice	X	X	X	X	X			
6					1	1-L Brown Poly	Ice							X	
7	535XDCAGR-GR2	12.15.09	1230	FW	5	1-L Amber Glass	Ice	X	X	X	X	X			
8					1	1-L Brown Poly	Ice							X	
9	535XDCAGR-FB	12.15.09	1230	FW	5	1-L Amber Glass	Ice	X	X	X	X	X			
10					1	1-L Brown Poly	Ice							X	
11	535XDCAGR-MS	12.15.09	1230	FW	3	1-Gal Amber Glass	Ice	X	X	X	X	X			MATRIX SPIKE
12					1	1-L Brown Poly	Ice							X	MATRIX SPIKE
13	535XDCAGR-GR	12.15.09	1230	FW	5	1-L Amber Glass	Ice	X	X	X	X	X			
14					1	1-L Brown Poly	Ice							X	
15															
16															
17															
18															

Comments:

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(530) 756-5225, or email to fwulff@mlj-llc.com
* See project-specific guidelines for exact analyte list

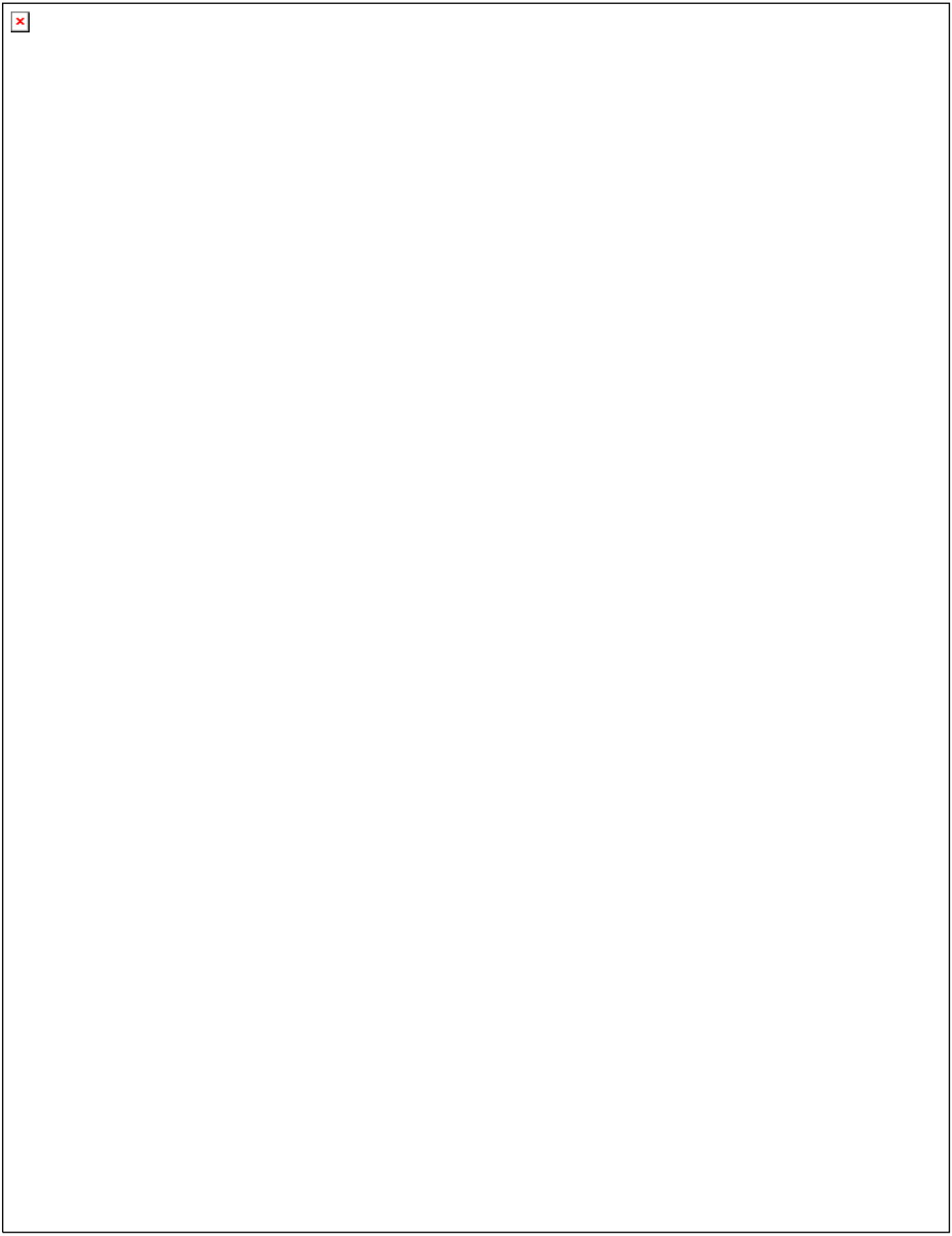
Temperature at Log In: (°C)

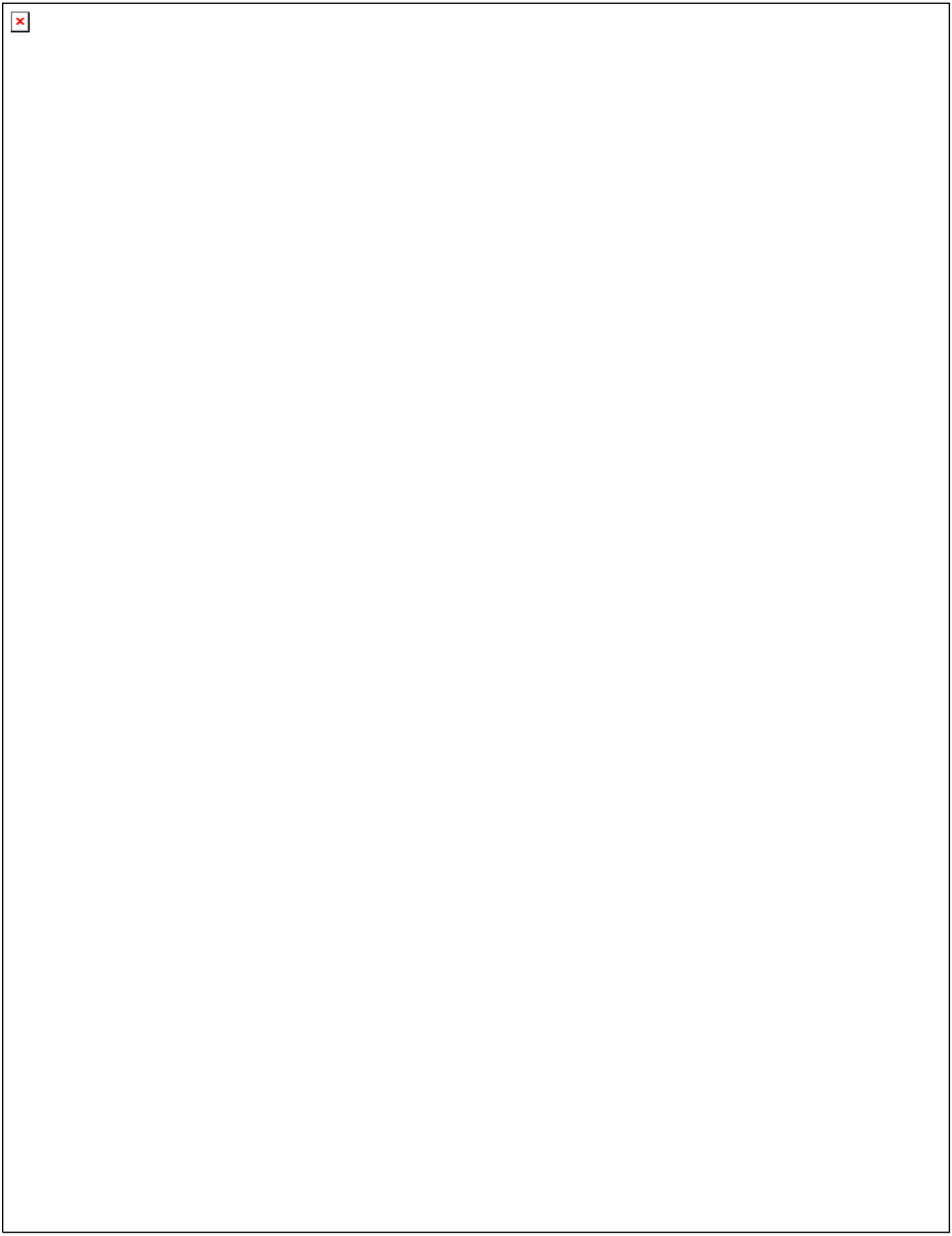
Relinquished By		Relinquished By	
Signature	Frank Wulff	Signature	
Print Name	Frank WulFF	Print Name	DOUG RICHARDS
Organization	MLJ-LLC	Organization	Ex MLE
Date	12/16/09	Time	6:10
Date	12-16-09	Time	0945
Received By		**Received By**	
Signature		Signature	
Print Name	DOUG RICHARDS	Print Name	Jesus Leon
Organization	Ex MLE	Organization	Apple Inc
Date	12-16-09	Time	6:10
Date	12/16/09	Time	9:45

Matrix codes: SED = sediment, **FW** = freshwater, **WW** = wastewater, **STRMW** = stormwater

Water Toxicity Analysis

AQUA-Science



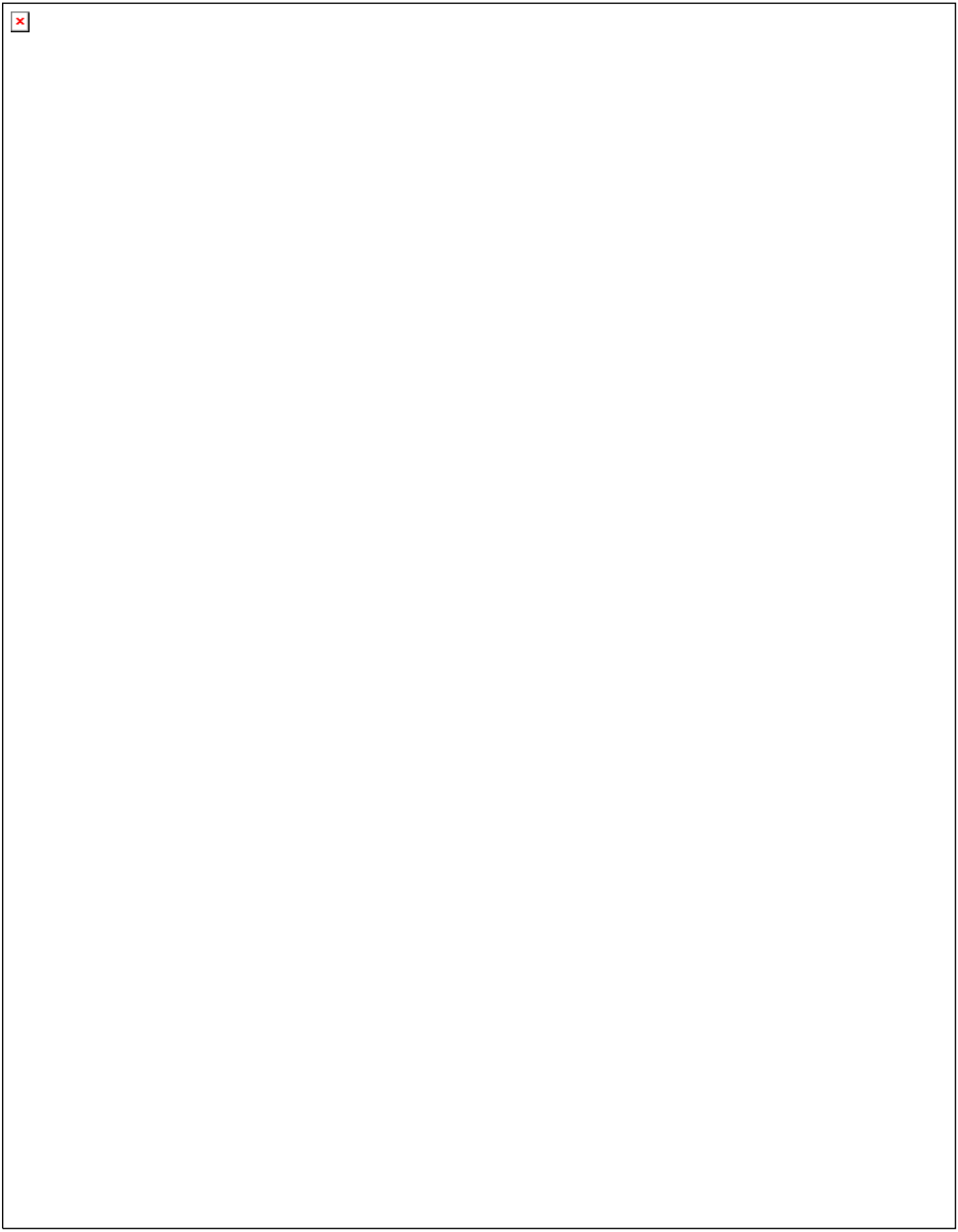


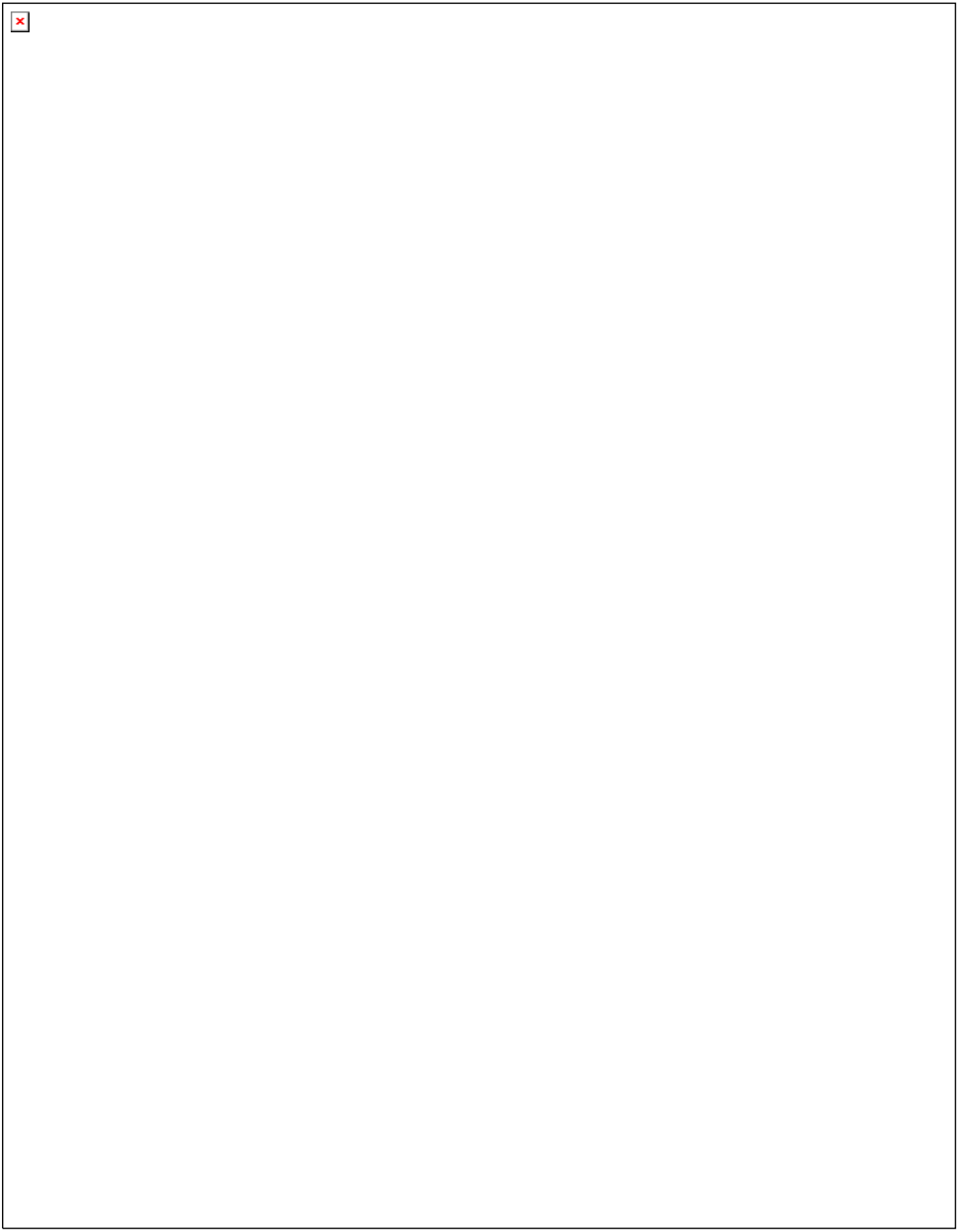
Sediment Toxicity Analysis

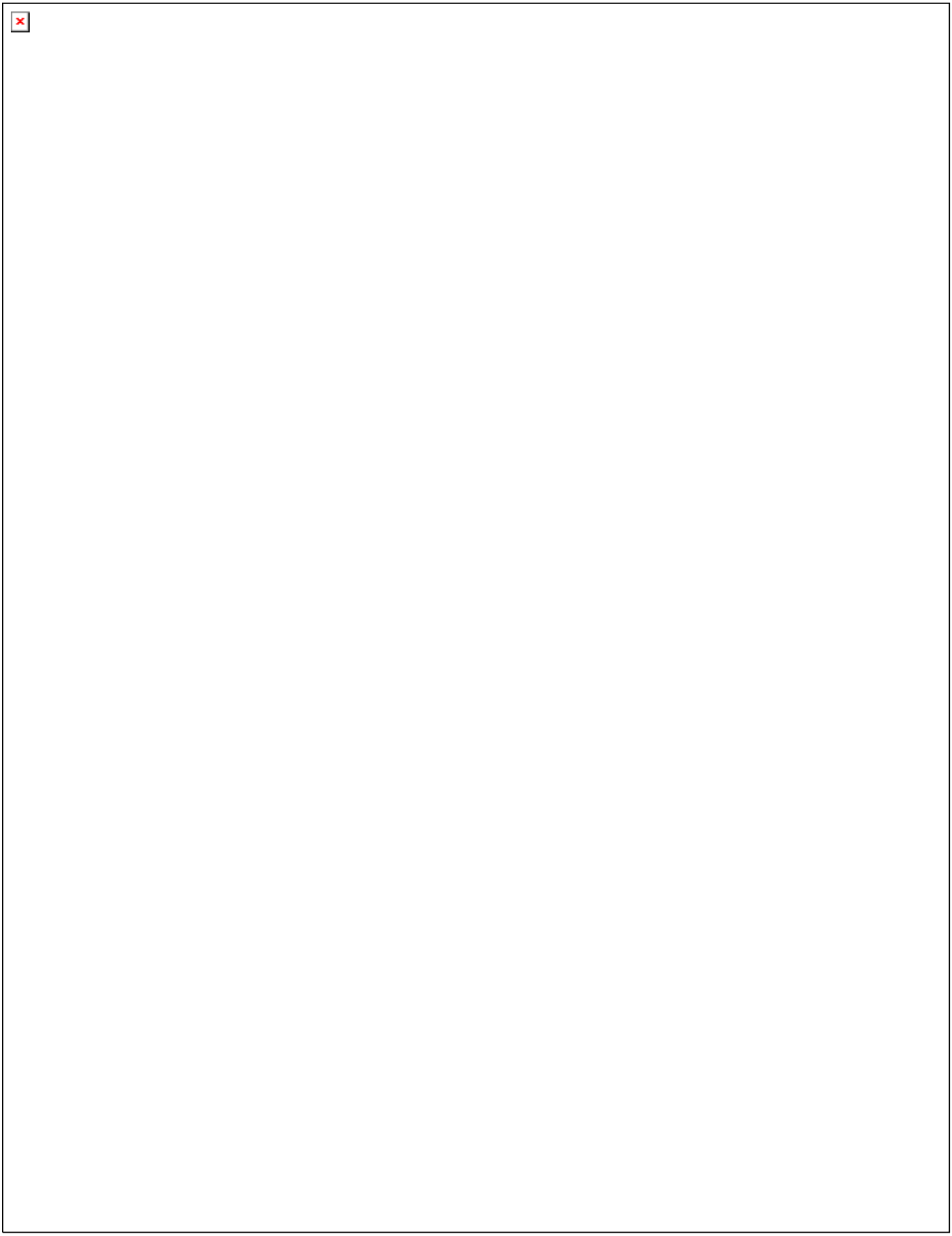
AQUA-Science

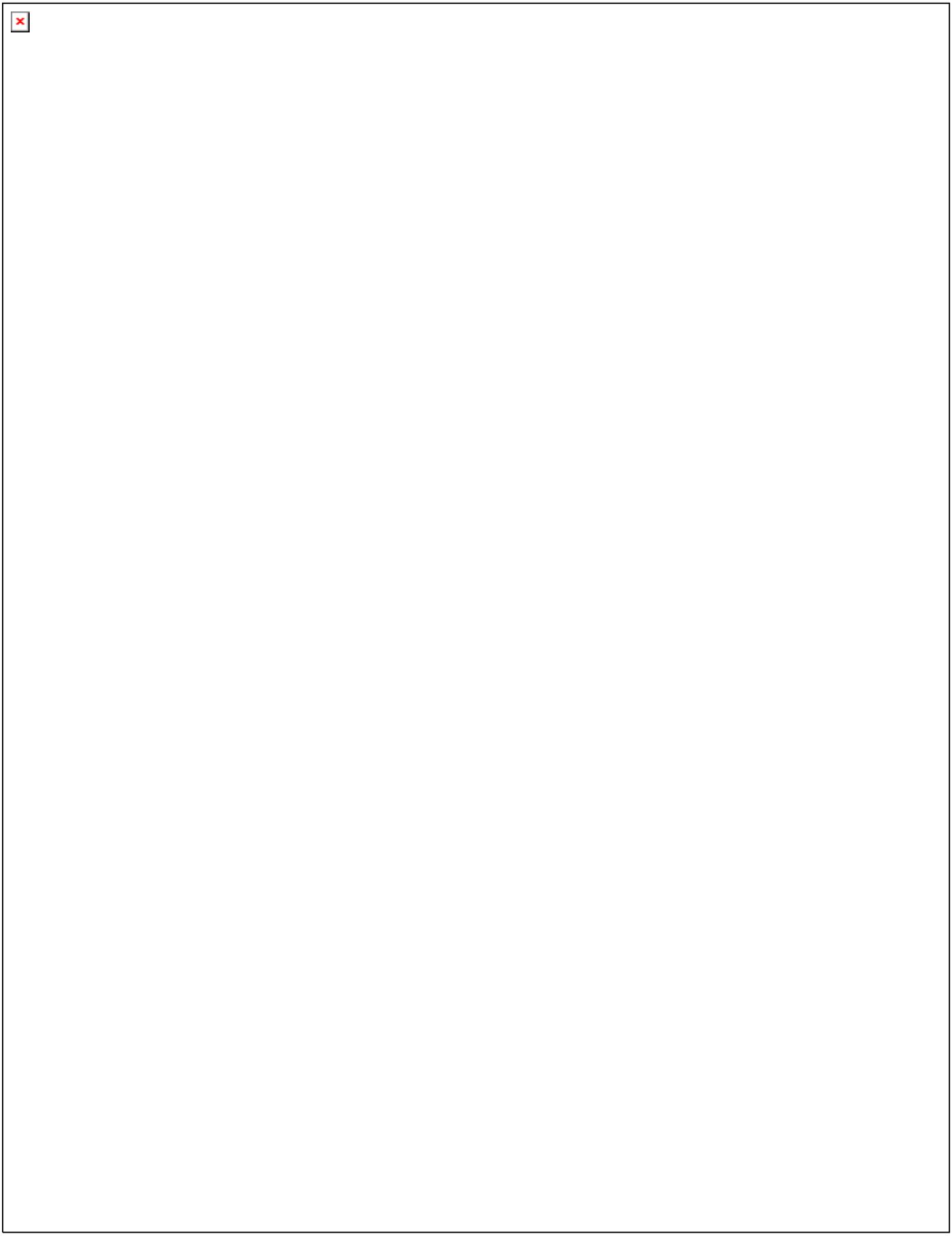
Inorganic Chemistry Analysis

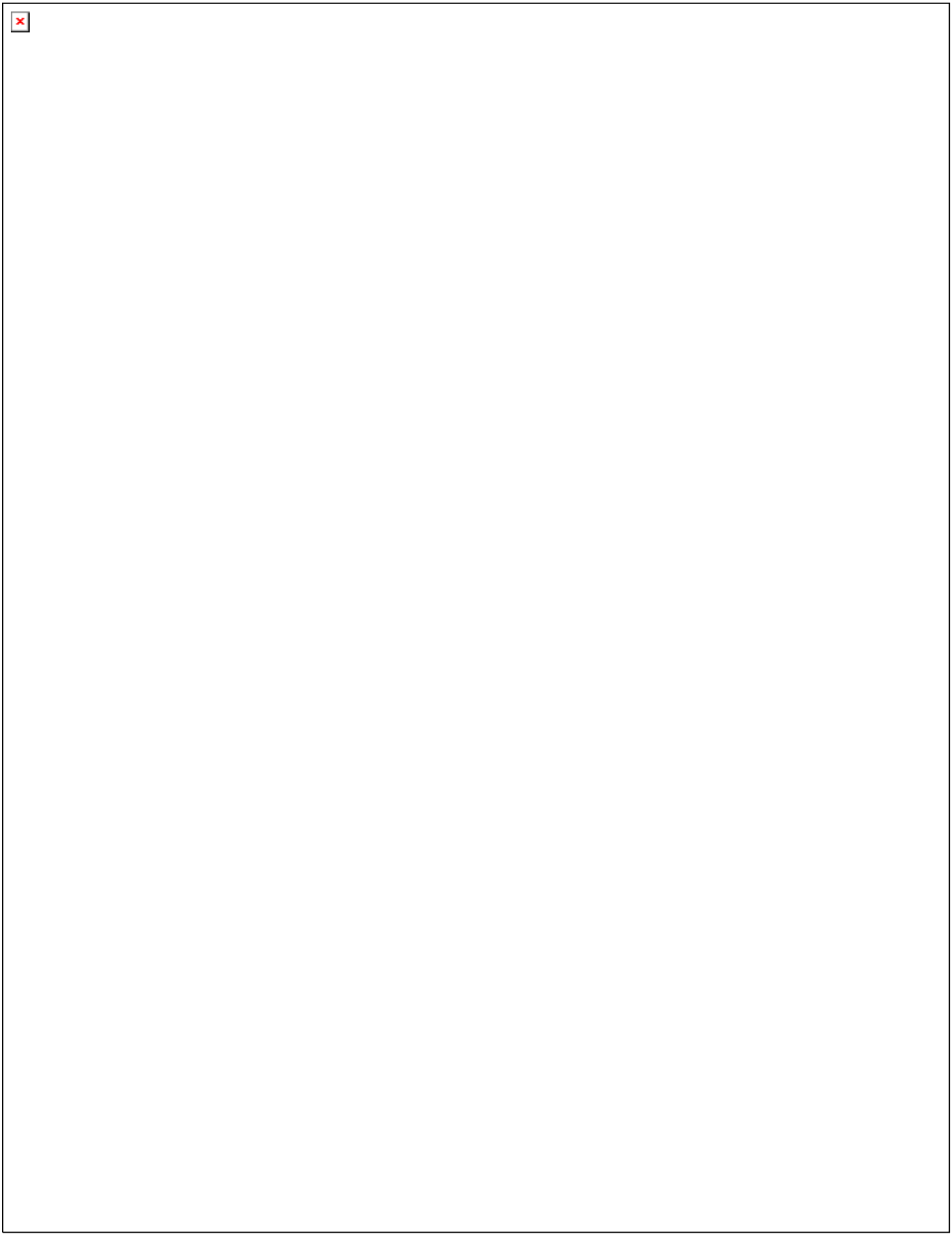
Caltest Laboratories

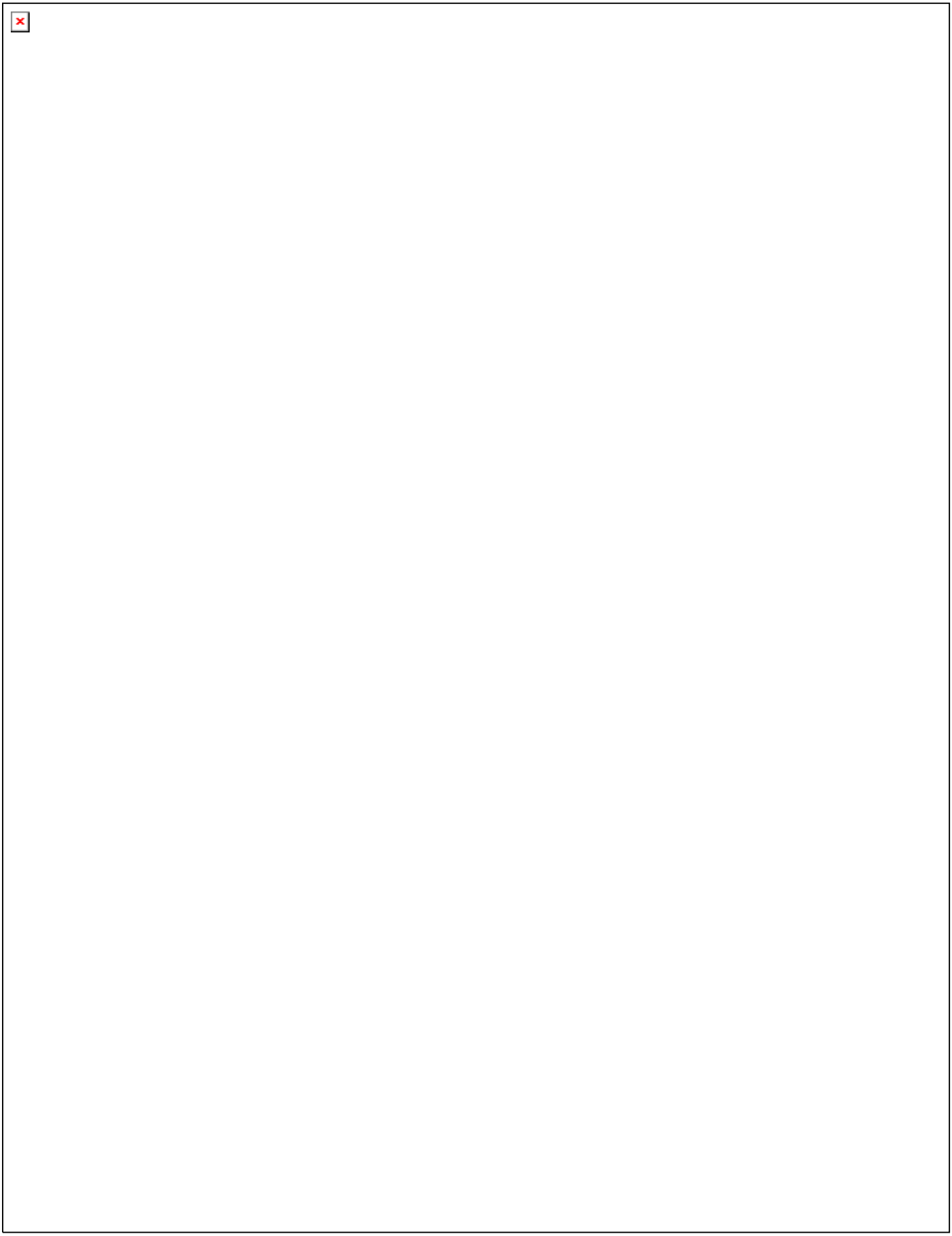


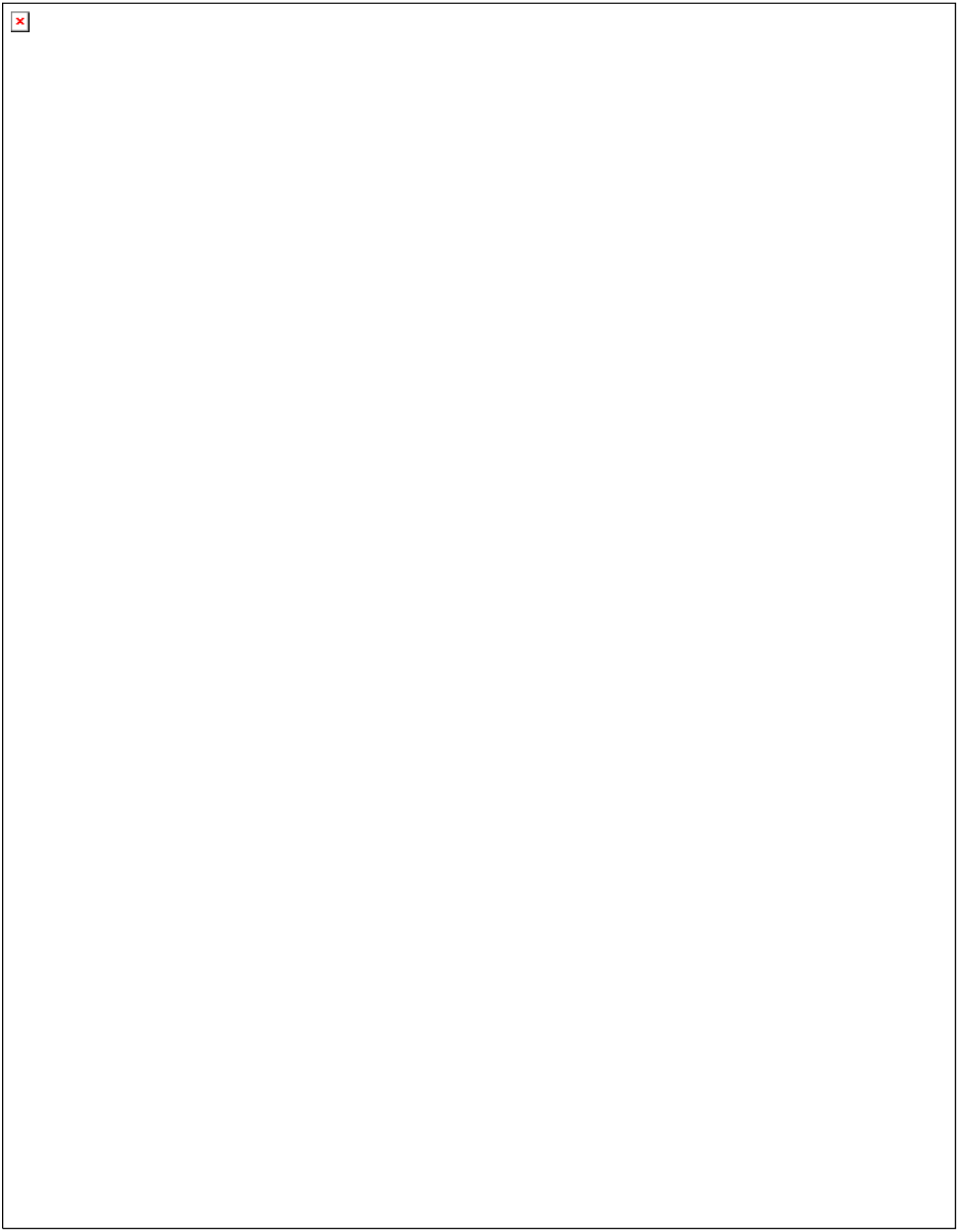


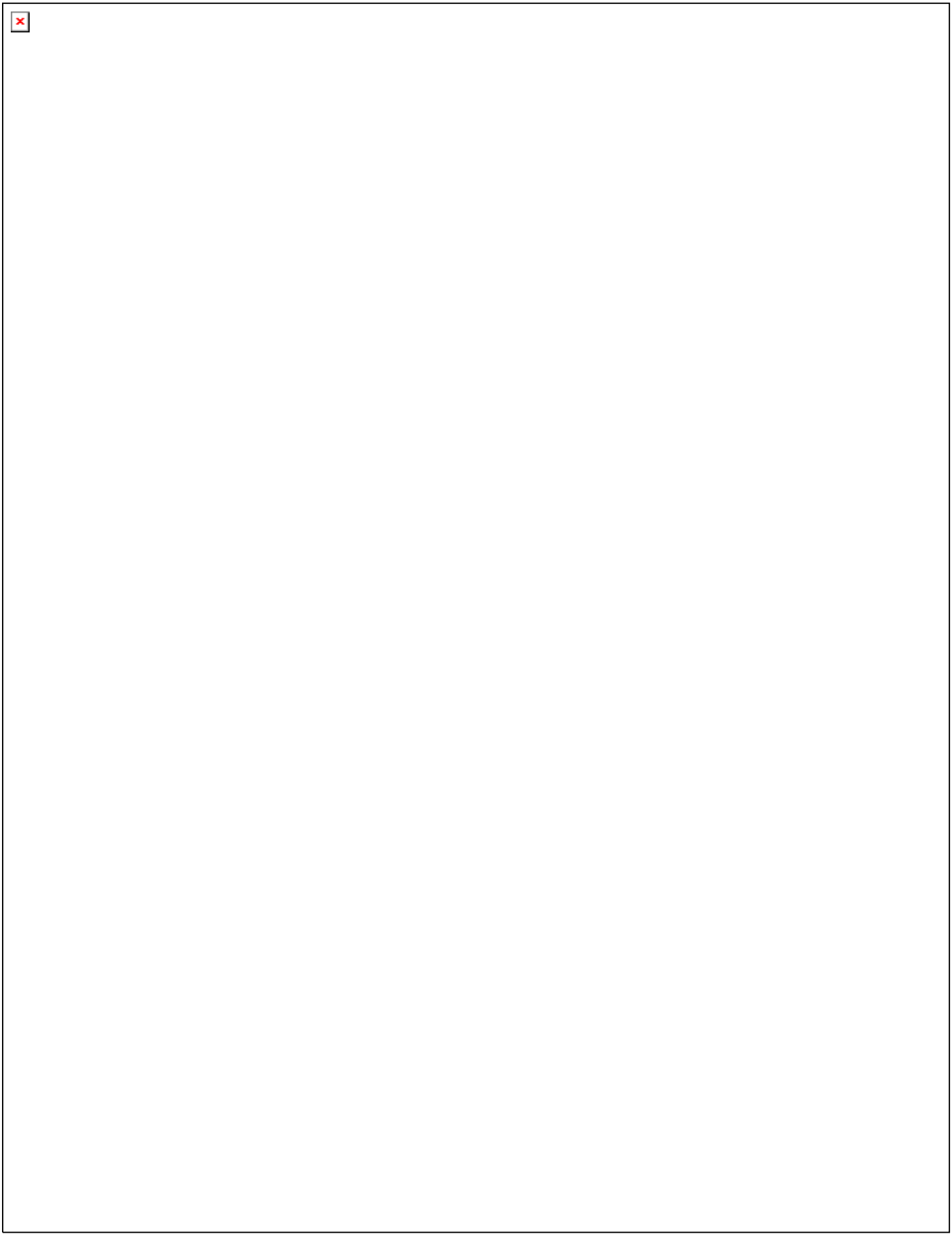


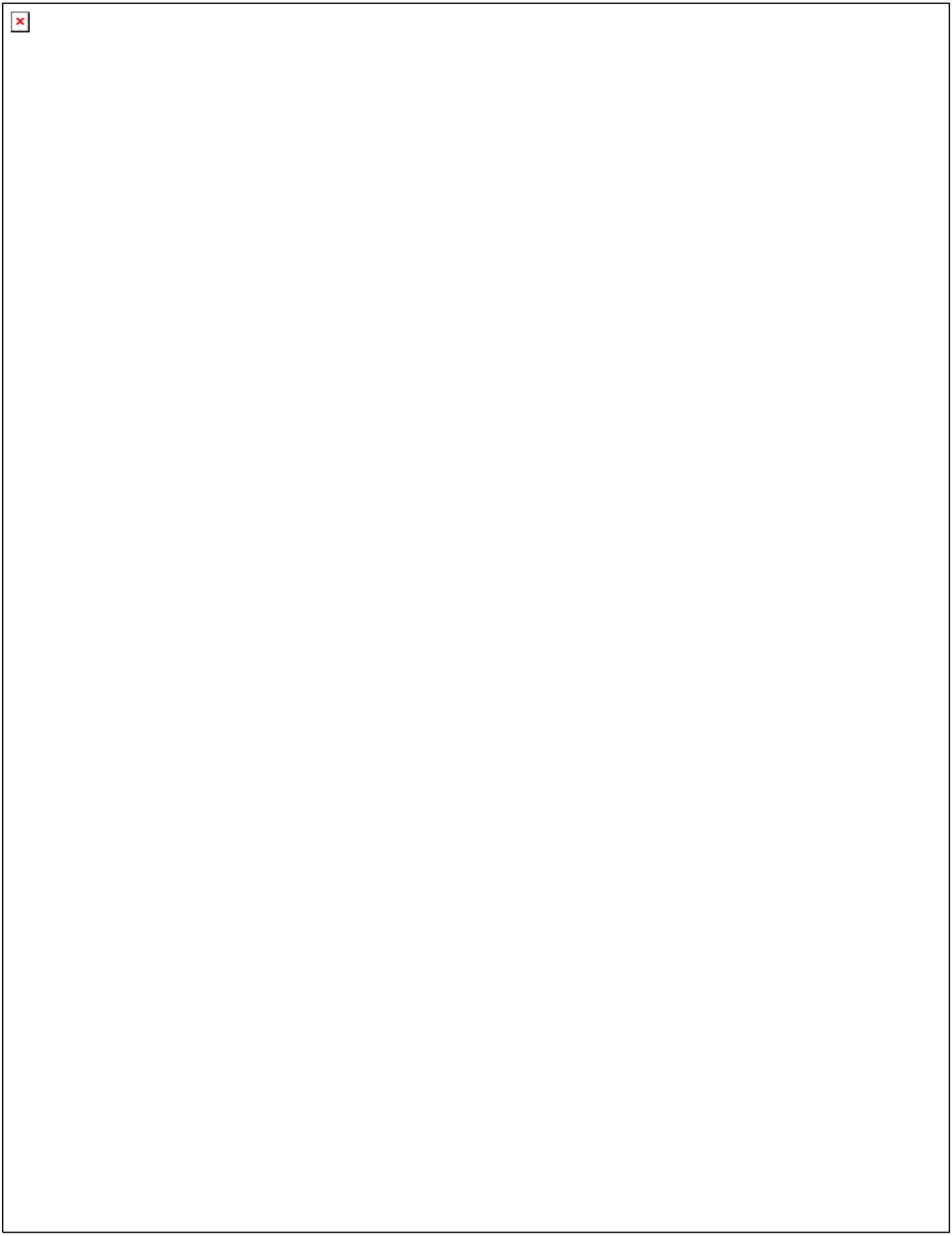


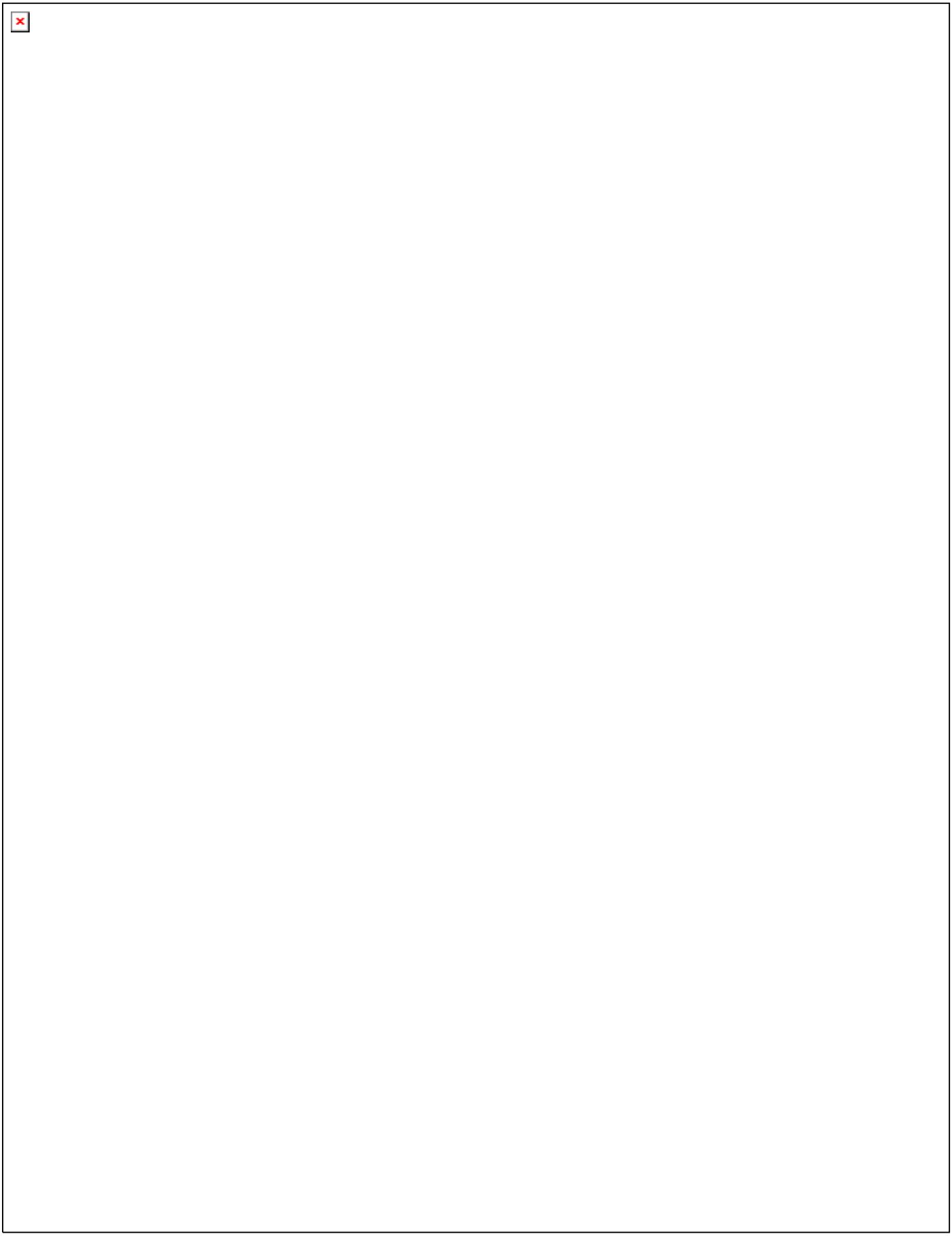


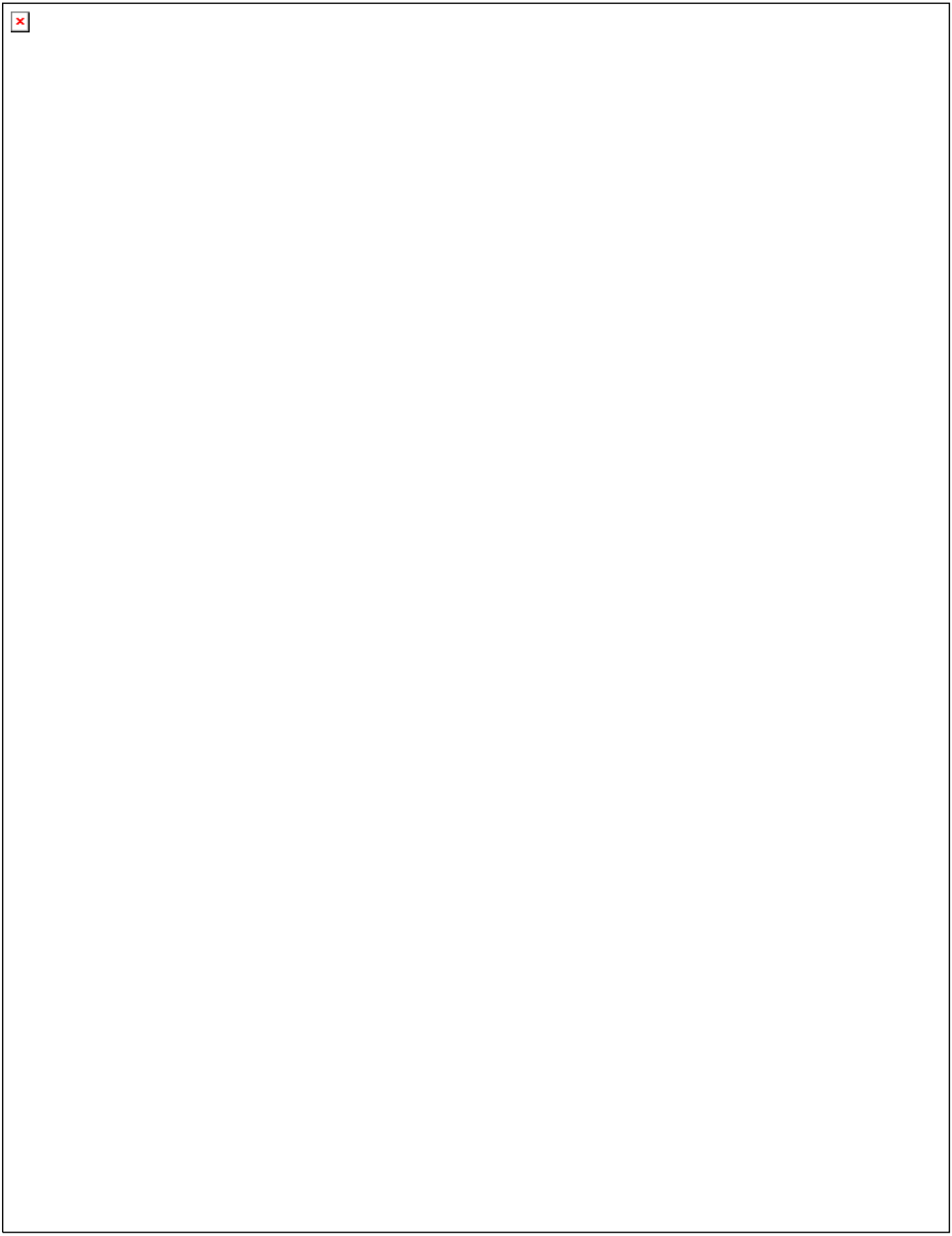


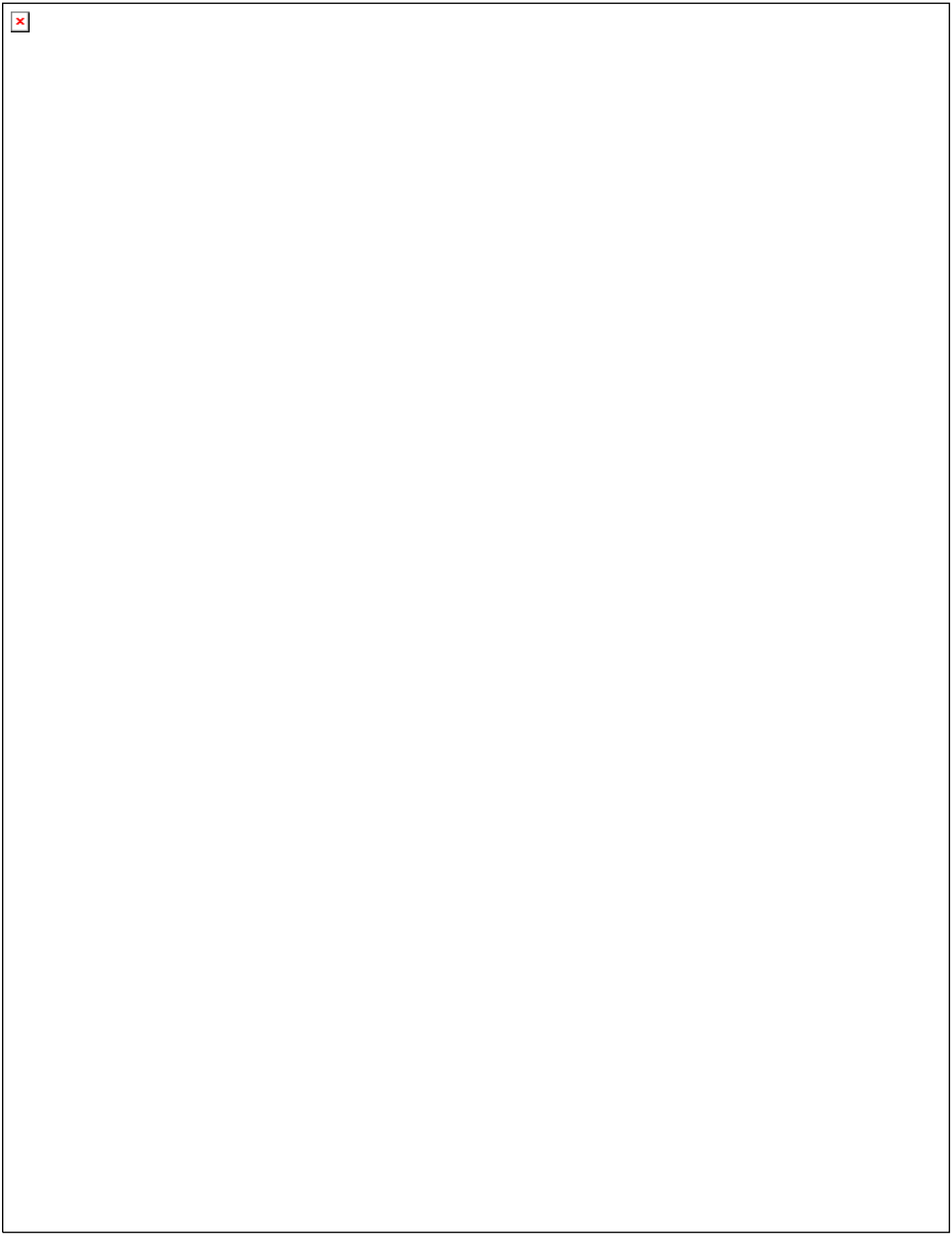


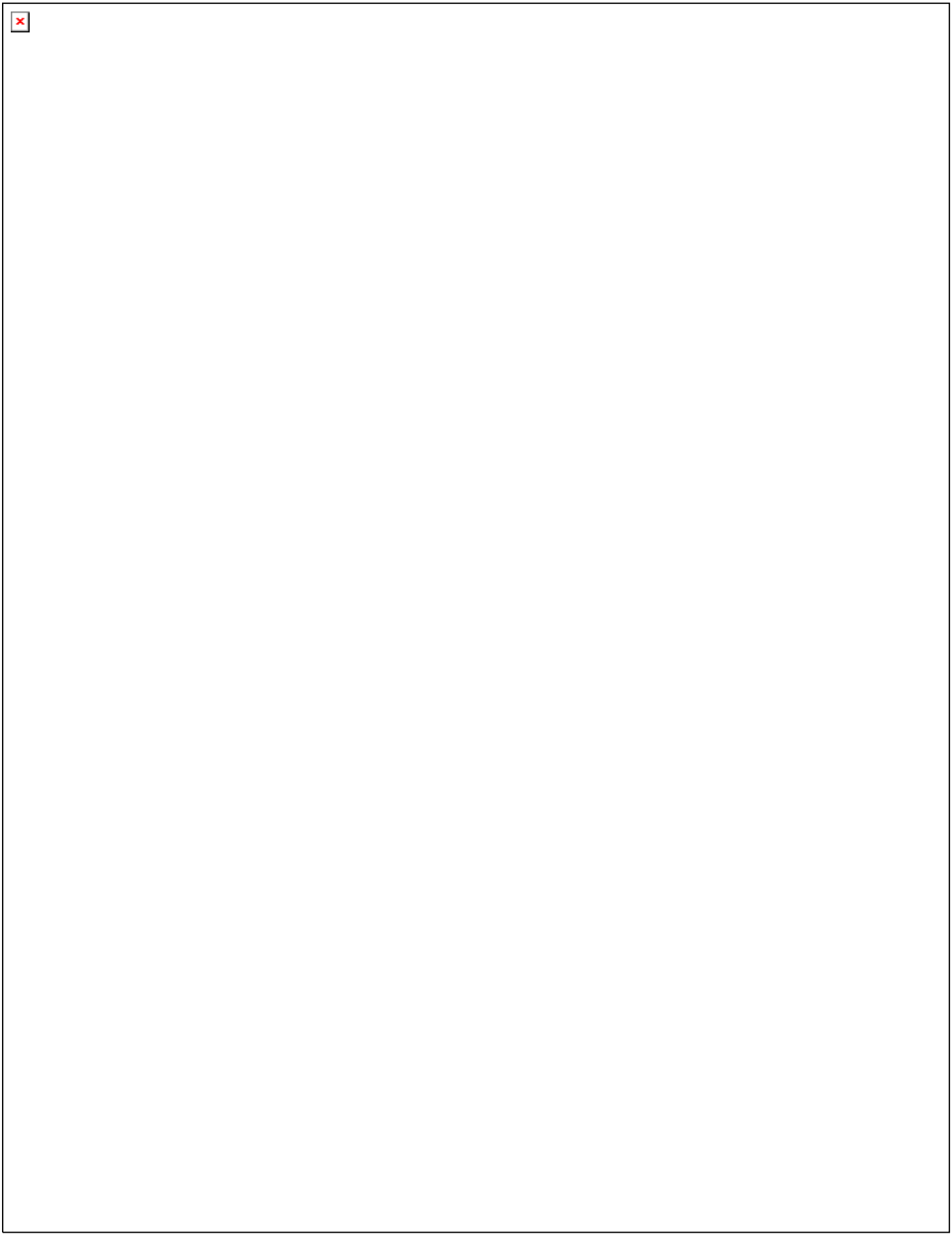






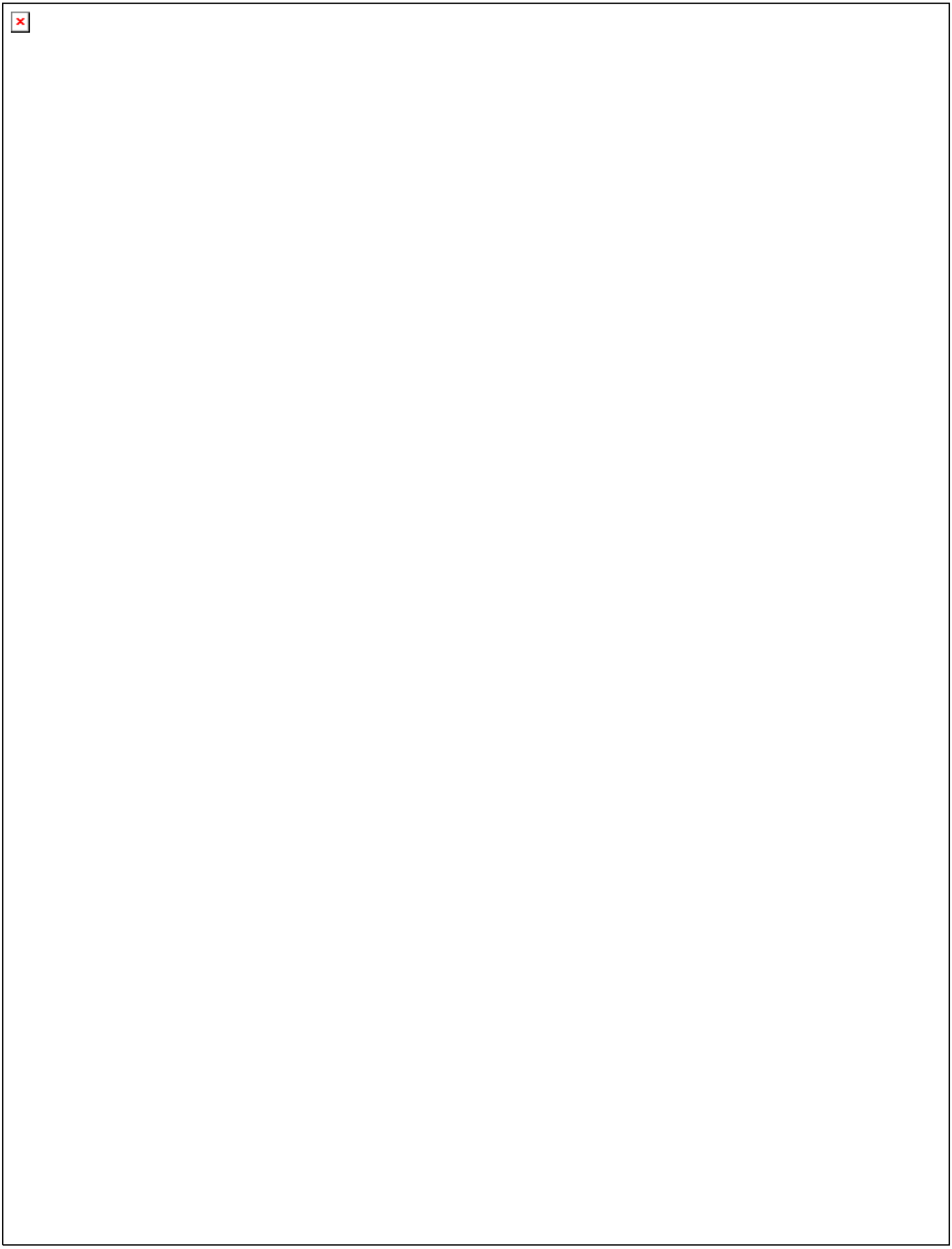


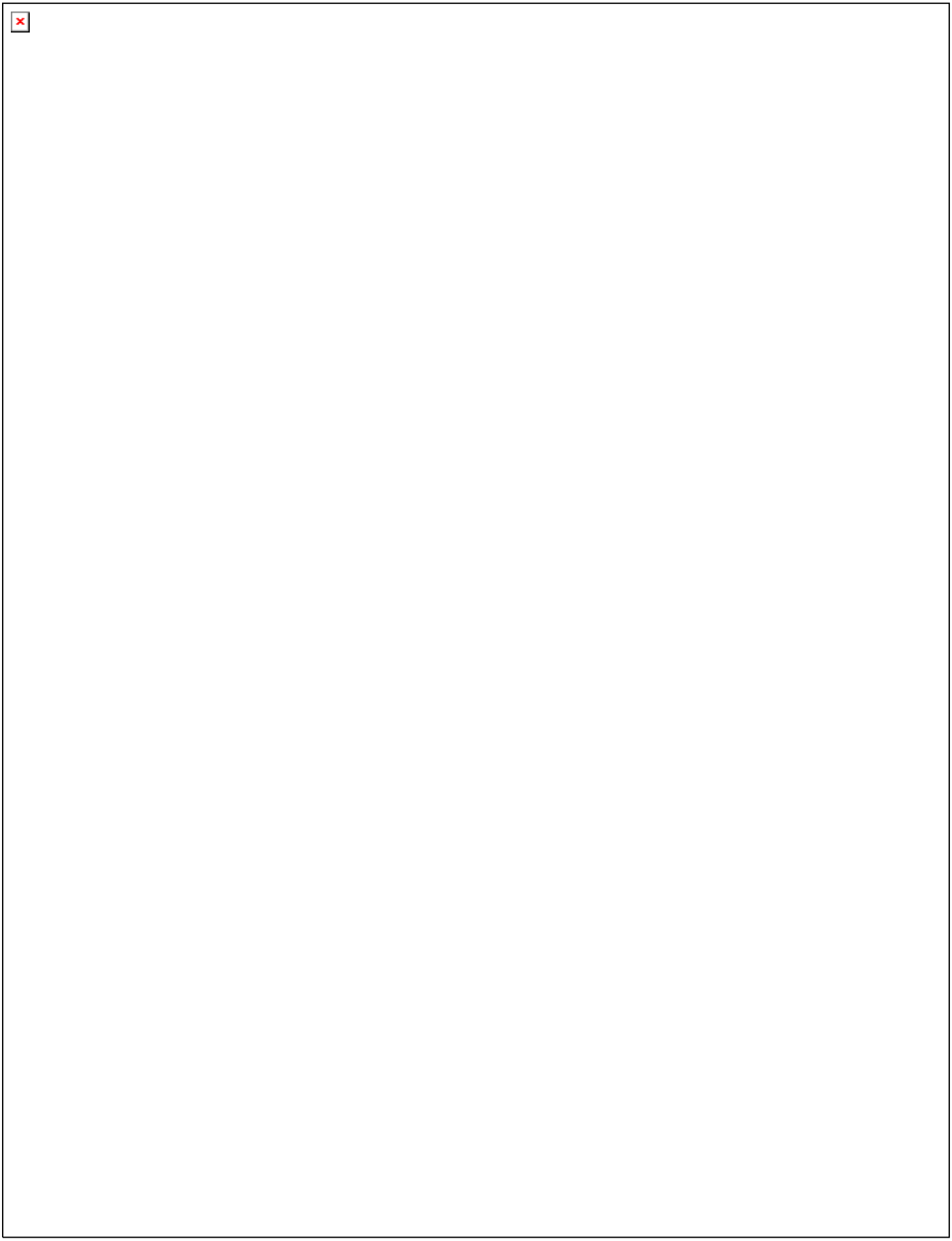


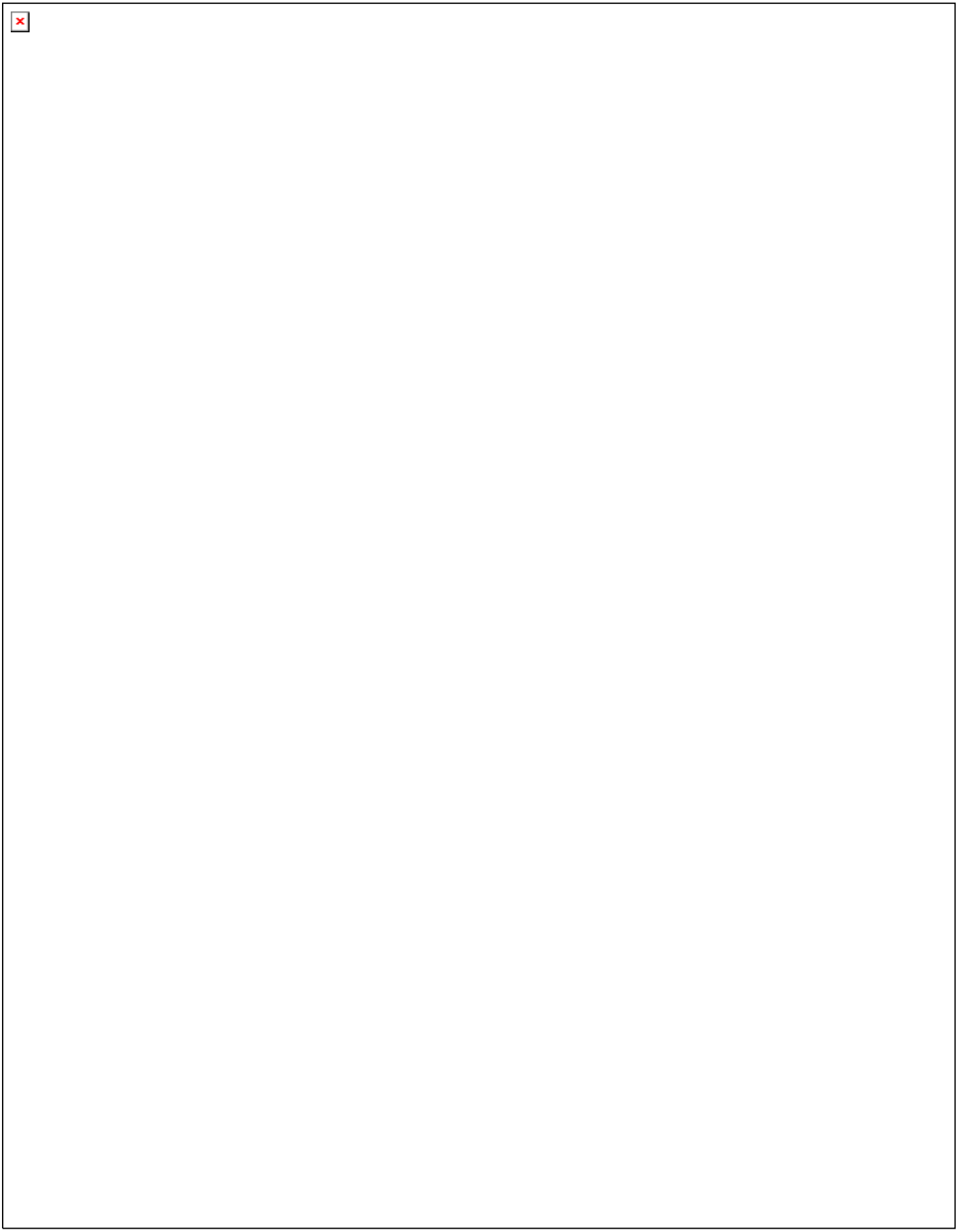


Glyphosate Chemistry Analysis

North Coast Laboratories (NCL)







Appendix II

Monitoring Results

Table of Contents

List of Acronyms 2
Table II - 1. Field parameter results. 3
Table II - 2. ESJWQC environmental sample results for organic analysis. 9
Table II - 3. ESJWQC environmental sample results for inorganic analysis including physical parameters, nutrients, metals and bacteria. 91
Table II - 4. ESJWQC calculated unionizd ammonia environmental results. 178
Table II - 5. ESJWQC environmental sample results for inorganic sediment analysis including grain size and TOC. 182
Table II - 6. ESJWQC water toxicity testing results. 186
Table II - 7. ESJWQC sediment toxicity testing results. 194
Table II - 8. Calculated Loads 195

List of Acronyms

AMR	Annual Monitoring Report
(D)	Dissolved
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethylene
DDT	Dichlorodiphenyltrichloroethane
DF	Dilution Factor
DNQ	Detected but Not Quantifiable
DO	Dissolved Oxygen
dw	Dry Weight
E	Environmental sample
EPA	Environmental Protection Agency
MDL	Minimum Detection Limit
MPM	Management Plan Monitoring
NA	Not Applicable
ND	Not Detected
NSG	Not statistically different from control and result is greater than 80% threshold
PR	Percent Recovery
RL	Reporting Limit
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SC	Specific Conductance
SED	Sediment
SJCDWQC	San Joaquin County Delta Water Quality Coalition
SL	Statistically different from control and less than 80% threshold
SG	Statistically different from control and greater than 80% threshold
(T)	Total
TIE	Toxic Identification Evaluation
TOC	Total Organic Carbon

Table II - 1. Field parameter results.

Results include calculated discharge and measured dissolved oxygen (DO), pH, specific conductivity (SC) and temperature and are sorted by station name and sample date.

Station Name	Sample Date	Sample Time	Discharge, cfs	Oxygen, Dissolved mg/L	pH, none	Specific Conductivity, µS/cm	Temperature °C	Field Result Comments
Ash Slough @ Ave 21	10/21/08	10:05	NA	NA	NA	NA	NA	Dry Site.
Ash Slough @ Ave 21	11/11/08	09:56	NA	NA	NA	NA	NA	Dry Site.
Ash Slough @ Ave 21	12/16/08	10:28	NA	NA	NA	NA	NA	Dry Site.
Ash Slough @ Ave 21	01/20/09	10:43	NA	NA	NA	NA	NA	Dry Site.
Ash Slough @ Ave 21	02/07/09	10:23	NA	NA	NA	NA	NA	Dry Site.
Ash Slough @ Ave 21	03/17/09	09:52	NA	NA	NA	NA	NA	Dry Site.
Ash Slough @ Ave 21	04/21/09	09:55	NA	NA	NA	NA	NA	Dry Site.
Ash Slough @ Ave 21	05/19/09	11:30	0.51	6.99	7.63	39	26.86	Non contiguous water body, water was flowing upstream of the bridge but disappeared in the sand beneath the bridge.
Ash Slough @ Ave 21	06/16/09	11:00	NA	NA	NA	NA	NA	Dry Site.
Ash Slough @ Ave 21	07/21/09	11:30	NA	NA	NA	NA	NA	Dry Site.
Ash Slough @ Ave 21	08/18/09	12:00	NA	NA	NA	NA	NA	Dry Site.
Ash Slough @ Ave 21	09/22/09	11:25	NA	NA	NA	NA	NA	Dry Site.
Ash Slough @ Ave 21	10/20/09	10:40	NA	NA	NA	NA	NA	Dry Site.
Ash Slough @ Ave 21	11/17/09	10:33	NA	NA	NA	NA	NA	Dry Site.
Ash Slough @ Ave 21	12/15/09	11:07	NA	NA	NA	NA	NA	Dry Site.
Cottonwood Creek @ Rd 20	10/21/08	09:17	NA	NA	NA	NA	NA	Dry Site.
Cottonwood Creek @ Rd 20	11/11/08	09:16	NA	NA	NA	NA	NA	Dry Site.
Cottonwood Creek @ Rd 20	12/16/08	09:33	NA	NA	NA	NA	NA	Dry Site.
Cottonwood Creek @ Rd 20	01/20/09	10:00	NA	NA	NA	NA	NA	Dry Site.
Cottonwood Creek @ Rd 20	02/07/09	09:30	0	7.95	8.18	379	8	Discharge recorded as zero due to non contiguous water body.
Cottonwood Creek @ Rd 20	03/17/09	09:05	NA	NA	NA	NA	NA	Dry Site.
Cottonwood Creek @ Rd 20	04/21/09	09:10	NA	NA	NA	NA	NA	Dry Site.
Cottonwood Creek @ Rd 20	05/19/09	09:10	15.88	6.72	6.84	54	23.02	
Cottonwood Creek @ Rd 20	06/16/09	10:20	0.51	7.13	7.45	117	20.69	
Cottonwood Creek @ Rd 20	07/21/09	10:50	NA	NA	NA	NA	NA	Dry Site.
Cottonwood Creek @ Rd 20	08/18/09	10:40	0.06	8.23	7.17	72	23.6	Creek was shallow and sediment was stirred up during sample collection.
Cottonwood Creek @ Rd 20	09/22/09	10:25	NA	NA	NA	NA	NA	Dry Site.
Cottonwood Creek @ Rd 20	10/20/09	09:30	NA	7.99	7.36	41	15	Too shallow to measure discharge.
Cottonwood Creek @ Rd 20	11/17/09	09:40	5.11	10.64	7.5	90	10.13	
Cottonwood Creek @ Rd 20	12/15/09	10:00	0.01	11.83	8.37	192	8.34	

Station Name	Sample Date	Sample Time	Discharge, cfs	Oxygen, Dissolved mg/L	pH, none	Specific Conductivity, µS/cm	Temperature °C	Field Result Comments
Deadman Creek (Dutchman) @ Gurr Rd	10/21/08	10:50	0.89	10.75	8.12	534	15.62	
Deadman Creek (Dutchman) @ Gurr Rd	11/11/08	10:40	0.57	13.22	8.32	489	13.7	
Deadman Creek (Dutchman) @ Gurr Rd	12/16/08	12:00	0.09	7.31	7.86	580	8.26	
Deadman Creek (Dutchman) @ Gurr Rd	01/20/09	12:00	0	5.61	7.85	762	10.28	Discharge recorded as zero due to no measurable flow.
Deadman Creek (Dutchman) @ Gurr Rd	02/07/09	11:00	0.01	1.01	7.81	1802	11.49	
Deadman Creek (Dutchman) @ Gurr Rd	03/17/09	10:30	0	10.35	7.99	475	14.8	Discharge recorded as zero due to no measurable flow.
Deadman Creek (Dutchman) @ Gurr Rd	04/21/09	12:00	0.99	7.05	7.89	281	22.62	
Deadman Creek (Dutchman) @ Gurr Rd	05/19/09	12:50	6.74	7.64	7.72	300	25.63	
Deadman Creek (Dutchman) @ Gurr Rd	06/16/09	11:50	5.4	8.21	7.75	254	21.64	
Deadman Creek (Dutchman) @ Gurr Rd	07/21/09	12:30	0	6.04	7.5	242	24.35	Discharge recorded as zero due to flow moving in upstream direction, from west to east.
Deadman Creek (Dutchman) @ Gurr Rd	08/18/09	14:20	0	6.94	7.5	68	25.42	Discharge recorded as zero due to flow moving in upstream direction, from west to east.
Deadman Creek (Dutchman) @ Gurr Rd	09/22/09	13:40	5.3	7.26	7.88	84	24.84	
Deadman Creek (Dutchman) @ Gurr Rd	10/20/09	11:30	0	6.08	7.3	58	17.93	Discharge recorded as zero due to no measurable flow.
Deadman Creek (Dutchman) @ Gurr Rd	11/17/09	11:20	0	12.45	8.37	456	9.92	Non contiguous water body; Discharge recorded as zero due to flow moving in upstream direction, from west to east.
Deadman Creek (Dutchman) @ Gurr Rd	12/15/09	12:30	0	5.02	8	995	11.7	Discharge recorded as zero due to non contiguous water body.
Deadman Creek @ Hwy 59	04/21/09	11:28	NA	NA	NA	NA	NA	Dry Site.
Deadman Creek @ Hwy 59	08/18/09	13:49	NA	NA	NA	NA	NA	Dry Site.
Deadman Creek @ Hwy 59	09/22/09	11:55	NA	NA	NA	NA	NA	Dry Site.
Dry Creek @ Oakdale Rd	11/17/09	13:54	NA	NA	NA	NA	NA	Dry Site.
Dry Creek @ Oakdale Rd	12/15/09	13:55	NA	NA	NA	NA	NA	Dry Site.
Dry Creek @ Wellsford Rd	10/21/08	08:50	2.05	4.91	7.83	130	13.12	
Dry Creek @ Wellsford Rd	11/11/08	09:30	0.99	7.39	6.65	59	10.34	
Dry Creek @ Wellsford Rd	12/16/08	09:20	0	2.77	8.86	551	6.76	Discharge recorded as zero due to no measurable flow.
Dry Creek @ Wellsford Rd	01/20/09	09:10	0	5.1	6.87	707	6.36	Discharge recorded as zero due to no measurable flow.
Dry Creek @ Wellsford Rd	02/07/09	11:10	0	7.98	7.26	540	11.62	Discharge recorded as zero due to no measurable flow.
Dry Creek @ Wellsford Rd	03/17/09	10:50	2.73	8.23	7.6	178	13.89	
Dry Creek @ Wellsford Rd	04/21/09	11:20	15.27	7.11	7.09	143	20.49	Pipe upstream actively discharging into Dry Creek.
Dry Creek @ Wellsford Rd	05/19/09	11:30	17.9	6.24	7.42	132	23.81	
Dry Creek @ Wellsford Rd	06/16/09	10:50	44.19	7.73	7.35	110	20.26	
Dry Creek @ Wellsford Rd	07/21/09	10:50	71.26	5.9	7.22	119	23.78	
Dry Creek @ Wellsford Rd	08/18/09	12:30	47.07	7.52	7.55	118	22.32	
Dry Creek @ Wellsford Rd	09/22/09	11:00	42.2	7.25	7.76	115	21.22	
Dry Creek @ Wellsford Rd	10/20/09	11:10	0.84	4.04	7.51	215	15.11	
Dry Creek @ Wellsford Rd	11/17/09	12:20	0	3.04	7.38	179	9.09	Discharge recorded as zero due to no measurable flow.

Station Name	Sample Date	Sample Time	Discharge, cfs	Oxygen, Dissolved mg/L	pH, none	Specific Conductivity, µS/cm	Temperature °C	Field Result Comments
Dry Creek @ Wellsford Rd	12/15/09	09:50	1.15	6.65	7.04	167	8.18	
Dry Creek at Waterford	07/21/09	11:50	24.73	6.89	7.03	103	24.88	
Dry Creek at Waterford	08/18/09	13:30	20.76	7.83	7.18	141	23.13	
Duck Slough @ Gurr Rd	10/21/08	11:41	NA	NA	NA	NA	NA	Dry Site.
Duck Slough @ Gurr Rd	11/11/08	11:27	NA	NA	NA	NA	NA	Dry Site.
Duck Slough @ Gurr Rd	12/16/08	14:00	0.31	11.46	8.14	524	9.91	
Duck Slough @ Gurr Rd	01/20/09	13:50	0.23	11.39	8.11	517	13.25	
Duck Slough @ Gurr Rd	02/07/09	12:40	2.57	12.1	7.9	682	11.74	
Duck Slough @ Gurr Rd	03/17/09	11:20	0	10	9.7	223	13.96	Discharge recorded as zero due to non contiguous water body.
Duck Slough @ Gurr Rd	04/21/09	13:20	0.67	9.87	7.98	292	22.18	
Duck Slough @ Gurr Rd	05/19/09	13:40	0.19	7.03	7.84	272	23.89	
Duck Slough @ Gurr Rd	06/16/09	12:30	0.49	9.7	8.25	144	21.87	
Duck Slough @ Gurr Rd	07/21/09	13:20	2.35	9.16	7.81	77	25.08	
Duck Slough @ Gurr Rd	08/18/09	15:40	2.16	8.45	7.63	47	26.08	
Duck Slough @ Gurr Rd	09/22/09	14:50	1.73	8.41	9.03	46	25.72	
Duck Slough @ Gurr Rd	10/20/09	12:30	1.72	8.4	7.4	42	18.1	
Duck Slough @ Gurr Rd	11/17/09	12:10	0	9.55	8.27	1215	12.22	Discharge recorded as zero due to non contiguous water body.
Duck Slough @ Gurr Rd	12/15/09	14:40	NA	10.27	8.07	134	10.37	Too deep to measure discharge.
Duck Slough @ Hwy 99	04/21/09	10:40	NA	7.98	7.44	143	20.69	Discharge not measured due to toxicity monitoring only.
Duck Slough @ Hwy 99	05/19/09	09:00	NA	8.44	7.52	57	19.15	Too deep to measure discharge.
Duck Slough @ Hwy 99	06/16/09	09:00	NA	6.78	7.47	46	18.27	Too deep to measure discharge.
Duck Slough @ Hwy 99	07/21/09	09:50	NA	8.31	6.81	39	20.84	Too deep to measure discharge.
Duck Slough @ Hwy 99	08/18/09	09:00	NA	7.37	7.65	33	21.24	Too deep to measure discharge.
Duck Slough @ Hwy 99	09/22/09	09:00	NA	9.57	7.41	26	22.38	Too deep to measure discharge.
Highline Canal @ Hwy 99	10/21/08	12:50	0	NA	NA	NA	NA	Discharge recorded as zero due to non contiguous water body; No samples taken.
Highline Canal @ Hwy 99	11/11/08	08:09	NA	NA	NA	NA	NA	Dry Site.
Highline Canal @ Hwy 99	12/16/08	13:32	NA	NA	NA	NA	NA	Dry Site.
Highline Canal @ Hwy 99	01/20/09	08:47	NA	NA	NA	NA	NA	Dry Site.
Highline Canal @ Hwy 99	02/07/09	14:20	0	15.73	8.86	387	14	Discharge recorded as zero due to no measurable flow.
Highline Canal @ Hwy 99	03/17/09	12:30	NA	NA	NA	NA	NA	Dry Site.
Highline Canal @ Hwy 99	04/21/09	15:50	8.64	8.99	8	43	23.37	
Highline Canal @ Hwy 99	05/19/09	15:40	NA	9.47	8.45	42	24.58	Too deep to measure discharge.
Highline Canal @ Hwy 99	06/16/09	14:20	NA	8.42	8.95	40	21.59	Too deep to measure discharge.
Highline Canal @ Hwy 99	07/21/09	08:30	118.93	8.26	7.31	0.38	21.9	
Highline Canal @ Hwy 99	08/18/09	18:00	NA	9.86	9.03	49	24.8	Too deep to measure discharge.

Station Name	Sample Date	Sample Time	Discharge, cfs	Oxygen, Dissolved mg/L	pH, none	Specific Conductivity, µS/cm	Temperature °C	Field Result Comments
Highline Canal @ Hwy 99	09/22/09	16:10	NA	10.28	8.61	42	25.34	Too deep to measure discharge.
Highline Canal @ Hwy 99	10/20/09	15:10	NA	9.63	7.01	32	18.41	Too deep to measure discharge.
Highline Canal @ Hwy 99	11/17/09	13:09	NA	NA	NA	NA	NA	Dry Site.
Highline Canal @ Hwy 99	12/15/09	15:50	0	13.93	8.61	185	10.67	Discharge recorded as zero due to non contiguous water body.
Highline Canal @ Lombardy Rd	05/19/09	16:00	NA	10.27	8.1	42	23.38	Discharge not measured due to toxicity monitoring only.
Highline Canal @ Lombardy Rd	07/21/09	16:40	NA	11.39	7.66	41	22.58	Too deep to measure discharge.
Highline Canal @ Lombardy Rd	08/18/09	18:20	NA	9.33	7.58	39	23.28	Too deep to measure discharge.
Hilmar Drain @ Central Ave	04/21/09	14:50	NA	9.34	7.71	904	21.41	Discharge not measured due to toxicity monitoring only.
Hilmar Drain @ Central Ave	09/22/09	14:10	NA	7.15	7.55	934	20.99	Discharge not measured due to toxicity monitoring only.
Howard Lateral @ Hwy 140	10/21/08	12:12	NA	NA	NA	NA	NA	Dry Site.
Howard Lateral @ Hwy 140	11/11/08	11:59	NA	NA	NA	NA	NA	Dry Site.
Howard Lateral @ Hwy 140	12/16/08	14:56	NA	NA	NA	NA	NA	Dry Site.
Howard Lateral @ Hwy 140	01/20/09	14:44	NA	NA	NA	NA	NA	Dry Site.
Howard Lateral @ Hwy 140	02/07/09	13:40	NA	NA	NA	NA	NA	Dry Site.
Howard Lateral @ Hwy 140	03/17/09	12:00	NA	NA	NA	NA	NA	Dry Site.
Howard Lateral @ Hwy 140	04/21/09	14:30	0	1.55	7.16	251	25.2	Discharge recorded as zero due to no measurable flow.
Howard Lateral @ Hwy 140	05/19/09	14:40	0	11.11	8.29	810	23.62	Discharge recorded as zero due to no measurable flow.
Howard Lateral @ Hwy 140	06/16/09	13:30	5.93	10.35	8.49	214	24.23	
Howard Lateral @ Hwy 140	07/21/09	15:30	0	11.52	8.88	239	25.91	Discharge recorded as zero due to no measurable flow.
Howard Lateral @ Hwy 140	08/18/09	16:30	2.47	11.37	9.14	96	28.18	
Howard Lateral @ Hwy 140	09/22/09	17:00	11.28	9.6	9.15	45	28.27	
Howard Lateral @ Hwy 140	10/20/09	13:50	2.37	8.78	7.27	43	17.22	
Howard Lateral @ Hwy 140	11/17/09	12:37	NA	NA	NA	NA	NA	Dry Site.
Howard Lateral @ Hwy 140	12/15/09	15:10	NA	NA	NA	NA	NA	Dry Site.
Lateral 2 1/2 near Keys Rd	10/21/08	10:40	0	21.16	9.57	478	19.31	Discharge recorded as zero due to flow moving in upstream direction, from west to east.
Lateral 2 1/2 near Keys Rd	11/11/08	11:10	NA	7.8	9.09	451	10.2	Too shallow to measure discharge.
Lateral 2 1/2 near Keys Rd	12/16/08	10:11	NA	NA	NA	NA	NA	Dry Site.
Lateral 2 1/2 near Keys Rd	01/20/09	09:55	NA	NA	NA	NA	NA	Dry Site.
Lateral 2 1/2 near Keys Rd	02/07/09	12:20	NA	NA	NA	NA	NA	Dry Site.
Lateral 2 1/2 near Keys Rd	03/17/09	12:03	NA	NA	NA	NA	NA	Dry Site.
Lateral 2 1/2 near Keys Rd	04/21/09	12:50	16.15	14.06	9.2	112	22.36	
Lateral 2 1/2 near Keys Rd	05/19/09	13:00	5.07	10.55	7.96	363	23.83	
Lateral 2 1/2 near Keys Rd	06/16/09	12:20	1.55	12.54	8.31	423	22.07	
Lateral 2 1/2 near Keys Rd	07/21/09	13:30	NA	11.53	8.4	385	26.35	Too shallow to measure discharge.
Lateral 2 1/2 near Keys Rd	08/18/09	15:10	15.81	9.93	7.87	700	23.28	

Station Name	Sample Date	Sample Time	Discharge, cfs	Oxygen, Dissolved mg/L	pH, none	Specific Conductivity, µS/cm	Temperature °C	Field Result Comments
Lateral 2 1/2 near Keys Rd	09/22/09	12:20	8.41	10.66	8.32	198	24.08	TID was cleaning the canal the day of sample collection.
Lateral 2 1/2 near Keys Rd	10/20/09	12:40	13.53	8.87	8.68	36	19.67	
Lateral 2 1/2 near Keys Rd	11/17/09	13:30	NA	NA	NA	NA	NA	Dry Site.
Lateral 2 1/2 near Keys Rd	12/15/09	11:20	NA	NA	NA	NA	NA	Dry Site.
Merced River @ Santa Fe	10/21/08	15:00	264	10.22	7.94	30	17.09	
Merced River @ Santa Fe	11/11/08	13:00	294	10.47	8.05	30	14.07	
Merced River @ Santa Fe	12/16/08	13:00	297	11.33	7.17	32	9.04	Online discharge information not available from CDEC site for Merced River at Cressy, (CRS) Discharge is an average from CDEC Merced River near Stevinson (MST). downstream and Merced River near Snelling (MSN) upstream.
Merced River @ Santa Fe	01/20/09	14:10	222	11.93	7.39	51	10.36	
Merced River @ Santa Fe	02/07/09	14:20	241	10.77	7.54	54	12.52	
Merced River @ Santa Fe	03/17/09	13:20	261	9.96	7.58	64	16.04	
Merced River @ Santa Fe	04/21/09	15:50	211	9.83	7.59	65	22.31	
Merced River @ Santa Fe	05/19/09	15:30	208	8.81	7.7	55	24.78	
Merced River @ Santa Fe	06/16/09	14:40	211	9.31	7.35	46	22.23	
Merced River @ Santa Fe	07/21/09	15:40	88	6.12	7.69	49	28.98	
Merced River @ Santa Fe	08/18/09	18:00	56	8.14	7.55	48	27.19	
Merced River @ Santa Fe	09/22/09	15:10	78	7.91	7.73	40	25.5	
Merced River @ Santa Fe	10/20/09	15:50	141	4.82	6.89	38	18.54	
Merced River @ Santa Fe	11/17/09	14:30	180	12.11	7.02	31	11.59	
Merced River @ Santa Fe	12/15/09	14:40	194	10.98	7.32	35	11.04	
Miles Creek @ Reilly Rd	04/21/09	11:20	NA	6.3	7.33	258	21.29	Discharge not measured due to toxicity monitoring only.
Miles Creek @ Reilly Rd	07/21/09	14:00	1.86	6.45	6.86	79	25.77	
Miles Creek @ Reilly Rd	08/18/09	13:20	7.02	6.58	7.17	81	23.07	
Miles Creek @ Reilly Rd	09/22/09	12:40	2.25	6.35	8.01	56	22.61	
Mootz Drain @ Langworth Rd	10/21/08	08:19	NA	NA	NA	NA	NA	Dry Site.
Mootz Drain @ Langworth Rd	11/11/08	08:30	0	3.55	4.32	106	9.63	Discharge recorded as zero due to non contiguous water body.
Mootz Drain @ Langworth Rd	12/16/08	08:40	0	9.62	7.89	509	4.78	Discharge recorded as zero due to non contiguous water body.
Mootz Drain @ Langworth Rd	02/07/09	08:40	0	9.44	8.03	385	12.18	Discharge recorded as zero due to non contiguous water body.
Mootz Drain @ Langworth Rd	03/17/09	08:50	0	4.01	7.97	389	13.73	Discharge recorded as zero due to non contiguous water body.
Mootz Drain @ Langworth Rd	04/21/09	09:00	0	3.14	6.89	173	18.56	Discharge recorded as zero due to no measurable flow.
Mootz Drain @ Langworth Rd	05/19/09	09:00	3.42	4.59	7.32	176	19.29	
Mootz Drain @ Langworth Rd	06/16/09	09:20	1.18	5.4	7.13	180	19.8	
Mootz Drain @ Langworth Rd	07/21/09	09:00	2.06	2.18	6.64	148	21.33	
Mootz Drain @ Langworth Rd	08/18/09	09:30	6.63	4.9	7.13	149	20.53	
Mootz Drain @ Langworth Rd	09/22/09	09:30	4.83	5.62	6.76	132	20.02	

Station Name	Sample Date	Sample Time	Discharge, cfs	Oxygen, Dissolved mg/L	pH, none	Specific Conductivity, µS/cm	Temperature °C	Field Result Comments
Mootz Drain @ Langworth Rd	10/20/09	09:00	0	6.35	8.28	213	15	Discharge recorded as zero due to non contiguous water body.
Mootz Drain @ Langworth Rd	11/17/09	09:30	0	4.98	7.19	269	8.1	Discharge recorded as zero due to non contiguous water body.
Mootz Drain Downstream of Langworth Pond	12/15/09	08:50	0	5.51	6.55	341	9.05	Discharge recorded as zero due to no visible flow.
Mustang Creek @ East Ave	10/21/08	13:45	NA	NA	NA	NA	NA	Dry Site.
Mustang Creek @ East Ave	11/11/08	13:35	NA	NA	NA	NA	NA	Dry Site.
Mustang Creek @ East Ave	12/16/08	12:17	NA	NA	NA	NA	NA	Dry Site.
Mustang Creek @ East Ave	01/20/09	14:40	NA	NA	NA	NA	NA	Dry Site.
Mustang Creek @ East Ave	02/07/09	15:30	0	13.46	7.44	704	13.76	Discharge recorded as zero due to no measurable flow.
Mustang Creek @ East Ave	03/17/09	14:20	0	13.56	7.56	1042	19.83	Discharge recorded as zero due to non contiguous water body.
Mustang Creek @ East Ave	04/21/09	17:00	0	0.98	7.73	1433	32.32	Discharge recorded as zero due to no measurable flow; Water too shallow to fill bottles, no water samples collected.
Mustang Creek @ East Ave	05/19/09	16:14	NA	NA	NA	NA	NA	Dry Site.
Mustang Creek @ East Ave	06/16/09	14:44	NA	NA	NA	NA	NA	Dry Site.
Mustang Creek @ East Ave	07/21/09	16:07	NA	NA	NA	NA	NA	Dry Site.
Mustang Creek @ East Ave	08/18/09	18:32	NA	NA	NA	NA	NA	Dry Site.
Mustang Creek @ East Ave	09/22/09	15:35	NA	NA	NA	NA	NA	Dry Site.
Mustang Creek @ East Ave	10/20/09	15:20	0	2.95	7.6	870	14.78	Discharge recorded as zero due to non contiguous water body.
Mustang Creek @ East Ave	11/17/09	13:45	NA	NA	NA	NA	NA	Dry Site.
Mustang Creek @ East Ave	12/15/09	13:30	0	8.29	7.59	892	10.42	Discharge recorded as zero due to no measurable flow.
Prairie Flower Drain @ Crows Landing Rd	10/21/08	13:50	0.93	14.54	7.77	1742	18.44	
Prairie Flower Drain @ Crows Landing Rd	11/11/08	13:30	0.09	11.9	8.13	2151	15.23	
Prairie Flower Drain @ Crows Landing Rd	12/16/08	11:10	0.19	18.52	8.05	2298	7.1	
Prairie Flower Drain @ Crows Landing Rd	01/20/09	10:40	NA	20.89	8.03	2414	4.56	Too shallow to measure discharge.
Prairie Flower Drain @ Crows Landing Rd	02/07/09	13:10	0.097	11.82	8.48	2255	10.56	
Prairie Flower Drain @ Crows Landing Rd	03/17/09	12:40	0.12	19.3	8.74	2394	14.98	
Prairie Flower Drain @ Crows Landing Rd	04/21/09	14:20	0.3	9.89	8.01	2223	27.34	
Prairie Flower Drain @ Crows Landing Rd	05/19/09	14:20	0.5	4.78	7.65	2066	28.92	
Prairie Flower Drain @ Crows Landing Rd	06/16/09	13:40	0.61	14.9	7.96	2417	26.2	
Prairie Flower Drain @ Crows Landing Rd	07/21/09	14:40	4.15	12.22	8.02	1366	26.28	
Prairie Flower Drain @ Crows Landing Rd	08/18/09	16:40	2.85	16.94	7.92	1984	24.88	
Prairie Flower Drain @ Crows Landing Rd	09/22/09	13:30	2.08	15.72	7.86	2171	24.72	
Prairie Flower Drain @ Crows Landing Rd	10/20/09	14:00	0.72	13.52	8.5	2459	19.5	
Prairie Flower Drain @ Crows Landing Rd	11/17/09	14:20	0	16.3	7.66	2415	12.3	Discharge recorded as zero due to no measurable flow.
Prairie Flower Drain @ Crows Landing Rd	12/15/09	12:00	0.31	10.67	8.06	2695	10.42	

Table II - 2. ESJWQC environmental sample results for organic analysis.

Samples are sorted by station name, analyte and sample date.

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 619	Simazine	0.18	µg/L	DNQ	0.08	0.5		None		DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 619	Tributylphosphate (Surrogate)	85.2	%	=	NA	NA	100	None	PR 62-145	DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Tributylphosphate (Surrogate)	71.6	%	=	NA	NA	100	None	PR 60-150	DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Tributylphosphate (Surrogate)	85.2	%	=	NA	NA	100	None	PR 60-150	DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8321A	Tributylphosphate (Surrogate)	100	%	=	NA	NA	100	None	PR 36-140	DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 619	Triphenyl phosphate (Surrogate)	78.2	%	=	NA	NA	100	None	PR 54-144	DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Triphenyl phosphate (Surrogate)	78.2	%	=	NA	NA	100	None	PR 56-129	DF=1
Ash Slough @ Ave 21	E	05/19/09	11:30	EPA 8141A	Triphenyl phosphate (Surrogate)	72.9	%	=	NA	NA	100	None	PR 56-129	DF=1
Cottonwood Creek @ Rd 20	E	06/16/09	10:20	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Cottonwood Creek @ Rd 20	E	08/18/09	10:40	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Cottonwood Creek @ Rd 20	E	10/20/09	09:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Cottonwood Creek @ Rd 20	E	11/17/09	09:40	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Cottonwood Creek @ Rd 20	E	12/15/09	10:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Cottonwood Creek @ Rd 20	E	06/16/09	10:20	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Cottonwood Creek @ Rd 20	E	08/18/09	10:40	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Cottonwood Creek @ Rd 20	E	10/20/09	09:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Cottonwood Creek @ Rd 20	E	11/17/09	09:40	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Cottonwood Creek @ Rd 20	E	12/15/09	10:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Cottonwood Creek @ Rd 20	E	06/16/09	10:20	EPA 619	Tributylphosphate (Surrogate)	86.7	%	=	NA	NA	100	None	PR 62-145	DF=1
Cottonwood Creek @ Rd 20	E	08/18/09	10:40	EPA 619	Tributylphosphate (Surrogate)	118	%	=	NA	NA	100	None	PR 62-145	DF=1
Cottonwood Creek @ Rd 20	E	10/20/09	09:30	EPA 619	Tributylphosphate (Surrogate)	112	%	=	NA	NA	100	None	PR 62-145	DF=1
Cottonwood Creek @ Rd 20	E	11/17/09	09:40	EPA 619	Tributylphosphate (Surrogate)	99.3	%	=	NA	NA	100	None	PR 62-145	DF=1
Cottonwood Creek @ Rd 20	E	12/15/09	10:00	EPA 619	Tributylphosphate (Surrogate)	90.1	%	=	NA	NA	100	None	PR 62-145	DF=1
Cottonwood Creek @ Rd 20	E	06/16/09	10:20	EPA 619	Triphenyl phosphate (Surrogate)	79	%	=	NA	NA	100	None	PR 54-144	DF=1
Cottonwood Creek @ Rd 20	E	08/18/09	10:40	EPA 619	Triphenyl phosphate (Surrogate)	119	%	=	NA	NA	100	None	PR 54-144	DF=1
Cottonwood Creek @ Rd 20	E	10/20/09	09:30	EPA 619	Triphenyl phosphate (Surrogate)	114	%	=	NA	NA	100	None	PR 54-144	DF=1
Cottonwood Creek @ Rd 20	E	11/17/09	09:40	EPA 619	Triphenyl phosphate (Surrogate)	108	%	=	NA	NA	100	None	PR 54-144	DF=1
Cottonwood Creek @ Rd 20	E	12/15/09	10:00	EPA 619	Triphenyl phosphate (Surrogate)	113	%	=	NA	NA	100	None	PR 54-144	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 619	Atrazine	0.24	µg/L	DNQ	0.07	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 619	Cyanazine	0.13	µg/L	DNQ	0.09	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8081A	Decachlorobiphenyl (Surrogate)	68	%	=	NA	NA	100	None	PR 16-146	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8081A	Decachlorobiphenyl (Surrogate)	75.2	%	=	NA	NA	100	None	PR 16-146	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	70.1	%	=	NA	NA	100	None	PR 16-146	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	41.7	%	=	NA	NA	100	None	PR 16-146	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	16.1	%	=	NA	NA	100	None	PR 16-146	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8081A	Decachlorobiphenyl (Surrogate)	76.6	%	=	NA	NA	100	None	PR 16-146	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	84.7	%	=	NA	NA	100	None	PR 16-146	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8081A	Decachlorobiphenyl (Surrogate)	32.5	%	=	NA	NA	100	None	PR 16-146	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Dimethoate	0.13	µg/L	=	0.08	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Disulfoton	0.025	µg/L	DNQ	0.02	0.05		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Disulfoton	0.035	µg/L	DNQ	0.02	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Disulfoton	0.042	µg/L	DNQ	0.02	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 547M	Glyphosate	<4	µg/L	ND	4	5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 547M	Glyphosate	<4	µg/L	ND	4	5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	15		Reporting limits elevated due to matrix interferences		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 547M	Glyphosate	<4	µg/L	ND	4	5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 547M	Glyphosate	<2.8	µg/L	ND	2.8	5		None		DF=1; Sediment in bottom of sample container.
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8321A	Methomyl	0.07	µg/L	=	0.05	0.07		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 619	Simazine	0.12	µg/L	DNQ	0.08	0.5		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	54	%	=	NA	NA	100	None	PR 15-98	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	72.1	%	=	NA	NA	100	None	PR 15-98	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	61.1	%	=	NA	NA	100	None	PR 15-98	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	56.4	%	=	NA	NA	100	None	PR 15-98	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	23.7	%	=	NA	NA	100	None	PR 15-98	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	44.9	%	=	NA	NA	100	None	PR 15-98	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	72.6	%	=	NA	NA	100	None	PR 15-98	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	48.8	%	=	NA	NA	100	None	PR 15-98	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 619	Tributylphosphate (Surrogate)	134	%	=	NA	NA	100	None	PR 62-145	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Tributylphosphate (Surrogate)	81.3	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Tributylphosphate (Surrogate)	134	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8321A	Tributylphosphate (Surrogate)	108	%	=	NA	NA	100	None	PR 36-140	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 619	Tributylphosphate (Surrogate)	137	%	=	NA	NA	100	None	PR 62-145	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Tributylphosphate (Surrogate)	137	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Tributylphosphate (Surrogate)	79.2	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8321A	Tributylphosphate (Surrogate)	122	%	=	NA	NA	100	None	PR 36-140	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 619	Tributylphosphate (Surrogate)	87.8	%	=	NA	NA	100	None	PR 62-145	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Tributylphosphate (Surrogate)	87.8	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Tributylphosphate (Surrogate)	60.9	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8321A	Tributylphosphate (Surrogate)	100	%	=	NA	NA	100	None	PR 36-140	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 619	Tributylphosphate (Surrogate)	82.1	%	=	NA	NA	100	None	PR 62-145	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Tributylphosphate (Surrogate)	82.1	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Tributylphosphate (Surrogate)	67.8	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8321A	Tributylphosphate (Surrogate)	82.4	%	=	NA	NA	100	None	PR 36-140	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 619	Tributylphosphate (Surrogate)	50.6	%	=	NA	NA	100	Surrogate recovery is outside of control limits	PR 62-145	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Tributylphosphate (Surrogate)	88.4	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Tributylphosphate (Surrogate)	50.6	%	=	NA	NA	100	Surrogate recovery is outside of control limits	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8321A	Tributylphosphate (Surrogate)	43.1	%	=	NA	NA	100	None	PR 36-140	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 619	Tributylphosphate (Surrogate)	91.1	%	=	NA	NA	100	None	PR 62-145	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Tributylphosphate (Surrogate)	91.1	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Tributylphosphate (Surrogate)	147	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8321A	Tributylphosphate (Surrogate)	88.5	%	=	NA	NA	100	None	PR 36-140	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 619	Tributylphosphate (Surrogate)	88.7	%	=	NA	NA	100	None	PR 62-145	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Tributylphosphate (Surrogate)	78.8	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Tributylphosphate (Surrogate)	88.7	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8321A	Tributylphosphate (Surrogate)	113	%	=	NA	NA	100	None	PR 36-140	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 619	Tributylphosphate (Surrogate)	93	%	=	NA	NA	100	None	PR 62-145	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Tributylphosphate (Surrogate)	110	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Tributylphosphate (Surrogate)	93	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8321A	Tributylphosphate (Surrogate)	103	%	=	NA	NA	100	None	PR 36-140	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 619	Tributylphosphate (Surrogate)	98.9	%	=	NA	NA	100	None	PR 62-145	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Tributylphosphate (Surrogate)	86.5	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Tributylphosphate (Surrogate)	98.9	%	=	NA	NA	100	None	PR 60-150	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8321A	Tributylphosphate (Surrogate)	97.2	%	=	NA	NA	100	None	PR 36-140	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 619	Tributylphosphate (Surrogate)	106	%	=	NA	NA	100	None	PR 62-145	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Tributylphosphate (Surrogate)	138	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Tributylphosphate (Surrogate)	106	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8321A	Tributylphosphate (Surrogate)	102	%	=	NA	NA	100	None	PR 36-140	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 619	Tributylphosphate (Surrogate)	103	%	=	NA	NA	100	None	PR 62-145	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Tributylphosphate (Surrogate)	103	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Tributylphosphate (Surrogate)	86.7	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8321A	Tributylphosphate (Surrogate)	98.3	%	=	NA	NA	100	None	PR 36-140	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 619	Tributylphosphate (Surrogate)	90.3	%	=	NA	NA	100	None	PR 62-145	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Tributylphosphate (Surrogate)	90.3	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Tributylphosphate (Surrogate)	149	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8321A	Tributylphosphate (Surrogate)	98.5	%	=	NA	NA	100	None	PR 36-140	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 619	Tributylphosphate (Surrogate)	115	%	=	NA	NA	100	None	PR 62-145	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Tributylphosphate (Surrogate)	92	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Tributylphosphate (Surrogate)	115	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8321A	Tributylphosphate (Surrogate)	133	%	=	NA	NA	100	None	PR 36-140	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 619	Tributylphosphate (Surrogate)	97.2	%	=	NA	NA	100	None	PR 62-145	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Tributylphosphate (Surrogate)	94.9	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Tributylphosphate (Surrogate)	97.2	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8321A	Tributylphosphate (Surrogate)	122	%	=	NA	NA	100	None	PR 36-140	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 619	Tributylphosphate (Surrogate)	95.2	%	=	NA	NA	100	None	PR 62-145	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Tributylphosphate (Surrogate)	95.2	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Tributylphosphate (Surrogate)	123	%	=	NA	NA	100	None	PR 60-150	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8321A	Tributylphosphate (Surrogate)	76	%	=	NA	NA	100	None	PR 36-140	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		Surrogate recovery is outside of control limits		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Trifluralin	0.046	µg/L	DNQ	0.04	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 619	Triphenyl phosphate (Surrogate)	118	%	=	NA	NA	100	None	PR 54-144	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Triphenyl phosphate (Surrogate)	118	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	EPA 8141A	Triphenyl phosphate (Surrogate)	73.3	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 619	Triphenyl phosphate (Surrogate)	117	%	=	NA	NA	100	None	PR 54-144	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Triphenyl phosphate (Surrogate)	83.9	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	EPA 8141A	Triphenyl phosphate (Surrogate)	117	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 619	Triphenyl phosphate (Surrogate)	78.9	%	=	NA	NA	100	None	PR 54-144	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	60.7	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	78.9	%	=	NA	NA	100	None	PR 56-129	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 619	Triphenyl phosphate (Surrogate)	73	%	=	NA	NA	100	None	PR 54-144	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	73	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	60	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 619	Triphenyl phosphate (Surrogate)	33	%	=	NA	NA	100	Surrogate recovery is outside of control limits	PR 54-144	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Triphenyl phosphate (Surrogate)	39.9	%	=	NA	NA	100	Surrogate recovery is outside of control limits	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	EPA 8141A	Triphenyl phosphate (Surrogate)	33	%	=	NA	NA	100	Surrogate recovery is outside of control limits	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 619	Triphenyl phosphate (Surrogate)	76.3	%	=	NA	NA	100	None	PR 54-144	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Triphenyl phosphate (Surrogate)	76.3	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	EPA 8141A	Triphenyl phosphate (Surrogate)	120	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 619	Triphenyl phosphate (Surrogate)	88.7	%	=	NA	NA	100	None	PR 54-144	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	83	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	88.7	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 619	Triphenyl phosphate (Surrogate)	84.4	%	=	NA	NA	100	None	PR 54-144	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Triphenyl phosphate (Surrogate)	84.4	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	EPA 8141A	Triphenyl phosphate (Surrogate)	73.3	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 619	Triphenyl phosphate (Surrogate)	93.7	%	=	NA	NA	100	None	PR 54-144	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Triphenyl phosphate (Surrogate)	93.4	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	EPA 8141A	Triphenyl phosphate (Surrogate)	93.7	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 619	Triphenyl phosphate (Surrogate)	92.5	%	=	NA	NA	100	None	PR 54-144	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Triphenyl phosphate (Surrogate)	92.5	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	EPA 8141A	Triphenyl phosphate (Surrogate)	69.7	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 619	Triphenyl phosphate (Surrogate)	105	%	=	NA	NA	100	None	PR 54-144	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Triphenyl phosphate (Surrogate)	90.3	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	EPA 8141A	Triphenyl phosphate (Surrogate)	105	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 619	Triphenyl phosphate (Surrogate)	94.6	%	=	NA	NA	100	None	PR 54-144	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Triphenyl phosphate (Surrogate)	94.6	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	EPA 8141A	Triphenyl phosphate (Surrogate)	175	%	=	NA	NA	100	Surrogate recovery is outside of control limits	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 619	Triphenyl phosphate (Surrogate)	123	%	=	NA	NA	100	None	PR 54-144	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Triphenyl phosphate (Surrogate)	102	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	EPA 8141A	Triphenyl phosphate (Surrogate)	123	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 619	Triphenyl phosphate (Surrogate)	101	%	=	NA	NA	100	None	PR 54-144	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Triphenyl phosphate (Surrogate)	103	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	EPA 8141A	Triphenyl phosphate (Surrogate)	101	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 619	Triphenyl phosphate (Surrogate)	121	%	=	NA	NA	100	None	PR 54-144	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Triphenyl phosphate (Surrogate)	121	%	=	NA	NA	100	None	PR 56-129	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	EPA 8141A	Triphenyl phosphate (Surrogate)	126	%	=	NA	NA	100	None	PR 56-129	DF=1
Dry Creek @ Wellsford Rd	MPM	07/21/09	10:50	EPA 8141A	Chlorpyrifos	0.013	µg/L	DNQ	0.0026	0.015		None		DF=1
Dry Creek @ Wellsford Rd	MPM	08/18/09	12:30	EPA 8141A	Chlorpyrifos	0.027	µg/L	=	0.0026	0.015		None		DF=1
Dry Creek @ Wellsford Rd	MPM	07/21/09	10:50	EPA 8141A	Tributylphosphate (Surrogate)	92.8	%	=	NA	NA	100	None	PR 60-150	DF=1
Dry Creek @ Wellsford Rd	MPM	08/18/09	12:30	EPA 8141A	Tributylphosphate (Surrogate)	104	%	=	NA	NA	100	None	PR 60-150	DF=1
Dry Creek @ Wellsford Rd	MPM	07/21/09	10:50	EPA 8141A	Triphenyl phosphate (Surrogate)	86.6	%	=	NA	NA	100	None	PR 56-129	DF=1
Dry Creek @ Wellsford Rd	MPM	08/18/09	12:30	EPA 8141A	Triphenyl phosphate (Surrogate)	113	%	=	NA	NA	100	None	PR 56-129	DF=1
Dry Creek at Waterford	MPM	07/21/09	11:50	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Dry Creek at Waterford	MPM	08/18/09	13:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Dry Creek at Waterford	MPM	07/21/09	11:50	EPA 8141A	Tributylphosphate (Surrogate)	102	%	=	NA	NA	100	None	PR 60-150	DF=1
Dry Creek at Waterford	MPM	08/18/09	13:30	EPA 8141A	Tributylphosphate (Surrogate)	102	%	=	NA	NA	100	None	PR 60-150	DF=1
Dry Creek at Waterford	MPM	07/21/09	11:50	EPA 8141A	Triphenyl phosphate (Surrogate)	93.6	%	=	NA	NA	100	None	PR 56-129	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Dry Creek at Waterford	MPM	08/18/09	13:30	EPA 8141A	Triphenyl phosphate (Surrogate)	108	%	=	NA	NA	100	None	PR 56-129	DF=1
Duck Slough @ Gurr Rd	E	12/16/08	14:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	01/20/09	13:50	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	02/07/09	12:40	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	03/17/09	11:20	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	04/21/09	13:20	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	05/19/09	13:40	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	06/16/09	12:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Duck Slough @ Gurr Rd	E	07/21/09	13:20	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Duck Slough @ Gurr Rd	E	08/18/09	15:40	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Duck Slough @ Gurr Rd	E	09/22/09	14:50	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Duck Slough @ Gurr Rd	E	10/20/09	12:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Duck Slough @ Gurr Rd	E	11/17/09	12:10	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Duck Slough @ Gurr Rd	E	12/15/09	14:40	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Duck Slough @ Gurr Rd	E	12/16/08	14:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Duck Slough @ Gurr Rd	E	01/20/09	13:50	EPA 8141A	Chlorpyrifos	0.012	µg/L	DNQ	0.0026	0.015		None		DF=1
Duck Slough @ Gurr Rd	E	02/07/09	12:40	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Duck Slough @ Gurr Rd	E	03/17/09	11:20	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Duck Slough @ Gurr Rd	E	04/21/09	13:20	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Duck Slough @ Gurr Rd	E	05/19/09	13:40	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Duck Slough @ Gurr Rd	E	12/16/08	14:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	01/20/09	13:50	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	02/07/09	12:40	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	03/17/09	11:20	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	04/21/09	13:20	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	05/19/09	13:40	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	12/16/08	14:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Duck Slough @ Gurr Rd	E	01/20/09	13:50	EPA 8141A	Diazinon	0.033	µg/L	=	0.004	0.02		None		DF=1
Duck Slough @ Gurr Rd	E	02/07/09	12:40	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Duck Slough @ Gurr Rd	E	03/17/09	11:20	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Duck Slough @ Gurr Rd	E	04/21/09	13:20	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Duck Slough @ Gurr Rd	E	05/19/09	13:40	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Duck Slough @ Gurr Rd	E	12/16/08	14:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	01/20/09	13:50	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	02/07/09	12:40	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Duck Slough @ Gurr Rd	E	03/17/09	11:20	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	04/21/09	13:20	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	05/19/09	13:40	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	12/16/08	14:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	01/20/09	13:50	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	02/07/09	12:40	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	03/17/09	11:20	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	04/21/09	13:20	EPA 8141A	Dimethoate	0.61	µg/L	=	0.08	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	05/19/09	13:40	EPA 8141A	Dimethoate	0.11	µg/L	=	0.08	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	12/16/08	14:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Duck Slough @ Gurr Rd	E	01/20/09	13:50	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Duck Slough @ Gurr Rd	E	02/07/09	12:40	EPA 8141A	Disulfoton	0.039	µg/L	DNQ	0.02	0.05		None		DF=1
Duck Slough @ Gurr Rd	E	03/17/09	11:20	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Duck Slough @ Gurr Rd	E	04/21/09	13:20	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Duck Slough @ Gurr Rd	E	05/19/09	13:40	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Duck Slough @ Gurr Rd	E	12/16/08	14:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	01/20/09	13:50	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	02/07/09	12:40	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	03/17/09	11:20	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	04/21/09	13:20	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	05/19/09	13:40	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	12/16/08	14:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Duck Slough @ Gurr Rd	E	01/20/09	13:50	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Duck Slough @ Gurr Rd	E	02/07/09	12:40	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Duck Slough @ Gurr Rd	E	03/17/09	11:20	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Duck Slough @ Gurr Rd	E	04/21/09	13:20	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Duck Slough @ Gurr Rd	E	05/19/09	13:40	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Duck Slough @ Gurr Rd	E	12/16/08	14:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	01/20/09	13:50	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	02/07/09	12:40	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	03/17/09	11:20	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	04/21/09	13:20	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	05/19/09	13:40	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	12/16/08	14:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	01/20/09	13:50	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Duck Slough @ Gurr Rd	E	02/07/09	12:40	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	03/17/09	11:20	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	04/21/09	13:20	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	05/19/09	13:40	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	12/16/08	14:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	01/20/09	13:50	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	02/07/09	12:40	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	03/17/09	11:20	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	04/21/09	13:20	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	05/19/09	13:40	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Duck Slough @ Gurr Rd	E	12/16/08	14:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Duck Slough @ Gurr Rd	E	01/20/09	13:50	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Duck Slough @ Gurr Rd	E	02/07/09	12:40	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Duck Slough @ Gurr Rd	E	03/17/09	11:20	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Duck Slough @ Gurr Rd	E	04/21/09	13:20	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Duck Slough @ Gurr Rd	E	05/19/09	13:40	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Duck Slough @ Gurr Rd	E	12/16/08	14:00	EPA 8141A	Tributylphosphate (Surrogate)	84.8	%	=	NA	NA	100	None	PR 60-150	DF=1
Duck Slough @ Gurr Rd	E	12/16/08	14:00	EPA 8141A	Tributylphosphate (Surrogate)	60.3	%	=	NA	NA	100	None	PR 60-150	DF=1
Duck Slough @ Gurr Rd	E	01/20/09	13:50	EPA 8141A	Tributylphosphate (Surrogate)	89.3	%	=	NA	NA	100	None	PR 60-150	DF=1
Duck Slough @ Gurr Rd	E	01/20/09	13:50	EPA 8141A	Tributylphosphate (Surrogate)	70.7	%	=	NA	NA	100	None	PR 60-150	DF=1
Duck Slough @ Gurr Rd	E	02/07/09	12:40	EPA 8141A	Tributylphosphate (Surrogate)	125	%	=	NA	NA	100	None	PR 60-150	DF=1
Duck Slough @ Gurr Rd	E	02/07/09	12:40	EPA 8141A	Tributylphosphate (Surrogate)	129	%	=	NA	NA	100	None	PR 60-150	DF=1
Duck Slough @ Gurr Rd	E	03/17/09	11:20	EPA 8141A	Tributylphosphate (Surrogate)	133	%	=	NA	NA	100	None	PR 60-150	DF=1
Duck Slough @ Gurr Rd	E	03/17/09	11:20	EPA 8141A	Tributylphosphate (Surrogate)	90.5	%	=	NA	NA	100	None	PR 60-150	DF=1
Duck Slough @ Gurr Rd	E	04/21/09	13:20	EPA 8141A	Tributylphosphate (Surrogate)	95.3	%	=	NA	NA	100	None	PR 60-150	DF=1
Duck Slough @ Gurr Rd	E	04/21/09	13:20	EPA 8141A	Tributylphosphate (Surrogate)	83.6	%	=	NA	NA	100	None	PR 60-150	DF=1
Duck Slough @ Gurr Rd	E	05/19/09	13:40	EPA 8141A	Tributylphosphate (Surrogate)	90.4	%	=	NA	NA	100	None	PR 60-150	DF=1
Duck Slough @ Gurr Rd	E	05/19/09	13:40	EPA 8141A	Tributylphosphate (Surrogate)	113	%	=	NA	NA	100	None	PR 60-150	DF=1
Duck Slough @ Gurr Rd	E	06/16/09	12:30	EPA 8321A	Tributylphosphate (Surrogate)	87	%	=	NA	NA	100	None	PR 36-140	DF=1
Duck Slough @ Gurr Rd	E	07/21/09	13:20	EPA 8321A	Tributylphosphate (Surrogate)	84.4	%	=	NA	NA	100	None	PR 36-140	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Duck Slough @ Gurr Rd	E	08/18/09	15:40	EPA 8321A	Tributylphosphate (Surrogate)	89.2	%	=	NA	NA	100	None	PR 36-140	DF=1
Duck Slough @ Gurr Rd	E	09/22/09	14:50	EPA 8321A	Tributylphosphate (Surrogate)	115	%	=	NA	NA	100	None	PR 36-140	DF=1
Duck Slough @ Gurr Rd	E	10/20/09	12:30	EPA 8321A	Tributylphosphate (Surrogate)	110	%	=	NA	NA	100	None	PR 36-140	DF=1
Duck Slough @ Gurr Rd	E	11/17/09	12:10	EPA 8321A	Tributylphosphate (Surrogate)	111	%	=	NA	NA	100	None	PR 36-140	DF=1
Duck Slough @ Gurr Rd	E	12/15/09	14:40	EPA 8321A	Tributylphosphate (Surrogate)	99.4	%	=	NA	NA	100	None	PR 36-140	DF=1
Duck Slough @ Gurr Rd	E	12/16/08	14:00	EPA 8141A	Triphenyl phosphate (Surrogate)	58.2	%	=	NA	NA	100	None	PR 56-129	DF=1
Duck Slough @ Gurr Rd	E	12/16/08	14:00	EPA 8141A	Triphenyl phosphate (Surrogate)	79.1	%	=	NA	NA	100	None	PR 56-129	DF=1
Duck Slough @ Gurr Rd	E	01/20/09	13:50	EPA 8141A	Triphenyl phosphate (Surrogate)	83.3	%	=	NA	NA	100	None	PR 56-129	DF=1
Duck Slough @ Gurr Rd	E	01/20/09	13:50	EPA 8141A	Triphenyl phosphate (Surrogate)	66.5	%	=	NA	NA	100	None	PR 56-129	DF=1
Duck Slough @ Gurr Rd	E	02/07/09	12:40	EPA 8141A	Triphenyl phosphate (Surrogate)	116	%	=	NA	NA	100	None	PR 56-129	DF=1
Duck Slough @ Gurr Rd	E	02/07/09	12:40	EPA 8141A	Triphenyl phosphate (Surrogate)	123	%	=	NA	NA	100	None	PR 56-129	DF=1
Duck Slough @ Gurr Rd	E	03/17/09	11:20	EPA 8141A	Triphenyl phosphate (Surrogate)	80.9	%	=	NA	NA	100	None	PR 56-129	DF=1
Duck Slough @ Gurr Rd	E	03/17/09	11:20	EPA 8141A	Triphenyl phosphate (Surrogate)	100	%	=	NA	NA	100	None	PR 56-129	DF=1
Duck Slough @ Gurr Rd	E	04/21/09	13:20	EPA 8141A	Triphenyl phosphate (Surrogate)	88.6	%	=	NA	NA	100	None	PR 56-129	DF=1
Duck Slough @ Gurr Rd	E	04/21/09	13:20	EPA 8141A	Triphenyl phosphate (Surrogate)	93.6	%	=	NA	NA	100	None	PR 56-129	DF=1
Duck Slough @ Gurr Rd	E	05/19/09	13:40	EPA 8141A	Triphenyl phosphate (Surrogate)	84.6	%	=	NA	NA	100	None	PR 56-129	DF=1
Duck Slough @ Gurr Rd	E	05/19/09	13:40	EPA 8141A	Triphenyl phosphate (Surrogate)	63.4	%	=	NA	NA	100	None	PR 56-129	DF=1
Duck Slough @ Hwy 99	MPM	05/19/09	09:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Duck Slough @ Hwy 99	MPM	07/21/09	09:50	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Duck Slough @ Hwy 99	MPM	09/22/09	09:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Duck Slough @ Hwy 99	MPM	05/19/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	94	%	=	NA	NA	100	None	PR 60-150	DF=1
Duck Slough @ Hwy 99	MPM	07/21/09	09:50	EPA 8141A	Tributylphosphate (Surrogate)	106	%	=	NA	NA	100	None	PR 60-150	DF=1
Duck Slough @ Hwy 99	MPM	09/22/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	88.7	%	=	NA	NA	100	None	PR 60-150	DF=1
Duck Slough @ Hwy 99	MPM	05/19/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	86	%	=	NA	NA	100	None	PR 56-129	DF=1
Duck Slough @ Hwy 99	MPM	07/21/09	09:50	EPA 8141A	Triphenyl phosphate (Surrogate)	93.1	%	=	NA	NA	100	None	PR 56-129	DF=1
Duck Slough @ Hwy 99	MPM	09/22/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	89.9	%	=	NA	NA	100	None	PR 56-129	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Highline Canal @ Hwy 99	MPM	07/21/09	08:30	EPA 8141A	Chlorpyrifos	0.093	µg/L	=	0.0026	0.015		None		DF=1
Highline Canal @ Hwy 99	MPM	07/21/09	08:30	EPA 8141A	Tributylphosphate (Surrogate)	107	%	=	NA	NA	100	None	PR 60-150	DF=1
Highline Canal @ Hwy 99	MPM	07/21/09	08:30	EPA 8141A	Triphenyl phosphate (Surrogate)	99.9	%	=	NA	NA	100	None	PR 56-129	DF=1
Highline Canal @ Lombardy Rd	MPM	07/21/09	16:40	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Highline Canal @ Lombardy Rd	MPM	08/18/09	18:20	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Highline Canal @ Lombardy Rd	MPM	07/21/09	16:40	EPA 8141A	Tributylphosphate (Surrogate)	94.7	%	=	NA	NA	100	None	PR 60-150	DF=1
Highline Canal @ Lombardy Rd	MPM	08/18/09	18:20	EPA 8141A	Tributylphosphate (Surrogate)	106	%	=	NA	NA	100	None	PR 60-150	DF=1
Highline Canal @ Lombardy Rd	MPM	07/21/09	16:40	EPA 8141A	Triphenyl phosphate (Surrogate)	88.9	%	=	NA	NA	100	None	PR 56-129	DF=1
Highline Canal @ Lombardy Rd	MPM	08/18/09	18:20	EPA 8141A	Triphenyl phosphate (Surrogate)	114	%	=	NA	NA	100	None	PR 56-129	DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8081A	Decachlorobiphenyl (Surrogate)	80.8	%	=	NA	NA	100	None	PR 16-146	DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 547M	Glyphosate	<4	µg/L	ND	4	5		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		Surrogate recovery is outside of control limits		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	72.4	%	=	NA	NA	100	None	PR 15-98	DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 619	Tributylphosphate (Surrogate)	85.8	%	=	NA	NA	100	None	PR 62-145	DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Tributylphosphate (Surrogate)	114	%	=	NA	NA	100	None	PR 60-150	DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Tributylphosphate (Surrogate)	85.8	%	=	NA	NA	100	None	PR 60-150	DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8321A	Tributylphosphate (Surrogate)	113	%	=	NA	NA	100	None	PR 36-140	DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 619	Tributylphosphate (Surrogate)	91.8	%	=	NA	NA	100	None	PR 62-145	DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Tributylphosphate (Surrogate)	75.6	%	=	NA	NA	100	None	PR 60-150	DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Tributylphosphate (Surrogate)	91.8	%	=	NA	NA	100	None	PR 60-150	DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8321A	Tributylphosphate (Surrogate)	119	%	=	NA	NA	100	None	PR 36-140	DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 619	Tributylphosphate (Surrogate)	76.3	%	=	NA	NA	100	None	PR 62-145	DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Tributylphosphate (Surrogate)	76.3	%	=	NA	NA	100	None	PR 60-150	DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Tributylphosphate (Surrogate)	85.9	%	=	NA	NA	100	None	PR 60-150	DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8321A	Tributylphosphate (Surrogate)	105	%	=	NA	NA	100	None	PR 36-140	DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 619	Tributylphosphate (Surrogate)	98.5	%	=	NA	NA	100	None	PR 62-145	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Tributylphosphate (Surrogate)	130	%	=	NA	NA	100	None	PR 60-150	DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Tributylphosphate (Surrogate)	98.5	%	=	NA	NA	100	None	PR 60-150	DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8321A	Tributylphosphate (Surrogate)	73.5	%	=	NA	NA	100	None	PR 36-140	DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 619	Tributylphosphate (Surrogate)	108	%	=	NA	NA	100	None	PR 62-145	DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Tributylphosphate (Surrogate)	78.5	%	=	NA	NA	100	None	PR 60-150	DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Tributylphosphate (Surrogate)	108	%	=	NA	NA	100	None	PR 60-150	DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8321A	Tributylphosphate (Surrogate)	72.8	%	=	NA	NA	100	None	PR 36-140	DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 619	Tributylphosphate (Surrogate)	83	%	=	NA	NA	100	None	PR 62-145	DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Tributylphosphate (Surrogate)	128	%	=	NA	NA	100	None	PR 60-150	DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Tributylphosphate (Surrogate)	83	%	=	NA	NA	100	None	PR 60-150	DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8321A	Tributylphosphate (Surrogate)	84.4	%	=	NA	NA	100	None	PR 36-140	DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 619	Tributylphosphate (Surrogate)	108	%	=	NA	NA	100	None	PR 62-145	DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Tributylphosphate (Surrogate)	108	%	=	NA	NA	100	None	PR 60-150	DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Tributylphosphate (Surrogate)	106	%	=	NA	NA	100	None	PR 60-150	DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8321A	Tributylphosphate (Surrogate)	107	%	=	NA	NA	100	None	PR 36-140	DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 619	Triphenyl phosphate (Surrogate)	86.8	%	=	NA	NA	100	None	PR 54-144	DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Triphenyl phosphate (Surrogate)	86.8	%	=	NA	NA	100	None	PR 56-129	DF=1
Howard Lateral @ Hwy 140	E	04/21/09	14:30	EPA 8141A	Triphenyl phosphate (Surrogate)	122	%	=	NA	NA	100	None	PR 56-129	DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 619	Triphenyl phosphate (Surrogate)	84.8	%	=	NA	NA	100	None	PR 54-144	DF=1
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Triphenyl phosphate (Surrogate)	84.8	%	=	NA	NA	100	None	PR 56-129	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Howard Lateral @ Hwy 140	E	05/19/09	14:40	EPA 8141A	Triphenyl phosphate (Surrogate)	68.5	%	=	NA	NA	100	None	PR 56-129	DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 619	Triphenyl phosphate (Surrogate)	77.7	%	=	NA	NA	100	None	PR 54-144	DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Triphenyl phosphate (Surrogate)	94.3	%	=	NA	NA	100	None	PR 56-129	DF=1
Howard Lateral @ Hwy 140	E	06/16/09	13:30	EPA 8141A	Triphenyl phosphate (Surrogate)	77.7	%	=	NA	NA	100	None	PR 56-129	DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 619	Triphenyl phosphate (Surrogate)	90.9	%	=	NA	NA	100	None	PR 54-144	DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Triphenyl phosphate (Surrogate)	90.9	%	=	NA	NA	100	None	PR 56-129	DF=1
Howard Lateral @ Hwy 140	E	07/21/09	15:30	EPA 8141A	Triphenyl phosphate (Surrogate)	128	%	=	NA	NA	100	None	PR 56-129	DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 619	Triphenyl phosphate (Surrogate)	112	%	=	NA	NA	100	None	PR 54-144	DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Triphenyl phosphate (Surrogate)	112	%	=	NA	NA	100	None	PR 56-129	DF=1
Howard Lateral @ Hwy 140	E	08/18/09	16:30	EPA 8141A	Triphenyl phosphate (Surrogate)	83.8	%	=	NA	NA	100	None	PR 56-129	DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 619	Triphenyl phosphate (Surrogate)	84.8	%	=	NA	NA	100	None	PR 54-144	DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Triphenyl phosphate (Surrogate)	84.8	%	=	NA	NA	100	None	PR 56-129	DF=1
Howard Lateral @ Hwy 140	E	09/22/09	17:00	EPA 8141A	Triphenyl phosphate (Surrogate)	139	%	=	NA	NA	100	Surrogate recovery is outside of control limits	PR 56-129	DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 619	Triphenyl phosphate (Surrogate)	116	%	=	NA	NA	100	None	PR 54-144	DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Triphenyl phosphate (Surrogate)	116	%	=	NA	NA	100	None	PR 56-129	DF=1
Howard Lateral @ Hwy 140	E	10/20/09	13:50	EPA 8141A	Triphenyl phosphate (Surrogate)	123	%	=	NA	NA	100	None	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Chlorpyrifos	0.049	µg/L	=	0.0026	0.015		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	Decachlorobiphenyl (Surrogate)	86	%	=	NA	NA	100	None	PR 16-146	DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	Decachlorobiphenyl (Surrogate)	64.9	%	=	NA	NA	100	None	PR 16-146	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	Decachlorobiphenyl (Surrogate)	80.6	%	=	NA	NA	100	None	PR 16-146	DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 547M	Glyphosate	<4	µg/L	ND	4	5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 547M	Glyphosate	<4	µg/L	ND	4	5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 547M	Glyphosate	<4	µg/L	ND	4	5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	HCH, alpha	0.013	µg/L	=	0.005	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		Surrogate recovery is outside of control limits		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		Surrogate recovery is outside of control limits		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	79.5	%	=	NA	NA	100	None	PR 15-98	DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	66.7	%	=	NA	NA	100	None	PR 15-98	DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	74.2	%	=	NA	NA	100	None	PR 15-98	DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 619	Tributylphosphate (Surrogate)	124	%	=	NA	NA	100	None	PR 62-145	DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Tributylphosphate (Surrogate)	124	%	=	NA	NA	100	None	PR 60-150	DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Tributylphosphate (Surrogate)	102	%	=	NA	NA	100	None	PR 60-150	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8321A	Tributylphosphate (Surrogate)	100	%	=	NA	NA	100	None	PR 36-140	DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 619	Tributylphosphate (Surrogate)	127	%	=	NA	NA	100	None	PR 62-145	DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Tributylphosphate (Surrogate)	104	%	=	NA	NA	100	None	PR 60-150	DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Tributylphosphate (Surrogate)	127	%	=	NA	NA	100	None	PR 60-150	DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8321A	Tributylphosphate (Surrogate)	121	%	=	NA	NA	100	None	PR 36-140	DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 619	Tributylphosphate (Surrogate)	90.9	%	=	NA	NA	100	None	PR 62-145	DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Tributylphosphate (Surrogate)	90.9	%	=	NA	NA	100	None	PR 60-150	DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Tributylphosphate (Surrogate)	72.2	%	=	NA	NA	100	None	PR 60-150	DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8321A	Tributylphosphate (Surrogate)	107	%	=	NA	NA	100	None	PR 36-140	DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 619	Tributylphosphate (Surrogate)	86	%	=	NA	NA	100	None	PR 62-145	DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Tributylphosphate (Surrogate)	89	%	=	NA	NA	100	None	PR 60-150	DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Tributylphosphate (Surrogate)	86	%	=	NA	NA	100	None	PR 60-150	DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8321A	Tributylphosphate (Surrogate)	100	%	=	NA	NA	100	None	PR 36-140	DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 619	Tributylphosphate (Surrogate)	72.4	%	=	NA	NA	100	None	PR 62-145	DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Tributylphosphate (Surrogate)	84.6	%	=	NA	NA	100	None	PR 60-150	DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Tributylphosphate (Surrogate)	72.4	%	=	NA	NA	100	None	PR 60-150	DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8321A	Tributylphosphate (Surrogate)	78.6	%	=	NA	NA	100	None	PR 36-140	DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 619	Tributylphosphate (Surrogate)	102	%	=	NA	NA	100	None	PR 62-145	DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Tributylphosphate (Surrogate)	121	%	=	NA	NA	100	None	PR 60-150	DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Tributylphosphate (Surrogate)	102	%	=	NA	NA	100	None	PR 60-150	DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8321A	Tributylphosphate (Surrogate)	98.9	%	=	NA	NA	100	None	PR 36-140	DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 619	Tributylphosphate (Surrogate)	98.3	%	=	NA	NA	100	None	PR 62-145	DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Tributylphosphate (Surrogate)	76.4	%	=	NA	NA	100	None	PR 60-150	DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Tributylphosphate (Surrogate)	98.3	%	=	NA	NA	100	None	PR 60-150	DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8321A	Tributylphosphate (Surrogate)	77	%	=	NA	NA	100	None	PR 36-140	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 619	Tributylphosphate (Surrogate)	101	%	=	NA	NA	100	None	PR 62-145	DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Tributylphosphate (Surrogate)	122	%	=	NA	NA	100	None	PR 60-150	DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Tributylphosphate (Surrogate)	101	%	=	NA	NA	100	None	PR 60-150	DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8321A	Tributylphosphate (Surrogate)	108	%	=	NA	NA	100	None	PR 36-140	DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 619	Tributylphosphate (Surrogate)	102	%	=	NA	NA	100	None	PR 62-145	DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Tributylphosphate (Surrogate)	102	%	=	NA	NA	100	None	PR 60-150	DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Tributylphosphate (Surrogate)	114	%	=	NA	NA	100	None	PR 60-150	DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8321A	Tributylphosphate (Surrogate)	111	%	=	NA	NA	100	None	PR 36-140	DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 619	Triphenyl phosphate (Surrogate)	114	%	=	NA	NA	100	None	PR 54-144	DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Triphenyl phosphate (Surrogate)	114	%	=	NA	NA	100	None	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	EPA 8141A	Triphenyl phosphate (Surrogate)	96.6	%	=	NA	NA	100	None	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 619	Triphenyl phosphate (Surrogate)	106	%	=	NA	NA	100	None	PR 54-144	DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Triphenyl phosphate (Surrogate)	108	%	=	NA	NA	100	None	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	EPA 8141A	Triphenyl phosphate (Surrogate)	106	%	=	NA	NA	100	None	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 619	Triphenyl phosphate (Surrogate)	94.6	%	=	NA	NA	100	None	PR 54-144	DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Triphenyl phosphate (Surrogate)	78.8	%	=	NA	NA	100	None	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	EPA 8141A	Triphenyl phosphate (Surrogate)	94.6	%	=	NA	NA	100	None	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 619	Triphenyl phosphate (Surrogate)	81.1	%	=	NA	NA	100	None	PR 54-144	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Triphenyl phosphate (Surrogate)	81.1	%	=	NA	NA	100	None	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	EPA 8141A	Triphenyl phosphate (Surrogate)	71.4	%	=	NA	NA	100	None	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 619	Triphenyl phosphate (Surrogate)	68.9	%	=	NA	NA	100	None	PR 54-144	DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Triphenyl phosphate (Surrogate)	94.5	%	=	NA	NA	100	None	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	EPA 8141A	Triphenyl phosphate (Surrogate)	68.9	%	=	NA	NA	100	None	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 619	Triphenyl phosphate (Surrogate)	94	%	=	NA	NA	100	None	PR 54-144	DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Triphenyl phosphate (Surrogate)	94	%	=	NA	NA	100	None	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	EPA 8141A	Triphenyl phosphate (Surrogate)	121	%	=	NA	NA	100	None	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 619	Triphenyl phosphate (Surrogate)	111	%	=	NA	NA	100	None	PR 54-144	DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Triphenyl phosphate (Surrogate)	78.5	%	=	NA	NA	100	None	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	EPA 8141A	Triphenyl phosphate (Surrogate)	111	%	=	NA	NA	100	None	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 619	Triphenyl phosphate (Surrogate)	100	%	=	NA	NA	100	None	PR 54-144	DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Triphenyl phosphate (Surrogate)	100	%	=	NA	NA	100	None	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	EPA 8141A	Triphenyl phosphate (Surrogate)	141	%	=	NA	NA	100	Surrogate recovery is outside of control limits	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 619	Triphenyl phosphate (Surrogate)	105	%	=	NA	NA	100	None	PR 54-144	DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Triphenyl phosphate (Surrogate)	105	%	=	NA	NA	100	None	PR 56-129	DF=1
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	EPA 8141A	Triphenyl phosphate (Surrogate)	130	%	=	NA	NA	100	Surrogate recovery is outside of control limits	PR 56-129	DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01		None		DF=1
Merced River @ Santa Fe	E	12/15/09	14:40	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Merced River @ Santa Fe	E	05/19/09	15:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	12/15/09	14:40	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8141A	Chlorpyrifos	0.1	µg/L	=	0.0026	0.015		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Merced River @ Santa Fe	E	05/19/09	15:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Merced River @ Santa Fe	E	11/17/09	14:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Merced River @ Santa Fe	E	12/15/09	14:40	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	78.2	%	=	NA	NA	100	None	PR 16-146	DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	75.3	%	=	NA	NA	100	None	PR 16-146	DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	82.8	%	=	NA	NA	100	None	PR 16-146	DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	Decachlorobiphenyl (Surrogate)	72.4	%	=	NA	NA	100	None	PR 16-146	DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	Decachlorobiphenyl (Surrogate)	76.4	%	=	NA	NA	100	None	PR 16-146	DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	Decachlorobiphenyl (Surrogate)	104	%	=	NA	NA	100	None	PR 16-146	DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	Decachlorobiphenyl (Surrogate)	78.4	%	=	NA	NA	100	None	PR 16-146	DF=1
Merced River @ Santa Fe	E	12/15/09	14:40	EPA 8081A	Decachlorobiphenyl (Surrogate)	42.3	%	=	NA	NA	100	None	PR 16-146	DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Merced River @ Santa Fe	E	05/19/09	15:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8141A	Diazinon	0.018	µg/L	DNQ	0.004	0.02		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8141A	Diazinon	0.0086	µg/L	DNQ	0.004	0.02		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Merced River @ Santa Fe	E	05/19/09	15:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Merced River @ Santa Fe	E	05/19/09	15:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Merced River @ Santa Fe	E	05/19/09	15:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Merced River @ Santa Fe	E	05/19/09	15:30	EPA 8141A	Disulfoton	0.021	µg/L	DNQ	0.02	0.05		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	12/15/09	14:40	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Merced River @ Santa Fe	E	12/15/09	14:40	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	12/15/09	14:40	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	12/15/09	14:40	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	HCH, delta	0.051	µg/L	=	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	12/15/09	14:40	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	12/15/09	14:40	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	12/15/09	14:40	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	12/15/09	14:40	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Merced River @ Santa Fe	E	05/19/09	15:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Merced River @ Santa Fe	E	05/19/09	15:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Merced River @ Santa Fe	E	05/19/09	15:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Merced River @ Santa Fe	E	05/19/09	15:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Merced River @ Santa Fe	E	05/19/09	15:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Merced River @ Santa Fe	E	05/19/09	15:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	76.6	%	=	NA	NA	100	None	PR 15-98	DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	65.4	%	=	NA	NA	100	None	PR 15-98	DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	72.9	%	=	NA	NA	100	None	PR 15-98	DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	63.1	%	=	NA	NA	100	None	PR 15-98	DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	38.8	%	=	NA	NA	100	None	PR 15-98	DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	75.6	%	=	NA	NA	100	None	PR 15-98	DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	66.1	%	=	NA	NA	100	None	PR 15-98	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	12/15/09	14:40	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	41.3	%	=	NA	NA	100	None	PR 15-98	DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5		None		DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5		None		DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5		None		DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5		None		DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5		None		DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5		None		DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5		None		DF=1
Merced River @ Santa Fe	E	12/15/09	14:40	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5		None		DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8141A	Tributylphosphate (Surrogate)	93.9	%	=	NA	NA	100	None	PR 60-150	DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8141A	Tributylphosphate (Surrogate)	118	%	=	NA	NA	100	None	PR 60-150	DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8141A	Tributylphosphate (Surrogate)	77.9	%	=	NA	NA	100	None	PR 60-150	DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8141A	Tributylphosphate (Surrogate)	129	%	=	NA	NA	100	None	PR 60-150	DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8141A	Tributylphosphate (Surrogate)	89.6	%	=	NA	NA	100	None	PR 60-150	DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8141A	Tributylphosphate (Surrogate)	68.5	%	=	NA	NA	100	None	PR 60-150	DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8141A	Tributylphosphate (Surrogate)	82.5	%	=	NA	NA	100	None	PR 60-150	DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8141A	Tributylphosphate (Surrogate)	95.1	%	=	NA	NA	100	None	PR 60-150	DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8141A	Tributylphosphate (Surrogate)	89.9	%	=	NA	NA	100	None	PR 60-150	DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8141A	Tributylphosphate (Surrogate)	110	%	=	NA	NA	100	None	PR 60-150	DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8141A	Tributylphosphate (Surrogate)	149	%	=	NA	NA	100	None	PR 60-150	DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8141A	Tributylphosphate (Surrogate)	83.6	%	=	NA	NA	100	None	PR 60-150	DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8141A	Tributylphosphate (Surrogate)	85.3	%	=	NA	NA	100	None	PR 60-150	DF=1
Merced River @ Santa Fe	E	05/19/09	15:30	EPA 8141A	Tributylphosphate (Surrogate)	91	%	=	NA	NA	100	None	PR 60-150	DF=1
Merced River @ Santa Fe	E	05/19/09	15:30	EPA 8141A	Tributylphosphate (Surrogate)	64.7	%	=	NA	NA	100	None	PR 60-150	DF=1
Merced River @ Santa Fe	E	11/17/09	14:30	EPA 8141A	Tributylphosphate (Surrogate)	99.8	%	=	NA	NA	100	None	PR 60-150	DF=1
Merced River @ Santa Fe	E	12/15/09	14:40	EPA 8141A	Tributylphosphate (Surrogate)	90.5	%	=	NA	NA	100	None	PR 60-150	DF=1
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8141A	Triphenyl phosphate (Surrogate)	88.6	%	=	NA	NA	100	None	PR 56-129	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	10/21/08	15:00	EPA 8141A	Triphenyl phosphate (Surrogate)	106	%	=	NA	NA	100	None	PR 56-129	DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8141A	Triphenyl phosphate (Surrogate)	116	%	=	NA	NA	100	None	PR 56-129	DF=1
Merced River @ Santa Fe	E	11/11/08	13:00	EPA 8141A	Triphenyl phosphate (Surrogate)	81.3	%	=	NA	NA	100	None	PR 56-129	DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8141A	Triphenyl phosphate (Surrogate)	82.1	%	=	NA	NA	100	None	PR 56-129	DF=1
Merced River @ Santa Fe	E	12/16/08	13:00	EPA 8141A	Triphenyl phosphate (Surrogate)	77.1	%	=	NA	NA	100	None	PR 56-129	DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8141A	Triphenyl phosphate (Surrogate)	86.1	%	=	NA	NA	100	None	PR 56-129	DF=1
Merced River @ Santa Fe	E	01/20/09	14:10	EPA 8141A	Triphenyl phosphate (Surrogate)	81	%	=	NA	NA	100	None	PR 56-129	DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8141A	Triphenyl phosphate (Surrogate)	110	%	=	NA	NA	100	None	PR 56-129	DF=1
Merced River @ Santa Fe	E	02/07/09	14:20	EPA 8141A	Triphenyl phosphate (Surrogate)	90.5	%	=	NA	NA	100	None	PR 56-129	DF=1
Merced River @ Santa Fe	E	03/17/09	13:20	EPA 8141A	Triphenyl phosphate (Surrogate)	96	%	=	NA	NA	100	None	PR 56-129	DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8141A	Triphenyl phosphate (Surrogate)	91.8	%	=	NA	NA	100	None	PR 56-129	DF=1
Merced River @ Santa Fe	E	04/21/09	15:50	EPA 8141A	Triphenyl phosphate (Surrogate)	90.1	%	=	NA	NA	100	None	PR 56-129	DF=1
Merced River @ Santa Fe	E	05/19/09	15:30	EPA 8141A	Triphenyl phosphate (Surrogate)	62.6	%	=	NA	NA	100	None	PR 56-129	DF=1
Merced River @ Santa Fe	E	05/19/09	15:30	EPA 8141A	Triphenyl phosphate (Surrogate)	80.6	%	=	NA	NA	100	None	PR 56-129	DF=1
Merced River @ Santa Fe	E	11/17/09	14:30	EPA 8141A	Triphenyl phosphate (Surrogate)	111	%	=	NA	NA	100	None	PR 56-129	DF=1
Merced River @ Santa Fe	E	12/15/09	14:40	EPA 8141A	Triphenyl phosphate (Surrogate)	109	%	=	NA	NA	100	None	PR 56-129	DF=1
Miles Creek @ Reilly Rd	MPM	07/21/09	14:00	EPA 8141A	Chlorpyrifos	0.028	µg/L	=	0.0026	0.015		None		DF=1
Miles Creek @ Reilly Rd	MPM	08/18/09	13:20	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Miles Creek @ Reilly Rd	MPM	09/22/09	12:40	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Miles Creek @ Reilly Rd	MPM	07/21/09	14:00	EPA 8141A	Tributylphosphate (Surrogate)	97.3	%	=	NA	NA	100	None	PR 60-150	DF=1
Miles Creek @ Reilly Rd	MPM	08/18/09	13:20	EPA 8141A	Tributylphosphate (Surrogate)	105	%	=	NA	NA	100	None	PR 60-150	DF=1
Miles Creek @ Reilly Rd	MPM	09/22/09	12:40	EPA 8141A	Tributylphosphate (Surrogate)	86	%	=	NA	NA	100	None	PR 60-150	DF=1
Miles Creek @ Reilly Rd	MPM	07/21/09	14:00	EPA 8141A	Triphenyl phosphate (Surrogate)	88.7	%	=	NA	NA	100	None	PR 56-129	DF=1
Miles Creek @ Reilly Rd	MPM	08/18/09	13:20	EPA 8141A	Triphenyl phosphate (Surrogate)	109	%	=	NA	NA	100	None	PR 56-129	DF=1
Miles Creek @ Reilly Rd	MPM	09/22/09	12:40	EPA 8141A	Triphenyl phosphate (Surrogate)	87.3	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		Surrogate recovery is outside of control limits		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Chlorpyrifos	0.017	µg/L	=	0.0026	0.015		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Chlorpyrifos	0.033	µg/L	=	0.0026	0.015		Field duplicate RPD above QC limit		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 619	Cyanazine	0.13	µg/L	DNQ	0.09	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		Surrogate recovery is outside of control limits		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	Decachlorobiphenyl (Surrogate)	47	%	=	NA	NA	100	None	PR 16-146	DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	Decachlorobiphenyl (Surrogate)	108	%	=	NA	NA	100	None	PR 16-146	DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	Decachlorobiphenyl (Surrogate)	64.1	%	=	NA	NA	100	None	PR 16-146	DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	Decachlorobiphenyl (Surrogate)	48.5	%	=	NA	NA	100	None	PR 16-146	DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	62.7	%	=	NA	NA	100	None	PR 16-146	DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Diazinon	0.013	µg/L	DNQ	0.004	0.02		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8321A	Diuron	2.1	µg/L	=	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8321A	Diuron	0.86	µg/L	=	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 547M	Glyphosate	<4	µg/L	ND	4	5		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 547M	Glyphosate	25	µg/L	=	4	5		None		DF=1; The positive result was confirmed by analysis on a second column.
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 547M	Glyphosate	26	µg/L	=	4	5		None		DF=1; The positive result was confirmed by analysis on a second column.
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 547M	Glyphosate	10	µg/L	=	4	5		None		DF=1; The positive result was confirmed by analysis on a second column.
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	5		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		Surrogate recovery is outside of control limits		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 619	Simazine	2.1	µg/L	=	0.08	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 619	Simazine	3.4	µg/L	=	0.08	0.5		Field duplicate RPD above QC limit		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 619	Simazine	0.22	µg/L	DNQ	0.08	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		Surrogate recovery is outside of control limits		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	46.3	%	=	NA	NA	100	None	PR 15-98	DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	88.9	%	=	NA	NA	100	None	PR 15-98	DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	40.7	%	=	NA	NA	100	None	PR 15-98	DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	60.6	%	=	NA	NA	100	None	PR 15-98	DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	69.9	%	=	NA	NA	100	None	PR 15-98	DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 619	Tributylphosphate (Surrogate)	110	%	=	NA	NA	100	None	PR 62-145	DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Tributylphosphate (Surrogate)	110	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Tributylphosphate (Surrogate)	67.4	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8321A	Tributylphosphate (Surrogate)	105	%	=	NA	NA	100	None	PR 36-140	DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 619	Tributylphosphate (Surrogate)	104	%	=	NA	NA	100	None	PR 62-145	DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Tributylphosphate (Surrogate)	104	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Tributylphosphate (Surrogate)	61.7	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8321A	Tributylphosphate (Surrogate)	89.4	%	=	NA	NA	100	None	PR 36-140	DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 619	Tributylphosphate (Surrogate)	102	%	=	NA	NA	100	None	PR 62-145	DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Tributylphosphate (Surrogate)	99.3	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Tributylphosphate (Surrogate)	102	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8321A	Tributylphosphate (Surrogate)	76.4	%	=	NA	NA	100	None	PR 36-140	DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 619	Tributylphosphate (Surrogate)	131	%	=	NA	NA	100	None	PR 62-145	DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Tributylphosphate (Surrogate)	133	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Tributylphosphate (Surrogate)	131	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8321A	Tributylphosphate (Surrogate)	69.7	%	=	NA	NA	100	None	PR 36-140	DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 619	Tributylphosphate (Surrogate)	83.5	%	=	NA	NA	100	None	PR 62-145	DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	73.4	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	83.5	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	77	%	=	NA	NA	100	None	PR 36-140	DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 619	Tributylphosphate (Surrogate)	88.3	%	=	NA	NA	100	None	PR 62-145	DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	88.3	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	142	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	95.3	%	=	NA	NA	100	None	PR 36-140	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 619	Tributylphosphate (Surrogate)	61.2	%	=	NA	NA	100	Surrogate recovery is outside of control limits	PR 62-145	DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Tributylphosphate (Surrogate)	86.8	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Tributylphosphate (Surrogate)	211	%	=	NA	NA	100	Surrogate recovery is outside of control limits	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8321A	Tributylphosphate (Surrogate)	87.4	%	=	NA	NA	100	None	PR 36-140	DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 619	Tributylphosphate (Surrogate)	86.7	%	=	NA	NA	100	None	PR 62-145	DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	107	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	86.7	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	97.2	%	=	NA	NA	100	None	PR 36-140	DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 619	Tributylphosphate (Surrogate)	92.3	%	=	NA	NA	100	None	PR 62-145	DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	77.1	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	92.9	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8321A	Tributylphosphate (Surrogate)	66.2	%	=	NA	NA	100	None	PR 36-140	DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 619	Tributylphosphate (Surrogate)	82.9	%	=	NA	NA	100	None	PR 62-145	DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	107	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	82.9	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8321A	Tributylphosphate (Surrogate)	86.8	%	=	NA	NA	100	None	PR 36-140	DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 619	Tributylphosphate (Surrogate)	87.8	%	=	NA	NA	100	None	PR 62-145	DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	87.8	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	114	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	110	%	=	NA	NA	100	None	PR 36-140	DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 619	Tributylphosphate (Surrogate)	94.9	%	=	NA	NA	100	None	PR 62-145	DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	97.9	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	94.9	%	=	NA	NA	100	None	PR 60-150	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8321A	Tributylphosphate (Surrogate)	88.2	%	=	NA	NA	100	None	PR 36-140	DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 619	Triphenyl phosphate (Surrogate)	87.8	%	=	NA	NA	100	None	PR 54-144	DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Triphenyl phosphate (Surrogate)	87.8	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	EPA 8141A	Triphenyl phosphate (Surrogate)	92.6	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 619	Triphenyl phosphate (Surrogate)	94	%	=	NA	NA	100	None	PR 54-144	DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Triphenyl phosphate (Surrogate)	94	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	EPA 8141A	Triphenyl phosphate (Surrogate)	60.9	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 619	Triphenyl phosphate (Surrogate)	97.4	%	=	NA	NA	100	None	PR 54-144	DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Triphenyl phosphate (Surrogate)	101	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	EPA 8141A	Triphenyl phosphate (Surrogate)	97.4	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 619	Triphenyl phosphate (Surrogate)	74.5	%	=	NA	NA	100	None	PR 54-144	DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Triphenyl phosphate (Surrogate)	74.5	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	EPA 8141A	Triphenyl phosphate (Surrogate)	112	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	85.5	%	=	NA	NA	100	None	PR 54-144	DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	85.5	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	79.6	%	=	NA	NA	100	None	PR 56-129	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	77.2	%	=	NA	NA	100	None	PR 54-144	DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	63.6	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	77.2	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 619	Triphenyl phosphate (Surrogate)	56.3	%	=	NA	NA	100	None	PR 54-144	DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Triphenyl phosphate (Surrogate)	91.7	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	EPA 8141A	Triphenyl phosphate (Surrogate)	81.8	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	81.1	%	=	NA	NA	100	None	PR 54-144	DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	111	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	81.1	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 619	Triphenyl phosphate (Surrogate)	95.2	%	=	NA	NA	100	None	PR 54-144	DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	81.5	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	95.5	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 619	Triphenyl phosphate (Surrogate)	82.7	%	=	NA	NA	100	None	PR 54-144	DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	82.7	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	125	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	92.9	%	=	NA	NA	100	None	PR 54-144	DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	124	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	92.9	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 619	Triphenyl phosphate (Surrogate)	97.9	%	=	NA	NA	100	None	PR 54-144	DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	104	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	97.9	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	Decachlorobiphenyl (Surrogate)	32.2	%	=	NA	NA	100	None	PR 16-146	DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 547M	Glyphosate	<2.8	µg/L	ND	2.8	5		None		DF=1; Sediment in bottom of sample container.
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	37.7	%	=	NA	NA	100	None	PR 15-98	DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 619	Tributylphosphate (Surrogate)	87.6	%	=	NA	NA	100	None	PR 62-145	DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Tributylphosphate (Surrogate)	87.6	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Tributylphosphate (Surrogate)	97.2	%	=	NA	NA	100	None	PR 60-150	DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8321A	Tributylphosphate (Surrogate)	76.8	%	=	NA	NA	100	None	PR 36-140	DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 619	Triphenyl phosphate (Surrogate)	104	%	=	NA	NA	100	None	PR 54-144	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Triphenyl phosphate (Surrogate)	87.8	%	=	NA	NA	100	None	PR 56-129	DF=1
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	EPA 8141A	Triphenyl phosphate (Surrogate)	104	%	=	NA	NA	100	None	PR 56-129	DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8081A	DDE (p,p')	0.022	µg/L	=	0.004	0.01		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8081A	Decachlorobiphenyl (Surrogate)	53.1	%	=	NA	NA	100	None	PR 16-146	DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8081A	Decachlorobiphenyl (Surrogate)	66.9	%	=	NA	NA	100	None	PR 16-146	DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8081A	Decachlorobiphenyl (Surrogate)	31	%	=	NA	NA	100	None	PR 16-146	DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 547M	Glyphosate	<4	µg/L	ND	4	5		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 547M	Glyphosate	<4	µg/L	ND	4	5		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 547M	Glyphosate	<2.8	µg/L	ND	2.8	5		None		DF=1; Sediment in bottom of sample container.
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		Surrogate recovery is outside of control limits		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 619	Simazine	1.3	µg/L	=	0.08	0.5		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 619	Simazine	0.99	µg/L	=	0.08	0.5		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	37.5	%	=	NA	NA	100	None	PR 15-98	DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	50.3	%	=	NA	NA	100	None	PR 15-98	DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	45.2	%	=	NA	NA	100	None	PR 15-98	DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 619	Tributylphosphate (Surrogate)	89.2	%	=	NA	NA	100	None	PR 62-145	DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Tributylphosphate (Surrogate)	75.4	%	=	NA	NA	100	None	PR 60-150	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Tributylphosphate (Surrogate)	89.2	%	=	NA	NA	100	None	PR 60-150	DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8321A	Tributylphosphate (Surrogate)	70.9	%	=	NA	NA	100	None	PR 36-140	DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 619	Tributylphosphate (Surrogate)	124	%	=	NA	NA	100	None	PR 62-145	DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Tributylphosphate (Surrogate)	102	%	=	NA	NA	100	None	PR 60-150	DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Tributylphosphate (Surrogate)	124	%	=	NA	NA	100	None	PR 60-150	DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8321A	Tributylphosphate (Surrogate)	93.1	%	=	NA	NA	100	None	PR 36-140	DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 619	Tributylphosphate (Surrogate)	86.8	%	=	NA	NA	100	None	PR 62-145	DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Tributylphosphate (Surrogate)	89.7	%	=	NA	NA	100	None	PR 60-150	DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Tributylphosphate (Surrogate)	86.8	%	=	NA	NA	100	None	PR 60-150	DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8321A	Tributylphosphate (Surrogate)	112	%	=	NA	NA	100	None	PR 36-140	DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 619	Tributylphosphate (Surrogate)	84.7	%	=	NA	NA	100	None	PR 62-145	DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Tributylphosphate (Surrogate)	105	%	=	NA	NA	100	None	PR 60-150	DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Tributylphosphate (Surrogate)	84.7	%	=	NA	NA	100	None	PR 60-150	DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8321A	Tributylphosphate (Surrogate)	85.8	%	=	NA	NA	100	None	PR 36-140	DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05		None		DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05		None		DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 619	Triphenyl phosphate (Surrogate)	84.8	%	=	NA	NA	100	None	PR 54-144	DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Triphenyl phosphate (Surrogate)	74.1	%	=	NA	NA	100	None	PR 56-129	DF=1
Mustang Creek @ East Ave	E	02/07/09	15:30	EPA 8141A	Triphenyl phosphate (Surrogate)	84.8	%	=	NA	NA	100	None	PR 56-129	DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 619	Triphenyl phosphate (Surrogate)	77.1	%	=	NA	NA	100	None	PR 54-144	DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Triphenyl phosphate (Surrogate)	130	%	=	NA	NA	100	Surrogate recovery is outside of control limits	PR 56-129	DF=1
Mustang Creek @ East Ave	E	03/17/09	14:20	EPA 8141A	Triphenyl phosphate (Surrogate)	77.1	%	=	NA	NA	100	None	PR 56-129	DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 619	Triphenyl phosphate (Surrogate)	84.2	%	=	NA	NA	100	None	PR 54-144	DF=1

Station Name	Sample Type Code	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Triphenyl phosphate (Surrogate)	84.2	%	=	NA	NA	100	None	PR 56-129	DF=1
Mustang Creek @ East Ave	E	10/20/09	15:20	EPA 8141A	Triphenyl phosphate (Surrogate)	99.5	%	=	NA	NA	100	None	PR 56-129	DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 619	Triphenyl phosphate (Surrogate)	105	%	=	NA	NA	100	None	PR 54-144	DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Triphenyl phosphate (Surrogate)	114	%	=	NA	NA	100	None	PR 56-129	DF=1
Mustang Creek @ East Ave	E	12/15/09	13:30	EPA 8141A	Triphenyl phosphate (Surrogate)	105	%	=	NA	NA	100	None	PR 56-129	DF=1
Prairie Flower Drain @ Crows Landing Rd	MPM	08/18/09	16:40	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015		None		DF=1
Prairie Flower Drain @ Crows Landing Rd	MPM	08/18/09	16:40	EPA 8141A	Tributylphosphate (Surrogate)	102	%	=	NA	NA	100	None	PR 60-150	DF=1
Prairie Flower Drain @ Crows Landing Rd	MPM	08/18/09	16:40	EPA 8141A	Triphenyl phosphate (Surrogate)	103	%	=	NA	NA	100	None	PR 56-129	DF=1

Table II - 3. ESJWQC environmental sample results for inorganic analysis including physical parameters, nutrients, metals and bacteria.

Dissolved metal analyte names include a "(D)" and total metal analyte names include a "(T)." Samples are sorted by station name, analyte and sample date.

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Ash Slough @ Ave 21	E	1.00	05/19/09	11:30	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Ash Slough @ Ave 21	E	1.00	05/19/09	11:30	EPA 200.8	Boron (T)	27	µg/L	=	0.47	10			None		DF=1
Ash Slough @ Ave 21	E	1.00	05/19/09	11:30	EPA 200.8	Copper (D)	3	µg/L	=	0.06	0.5			None		DF=1
Ash Slough @ Ave 21	E	1.00	05/19/09	11:30	EPA 200.8	Copper (T)	3.8	µg/L	=	0.06	0.5			None		DF=1
Ash Slough @ Ave 21	E	1.00	05/19/09	11:30	EPA 160.1	Dissolved Solids	46	mg/L	=	4	10			None		DF=1
Ash Slough @ Ave 21	E	1.00	05/19/09	11:30	SM 9223 B	E. coli	170	MPN/ 100 mL	=	1	1			None		DF=1
Ash Slough @ Ave 21	E	1.00	05/19/09	11:30	SM 2340 C	Hardness as CaCO3	19	mg/L	=	1.7	5			None		DF=1
Ash Slough @ Ave 21	E	1.00	05/19/09	11:30	EPA 200.8	Nickel (D)	0.38	µg/L	DNQ	0.01	0.5			None		DF=1
Ash Slough @ Ave 21	E	1.00	05/19/09	11:30	EPA 200.8	Nickel (T)	0.25	µg/L	DNQ	0.01	0.5			None		DF=1
Ash Slough @ Ave 21	E	1.00	05/19/09	11:30	EPA 353.2	Nitrate + Nitrite as N	0.025	mg/L	DNQ	0.02	0.05			None		DF=1
Ash Slough @ Ave 21	E	1.00	05/19/09	11:30	EPA 365.2	Phosphate as P	0.11	mg/L	=	0.01	0.01			None		DF=1
Ash Slough @ Ave 21	E	1.00	05/19/09	11:30	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1			None		DF=1
Ash Slough @ Ave 21	E	1.00	05/19/09	11:30	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Ash Slough @ Ave 21	E	1.00	05/19/09	11:30	EPA 415.1	Total Organic Carbon	3.9	mg/L	=	0.1	0.5			None		DF=1
Ash Slough @ Ave 21	E	1.00	05/19/09	11:30	EPA 180.1	Turbidity	3	NTU	=	0.02	0.05			None		DF=1
Ash Slough @ Ave 21	E	1.00	05/19/09	11:30	EPA 200.8	Zinc (D)	1.1	µg/L	=	0.8	1			None		DF=1
Ash Slough @ Ave 21	E	1.00	05/19/09	11:30	EPA 200.8	Zinc (T)	1.6	µg/L	=	0.8	1			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	02/07/09	09:30	EPA 350.2	Ammonia as N	0.23	mg/L	=	0.05	0.1			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	05/19/09	09:10	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	06/16/09	10:20	EPA 350.2	Ammonia as N	0.13	mg/L	=	0.06	0.1			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	08/18/09	10:40	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Cottonwood Creek @ Rd 20	E	1.00	10/20/09	09:30	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	11/17/09	09:40	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	12/15/09	10:00	EPA 350.2	Ammonia as N	0.16	mg/L	=	0.06	0.1			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	02/07/09	09:30	EPA 160.1	Dissolved Solids	280	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Cottonwood Creek @ Rd 20	E	1.00	05/19/09	09:10	EPA 160.1	Dissolved Solids	38	mg/L	=	4	10			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	06/16/09	10:20	EPA 160.1	Dissolved Solids	31	mg/L	=	4	10			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	08/18/09	10:40	EPA 160.1	Dissolved Solids	35	mg/L	=	4	10			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	10/20/09	09:30	EPA 160.1	Dissolved Solids	14	mg/L	=	4	10			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	11/17/09	09:40	EPA 160.1	Dissolved Solids	61	mg/L	=	4	10			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	12/15/09	10:00	EPA 160.1	Dissolved Solids	110	mg/L	=	4	10			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	02/07/09	09:30	SM 9223 B	E. coli	>2400	MPN/ 100 mL		1	1			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	05/19/09	09:10	SM 9223 B	E. coli	130	MPN/ 100 mL	=	1	1			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	06/16/09	10:20	SM 9223 B	E. coli	22	MPN/ 100 mL	=	1	1			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	08/18/09	10:40	SM 9223 B	E. coli	74	MPN/ 100 mL	=	1	1			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	10/20/09	09:30	SM 9223 B	E. coli	67	MPN/ 100 mL	=	1	1			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	11/17/09	09:40	SM 9223 B	E. coli	770	MPN/ 100 mL	=	1	1			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	12/15/09	10:00	SM 9223 B	E. coli	34	MPN/ 100 mL	=	1	1			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	02/07/09	09:30	EPA 353.2	Nitrate + Nitrite as N	3	mg/L	=	0.02	0.05			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	05/19/09	09:10	EPA 353.2	Nitrate + Nitrite as N	0.033	mg/L	DNQ	0.02	0.05			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	06/16/09	10:20	EPA 353.2	Nitrate + Nitrite as N	0.094	mg/L	=	0.02	0.05			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	08/18/09	10:40	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	10/20/09	09:30	EPA 353.2	Nitrate + Nitrite as N	0.19	mg/L	=	0.02	0.05			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	11/17/09	09:40	EPA 353.2	Nitrate + Nitrite as N	0.072	mg/L	=	0.02	0.05			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Cottonwood Creek @ Rd 20	E	1.00	12/15/09	10:00	EPA 353.2	Nitrate + Nitrite as N	6	mg/L	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Cottonwood Creek @ Rd 20	E	1.00	02/07/09	09:30	EPA 351.3	Nitrogen, Total Kjeldahl	2.4	mg/L	=	0.06	0.1			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	02/07/09	09:30	EPA 365.2	OrthoPhosphate as P	0.14	mg/L	=	0.006	0.01			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	02/07/09	09:30	EPA 365.2	Phosphate as P	0.88	mg/L	=	0.01	0.01			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	05/19/09	09:10	EPA 365.2	Phosphate as P	0.11	mg/L	=	0.01	0.01			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	06/16/09	10:20	EPA 365.2	Phosphate as P	0.042	mg/L	=	0.01	0.01			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	08/18/09	10:40	EPA 365.2	Phosphate as P	0.083	mg/L	=	0.01	0.01			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	10/20/09	09:30	EPA 365.2	Phosphate as P	0.064	mg/L	=	0.01	0.01			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	11/17/09	09:40	EPA 365.2	Phosphate as P	0.032	mg/L	=	0.01	0.01			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	12/15/09	10:00	EPA 365.2	Phosphate as P	0.09	mg/L	=	0.01	0.01			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	02/07/09	09:30	EPA 160.2	Suspended Solids	620	mg/L	=	8	10			Analyte analyzed at a secondary dilution.		DF=4
Cottonwood Creek @ Rd 20	E	1.00	05/19/09	09:10	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	06/16/09	10:20	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	08/18/09	10:40	EPA 160.2	Suspended Solids	2.99	mg/L	DNQ	2	3			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	10/20/09	09:30	EPA 160.2	Suspended Solids	17	mg/L	=	2	3			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	11/17/09	09:40	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	12/15/09	10:00	EPA 160.2	Suspended Solids	5	mg/L	=	2	3			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	02/07/09	09:30	EPA 415.1	Total Organic Carbon	5.9	mg/L	=	0.1	0.5			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	05/19/09	09:10	EPA 415.1	Total Organic Carbon	3.5	mg/L	=	0.1	0.5			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	06/16/09	10:20	EPA 415.1	Total Organic Carbon	4.6	mg/L	=	0.1	0.5			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	08/18/09	10:40	EPA 415.1	Total Organic Carbon	4.2	mg/L	=	0.1	0.5			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	10/20/09	09:30	EPA 415.1	Total Organic Carbon	3.1	mg/L	=	0.1	0.5			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	11/17/09	09:40	EPA 415.1	Total Organic Carbon	3.2	mg/L	=	0.1	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Cottonwood Creek @ Rd 20	E	1.00	12/15/09	10:00	EPA 415.1	Total Organic Carbon	4.7	mg/L	=	0.1	0.5			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	02/07/09	09:30	EPA 180.1	Turbidity	680	NTU	=	1	2			Analyte analyzed at a secondary dilution.		DF=50
Cottonwood Creek @ Rd 20	E	1.00	05/19/09	09:10	EPA 180.1	Turbidity	1.6	NTU	=	0.02	0.05			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	06/16/09	10:20	EPA 180.1	Turbidity	2.2	NTU	=	0.02	0.05			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	08/18/09	10:40	EPA 180.1	Turbidity	4.7	NTU	=	0.04	0.1			Analyte analyzed at a secondary dilution.		DF=2
Cottonwood Creek @ Rd 20	E	1.00	10/20/09	09:30	EPA 180.1	Turbidity	8.1	NTU	=	0.02	0.05			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	11/17/09	09:40	EPA 180.1	Turbidity	2.1	NTU	=	0.02	0.05			None		DF=1
Cottonwood Creek @ Rd 20	E	1.00	12/15/09	10:00	EPA 180.1	Turbidity	4.8	NTU	=	0.02	0.05			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 350.2	Ammonia as N	0.12	mg/L	=	0.05	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 350.2	Ammonia as N	0.14	mg/L	=	0.05	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 350.2	Ammonia as N	0.55	mg/L	=	0.05	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 350.2	Ammonia as N	5.5	mg/L	=	0.05	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 350.2	Ammonia as N	50	mg/L	=	0.05	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 350.2	Ammonia as N	0.22	mg/L	=	0.05	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 350.2	Ammonia as N	0.14	mg/L	=	0.06	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	05/19/09	12:50	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	06/16/09	11:50	EPA 350.2	Ammonia as N	0.18	mg/L	=	0.06	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	07/21/09	12:30	EPA 350.2	Ammonia as N	0.16	mg/L	=	0.06	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	08/18/09	14:20	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	09/22/09	13:40	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/20/09	11:30	EPA 350.2	Ammonia as N	0.099	mg/L	DNQ	0.06	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/17/09	11:20	EPA 350.2	Ammonia as N	0.3	mg/L	=	0.06	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 350.2	Ammonia as N	15	mg/L	=	0.06	0.1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 200.8	Arsenic (T)	12	µg/L	=	0.008	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 200.8	Arsenic (T)	14	µg/L	=	0.008	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 200.8	Arsenic (T)	8.4	µg/L	=	0.008	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 200.8	Arsenic (T)	18	µg/L	=	0.008	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 200.8	Arsenic (T)	30	µg/L	=	0.008	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 200.8	Arsenic (T)	14	µg/L	=	0.008	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 200.8	Arsenic (T)	5.7	µg/L	=	0.008	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 200.8	Arsenic (T)	7.6	µg/L	=	0.008	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 200.8	Boron (T)	40	µg/L	=	0.47	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 200.8	Boron (T)	35	µg/L	=	0.47	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 200.8	Boron (T)	37	µg/L	=	0.47	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 200.8	Boron (T)	36	µg/L	=	0.47	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 200.8	Boron (T)	110	µg/L	=	0.47	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 200.8	Boron (T)	20	µg/L	=	0.47	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 200.8	Boron (T)	34	µg/L	=	0.47	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	05/19/09	12:50	EPA 200.8	Boron (T)	58	µg/L	=	0.47	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	06/16/09	11:50	EPA 200.8	Boron (T)	43	µg/L	=	0.47	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	07/21/09	12:30	EPA 200.8	Boron (T)	28	µg/L	=	0.47	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	08/18/09	14:20	EPA 200.8	Boron (T)	8.4	µg/L	DNQ	0.47	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	09/22/09	13:40	EPA 200.8	Boron (T)	9.3	µg/L	DNQ	0.47	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/20/09	11:30	EPA 200.8	Boron (T)	11	µg/L	=	0.47	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/17/09	11:20	EPA 200.8	Boron (T)	95	µg/L	=	0.47	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 200.8	Boron (T)	67	µg/L	=	0.47	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 200.8	Cadmium (D)	0.03	µg/L	DNQ	0.011	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 200.8	Cadmium (T)	0.02	µg/L	DNQ	0.011	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 200.8	Cadmium (T)	0.02	µg/L	DNQ	0.011	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 200.8	Cadmium (T)	0.1	µg/L	=	0.011	0.1			Field duplicate RPD above QC limit.		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 200.8	Cadmium (T)	0.2	µg/L	=	0.011	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 200.8	Cadmium (T)	0.02	µg/L	DNQ	0.011	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 200.8	Cadmium (T)	0.06	µg/L	DNQ	0.011	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 200.8	Copper (D)	1	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 200.8	Copper (D)	1.6	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 200.8	Copper (D)	1.5	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 200.8	Copper (D)	4.3	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 200.8	Copper (D)	4.9	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 200.8	Copper (D)	0.5	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 200.8	Copper (D)	1.3	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	05/19/09	12:50	EPA 200.8	Copper (D)	1.6	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	06/16/09	11:50	EPA 200.8	Copper (D)	1.2	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	07/21/09	12:30	EPA 200.8	Copper (D)	2.1	µg/L	=	0.06	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	08/18/09	14:20	EPA 200.8	Copper (D)	1	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	09/22/09	13:40	EPA 200.8	Copper (D)	0.62	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/20/09	11:30	EPA 200.8	Copper (D)	1.6	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/17/09	11:20	EPA 200.8	Copper (D)	4	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 200.8	Copper (D)	2.5	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 200.8	Copper (T)	4.4	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 200.8	Copper (T)	8.4	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 200.8	Copper (T)	4.8	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 200.8	Copper (T)	17	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 200.8	Copper (T)	51	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 200.8	Copper (T)	1.7	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 200.8	Copper (T)	2.1	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	05/19/09	12:50	EPA 200.8	Copper (T)	5.3	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	06/16/09	11:50	EPA 200.8	Copper (T)	4	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	07/21/09	12:30	EPA 200.8	Copper (T)	6.2	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	08/18/09	14:20	EPA 200.8	Copper (T)	4.2	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	09/22/09	13:40	EPA 200.8	Copper (T)	4.1	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/20/09	11:30	EPA 200.8	Copper (T)	4.3	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/17/09	11:20	EPA 200.8	Copper (T)	6.5	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 200.8	Copper (T)	12	µg/L	=	0.06	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 160.1	Dissolved Solids	400	mg/L	=	4	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 160.1	Dissolved Solids	370	mg/L	=	4	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 160.1	Dissolved Solids	360	mg/L	=	4	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 160.1	Dissolved Solids	470	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	2.00	01/20/09	12:00	EPA 160.1	Dissolved Solids	474	mg/L	=	8	20	470	RPD 1.3	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 160.1	Dissolved Solids	1100	mg/L	=	16	40			Analyte analyzed at a secondary dilution.		DF=4
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 160.1	Dissolved Solids	290	mg/L	=	4	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 160.1	Dissolved Solids	160	mg/L	=	4	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	05/19/09	12:50	EPA 160.1	Dissolved Solids	190	mg/L	=	4	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	06/16/09	11:50	EPA 160.1	Dissolved Solids	150	mg/L	=	4	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	07/21/09	12:30	EPA 160.1	Dissolved Solids	120	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	08/18/09	14:20	EPA 160.1	Dissolved Solids	44	mg/L	=	4	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	09/22/09	13:40	EPA 160.1	Dissolved Solids	50	mg/L	=	4	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/20/09	11:30	EPA 160.1	Dissolved Solids	33	mg/L	=	4	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/17/09	11:20	EPA 160.1	Dissolved Solids	290	mg/L	=	4	10			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 160.1	Dissolved Solids	610	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Deadman Creek (Dutchman) @ Gurr Rd	E	2.00	12/15/09	12:30	EPA 160.1	Dissolved Solids	586	mg/L	=	8	20	610	RPD 3.7	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	SM 9223 B	E. coli	1400	MPN/ 100 mL	=	1	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	SM 9223 B	E. coli	370	MPN/ 100 mL	=	1	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	SM 9223 B	E. coli	1400	MPN/ 100 mL	=	1	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	SM 9223 B	E. coli	1600	MPN/ 100 mL	=	1	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	SM 9223 B	E. coli	20	MPN/ 100 mL	=	1	1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	05/19/09	12:50	SM 9223 B	E. coli	490	MPN/ 100 mL	=	1	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	06/16/09	11:50	SM 9223 B	E. coli	730	MPN/ 100 mL	=	1	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	07/21/09	12:30	SM 9223 B	E. coli	460	MPN/ 100 mL	=	1	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	08/18/09	14:20	SM 9223 B	E. coli	44	MPN/ 100 mL	=	1	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	09/22/09	13:40	SM 9223 B	E. coli	190	MPN/ 100 mL	=	1	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/20/09	11:30	SM 9223 B	E. coli	490	MPN/ 100 mL	=	1	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/17/09	11:20	SM 9223 B	E. coli	2000	MPN/ 100 mL	=	1	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	SM 2340 C	Hardness as CaCO3	160	mg/L	=	3	5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	SM 2340 C	Hardness as CaCO3	140	mg/L	=	3	5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	SM 2340 C	Hardness as CaCO3	170	mg/L	=	8.5	20			Analyte analyzed at a secondary dilution.		DF=5
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	SM 2340 C	Hardness as CaCO3	290	mg/L	=	3.4	10			Analyte analyzed at a secondary dilution.		DF=2
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	SM 2340 C	Hardness as CaCO3	530	mg/L	=	8.5	20			Analyte analyzed at a secondary dilution.		DF=5
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	SM 2340 C	Hardness as CaCO3	200	mg/L	=	1.7	5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	SM 2340 C	Hardness as CaCO3	97	mg/L	=	1.7	5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	05/19/09	12:50	SM 2340 C	Hardness as CaCO3	81	mg/L	=	1.7	5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	06/16/09	11:50	SM 2340 C	Hardness as CaCO3	68	mg/L	=	1.7	5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	07/21/09	12:30	SM 2340 C	Hardness as CaCO3	50	mg/L	=	1.7	5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	08/18/09	14:20	SM 2340 C	Hardness as CaCO3	19	mg/L	=	1.7	5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	09/22/09	13:40	SM 2340 C	Hardness as CaCO3	36	mg/L	=	1.7	5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/20/09	11:30	SM 2340 C	Hardness as CaCO3	32	mg/L	=	1.7	5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/17/09	11:20	SM 2340 C	Hardness as CaCO3	110	mg/L	=	1.7	5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	SM 2340 C	Hardness as CaCO3	330	mg/L	=	8.5	20			Analyte analyzed at a secondary dilution.		DF=5
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 200.8	Lead (D)	0.23	µg/L	DNQ	0.071	0.25			Field duplicate RPD above QC limit.		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 200.8	Lead (D)	0.31	µg/L	=	0.071	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 200.8	Lead (D)	0.11	µg/L	DNQ	0.071	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 200.8	Lead (T)	0.77	µg/L	=	0.071	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 200.8	Lead (T)	1.7	µg/L	=	0.071	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 200.8	Lead (T)	0.72	µg/L	=	0.071	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 200.8	Lead (T)	3.6	µg/L	=	0.071	0.25			Field duplicate RPD above QC limit.		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 200.8	Lead (T)	2.6	µg/L	=	0.071	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 200.8	Lead (T)	0.28	µg/L	=	0.071	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 200.8	Lead (T)	0.21	µg/L	DNQ	0.071	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 200.8	Lead (T)	1	µg/L	=	0.071	0.25			Field duplicate RPD above QC limit.		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 200.8	Molybdenum (T)	5.2	µg/L	=	0.016	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 200.8	Molybdenum (T)	4.8	µg/L	=	0.016	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 200.8	Molybdenum (T)	5.7	µg/L	=	0.016	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 200.8	Molybdenum (T)	4	µg/L	=	0.016	0.25			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 200.8	Molybdenum (T)	4.9	µg/L	=	0.016	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 200.8	Molybdenum (T)	2.7	µg/L	=	0.016	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 200.8	Molybdenum (T)	2.1	µg/L	=	0.016	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 200.8	Molybdenum (T)	3	µg/L	=	0.016	0.25			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 200.8	Nickel (D)	1.2	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 200.8	Nickel (D)	1.2	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 200.8	Nickel (D)	1.9	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 200.8	Nickel (D)	3	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 200.8	Nickel (D)	9.4	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 200.8	Nickel (D)	0.78	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 200.8	Nickel (D)	1.1	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	05/19/09	12:50	EPA 200.8	Nickel (D)	1.6	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	06/16/09	11:50	EPA 200.8	Nickel (D)	1.2	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	07/21/09	12:30	EPA 200.8	Nickel (D)	1.7	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	08/18/09	14:20	EPA 200.8	Nickel (D)	0.84	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	09/22/09	13:40	EPA 200.8	Nickel (D)	0.82	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/20/09	11:30	EPA 200.8	Nickel (D)	1.1	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/17/09	11:20	EPA 200.8	Nickel (D)	3.6	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 200.8	Nickel (D)	3.3	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 200.8	Nickel (T)	4.6	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 200.8	Nickel (T)	7.9	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 200.8	Nickel (T)	4.7	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 200.8	Nickel (T)	8.2	µg/L	=	0.01	0.5			Field duplicate RPD above QC limit.		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 200.8	Nickel (T)	22	µg/L	=	0.01	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 200.8	Nickel (T)	1.6	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 200.8	Nickel (T)	1.6	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	05/19/09	12:50	EPA 200.8	Nickel (T)	4.5	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	06/16/09	11:50	EPA 200.8	Nickel (T)	3.6	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	07/21/09	12:30	EPA 200.8	Nickel (T)	5.5	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	08/18/09	14:20	EPA 200.8	Nickel (T)	3.2	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	09/22/09	13:40	EPA 200.8	Nickel (T)	3.1	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/20/09	11:30	EPA 200.8	Nickel (T)	3.4	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/17/09	11:20	EPA 200.8	Nickel (T)	5.7	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 200.8	Nickel (T)	7	µg/L	=	0.01	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 353.2	Nitrate + Nitrite as N	0.15	mg/L	=	0.02	0.05			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 353.2	Nitrate + Nitrite as N	0.43	mg/L	=	0.02	0.05			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 353.2	Nitrate + Nitrite as N	0.22	mg/L	=	0.02	0.05			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 353.2	Nitrate + Nitrite as N	0.059	mg/L	DNQ	0.04	0.1			Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.		DF=2
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 353.2	Nitrate + Nitrite as N	0.059	mg/L	=	0.02	0.05			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 353.2	Nitrate + Nitrite as N	0.98	mg/L	=	0.02	0.05			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 353.2	Nitrate + Nitrite as N	1.3	mg/L	=	0.02	0.05			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	05/19/09	12:50	EPA 353.2	Nitrate + Nitrite as N	1.3	mg/L	=	0.02	0.05			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	06/16/09	11:50	EPA 353.2	Nitrate + Nitrite as N	2.1	mg/L	=	0.02	0.05			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	07/21/09	12:30	EPA 353.2	Nitrate + Nitrite as N	1.5	mg/L	=	0.02	0.05			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	08/18/09	14:20	EPA 353.2	Nitrate + Nitrite as N	0.068	mg/L	=	0.02	0.05			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	09/22/09	13:40	EPA 353.2	Nitrate + Nitrite as N	0.13	mg/L	=	0.02	0.05			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/20/09	11:30	EPA 353.2	Nitrate + Nitrite as N	0.25	mg/L	=	0.02	0.05			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/17/09	11:20	EPA 353.2	Nitrate + Nitrite as N	1.1	mg/L	=	0.02	0.05			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 353.2	Nitrate + Nitrite as N	0.96	mg/L	=	0.04	0.08			Analyte analyzed at a secondary dilution.		DF=2
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 351.3	Nitrogen, Total Kjeldahl	0.55	mg/L	=	0.06	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 351.3	Nitrogen, Total Kjeldahl	1.6	mg/L	=	0.06	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 351.3	Nitrogen, Total Kjeldahl	2.2	mg/L	=	0.06	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 351.3	Nitrogen, Total Kjeldahl	14	mg/L	=	0.06	0.1			Field duplicate RPD above QC limit.		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 351.3	Nitrogen, Total Kjeldahl	90	mg/L	=	0.3	0.5			Analyte analyzed at a secondary dilution.		DF=5
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 351.3	Nitrogen, Total Kjeldahl	0.86	mg/L	=	0.06	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 351.3	Nitrogen, Total Kjeldahl	1.1	mg/L	=	0.06	0.1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 365.2	OrthoPhosphate as P	0.044	mg/L	=	0.006	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 365.2	OrthoPhosphate as P	0.055	mg/L	=	0.006	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 365.2	OrthoPhosphate as P	0.093	mg/L	=	0.006	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 365.2	OrthoPhosphate as P	1.2	mg/L	=	0.06	0.1			Analyte analyzed at a secondary dilution.		DF=10
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 365.2	OrthoPhosphate as P	6.8	mg/L	=	0.06	0.1			Analyte analyzed at a secondary dilution.		DF=10
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 365.2	OrthoPhosphate as P	0.088	mg/L	=	0.006	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 365.2	OrthoPhosphate as P	0.34	mg/L	=	0.006	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 365.2	Phosphate as P	0.11	mg/L	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 365.2	Phosphate as P	0.29	mg/L	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 365.2	Phosphate as P	0.27	mg/L	=	0.01	0.01			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 365.2	Phosphate as P	2.7	mg/L	=	0.05	0.05			Analyte analyzed at a secondary dilution.		DF=5
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 365.2	Phosphate as P	12	mg/L	=	0.1	0.1			Analyte analyzed at a secondary dilution.		DF=10
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 365.2	Phosphate as P	0.16	mg/L	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 365.2	Phosphate as P	0.45	mg/L	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	05/19/09	12:50	EPA 365.2	Phosphate as P	0.93	mg/L	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	06/16/09	11:50	EPA 365.2	Phosphate as P	0.62	mg/L	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	07/21/09	12:30	EPA 365.2	Phosphate as P	0.44	mg/L	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	08/18/09	14:20	EPA 365.2	Phosphate as P	0.14	mg/L	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	09/22/09	13:40	EPA 365.2	Phosphate as P	0.11	mg/L	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/20/09	11:30	EPA 365.2	Phosphate as P	0.071	mg/L	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/17/09	11:20	EPA 365.2	Phosphate as P	0.79	mg/L	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 365.2	Phosphate as P	3.8	mg/L	=	0.05	0.05			Analyte analyzed at a secondary dilution.		DF=5
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 200.8	Selenium (T)	0.18	µg/L	DNQ	0.06	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 200.8	Selenium (T)	0.21	µg/L	DNQ	0.06	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 200.8	Selenium (T)	0.16	µg/L	DNQ	0.06	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 200.8	Selenium (T)	0.51	µg/L	DNQ	0.06	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 200.8	Selenium (T)	0.85	µg/L	DNQ	0.06	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 200.8	Selenium (T)	0.56	µg/L	DNQ	0.06	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 200.8	Selenium (T)	0.17	µg/L	DNQ	0.06	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	05/19/09	12:50	EPA 200.8	Selenium (T)	0.21	µg/L	DNQ	0.06	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	06/16/09	11:50	EPA 200.8	Selenium (T)	0.14	µg/L	DNQ	0.06	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	07/21/09	12:30	EPA 200.8	Selenium (T)	0.16	µg/L	DNQ	0.06	1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	08/18/09	14:20	EPA 200.8	Selenium (T)	0.08	µg/L	DNQ	0.06	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	09/22/09	13:40	EPA 200.8	Selenium (T)	0.07	µg/L	DNQ	0.06	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/20/09	11:30	EPA 200.8	Selenium (T)	0.08	µg/L	DNQ	0.06	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/17/09	11:20	EPA 200.8	Selenium (T)	0.24	µg/L	DNQ	0.06	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 200.8	Selenium (T)	0.65	µg/L	DNQ	0.06	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 160.2	Suspended Solids	28	mg/L	=	2	3			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 160.2	Suspended Solids	51	mg/L	=	2	3			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 160.2	Suspended Solids	27	mg/L	=	2	3			Field duplicate RPD above QC limit.		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	2.00	12/16/08	12:00	EPA 160.2	Suspended Solids	25	mg/L	=	2	3	27	RPD 7.7	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 160.2	Suspended Solids	86	mg/L	=	4	6			Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.		DF=2
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 160.2	Suspended Solids	140	mg/L	=	20	30			Analyte analyzed at a secondary dilution.		DF=10
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 160.2	Suspended Solids	11	mg/L	=	2	3			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	05/19/09	12:50	EPA 160.2	Suspended Solids	37	mg/L	=	2	3			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	06/16/09	11:50	EPA 160.2	Suspended Solids	22	mg/L	=	2	3			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	07/21/09	12:30	EPA 160.2	Suspended Solids	120	mg/L	=	2	3			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	08/18/09	14:20	EPA 160.2	Suspended Solids	39	mg/L	=	2	3			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	09/22/09	13:40	EPA 160.2	Suspended Solids	42	mg/L	=	1	3			None		DF=0
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/20/09	11:30	EPA 160.2	Suspended Solids	29	mg/L	=	2	3			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/17/09	11:20	EPA 160.2	Suspended Solids	81	mg/L	=	2	3			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 160.2	Suspended Solids	260	mg/L	=	4	6			Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.		DF=2
Deadman Creek (Dutchman) @ Gurr Rd	E	2.00	12/15/09	12:30	EPA 160.2	Suspended Solids	260	mg/L	=	4	6	260	RPD 0	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 415.1	Total Organic Carbon	4.2	mg/L	=	0.1	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 415.1	Total Organic Carbon	4.4	mg/L	=	0.1	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 415.1	Total Organic Carbon	8.2	mg/L	=	0.1	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 415.1	Total Organic Carbon	36	mg/L	=	0.1	0.5			Field duplicate RPD above QC limit.		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 415.1	Total Organic Carbon	160	mg/L	=	0.1	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 415.1	Total Organic Carbon	2.6	mg/L	=	0.1	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 415.1	Total Organic Carbon	3.5	mg/L	=	0.1	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	05/19/09	12:50	EPA 415.1	Total Organic Carbon	3.9	mg/L	=	0.1	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	06/16/09	11:50	EPA 415.1	Total Organic Carbon	3.4	mg/L	=	0.1	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	07/21/09	12:30	EPA 415.1	Total Organic Carbon	3.4	mg/L	=	0.1	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	08/18/09	14:20	EPA 415.1	Total Organic Carbon	2.4	mg/L	=	0.1	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	09/22/09	13:40	EPA 415.1	Total Organic Carbon	2.7	mg/L	=	0.1	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/20/09	11:30	EPA 415.1	Total Organic Carbon	3.1	mg/L	=	0.1	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/17/09	11:20	EPA 415.1	Total Organic Carbon	8	mg/L	=	0.1	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 415.1	Total Organic Carbon	30	mg/L	=	0.1	0.5			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 180.1	Turbidity	35	NTU	=	0.04	0.1			Analyte analyzed at a secondary dilution.		DF=2

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 180.1	Turbidity	49	NTU	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Deadman Creek (Dutchman) @ Gurr Rd	E	2.00	12/16/08	12:00	EPA 180.1	Turbidity	44.35	NTU	=	0.1	0.2	44	RPD 0.7	Analyte analyzed at a secondary dilution.	RPD <25	DF=5
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 180.1	Turbidity	44	NTU	=	0.1	0.2			Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.		DF=5
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 180.1	Turbidity	61	NTU	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Deadman Creek (Dutchman) @ Gurr Rd	E	2.00	01/20/09	12:00	EPA 180.1	Turbidity	60.75	NTU	=	0.1	0.2	61	RPD 0.2	Analyte analyzed at a secondary dilution.	RPD <25	DF=5
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 180.1	Turbidity	250	NTU	=	0.5	1			Analyte analyzed at a secondary dilution.		DF=25
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 180.1	Turbidity	13	NTU	=	0.02	0.05			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 180.1	Turbidity	7.2	NTU	=	0.02	0.05			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	05/19/09	12:50	EPA 180.1	Turbidity	29	NTU	=	0.04	0.1			Analyte analyzed at a secondary dilution.		DF=2
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	06/16/09	11:50	EPA 180.1	Turbidity	26	NTU	=	0.04	0.1			Analyte analyzed at a secondary dilution.		DF=2
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	07/21/09	12:30	EPA 180.1	Turbidity	65	NTU	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	08/18/09	14:20	EPA 180.1	Turbidity	28	NTU	=	0.04	0.1			Analyte analyzed at a secondary dilution.		DF=2

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	09/22/09	13:40	EPA 180.1	Turbidity	33	NTU	=	0.04	0.1			Analyte analyzed at a secondary dilution.		DF=2
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/20/09	11:30	EPA 180.1	Turbidity	33	NTU	=	0.04	0.1			Analyte analyzed at a secondary dilution.		DF=2
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/17/09	11:20	EPA 180.1	Turbidity	45	NTU	=	0.2	0.5			Analyte analyzed at a secondary dilution.		DF=10
Deadman Creek (Dutchman) @ Gurr Rd	E	2.00	12/15/09	12:30	EPA 180.1	Turbidity	98.8	NTU	=	0.2	0.5	98	RPD 1.2	Analyte analyzed at a secondary dilution.	RPD <25	DF=10
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 180.1	Turbidity	98	NTU	=	0.2	0.5			Analyte analyzed at a secondary dilution.		DF=10
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 200.8	Zinc (D)	0.98	µg/L	DNQ	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 200.8	Zinc (D)	5	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 200.8	Zinc (D)	19	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 200.8	Zinc (D)	2	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	05/19/09	12:50	EPA 200.8	Zinc (D)	8.7	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	06/16/09	11:50	EPA 200.8	Zinc (D)	7.3	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	07/21/09	12:30	EPA 200.8	Zinc (D)	2.4	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	08/18/09	14:20	EPA 200.8	Zinc (D)	1.1	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	09/22/09	13:40	EPA 200.8	Zinc (D)	2.3	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/20/09	11:30	EPA 200.8	Zinc (D)	1.3	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/17/09	11:20	EPA 200.8	Zinc (D)	7.6	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 200.8	Zinc (D)	4.3	µg/L	=	0.8	1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/21/08	10:50	EPA 200.8	Zinc (T)	7	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/11/08	10:40	EPA 200.8	Zinc (T)	15	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/16/08	12:00	EPA 200.8	Zinc (T)	8	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	01/20/09	12:00	EPA 200.8	Zinc (T)	67	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	02/07/09	11:00	EPA 200.8	Zinc (T)	160	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	03/17/09	10:30	EPA 200.8	Zinc (T)	2.8	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	04/21/09	12:00	EPA 200.8	Zinc (T)	3.8	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	05/19/09	12:50	EPA 200.8	Zinc (T)	17	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	06/16/09	11:50	EPA 200.8	Zinc (T)	14	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	07/21/09	12:30	EPA 200.8	Zinc (T)	12	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	08/18/09	14:20	EPA 200.8	Zinc (T)	7.5	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	09/22/09	13:40	EPA 200.8	Zinc (T)	10	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	10/20/09	11:30	EPA 200.8	Zinc (T)	7.2	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	11/17/09	11:20	EPA 200.8	Zinc (T)	12	µg/L	=	0.8	1			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	E	1.00	12/15/09	12:30	EPA 200.8	Zinc (T)	30	µg/L	=	0.8	1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	10/21/08	08:50	EPA 350.2	Ammonia as N	0.077	mg/L	DNQ	0.05	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	11/11/08	09:30	EPA 350.2	Ammonia as N	0.088	mg/L	DNQ	0.05	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/16/08	09:20	EPA 350.2	Ammonia as N	0.13	mg/L	=	0.05	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	01/20/09	09:10	EPA 350.2	Ammonia as N	0.066	mg/L	DNQ	0.05	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	02/07/09	11:10	EPA 350.2	Ammonia as N	0.21	mg/L	=	0.05	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	03/17/09	10:50	EPA 350.2	Ammonia as N	0.055	mg/L	DNQ	0.05	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	04/21/09	11:20	EPA 350.2	Ammonia as N	0.099	mg/L	DNQ	0.06	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	05/19/09	11:30	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	06/16/09	10:50	EPA 350.2	Ammonia as N	0.22	mg/L	=	0.06	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	07/21/09	10:50	EPA 350.2	Ammonia as N	0.59	mg/L	=	0.06	0.1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Dry Creek @ Wellsford Rd	E	1.00	08/18/09	12:30	EPA 350.2	Ammonia as N	0.077	mg/L	DNQ	0.06	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	09/22/09	11:00	EPA 350.2	Ammonia as N	0.21	mg/L	=	0.06	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	10/20/09	11:10	EPA 350.2	Ammonia as N	0.58	mg/L	=	0.06	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	11/17/09	12:20	EPA 350.2	Ammonia as N	0.088	mg/L	DNQ	0.06	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/15/09	09:50	EPA 350.2	Ammonia as N	0.23	mg/L	=	0.06	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	10/21/08	08:50	EPA 160.1	Dissolved Solids	96	mg/L	=	4	10			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	11/11/08	09:30	EPA 160.1	Dissolved Solids	35	mg/L	=	4	10			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/16/08	09:20	EPA 160.1	Dissolved Solids	330	mg/L	=	4	10			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	01/20/09	09:10	EPA 160.1	Dissolved Solids	410	mg/L	=	4	10			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	02/07/09	11:10	EPA 160.1	Dissolved Solids	310	mg/L	=	4	10			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	03/17/09	10:50	EPA 160.1	Dissolved Solids	120	mg/L	=	4	10			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	04/21/09	11:20	EPA 160.1	Dissolved Solids	110	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Dry Creek @ Wellsford Rd	E	1.00	05/19/09	11:30	EPA 160.1	Dissolved Solids	120	mg/L	=	4	10			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	06/16/09	10:50	EPA 160.1	Dissolved Solids	80	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Dry Creek @ Wellsford Rd	E	1.00	07/21/09	10:50	EPA 160.1	Dissolved Solids	93	mg/L	=	4	10			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	08/18/09	12:30	EPA 160.1	Dissolved Solids	78	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Dry Creek @ Wellsford Rd	E	1.00	09/22/09	11:00	EPA 160.1	Dissolved Solids	84	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Dry Creek @ Wellsford Rd	E	1.00	10/20/09	11:10	EPA 160.1	Dissolved Solids	140	mg/L	=	4	10			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	11/17/09	12:20	EPA 160.1	Dissolved Solids	120	mg/L	=	4	10			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/15/09	09:50	EPA 160.1	Dissolved Solids	110	mg/L	=	4	10			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	10/21/08	08:50	SM 9223 B	E. coli	550	MPN/ 100 mL	=	1	1			None		DF=1

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Dry Creek @ Wellsford Rd	E	1.00	11/11/08	09:30	SM 9223 B	E. coli	190	MPN/ 100 mL	=	1	1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/16/08	09:20	SM 9223 B	E. coli	61	MPN/ 100 mL	=	1	1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	01/20/09	09:10	SM 9223 B	E. coli	67	MPN/ 100 mL	=	1	1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	02/07/09	11:10	SM 9223 B	E. coli	57	MPN/ 100 mL	=	1	1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	03/17/09	10:50	SM 9223 B	E. coli	250	MPN/ 100 mL	=	1	1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	04/21/09	11:20	SM 9223 B	E. coli	93	MPN/ 100 mL	=	1	1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	05/19/09	11:30	SM 9223 B	E. coli	260	MPN/ 100 mL	=	1	1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	06/16/09	10:50	SM 9223 B	E. coli	1600	MPN/ 100 mL	=	1	1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	07/21/09	10:50	SM 9223 B	E. coli	270	MPN/ 100 mL	=	1	1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	08/18/09	12:30	SM 9223 B	E. coli	410	MPN/ 100 mL	=	1	1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	09/22/09	11:00	SM 9223 B	E. coli	170	MPN/ 100 mL	=	1	1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	10/20/09	11:10	SM 9223 B	E. coli	490	MPN/ 100 mL	=	1	1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	11/17/09	12:20	SM 9223 B	E. coli	730	MPN/ 100 mL	=	1	1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/15/09	09:50	SM 9223 B	E. coli	820	MPN/ 100 mL	=	1	1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/15/09	09:50	SM 2340 C	Hardness as CaCO3	84	mg/L	=	8.5	20			Analyte analyzed at a secondary dilution.		DF=5
Dry Creek @ Wellsford Rd	E	1.00	12/15/09	09:50	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/15/09	09:50	EPA 200.8	Lead (T)	0.13	µg/L	DNQ	0.071	0.25			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	10/21/08	08:50	EPA 353.2	Nitrate + Nitrite as N	0.22	mg/L	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	11/11/08	09:30	EPA 353.2	Nitrate + Nitrite as N	0.41	mg/L	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/16/08	09:20	EPA 353.2	Nitrate + Nitrite as N	4.2	mg/L	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	01/20/09	09:10	EPA 353.2	Nitrate + Nitrite as N	6.1	mg/L	=	0.1	0.25			Analyte analyzed at a secondary dilution.		DF=5
Dry Creek @ Wellsford Rd	E	1.00	02/07/09	11:10	EPA 353.2	Nitrate + Nitrite as N	3.6	mg/L	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	03/17/09	10:50	EPA 353.2	Nitrate + Nitrite as N	0.39	mg/L	=	0.02	0.05			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Dry Creek @ Wellsford Rd	E	1.00	04/21/09	11:20	EPA 353.2	Nitrate + Nitrite as N	0.55	mg/L	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	05/19/09	11:30	EPA 353.2	Nitrate + Nitrite as N	0.39	mg/L	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	06/16/09	10:50	EPA 353.2	Nitrate + Nitrite as N	0.33	mg/L	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	07/21/09	10:50	EPA 353.2	Nitrate + Nitrite as N	0.21	mg/L	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	08/18/09	12:30	EPA 353.2	Nitrate + Nitrite as N	0.12	mg/L	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	09/22/09	11:00	EPA 353.2	Nitrate + Nitrite as N	0.19	mg/L	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	10/20/09	11:10	EPA 353.2	Nitrate + Nitrite as N	0.54	mg/L	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	11/17/09	12:20	EPA 353.2	Nitrate + Nitrite as N	0.9	mg/L	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/15/09	09:50	EPA 353.2	Nitrate + Nitrite as N	0.038	mg/L	DNQ	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	10/21/08	08:50	EPA 351.3	Nitrogen, Total Kjeldahl	0.71	mg/L	=	0.06	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	11/11/08	09:30	EPA 351.3	Nitrogen, Total Kjeldahl	0.26	mg/L	=	0.06	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/16/08	09:20	EPA 351.3	Nitrogen, Total Kjeldahl	0.57	mg/L	=	0.06	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	01/20/09	09:10	EPA 351.3	Nitrogen, Total Kjeldahl	0.48	mg/L	=	0.06	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	02/07/09	11:10	EPA 351.3	Nitrogen, Total Kjeldahl	5.6	mg/L	=	0.06	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	03/17/09	10:50	EPA 351.3	Nitrogen, Total Kjeldahl	0.81	mg/L	=	0.06	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	04/21/09	11:20	EPA 351.3	Nitrogen, Total Kjeldahl	0.96	mg/L	=	0.06	0.1			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	10/21/08	08:50	EPA 365.2	OrthoPhosphate as P	0.3	mg/L	=	0.006	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	11/11/08	09:30	EPA 365.2	OrthoPhosphate as P	0.1	mg/L	=	0.006	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/16/08	09:20	EPA 365.2	OrthoPhosphate as P	0.12	mg/L	=	0.006	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	01/20/09	09:10	EPA 365.2	OrthoPhosphate as P	0.006	mg/L	DNQ	0.006	0.01			A holding time violation has occurred.		DF=1
Dry Creek @ Wellsford Rd	E	1.00	02/07/09	11:10	EPA 365.2	OrthoPhosphate as P	0.025	mg/L	=	0.006	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	03/17/09	10:50	EPA 365.2	OrthoPhosphate as P	0.069	mg/L	=	0.006	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	04/21/09	11:20	EPA 365.2	OrthoPhosphate as P	0.59	mg/L	=	0.006	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	10/21/08	08:50	EPA 365.2	Phosphate as P	0.37	mg/L	=	0.01	0.01			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Dry Creek @ Wellsford Rd	E	1.00	11/11/08	09:30	EPA 365.2	Phosphate as P	0.12	mg/L	=	0.01	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/16/08	09:20	EPA 365.2	Phosphate as P	0.28	mg/L	=	0.01	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	01/20/09	09:10	EPA 365.2	Phosphate as P	0.16	mg/L	=	0.01	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	02/07/09	11:10	EPA 365.2	Phosphate as P	0.54	mg/L	=	0.01	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	03/17/09	10:50	EPA 365.2	Phosphate as P	0.16	mg/L	=	0.01	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	04/21/09	11:20	EPA 365.2	Phosphate as P	0.71	mg/L	=	0.01	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	05/19/09	11:30	EPA 365.2	Phosphate as P	0.92	mg/L	=	0.01	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	06/16/09	10:50	EPA 365.2	Phosphate as P	0.68	mg/L	=	0.01	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	07/21/09	10:50	EPA 365.2	Phosphate as P	0.84	mg/L	=	0.01	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	08/18/09	12:30	EPA 365.2	Phosphate as P	0.72	mg/L	=	0.01	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	09/22/09	11:00	EPA 365.2	Phosphate as P	0.57	mg/L	=	0.01	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	10/20/09	11:10	EPA 365.2	Phosphate as P	1.1	mg/L	=	0.01	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	11/17/09	12:20	EPA 365.2	Phosphate as P	0.4	mg/L	=	0.01	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/15/09	09:50	EPA 365.2	Phosphate as P	0.46	mg/L	=	0.01	0.01			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	10/21/08	08:50	EPA 160.2	Suspended Solids	12	mg/L	=	2	3			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	11/11/08	09:30	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/16/08	09:20	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	01/20/09	09:10	EPA 160.2	Suspended Solids	5	mg/L	=	2	3			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	02/07/09	11:10	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	03/17/09	10:50	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	04/21/09	11:20	EPA 160.2	Suspended Solids	2.99	mg/L	DNQ	2	3			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	05/19/09	11:30	EPA 160.2	Suspended Solids	3	mg/L	=	2	3			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	06/16/09	10:50	EPA 160.2	Suspended Solids	8	mg/L	=	2	3			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	07/21/09	10:50	EPA 160.2	Suspended Solids	16	mg/L	=	1	3			None		DF=0
Dry Creek @ Wellsford Rd	E	1.00	08/18/09	12:30	EPA 160.2	Suspended Solids	10	mg/L	=	2	3			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Dry Creek @ Wellsford Rd	E	1.00	09/22/09	11:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	10/20/09	11:10	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	11/17/09	12:20	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/15/09	09:50	EPA 160.2	Suspended Solids	10	mg/L	=	2	3			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	10/21/08	08:50	EPA 415.1	Total Organic Carbon	5.4	mg/L	=	0.1	0.5			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	11/11/08	09:30	EPA 415.1	Total Organic Carbon	2.9	mg/L	=	0.1	0.5			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/16/08	09:20	EPA 415.1	Total Organic Carbon	4.2	mg/L	=	0.1	0.5			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	01/20/09	09:10	EPA 415.1	Total Organic Carbon	4.6	mg/L	=	0.1	0.5			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	02/07/09	11:10	EPA 415.1	Total Organic Carbon	6.9	mg/L	=	0.1	0.5			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	03/17/09	10:50	EPA 415.1	Total Organic Carbon	8.3	mg/L	=	0.1	0.5			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	04/21/09	11:20	EPA 415.1	Total Organic Carbon	7.5	mg/L	=	0.1	0.5			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	05/19/09	11:30	EPA 415.1	Total Organic Carbon	8.4	mg/L	=	0.1	0.5			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	06/16/09	10:50	EPA 415.1	Total Organic Carbon	6	mg/L	=	0.1	0.5			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	07/21/09	10:50	EPA 415.1	Total Organic Carbon	6.9	mg/L	=	0.1	0.5			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	08/18/09	12:30	EPA 415.1	Total Organic Carbon	6.5	mg/L	=	0.1	0.5			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	09/22/09	11:00	EPA 415.1	Total Organic Carbon	5.6	mg/L	=	0.1	0.5			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	10/20/09	11:10	EPA 415.1	Total Organic Carbon	13	mg/L	=	0.1	0.5			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	11/17/09	12:20	EPA 415.1	Total Organic Carbon	3.7	mg/L	=	0.1	0.5			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/15/09	09:50	EPA 415.1	Total Organic Carbon	7.2	mg/L	=	0.1	0.5			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	10/21/08	08:50	EPA 180.1	Turbidity	7.1	NTU	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	11/11/08	09:30	EPA 180.1	Turbidity	4.1	NTU	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/16/08	09:20	EPA 180.1	Turbidity	1.9	NTU	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	01/20/09	09:10	EPA 180.1	Turbidity	2.6	NTU	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	02/07/09	11:10	EPA 180.1	Turbidity	1.8	NTU	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	03/17/09	10:50	EPA 180.1	Turbidity	9.4	NTU	=	0.02	0.05			None		DF=1

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Dry Creek @ Wellsford Rd	E	1.00	04/21/09	11:20	EPA 180.1	Turbidity	17	NTU	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	05/19/09	11:30	EPA 180.1	Turbidity	15	NTU	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	06/16/09	10:50	EPA 180.1	Turbidity	18	NTU	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	07/21/09	10:50	EPA 180.1	Turbidity	15	NTU	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	08/18/09	12:30	EPA 180.1	Turbidity	21	NTU	=	0.04	0.1			Analyte analyzed at a secondary dilution.		DF=2
Dry Creek @ Wellsford Rd	E	1.00	09/22/09	11:00	EPA 180.1	Turbidity	11	NTU	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	10/20/09	11:10	EPA 180.1	Turbidity	5.7	NTU	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	11/17/09	12:20	EPA 180.1	Turbidity	3.2	NTU	=	0.02	0.05			None		DF=1
Dry Creek @ Wellsford Rd	E	1.00	12/15/09	09:50	EPA 180.1	Turbidity	5.2	NTU	=	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 350.2	Ammonia as N	0.38	mg/L	=	0.05	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 350.2	Ammonia as N	0.055	mg/L	DNQ	0.05	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 350.2	Ammonia as N	0.43	mg/L	=	0.05	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 350.2	Ammonia as N	0.077	mg/L	DNQ	0.05	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 350.2	Ammonia as N	0.066	mg/L	DNQ	0.06	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	05/19/09	13:40	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	06/16/09	12:30	EPA 350.2	Ammonia as N	0.32	mg/L	=	0.06	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	07/21/09	13:20	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	08/18/09	15:40	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	09/22/09	14:50	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	10/20/09	12:30	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	11/17/09	12:10	EPA 350.2	Ammonia as N	0.32	mg/L	=	0.06	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/15/09	14:40	EPA 350.2	Ammonia as N	0.2	mg/L	=	0.06	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 200.8	Arsenic (T)	3.8	µg/L	=	0.008	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 200.8	Arsenic (T)	3.7	µg/L	=	0.008	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 200.8	Arsenic (T)	6.8	µg/L	=	0.008	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 200.8	Arsenic (T)	3.4	µg/L	=	0.008	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 200.8	Arsenic (T)	4.9	µg/L	=	0.008	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 200.8	Boron (T)	37	µg/L	=	0.47	10			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 200.8	Boron (T)	39	µg/L	=	0.47	10			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 200.8	Boron (T)	130	µg/L	=	0.47	10			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 200.8	Boron (T)	15	µg/L	=	0.47	10			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 200.8	Boron (T)	48	µg/L	=	0.47	10			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	05/19/09	13:40	EPA 200.8	Boron (T)	47	µg/L	=	0.47	10			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 200.8	Cadmium (D)	0.07	µg/L	DNQ	0.011	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 200.8	Cadmium (D)	0.03	µg/L	DNQ	0.011	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 200.8	Cadmium (T)	0.08	µg/L	DNQ	0.011	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 200.8	Cadmium (T)	0.02	µg/L	DNQ	0.011	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 200.8	Cadmium (T)	0.03	µg/L	DNQ	0.011	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 200.8	Copper (D)	0.3	µg/L	DNQ	0.06	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 200.8	Copper (D)	0.2	µg/L	DNQ	0.06	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 200.8	Copper (D)	7.6	µg/L	=	0.06	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 200.8	Copper (D)	4.6	µg/L	=	0.06	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 200.8	Copper (D)	2.6	µg/L	=	0.06	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	05/19/09	13:40	EPA 200.8	Copper (D)	7.3	µg/L	=	0.06	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 200.8	Copper (T)	1.2	µg/L	=	0.06	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 200.8	Copper (T)	0.4	µg/L	DNQ	0.06	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 200.8	Copper (T)	11	µg/L	=	0.06	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 200.8	Copper (T)	6.3	µg/L	=	0.06	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 200.8	Copper (T)	3.3	µg/L	=	0.06	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	05/19/09	13:40	EPA 200.8	Copper (T)	15	µg/L	=	0.06	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 160.1	Dissolved Solids	350	mg/L	=	4	10			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 160.1	Dissolved Solids	450	mg/L	=	4	10			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 160.1	Dissolved Solids	150	mg/L	=	4	10			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 160.1	Dissolved Solids	190	mg/L	=	4	10			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	05/19/09	13:40	EPA 160.1	Dissolved Solids	180	mg/L	=	4	10			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	06/16/09	12:30	EPA 160.1	Dissolved Solids	120	mg/L	=	4	10			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	07/21/09	13:20	EPA 160.1	Dissolved Solids	49	mg/L	=	4	10			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	08/18/09	15:40	EPA 160.1	Dissolved Solids	34	mg/L	=	4	10			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	09/22/09	14:50	EPA 160.1	Dissolved Solids	20	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Duck Slough @ Gurr Rd	E	1.00	10/20/09	12:30	EPA 160.1	Dissolved Solids	27	mg/L	=	4	10			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	11/17/09	12:10	EPA 160.1	Dissolved Solids	110	mg/L	=	4	10			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/15/09	14:40	EPA 160.1	Dissolved Solids	120	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	SM 9223 B	E. coli	28	MPN/ 100 mL	=	1	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	SM 9223 B	E. coli	8.4	MPN/ 100 mL	=	1	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	SM 9223 B	E. coli	200	MPN/ 100 mL	=	1	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	SM 9223 B	E. coli	14	MPN/ 100 mL	=	1	1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	SM 9223 B	E. coli	91	MPN/ 100 mL	=	1	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	05/19/09	13:40	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	06/16/09	12:30	SM 9223 B	E. coli	100	MPN/ 100 mL	=	1	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	07/21/09	13:20	SM 9223 B	E. coli	76	MPN/ 100 mL	=	1	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	08/18/09	15:40	SM 9223 B	E. coli	34	MPN/ 100 mL	=	1	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	09/22/09	14:50	SM 9223 B	E. coli	58	MPN/ 100 mL	=	1	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	10/20/09	12:30	SM 9223 B	E. coli	220	MPN/ 100 mL	=	1	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	11/17/09	12:10	SM 9223 B	E. coli	340	MPN/ 100 mL	=	1	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/15/09	14:40	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	SM 2340 C	Hardness as CaCO3	170	mg/L	=	1.7	5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	SM 2340 C	Hardness as CaCO3	170	mg/L	=	3.4	10			Analyte analyzed at a secondary dilution.		DF=2
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	SM 2340 C	Hardness as CaCO3	160	mg/L	=	8.5	20			Analyte analyzed at a secondary dilution.		DF=5
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	SM 2340 C	Hardness as CaCO3	99	mg/L	=	1.7	5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	SM 2340 C	Hardness as CaCO3	91	mg/L	=	1.7	5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	05/19/09	13:40	SM 2340 C	Hardness as CaCO3	64	mg/L	=	1.7	5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 200.8	Lead (D)	0.15	µg/L	DNQ	0.071	0.25			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 200.8	Lead (D)	0.08	µg/L	DNQ	0.071	0.25			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 200.8	Lead (D)	0.08	µg/L	DNQ	0.071	0.25			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 200.8	Lead (T)	0.26	µg/L	=	0.071	0.25			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 200.8	Lead (T)	0.71	µg/L	=	0.071	0.25			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 200.8	Lead (T)	0.7	µg/L	=	0.071	0.25			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 200.8	Lead (T)	0.23	µg/L	DNQ	0.071	0.25			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 200.8	Molybdenum (T)	2.1	µg/L	=	0.016	0.25			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 200.8	Molybdenum (T)	2.3	µg/L	=	0.016	0.25			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 200.8	Molybdenum (T)	6.8	µg/L	=	0.016	0.25			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 200.8	Molybdenum (T)	1.3	µg/L	=	0.016	0.25			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 200.8	Molybdenum (T)	2.8	µg/L	=	0.016	0.25			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 200.8	Nickel (D)	0.4	µg/L	DNQ	0.01	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 200.8	Nickel (D)	0.2	µg/L	DNQ	0.01	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 200.8	Nickel (D)	4.2	µg/L	=	0.01	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 200.8	Nickel (D)	3	µg/L	=	0.01	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 200.8	Nickel (D)	1.5	µg/L	=	0.01	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	05/19/09	13:40	EPA 200.8	Nickel (D)	3.6	µg/L	=	0.01	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 200.8	Nickel (T)	1.1	µg/L	=	0.01	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 200.8	Nickel (T)	0.2	µg/L	DNQ	0.01	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 200.8	Nickel (T)	7	µg/L	=	0.01	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 200.8	Nickel (T)	4.5	µg/L	=	0.01	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 200.8	Nickel (T)	1.9	µg/L	=	0.01	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	05/19/09	13:40	EPA 200.8	Nickel (T)	11	µg/L	=	0.01	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 353.2	Nitrate + Nitrite as N	2.1	mg/L	=	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 353.2	Nitrate + Nitrite as N	1.9	mg/L	=	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 353.2	Nitrate + Nitrite as N	13	mg/L	=	0.1	0.25			Analyte analyzed at a secondary dilution.		DF=5
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 353.2	Nitrate + Nitrite as N	0.17	mg/L	=	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 353.2	Nitrate + Nitrite as N	1.6	mg/L	=	0.02	0.05			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Duck Slough @ Gurr Rd	E	1.00	05/19/09	13:40	EPA 353.2	Nitrate + Nitrite as N	2.2	mg/L	=	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	06/16/09	12:30	EPA 353.2	Nitrate + Nitrite as N	1.3	mg/L	=	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	07/21/09	13:20	EPA 353.2	Nitrate + Nitrite as N	0.18	mg/L	=	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	08/18/09	15:40	EPA 353.2	Nitrate + Nitrite as N	0.073	mg/L	=	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	09/22/09	14:50	EPA 353.2	Nitrate + Nitrite as N	0.047	mg/L	DNQ	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	10/20/09	12:30	EPA 353.2	Nitrate + Nitrite as N	0.58	mg/L	=	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	11/17/09	12:10	EPA 353.2	Nitrate + Nitrite as N	0.22	mg/L	=	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/15/09	14:40	EPA 353.2	Nitrate + Nitrite as N	0.62	mg/L	=	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 351.3	Nitrogen, Total Kjeldahl	0.15	mg/L	=	0.06	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 351.3	Nitrogen, Total Kjeldahl	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 351.3	Nitrogen, Total Kjeldahl	1.4	mg/L	=	0.06	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 351.3	Nitrogen, Total Kjeldahl	0.65	mg/L	=	0.06	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 351.3	Nitrogen, Total Kjeldahl	0.77	mg/L	=	0.06	0.1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 365.2	OrthoPhosphate as P	0.13	mg/L	=	0.006	0.01			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 365.2	OrthoPhosphate as P	3.2	mg/L	=	0.03	0.05			Analyte analyzed at a secondary dilution.		DF=5
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 365.2	OrthoPhosphate as P	0.053	mg/L	=	0.006	0.01			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 365.2	OrthoPhosphate as P	0.56	mg/L	=	0.006	0.01			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 365.2	Phosphate as P	0.051	mg/L	=	0.01	0.01			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 365.2	Phosphate as P	0.035	mg/L	=	0.01	0.01			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 365.2	Phosphate as P	2.9	mg/L	=	0.05	0.05			Analyte analyzed at a secondary dilution.		DF=5
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 365.2	Phosphate as P	0.14	mg/L	=	0.01	0.01			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 365.2	Phosphate as P	0.65	mg/L	=	0.01	0.01			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Duck Slough @ Gurr Rd	E	1.00	05/19/09	13:40	EPA 365.2	Phosphate as P	0.63	mg/L	=	0.01	0.01			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	06/16/09	12:30	EPA 365.2	Phosphate as P	0.11	mg/L	=	0.01	0.01			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	07/21/09	13:20	EPA 365.2	Phosphate as P	0.13	mg/L	=	0.01	0.01			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	08/18/09	15:40	EPA 365.2	Phosphate as P	0.097	mg/L	=	0.01	0.01			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	09/22/09	14:50	EPA 365.2	Phosphate as P	0.1	mg/L	=	0.01	0.01			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	10/20/09	12:30	EPA 365.2	Phosphate as P	0.046	mg/L	=	0.01	0.01			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	11/17/09	12:10	EPA 365.2	Phosphate as P	0.21	mg/L	=	0.01	0.01			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/15/09	14:40	EPA 365.2	Phosphate as P	0.26	mg/L	=	0.01	0.01			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 200.8	Selenium (T)	0.24	µg/L	DNQ	0.06	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 200.8	Selenium (T)	0.21	µg/L	DNQ	0.06	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 200.8	Selenium (T)	0.42	µg/L	DNQ	0.06	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 200.8	Selenium (T)	0.19	µg/L	DNQ	0.06	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 200.8	Selenium (T)	0.19	µg/L	DNQ	0.06	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	05/19/09	13:40	EPA 200.8	Selenium (T)	0.31	µg/L	DNQ	0.06	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 160.2	Suspended Solids	34	mg/L	=	2	3			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	05/19/09	13:40	EPA 160.2	Suspended Solids	84	mg/L	=	2	3			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	06/16/09	12:30	EPA 160.2	Suspended Solids	38	mg/L	=	2	3			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	07/21/09	13:20	EPA 160.2	Suspended Solids	39	mg/L	=	1	3			None		DF=0
Duck Slough @ Gurr Rd	E	1.00	08/18/09	15:40	EPA 160.2	Suspended Solids	33	mg/L	=	2	3			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	09/22/09	14:50	EPA 160.2	Suspended Solids	36	mg/L	=	2	3			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	10/20/09	12:30	EPA 160.2	Suspended Solids	39	mg/L	=	2	3			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Duck Slough @ Gurr Rd	E	1.00	11/17/09	12:10	EPA 160.2	Suspended Solids	220	mg/L	=	2	3			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/15/09	14:40	EPA 160.2	Suspended Solids	110	mg/L	=	2	3			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 415.1	Total Organic Carbon	0.9	mg/L	=	0.1	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 415.1	Total Organic Carbon	0.93	mg/L	=	0.1	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 415.1	Total Organic Carbon	7.5	mg/L	=	0.1	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 415.1	Total Organic Carbon	7.1	mg/L	=	0.1	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 415.1	Total Organic Carbon	3.6	mg/L	=	0.1	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	05/19/09	13:40	EPA 415.1	Total Organic Carbon	5.3	mg/L	=	0.1	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	06/16/09	12:30	EPA 415.1	Total Organic Carbon	3	mg/L	=	0.1	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	07/21/09	13:20	EPA 415.1	Total Organic Carbon	2.3	mg/L	=	0.1	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	08/18/09	15:40	EPA 415.1	Total Organic Carbon	2.4	mg/L	=	0.1	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	09/22/09	14:50	EPA 415.1	Total Organic Carbon	2.7	mg/L	=	0.1	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	10/20/09	12:30	EPA 415.1	Total Organic Carbon	3	mg/L	=	0.1	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	11/17/09	12:10	EPA 415.1	Total Organic Carbon	4.6	mg/L	=	0.1	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/15/09	14:40	EPA 415.1	Total Organic Carbon	9.3	mg/L	=	0.1	0.5			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 180.1	Turbidity	0.97	NTU	=	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 180.1	Turbidity	0.95	NTU	=	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 180.1	Turbidity	24	NTU	=	0.04	0.1			Analyte analyzed at a secondary dilution.		DF=2
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 180.1	Turbidity	16	NTU	=	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 180.1	Turbidity	5.3	NTU	=	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	05/19/09	13:40	EPA 180.1	Turbidity	69	NTU	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Duck Slough @ Gurr Rd	E	1.00	06/16/09	12:30	EPA 180.1	Turbidity	16	NTU	=	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	07/21/09	13:20	EPA 180.1	Turbidity	17	NTU	=	0.02	0.05			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Duck Slough @ Gurr Rd	E	1.00	08/18/09	15:40	EPA 180.1	Turbidity	23	NTU	=	0.04	0.1			Analyte analyzed at a secondary dilution.		DF=2
Duck Slough @ Gurr Rd	E	1.00	09/22/09	14:50	EPA 180.1	Turbidity	12	NTU	=	0.02	0.05			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	10/20/09	12:30	EPA 180.1	Turbidity	25	NTU	=	0.04	0.1			Analyte analyzed at a secondary dilution.		DF=2
Duck Slough @ Gurr Rd	E	1.00	11/17/09	12:10	EPA 180.1	Turbidity	100	NTU	=	0.2	0.5			Analyte analyzed at a secondary dilution.		DF=10
Duck Slough @ Gurr Rd	E	1.00	12/15/09	14:40	EPA 180.1	Turbidity	85	NTU	=	0.2	0.5			Analyte analyzed at a secondary dilution.		DF=10
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 200.8	Zinc (D)	22	µg/L	=	0.8	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 200.8	Zinc (D)	1.1	µg/L	=	0.8	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 200.8	Zinc (D)	5.2	µg/L	=	0.8	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	05/19/09	13:40	EPA 200.8	Zinc (D)	5.5	µg/L	=	0.8	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	12/16/08	14:00	EPA 200.8	Zinc (T)	3	µg/L	=	0.8	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	01/20/09	13:50	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	02/07/09	12:40	EPA 200.8	Zinc (T)	28	µg/L	=	0.8	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	03/17/09	11:20	EPA 200.8	Zinc (T)	3.1	µg/L	=	0.8	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	04/21/09	13:20	EPA 200.8	Zinc (T)	7.2	µg/L	=	0.8	1			None		DF=1
Duck Slough @ Gurr Rd	E	1.00	05/19/09	13:40	EPA 200.8	Zinc (T)	20	µg/L	=	0.8	1			None		DF=1
Duck Slough @ Hwy 99	MPM	1.00	06/16/09	09:00	EPA 200.8	Copper (D)	0.61	µg/L	=	0.06	0.5			None		DF=1
Duck Slough @ Hwy 99	MPM	1.00	07/21/09	09:50	EPA 200.8	Copper (D)	0.7	µg/L	=	0.06	0.5			None		DF=1
Duck Slough @ Hwy 99	MPM	1.00	08/18/09	09:00	EPA 200.8	Copper (D)	0.61	µg/L	=	0.06	0.5			None		DF=1
Duck Slough @ Hwy 99	MPM	1.00	09/22/09	09:00	EPA 200.8	Copper (D)	0.25	µg/L	DNQ	0.06	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Duck Slough @ Hwy 99	MPM	1.00	06/16/09	09:00	EPA 200.8	Copper (T)	2.3	µg/L	=	0.06	0.5			None		DF=1
Duck Slough @ Hwy 99	MPM	1.00	07/21/09	09:50	EPA 200.8	Copper (T)	2.5	µg/L	=	0.06	0.5			None		DF=1
Duck Slough @ Hwy 99	MPM	1.00	08/18/09	09:00	EPA 200.8	Copper (T)	2.4	µg/L	=	0.06	0.5			None		DF=1
Duck Slough @ Hwy 99	MPM	1.00	09/22/09	09:00	EPA 200.8	Copper (T)	2.7	µg/L	=	0.06	0.5			None		DF=1
Duck Slough @ Hwy 99	MPM	1.00	06/16/09	09:00	SM 2340 C	Hardness as CaCO3	22	mg/L	=	1.7	5			None		DF=1
Duck Slough @ Hwy 99	MPM	1.00	07/21/09	09:50	SM 2340 C	Hardness as CaCO3	16	mg/L	=	1.7	5			None		DF=1
Duck Slough @ Hwy 99	MPM	1.00	08/18/09	09:00	SM 2340 C	Hardness as CaCO3	13	mg/L	=	1.7	5			None		DF=1
Duck Slough @ Hwy 99	MPM	1.00	09/22/09	09:00	SM 2340 C	Hardness as CaCO3	10	mg/L	=	1.7	5			None		DF=1
Highline Canal @ Hwy 99	E	1.00	02/07/09	14:20	EPA 350.2	Ammonia as N	0.27	mg/L	=	0.05	0.1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	04/21/09	15:50	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	05/19/09	15:40	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	06/16/09	14:20	EPA 350.2	Ammonia as N	0.088	mg/L	DNQ	0.06	0.1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	07/21/09	08:30	EPA 350.2	Ammonia as N	0.12	mg/L	=	0.06	0.1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	08/18/09	18:00	EPA 350.2	Ammonia as N	0.11	mg/L	=	0.06	0.1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	09/22/09	16:10	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	10/20/09	15:10	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	12/15/09	15:50	EPA 350.2	Ammonia as N	0.44	mg/L	=	0.06	0.1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	02/07/09	14:20	EPA 160.1	Dissolved Solids	280	mg/L	=	4	10			None		DF=1
Highline Canal @ Hwy 99	E	1.00	04/21/09	15:50	EPA 160.1	Dissolved Solids	40	mg/L	=	4	10			None		DF=1
Highline Canal @ Hwy 99	E	1.00	05/19/09	15:40	EPA 160.1	Dissolved Solids	31	mg/L	=	4	10			None		DF=1
Highline Canal @ Hwy 99	E	1.00	06/16/09	14:20	EPA 160.1	Dissolved Solids	37	mg/L	=	4	10			None		DF=1
Highline Canal @ Hwy 99	E	1.00	07/21/09	08:30	EPA 160.1	Dissolved Solids	22	mg/L	=	4	10			None		DF=1
Highline Canal @ Hwy 99	E	1.00	08/18/09	18:00	EPA 160.1	Dissolved Solids	28	mg/L	=	4	10			None		DF=1
Highline Canal @ Hwy 99	E	2.00	08/18/09	18:00	EPA 160.1	Dissolved Solids	21	mg/L	=	4	10	28	RPD 29	RPD exceeds laboratory control limit.	RPD <25	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Highline Canal @ Hwy 99	E	1.00	09/22/09	16:10	EPA 160.1	Dissolved Solids	35	mg/L	=	4	10			None		DF=1
Highline Canal @ Hwy 99	E	1.00	10/20/09	15:10	EPA 160.1	Dissolved Solids	12	mg/L	=	4	10			None		DF=1
Highline Canal @ Hwy 99	E	1.00	12/15/09	15:50	EPA 160.1	Dissolved Solids	120	mg/L	=	4	10			None		DF=1
Highline Canal @ Hwy 99	E	1.00	02/07/09	14:20	SM 9223 B	E. coli	8.4	MPN/ 100 mL	=	1	1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	04/21/09	15:50	SM 9223 B	E. coli	41	MPN/ 100 mL	=	1	1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	05/19/09	15:40	SM 9223 B	E. coli	340	MPN/ 100 mL	=	1	1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	06/16/09	14:20	SM 9223 B	E. coli	46	MPN/ 100 mL	=	1	1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	07/21/09	08:30	SM 9223 B	E. coli	100	MPN/ 100 mL	=	1	1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	08/18/09	18:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	09/22/09	16:10	SM 9223 B	E. coli	3.1	MPN/ 100 mL	=	1	1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	10/20/09	15:10	SM 9223 B	E. coli	1	MPN/ 100 mL	=	1	1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	12/15/09	15:50	SM 9223 B	E. coli	190	MPN/ 100 mL	=	1	1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	02/07/09	14:20	EPA 353.2	Nitrate + Nitrite as N	4.3	mg/L	=	0.02	0.05			None		DF=1
Highline Canal @ Hwy 99	E	1.00	04/21/09	15:50	EPA 353.2	Nitrate + Nitrite as N	0.27	mg/L	=	0.02	0.05			None		DF=1
Highline Canal @ Hwy 99	E	1.00	05/19/09	15:40	EPA 353.2	Nitrate + Nitrite as N	0.035	mg/L	DNQ	0.02	0.05			None		DF=1
Highline Canal @ Hwy 99	E	1.00	06/16/09	14:20	EPA 353.2	Nitrate + Nitrite as N	0.099	mg/L	=	0.02	0.05			None		DF=1
Highline Canal @ Hwy 99	E	1.00	07/21/09	08:30	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05			None		DF=1
Highline Canal @ Hwy 99	E	1.00	08/18/09	18:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05			None		DF=1
Highline Canal @ Hwy 99	E	1.00	09/22/09	16:10	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05			None		DF=1
Highline Canal @ Hwy 99	E	1.00	10/20/09	15:10	EPA 353.2	Nitrate + Nitrite as N	0.13	mg/L	=	0.02	0.05			None		DF=1
Highline Canal @ Hwy 99	E	1.00	12/15/09	15:50	EPA 353.2	Nitrate + Nitrite as N	1.4	mg/L	=	0.02	0.05			None		DF=1
Highline Canal @ Hwy 99	E	1.00	02/07/09	14:20	EPA 351.3	Nitrogen, Total Kjeldahl	3.8	mg/L	=	0.06	0.1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	04/21/09	15:50	EPA 351.3	Nitrogen, Total Kjeldahl	0.16	mg/L	=	0.06	0.1			None		DF=1
Highline Canal @ Hwy 99	E	1.00	02/07/09	14:20	EPA 365.2	OrthoPhosphate as P	0.1	mg/L	=	0.006	0.01			None		DF=1
Highline Canal @ Hwy 99	E	1.00	04/21/09	15:50	EPA 365.2	OrthoPhosphate as P	0.01	mg/L	=	0.006	0.01			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Highline Canal @ Hwy 99	E	1.00	02/07/09	14:20	EPA 365.2	Phosphate as P	0.33	mg/L	=	0.01	0.01			None		DF=1
Highline Canal @ Hwy 99	E	1.00	04/21/09	15:50	EPA 365.2	Phosphate as P	0.04	mg/L	=	0.01	0.01			None		DF=1
Highline Canal @ Hwy 99	E	1.00	05/19/09	15:40	EPA 365.2	Phosphate as P	0.08	mg/L	=	0.01	0.01			None		DF=1
Highline Canal @ Hwy 99	E	1.00	06/16/09	14:20	EPA 365.2	Phosphate as P	0.036	mg/L	=	0.01	0.01			None		DF=1
Highline Canal @ Hwy 99	E	1.00	07/21/09	08:30	EPA 365.2	Phosphate as P	0.03	mg/L	=	0.01	0.01			None		DF=1
Highline Canal @ Hwy 99	E	1.00	08/18/09	18:00	EPA 365.2	Phosphate as P	0.04	mg/L	=	0.01	0.01			None		DF=1
Highline Canal @ Hwy 99	E	1.00	09/22/09	16:10	EPA 365.2	Phosphate as P	0.04	mg/L	=	0.01	0.01			None		DF=1
Highline Canal @ Hwy 99	E	1.00	10/20/09	15:10	EPA 365.2	Phosphate as P	0.042	mg/L	=	0.01	0.01			None		DF=1
Highline Canal @ Hwy 99	E	1.00	12/15/09	15:50	EPA 365.2	Phosphate as P	0.16	mg/L	=	0.01	0.01			None		DF=1
Highline Canal @ Hwy 99	E	1.00	02/07/09	14:20	EPA 160.2	Suspended Solids	4	mg/L	=	2	3			None		DF=1
Highline Canal @ Hwy 99	E	1.00	04/21/09	15:50	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Highline Canal @ Hwy 99	E	1.00	05/19/09	15:40	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Highline Canal @ Hwy 99	E	1.00	06/16/09	14:20	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Highline Canal @ Hwy 99	E	1.00	07/21/09	08:30	EPA 160.2	Suspended Solids	2.5	mg/L	DNQ	1	3			None		DF=0
Highline Canal @ Hwy 99	E	1.00	08/18/09	18:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Highline Canal @ Hwy 99	E	1.00	09/22/09	16:10	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Highline Canal @ Hwy 99	E	1.00	10/20/09	15:10	EPA 160.2	Suspended Solids	2.99	mg/L	DNQ	2	3			None		DF=1
Highline Canal @ Hwy 99	E	1.00	12/15/09	15:50	EPA 160.2	Suspended Solids	10	mg/L	=	2	3			None		DF=1
Highline Canal @ Hwy 99	E	1.00	02/07/09	14:20	EPA 415.1	Total Organic Carbon	18	mg/L	=	0.1	0.5			None		DF=1
Highline Canal @ Hwy 99	E	1.00	04/21/09	15:50	EPA 415.1	Total Organic Carbon	2.2	mg/L	=	0.1	0.5			None		DF=1
Highline Canal @ Hwy 99	E	1.00	05/19/09	15:40	EPA 415.1	Total Organic Carbon	1.8	mg/L	=	0.1	0.5			None		DF=1
Highline Canal @ Hwy 99	E	1.00	06/16/09	14:20	EPA 415.1	Total Organic Carbon	1.6	mg/L	=	0.1	0.5			None		DF=1
Highline Canal @ Hwy 99	E	1.00	07/21/09	08:30	EPA 415.1	Total Organic Carbon	1.6	mg/L	=	0.1	0.5			None		DF=1
Highline Canal @ Hwy 99	E	1.00	08/18/09	18:00	EPA 415.1	Total Organic Carbon	1.9	mg/L	=	0.1	0.5			None		DF=1
Highline Canal @ Hwy 99	E	1.00	09/22/09	16:10	EPA 415.1	Total Organic Carbon	1.8	mg/L	=	0.1	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Highline Canal @ Hwy 99	E	1.00	10/20/09	15:10	EPA 415.1	Total Organic Carbon	1.9	mg/L	=	0.1	0.5			None		DF=1
Highline Canal @ Hwy 99	E	1.00	12/15/09	15:50	EPA 415.1	Total Organic Carbon	6.8	mg/L	=	0.1	0.5			None		DF=1
Highline Canal @ Hwy 99	E	1.00	02/07/09	14:20	EPA 180.1	Turbidity	7.6	NTU	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Highline Canal @ Hwy 99	E	1.00	04/21/09	15:50	EPA 180.1	Turbidity	5.3	NTU	=	0.02	0.05			None		DF=1
Highline Canal @ Hwy 99	E	1.00	05/19/09	15:40	EPA 180.1	Turbidity	5.9	NTU	=	0.02	0.05			None		DF=1
Highline Canal @ Hwy 99	E	1.00	06/16/09	14:20	EPA 180.1	Turbidity	6.8	NTU	=	0.02	0.05			None		DF=1
Highline Canal @ Hwy 99	E	1.00	07/21/09	08:30	EPA 180.1	Turbidity	5.4	NTU	=	0.02	0.05			None		DF=1
Highline Canal @ Hwy 99	E	1.00	08/18/09	18:00	EPA 180.1	Turbidity	4.1	NTU	=	0.02	0.05			None		DF=1
Highline Canal @ Hwy 99	E	1.00	09/22/09	16:10	EPA 180.1	Turbidity	3.9	NTU	=	0.02	0.05			None		DF=1
Highline Canal @ Hwy 99	E	1.00	10/20/09	15:10	EPA 180.1	Turbidity	7.2	NTU	=	0.02	0.05			None		DF=1
Highline Canal @ Hwy 99	E	1.00	12/15/09	15:50	EPA 180.1	Turbidity	9.2	NTU	=	0.02	0.05			None		DF=1
Highline Canal @ Lombardy Rd	MPM	1.00	08/18/09	18:20	EPA 200.8	Copper (D)	0.58	µg/L	=	0.06	0.5			None		DF=1
Highline Canal @ Lombardy Rd	MPM	1.00	08/18/09	18:20	EPA 200.8	Copper (T)	1.4	µg/L	=	0.06	0.5			None		DF=1
Highline Canal @ Lombardy Rd	MPM	1.00	08/18/09	18:20	SM 2340 C	Hardness as CaCO3	16	mg/L	=	1.7	5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 350.2	Ammonia as N	0.54	mg/L	=	0.06	0.1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	05/19/09	14:40	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	06/16/09	13:30	EPA 350.2	Ammonia as N	0.18	mg/L	=	0.06	0.1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	07/21/09	15:30	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	08/18/09	16:30	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	09/22/09	17:00	EPA 350.2	Ammonia as N	0.066	mg/L	DNQ	0.06	0.1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	10/20/09	13:50	EPA 350.2	Ammonia as N	0.077	mg/L	DNQ	0.06	0.1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 200.8	Arsenic (T)	2.2	µg/L	=	0.008	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 200.8	Boron (T)	29	µg/L	=	0.47	10			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	05/19/09	14:40	EPA 200.8	Boron (T)	78	µg/L	=	0.47	10			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Howard Lateral @ Hwy 140	E	1.00	06/16/09	13:30	EPA 200.8	Boron (T)	21	µg/L	=	0.47	10			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	07/21/09	15:30	EPA 200.8	Boron (T)	23	µg/L	=	0.47	10			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	08/18/09	16:30	EPA 200.8	Boron (T)	11	µg/L	=	0.47	10			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	09/22/09	17:00	EPA 200.8	Boron (T)	7.2	µg/L	DNQ	0.47	10			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	10/20/09	13:50	EPA 200.8	Boron (T)	7.2	µg/L	DNQ	0.47	10			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 200.8	Cadmium (T)	0.02	µg/L	DNQ	0.011	0.1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 200.8	Copper (D)	4	µg/L	=	0.06	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	05/19/09	14:40	EPA 200.8	Copper (D)	2.3	µg/L	=	0.06	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	06/16/09	13:30	EPA 200.8	Copper (D)	2	µg/L	=	0.06	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	07/21/09	15:30	EPA 200.8	Copper (D)	3.2	µg/L	=	0.06	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	08/18/09	16:30	EPA 200.8	Copper (D)	2	µg/L	=	0.06	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	09/22/09	17:00	EPA 200.8	Copper (D)	2.2	µg/L	=	0.06	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	10/20/09	13:50	EPA 200.8	Copper (D)	3.3	µg/L	=	0.06	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 200.8	Copper (T)	5.8	µg/L	=	0.06	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	05/19/09	14:40	EPA 200.8	Copper (T)	2.4	µg/L	=	0.06	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	06/16/09	13:30	EPA 200.8	Copper (T)	3.2	µg/L	=	0.06	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	07/21/09	15:30	EPA 200.8	Copper (T)	4.3	µg/L	=	0.06	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	08/18/09	16:30	EPA 200.8	Copper (T)	3.2	µg/L	=	0.06	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	09/22/09	17:00	EPA 200.8	Copper (T)	4	µg/L	=	0.06	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	10/20/09	13:50	EPA 200.8	Copper (T)	4.2	µg/L	=	0.06	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 160.1	Dissolved Solids	150	mg/L	=	4	10			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	05/19/09	14:40	EPA 160.1	Dissolved Solids	530	mg/L	=	4	10			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	06/16/09	13:30	EPA 160.1	Dissolved Solids	110	mg/L	=	4	10			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	07/21/09	15:30	EPA 160.1	Dissolved Solids	160	mg/L	=	4	10			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Howard Lateral @ Hwy 140	E	1.00	08/18/09	16:30	EPA 160.1	Dissolved Solids	52	mg/L	=	4	10			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	09/22/09	17:00	EPA 160.1	Dissolved Solids	30	mg/L	=	4	10			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	10/20/09	13:50	EPA 160.1	Dissolved Solids	26	mg/L	=	4	10			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	SM 9223 B	E. coli	170	MPN/ 100 mL	=	1	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	05/19/09	14:40	SM 9223 B	E. coli	7.5	MPN/ 100 mL	=	1	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	06/16/09	13:30	SM 9223 B	E. coli	55	MPN/ 100 mL	=	1	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	07/21/09	15:30	SM 9223 B	E. coli	91	MPN/ 100 mL	=	1	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	08/18/09	16:30	SM 9223 B	E. coli	24	MPN/ 100 mL	=	1	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	09/22/09	17:00	SM 9223 B	E. coli	330	MPN/ 100 mL	=	1	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	10/20/09	13:50	SM 9223 B	E. coli	240	MPN/ 100 mL	=	1	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	SM 2340 C	Hardness as CaCO3	79	mg/L	=	1.7	5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	05/19/09	14:40	SM 2340 C	Hardness as CaCO3	230	mg/L	=	1.7	5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	06/16/09	13:30	SM 2340 C	Hardness as CaCO3	62	mg/L	=	1.7	5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	07/21/09	15:30	SM 2340 C	Hardness as CaCO3	71	mg/L	=	1.7	5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	08/18/09	16:30	SM 2340 C	Hardness as CaCO3	25	mg/L	=	1.7	5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	09/22/09	17:00	SM 2340 C	Hardness as CaCO3	24	mg/L	=	1.7	5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	10/20/09	13:50	SM 2340 C	Hardness as CaCO3	13	mg/L	=	1.7	5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 200.8	Lead (D)	0.073	µg/L	DNQ	0.071	0.25			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 200.8	Lead (T)	0.3	µg/L	=	0.071	0.25			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 200.8	Molybdenum (T)	1	µg/L	=	0.016	0.25			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 200.8	Nickel (D)	0.63	µg/L	=	0.01	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	05/19/09	14:40	EPA 200.8	Nickel (D)	0.58	µg/L	=	0.01	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	06/16/09	13:30	EPA 200.8	Nickel (D)	0.49	µg/L	DNQ	0.01	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	07/21/09	15:30	EPA 200.8	Nickel (D)	0.33	µg/L	DNQ	0.01	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	08/18/09	16:30	EPA 200.8	Nickel (D)	0.42	µg/L	DNQ	0.01	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Howard Lateral @ Hwy 140	E	1.00	09/22/09	17:00	EPA 200.8	Nickel (D)	0.51	µg/L	=	0.01	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	10/20/09	13:50	EPA 200.8	Nickel (D)	0.65	µg/L	=	0.01	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 200.8	Nickel (T)	0.54	µg/L	=	0.01	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	05/19/09	14:40	EPA 200.8	Nickel (T)	0.7	µg/L	=	0.01	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	06/16/09	13:30	EPA 200.8	Nickel (T)	0.46	µg/L	DNQ	0.01	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	07/21/09	15:30	EPA 200.8	Nickel (T)	0.4	µg/L	DNQ	0.01	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	08/18/09	16:30	EPA 200.8	Nickel (T)	0.38	µg/L	DNQ	0.01	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	09/22/09	17:00	EPA 200.8	Nickel (T)	0.4	µg/L	DNQ	0.01	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	10/20/09	13:50	EPA 200.8	Nickel (T)	0.46	µg/L	DNQ	0.01	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 353.2	Nitrate + Nitrite as N	3.6	mg/L	=	0.02	0.05			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	05/19/09	14:40	EPA 353.2	Nitrate + Nitrite as N	13	mg/L	=	0.1	0.25			Analyte analyzed at a secondary dilution.		DF=5
Howard Lateral @ Hwy 140	E	1.00	06/16/09	13:30	EPA 353.2	Nitrate + Nitrite as N	2.9	mg/L	=	0.02	0.05			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	07/21/09	15:30	EPA 353.2	Nitrate + Nitrite as N	3.6	mg/L	=	0.02	0.05			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	08/18/09	16:30	EPA 353.2	Nitrate + Nitrite as N	0.42	mg/L	=	0.02	0.05			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	09/22/09	17:00	EPA 353.2	Nitrate + Nitrite as N	0.2	mg/L	=	0.02	0.05			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	10/20/09	13:50	EPA 353.2	Nitrate + Nitrite as N	0.43	mg/L	=	0.02	0.05			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 351.3	Nitrogen, Total Kjeldahl	5.4	mg/L	=	0.06	0.1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 365.2	OrthoPhosphate as P	0.085	mg/L	=	0.006	0.01			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 365.2	Phosphate as P	0.69	mg/L	=	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	05/19/09	14:40	EPA 365.2	Phosphate as P	0.09	mg/L	=	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	06/16/09	13:30	EPA 365.2	Phosphate as P	0.055	mg/L	=	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	07/21/09	15:30	EPA 365.2	Phosphate as P	0.073	mg/L	=	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	08/18/09	16:30	EPA 365.2	Phosphate as P	0.044	mg/L	=	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	09/22/09	17:00	EPA 365.2	Phosphate as P	0.052	mg/L	=	0.01	0.01			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Howard Lateral @ Hwy 140	E	1.00	10/20/09	13:50	EPA 365.2	Phosphate as P	0.055	mg/L	=	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 200.8	Selenium (T)	0.16	µg/L	DNQ	0.06	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	05/19/09	14:40	EPA 200.8	Selenium (T)	1.6	µg/L	=	0.06	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	06/16/09	13:30	EPA 200.8	Selenium (T)	0.3	µg/L	DNQ	0.06	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	07/21/09	15:30	EPA 200.8	Selenium (T)	0.32	µg/L	DNQ	0.06	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	08/18/09	16:30	EPA 200.8	Selenium (T)	0.11	µg/L	DNQ	0.06	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	09/22/09	17:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	10/20/09	13:50	EPA 200.8	Selenium (T)	0.06	µg/L	DNQ	0.06	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 160.2	Suspended Solids	31	mg/L	=	2	3			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	05/19/09	14:40	EPA 160.2	Suspended Solids	7	mg/L	=	2	3			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	06/16/09	13:30	EPA 160.2	Suspended Solids	8	mg/L	=	2	3			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	07/21/09	15:30	EPA 160.2	Suspended Solids	17	mg/L	=	1	3			None		DF=0
Howard Lateral @ Hwy 140	E	1.00	08/18/09	16:30	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	09/22/09	17:00	EPA 160.2	Suspended Solids	2	mg/L	DNQ	1	3			None		DF=0
Howard Lateral @ Hwy 140	E	1.00	10/20/09	13:50	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 415.1	Total Organic Carbon	4.1	mg/L	=	0.1	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	05/19/09	14:40	EPA 415.1	Total Organic Carbon	2.3	mg/L	=	0.1	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	06/16/09	13:30	EPA 415.1	Total Organic Carbon	2.1	mg/L	=	0.1	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	07/21/09	15:30	EPA 415.1	Total Organic Carbon	5	mg/L	=	0.1	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	08/18/09	16:30	EPA 415.1	Total Organic Carbon	2.3	mg/L	=	0.1	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	09/22/09	17:00	EPA 415.1	Total Organic Carbon	2.5	mg/L	=	0.1	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	10/20/09	13:50	EPA 415.1	Total Organic Carbon	3	mg/L	=	0.1	0.5			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 180.1	Turbidity	17	NTU	=	0.02	0.05			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	05/19/09	14:40	EPA 180.1	Turbidity	2.5	NTU	=	0.02	0.05			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	06/16/09	13:30	EPA 180.1	Turbidity	3.9	NTU	=	0.02	0.05			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Howard Lateral @ Hwy 140	E	1.00	07/21/09	15:30	EPA 180.1	Turbidity	4	NTU	=	0.02	0.05			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	08/18/09	16:30	EPA 180.1	Turbidity	5.3	NTU	=	0.02	0.05			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	09/22/09	17:00	EPA 180.1	Turbidity	6.7	NTU	=	0.02	0.05			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	10/20/09	13:50	EPA 180.1	Turbidity	5.9	NTU	=	0.02	0.05			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 200.8	Zinc (D)	1.7	µg/L	=	0.8	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	05/19/09	14:40	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	06/16/09	13:30	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	07/21/09	15:30	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	08/18/09	16:30	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	09/22/09	17:00	EPA 200.8	Zinc (D)	1.6	µg/L	=	0.8	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	10/20/09	13:50	EPA 200.8	Zinc (D)	2.3	µg/L	=	0.8	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	04/21/09	14:30	EPA 200.8	Zinc (T)	4.7	µg/L	=	0.8	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	05/19/09	14:40	EPA 200.8	Zinc (T)	3.1	µg/L	=	0.8	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	06/16/09	13:30	EPA 200.8	Zinc (T)	2.9	µg/L	=	0.8	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	07/21/09	15:30	EPA 200.8	Zinc (T)	3.3	µg/L	=	0.8	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	08/18/09	16:30	EPA 200.8	Zinc (T)	1.7	µg/L	=	0.8	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	09/22/09	17:00	EPA 200.8	Zinc (T)	2.4	µg/L	=	0.8	1			None		DF=1
Howard Lateral @ Hwy 140	E	1.00	10/20/09	13:50	EPA 200.8	Zinc (T)	2.8	µg/L	=	0.8	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 350.2	Ammonia as N	0.088	mg/L	DNQ	0.05	0.1			Field duplicate RPD above QC limit.		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 350.2	Ammonia as N	0.65	mg/L	=	0.05	0.1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	05/19/09	13:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	06/16/09	12:20	EPA 350.2	Ammonia as N	0.15	mg/L	=	0.06	0.1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	07/21/09	13:30	EPA 350.2	Ammonia as N	0.11	mg/L	=	0.06	0.1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	1.00	08/18/09	15:10	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	09/22/09	12:20	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/20/09	12:40	EPA 350.2	Ammonia as N	0.077	mg/L	DNQ	0.06	0.1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 200.8	Arsenic (T)	1.9	µg/L	=	0.008	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 200.8	Arsenic (T)	4.1	µg/L	=	0.008	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 200.8	Arsenic (T)	1.2	µg/L	=	0.008	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 200.8	Boron (T)	67	µg/L	=	0.47	10			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 200.8	Boron (T)	63	µg/L	=	0.47	10			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 200.8	Boron (T)	16	µg/L	=	0.47	10			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	05/19/09	13:00	EPA 200.8	Boron (T)	43	µg/L	=	0.47	10			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	06/16/09	12:20	EPA 200.8	Boron (T)	49	µg/L	=	0.47	10			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	07/21/09	13:30	EPA 200.8	Boron (T)	50	µg/L	=	0.47	10			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	08/18/09	15:10	EPA 200.8	Boron (T)	86	µg/L	=	0.47	10			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	09/22/09	12:20	EPA 200.8	Boron (T)	22	µg/L	=	0.47	10			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/20/09	12:40	EPA 200.8	Boron (T)	5.4	µg/L	DNQ	0.47	10			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 200.8	Cadmium (T)	0.02	µg/L	DNQ	0.011	0.1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 200.8	Copper (D)	1.7	µg/L	=	0.06	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 200.8	Copper (D)	3.1	µg/L	=	0.06	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 200.8	Copper (D)	0.69	µg/L	=	0.06	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	05/19/09	13:00	EPA 200.8	Copper (D)	0.57	µg/L	=	0.06	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	1.00	06/16/09	12:20	EPA 200.8	Copper (D)	0.57	µg/L	=	0.06	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	07/21/09	13:30	EPA 200.8	Copper (D)	0.36	µg/L	DNQ	0.06	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	08/18/09	15:10	EPA 200.8	Copper (D)	0.49	µg/L	DNQ	0.06	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	09/22/09	12:20	EPA 200.8	Copper (D)	0.1	µg/L	DNQ	0.06	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/20/09	12:40	EPA 200.8	Copper (D)	0.7	µg/L	=	0.06	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 200.8	Copper (T)	2.1	µg/L	=	0.06	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 200.8	Copper (T)	3.3	µg/L	=	0.06	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 200.8	Copper (T)	1	µg/L	=	0.06	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	05/19/09	13:00	EPA 200.8	Copper (T)	0.87	µg/L	=	0.06	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	06/16/09	12:20	EPA 200.8	Copper (T)	1.1	µg/L	=	0.06	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	07/21/09	13:30	EPA 200.8	Copper (T)	0.56	µg/L	=	0.06	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	08/18/09	15:10	EPA 200.8	Copper (T)	0.71	µg/L	=	0.06	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	09/22/09	12:20	EPA 200.8	Copper (T)	1.7	µg/L	=	0.06	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/20/09	12:40	EPA 200.8	Copper (T)	1	µg/L	=	0.06	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 160.1	Dissolved Solids	300	mg/L	=	4	10			None		DF=1
Lateral 2 1/2 near Keys Rd	E	2.00	10/21/08	10:40	EPA 160.1	Dissolved Solids	305	mg/L	=	4	10	300	RPD 0.7	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	E	2.00	11/11/08	11:10	EPA 160.1	Dissolved Solids	292	mg/L	=	4	10	290	RPD 1	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 160.1	Dissolved Solids	290	mg/L	=	4	10			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 160.1	Dissolved Solids	60	mg/L	=	4	10			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	05/19/09	13:00	EPA 160.1	Dissolved Solids	240	mg/L	=	4	10			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	06/16/09	12:20	EPA 160.1	Dissolved Solids	250	mg/L	=	4	10			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	07/21/09	13:30	EPA 160.1	Dissolved Solids	270	mg/L	=	4	10			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	08/18/09	15:10	EPA 160.1	Dissolved Solids	420	mg/L	=	4	10			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	09/22/09	12:20	EPA 160.1	Dissolved Solids	120	mg/L	=	4	10			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/20/09	12:40	EPA 160.1	Dissolved Solids	16	mg/L	=	4	10			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	SM 9223 B	E. coli	280	MPN/ 100 mL	=	1	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	SM 9223 B	E. coli	370	MPN/ 100 mL	=	1	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	SM 9223 B	E. coli	6.3	MPN/ 100 mL	=	1	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	05/19/09	13:00	SM 9223 B	E. coli	19	MPN/ 100 mL	=	1	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	06/16/09	12:20	SM 9223 B	E. coli	27	MPN/ 100 mL	=	1	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	07/21/09	13:30	SM 9223 B	E. coli	23	MPN/ 100 mL	=	1	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	08/18/09	15:10	SM 9223 B	E. coli	34	MPN/ 100 mL	=	1	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	09/22/09	12:20	SM 9223 B	E. coli	170	MPN/ 100 mL	=	1	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/20/09	12:40	SM 9223 B	E. coli	9.6	MPN/ 100 mL	=	1	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	SM 2340 C	Hardness as CaCO3	110	mg/L	=	3	5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	SM 2340 C	Hardness as CaCO3	100	mg/L	=	3	5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	SM 2340 C	Hardness as CaCO3	38	mg/L	=	1.7	5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	05/19/09	13:00	SM 2340 C	Hardness as CaCO3	120	mg/L	=	1.7	5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	06/16/09	12:20	SM 2340 C	Hardness as CaCO3	140	mg/L	=	1.7	5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	07/21/09	13:30	SM 2340 C	Hardness as CaCO3	140	mg/L	=	1.7	5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	08/18/09	15:10	SM 2340 C	Hardness as CaCO3	210	mg/L	=	1.7	5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	09/22/09	12:20	SM 2340 C	Hardness as CaCO3	61	mg/L	=	1.7	5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/20/09	12:40	SM 2340 C	Hardness as CaCO3	14	mg/L	=	1.7	5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 200.8	Lead (T)	0.1	µg/L	DNQ	0.071	0.25			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 200.8	Molybdenum (T)	1.4	µg/L	=	0.016	0.25			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 200.8	Molybdenum (T)	2.5	µg/L	=	0.016	0.25			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 200.8	Molybdenum (T)	0.44	µg/L	=	0.016	0.25			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 200.8	Nickel (D)	0.6	µg/L	=	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 200.8	Nickel (D)	0.7	µg/L	=	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 200.8	Nickel (D)	0.73	µg/L	=	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	05/19/09	13:00	EPA 200.8	Nickel (D)	0.55	µg/L	=	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	06/16/09	12:20	EPA 200.8	Nickel (D)	0.56	µg/L	=	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	07/21/09	13:30	EPA 200.8	Nickel (D)	0.52	µg/L	=	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	08/18/09	15:10	EPA 200.8	Nickel (D)	0.37	µg/L	DNQ	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	09/22/09	12:20	EPA 200.8	Nickel (D)	0.35	µg/L	DNQ	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/20/09	12:40	EPA 200.8	Nickel (D)	0.45	µg/L	DNQ	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 200.8	Nickel (T)	0.7	µg/L	=	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 200.8	Nickel (T)	0.6	µg/L	=	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 200.8	Nickel (T)	0.6	µg/L	=	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	05/19/09	13:00	EPA 200.8	Nickel (T)	0.57	µg/L	=	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	06/16/09	12:20	EPA 200.8	Nickel (T)	0.57	µg/L	=	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	07/21/09	13:30	EPA 200.8	Nickel (T)	0.48	µg/L	DNQ	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	08/18/09	15:10	EPA 200.8	Nickel (T)	0.42	µg/L	DNQ	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	09/22/09	12:20	EPA 200.8	Nickel (T)	0.92	µg/L	=	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/20/09	12:40	EPA 200.8	Nickel (T)	0.58	µg/L	=	0.01	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 353.2	Nitrate + Nitrite as N	7	mg/L	=	0.1	0.25			Analyte analyzed at a secondary dilution.		DF=5
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 353.2	Nitrate + Nitrite as N	4.2	mg/L	=	0.02	0.05			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 353.2	Nitrate + Nitrite as N	1.1	mg/L	=	0.02	0.05			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	1.00	05/19/09	13:00	EPA 353.2	Nitrate + Nitrite as N	7.8	mg/L	=	0.1	0.25			Analyte analyzed at a secondary dilution.		DF=5
Lateral 2 1/2 near Keys Rd	E	1.00	06/16/09	12:20	EPA 353.2	Nitrate + Nitrite as N	8.1	mg/L	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Lateral 2 1/2 near Keys Rd	E	1.00	07/21/09	13:30	EPA 353.2	Nitrate + Nitrite as N	7.8	mg/L	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Lateral 2 1/2 near Keys Rd	E	1.00	08/18/09	15:10	EPA 353.2	Nitrate + Nitrite as N	15	mg/L	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Lateral 2 1/2 near Keys Rd	E	1.00	09/22/09	12:20	EPA 353.2	Nitrate + Nitrite as N	2.5	mg/L	=	0.02	0.05			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/20/09	12:40	EPA 353.2	Nitrate + Nitrite as N	0.14	mg/L	=	0.02	0.05			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 351.3	Nitrogen, Total Kjeldahl	0.87	mg/L	=	0.06	0.1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 351.3	Nitrogen, Total Kjeldahl	1.7	mg/L	=	0.06	0.1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 351.3	Nitrogen, Total Kjeldahl	0.3	mg/L	=	0.06	0.1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 365.2	OrthoPhosphate as P	0.016	mg/L	=	0.006	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 365.2	OrthoPhosphate as P	0.037	mg/L	=	0.006	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 365.2	Phosphate as P	0.069	mg/L	=	0.01	0.01			Field duplicate RPD above QC limit.		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 365.2	Phosphate as P	0.1	mg/L	=	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 365.2	Phosphate as P	0.021	mg/L	=	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	05/19/09	13:00	EPA 365.2	Phosphate as P	0.12	mg/L	=	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	06/16/09	12:20	EPA 365.2	Phosphate as P	0.032	mg/L	=	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	07/21/09	13:30	EPA 365.2	Phosphate as P	0.043	mg/L	=	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	08/18/09	15:10	EPA 365.2	Phosphate as P	0.054	mg/L	=	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	09/22/09	12:20	EPA 365.2	Phosphate as P	0.062	mg/L	=	0.01	0.01			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	1.00	10/20/09	12:40	EPA 365.2	Phosphate as P	0.029	mg/L	=	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 200.8	Selenium (T)	0.2	µg/L	DNQ	0.06	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 200.8	Selenium (T)	0.21	µg/L	DNQ	0.06	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 200.8	Selenium (T)	0.06	µg/L	DNQ	0.06	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	05/19/09	13:00	EPA 200.8	Selenium (T)	0.22	µg/L	DNQ	0.06	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	06/16/09	12:20	EPA 200.8	Selenium (T)	0.26	µg/L	DNQ	0.06	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	07/21/09	13:30	EPA 200.8	Selenium (T)	0.28	µg/L	DNQ	0.06	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	08/18/09	15:10	EPA 200.8	Selenium (T)	0.45	µg/L	DNQ	0.06	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	09/22/09	12:20	EPA 200.8	Selenium (T)	0.1	µg/L	DNQ	0.06	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/20/09	12:40	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 160.2	Suspended Solids	68	mg/L	=	2	3			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	05/19/09	13:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	06/16/09	12:20	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	07/21/09	13:30	EPA 160.2	Suspended Solids	6	mg/L	=	1	3			None		DF=0
Lateral 2 1/2 near Keys Rd	E	1.00	08/18/09	15:10	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	09/22/09	12:20	EPA 160.2	Suspended Solids	29	mg/L	=	1	3			None		DF=0
Lateral 2 1/2 near Keys Rd	E	1.00	10/20/09	12:40	EPA 160.2	Suspended Solids	4	mg/L	=	2	3			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 415.1	Total Organic Carbon	5	mg/L	=	0.1	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 415.1	Total Organic Carbon	10	mg/L	=	0.1	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 415.1	Total Organic Carbon	3.1	mg/L	=	0.1	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	05/19/09	13:00	EPA 415.1	Total Organic Carbon	2	mg/L	=	0.1	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	06/16/09	12:20	EPA 415.1	Total Organic Carbon	1.6	mg/L	=	0.1	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	07/21/09	13:30	EPA 415.1	Total Organic Carbon	1.5	mg/L	=	0.1	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	1.00	08/18/09	15:10	EPA 415.1	Total Organic Carbon	1.7	mg/L	=	0.1	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	09/22/09	12:20	EPA 415.1	Total Organic Carbon	2.1	mg/L	=	0.1	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/20/09	12:40	EPA 415.1	Total Organic Carbon	2.4	mg/L	=	0.1	0.5			None		DF=1
Lateral 2 1/2 near Keys Rd	E	2.00	10/21/08	10:40	EPA 180.1	Turbidity	12.53	NTU	=	0.02	0.05	12	RPD 0.5	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 180.1	Turbidity	12	NTU	=	0.02	0.05			Field duplicate RPD above QC limit.		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 180.1	Turbidity	2.1	NTU	=	0.02	0.05			Field duplicate RPD above QC limit.		DF=1
Lateral 2 1/2 near Keys Rd	E	2.00	11/11/08	11:10	EPA 180.1	Turbidity	2.02	NTU	=	0.02	0.05	2.1	RPD 2.4	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 180.1	Turbidity	3.3	NTU	=	0.02	0.05			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	05/19/09	13:00	EPA 180.1	Turbidity	2.2	NTU	=	0.02	0.05			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	06/16/09	12:20	EPA 180.1	Turbidity	2.3	NTU	=	0.02	0.05			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	07/21/09	13:30	EPA 180.1	Turbidity	1.1	NTU	=	0.02	0.05			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	08/18/09	15:10	EPA 180.1	Turbidity	0.5	NTU	=	0.02	0.05			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	09/22/09	12:20	EPA 180.1	Turbidity	11	NTU	=	0.02	0.05			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/20/09	12:40	EPA 180.1	Turbidity	4	NTU	=	0.02	0.05			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 200.8	Zinc (D)	2	µg/L	=	0.8	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	05/19/09	13:00	EPA 200.8	Zinc (D)	2	µg/L	=	0.8	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	06/16/09	12:20	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	07/21/09	13:30	EPA 200.8	Zinc (D)	1.6	µg/L	=	0.8	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	08/18/09	15:10	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	09/22/09	12:20	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/20/09	12:40	EPA 200.8	Zinc (D)	0.97	µg/L	DNQ	0.8	1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	E	1.00	10/21/08	10:40	EPA 200.8	Zinc (T)	2	µg/L	=	0.8	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	11/11/08	11:10	EPA 200.8	Zinc (T)	3	µg/L	=	0.8	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	04/21/09	12:50	EPA 200.8	Zinc (T)	1.3	µg/L	=	0.8	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	05/19/09	13:00	EPA 200.8	Zinc (T)	1.7	µg/L	=	0.8	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	06/16/09	12:20	EPA 200.8	Zinc (T)	0.8	µg/L	DNQ	0.8	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	07/21/09	13:30	EPA 200.8	Zinc (T)	1.8	µg/L	=	0.8	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	08/18/09	15:10	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	09/22/09	12:20	EPA 200.8	Zinc (T)	3.4	µg/L	=	0.8	1			None		DF=1
Lateral 2 1/2 near Keys Rd	E	1.00	10/20/09	12:40	EPA 200.8	Zinc (T)	1.8	µg/L	=	0.8	1			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	05/19/09	15:30	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	06/16/09	14:40	EPA 350.2	Ammonia as N	0.088	mg/L	DNQ	0.06	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	07/21/09	15:40	EPA 350.2	Ammonia as N	0.066	mg/L	DNQ	0.06	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	08/18/09	18:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	09/22/09	15:10	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	10/20/09	15:50	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	11/17/09	14:30	EPA 350.2	Ammonia as N	0.066	mg/L	DNQ	0.06	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	12/15/09	14:40	EPA 350.2	Ammonia as N	0.18	mg/L	=	0.06	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 200.8	Arsenic (T)	0.53	µg/L	=	0.008	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 200.8	Arsenic (T)	0.6	µg/L	=	0.008	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 200.8	Arsenic (T)	0.48	µg/L	DNQ	0.008	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 200.8	Arsenic (T)	0.5	µg/L	=	0.008	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 200.8	Arsenic (T)	0.62	µg/L	=	0.008	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 200.8	Arsenic (T)	0.68	µg/L	=	0.008	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 200.8	Arsenic (T)	0.79	µg/L	=	0.008	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 200.8	Boron (T)	7	µg/L	DNQ	0.47	10			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 200.8	Boron (T)	5	µg/L	DNQ	0.47	10			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 200.8	Boron (T)	4	µg/L	DNQ	0.47	10			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 200.8	Boron (T)	6	µg/L	DNQ	0.47	10			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 200.8	Boron (T)	7	µg/L	DNQ	0.47	10			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 200.8	Boron (T)	6.8	µg/L	DNQ	0.47	10			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 200.8	Boron (T)	7.6	µg/L	DNQ	0.47	10			None		DF=1
Merced River @ Santa Fe	E	1.00	05/19/09	15:30	EPA 200.8	Boron (T)	7.6	µg/L	DNQ	0.47	10			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 200.8	Copper (D)	0.6	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 200.8	Copper (D)	0.6	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 200.8	Copper (D)	0.45	µg/L	DNQ	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 200.8	Copper (D)	0.4	µg/L	DNQ	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 200.8	Copper (D)	0.49	µg/L	DNQ	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 200.8	Copper (D)	0.73	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 200.8	Copper (D)	0.79	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	05/19/09	15:30	EPA 200.8	Copper (D)	0.7	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	06/16/09	14:40	EPA 200.8	Copper (D)	0.58	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	07/21/09	15:40	EPA 200.8	Copper (D)	0.8	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	08/18/09	18:00	EPA 200.8	Copper (D)	0.76	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	09/22/09	15:10	EPA 200.8	Copper (D)	0.28	µg/L	DNQ	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	10/20/09	15:50	EPA 200.8	Copper (D)	0.61	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	11/17/09	14:30	EPA 200.8	Copper (D)	0.35	µg/L	DNQ	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	12/15/09	14:40	EPA 200.8	Copper (D)	0.54	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 200.8	Copper (T)	0.8	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 200.8	Copper (T)	1.2	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 200.8	Copper (T)	0.6	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 200.8	Copper (T)	0.6	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 200.8	Copper (T)	0.9	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 200.8	Copper (T)	1	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 200.8	Copper (T)	1.1	µg/L	=	0.06	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	1.00	05/19/09	15:30	EPA 200.8	Copper (T)	1	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	06/16/09	14:40	EPA 200.8	Copper (T)	0.9	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	07/21/09	15:40	EPA 200.8	Copper (T)	0.41	µg/L	DNQ	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	08/18/09	18:00	EPA 200.8	Copper (T)	1.1	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	09/22/09	15:10	EPA 200.8	Copper (T)	0.97	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	10/20/09	15:50	EPA 200.8	Copper (T)	0.82	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	11/17/09	14:30	EPA 200.8	Copper (T)	0.51	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	12/15/09	14:40	EPA 200.8	Copper (T)	0.6	µg/L	=	0.06	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 160.1	Dissolved Solids	23	mg/L	=	4	10			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 160.1	Dissolved Solids	17	mg/L	=	4	10			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 160.1	Dissolved Solids	14	mg/L	=	4	10			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 160.1	Dissolved Solids	21	mg/L	=	4	10			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 160.1	Dissolved Solids	26	mg/L	=	4	10			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 160.1	Dissolved Solids	39	mg/L	=	4	10			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 160.1	Dissolved Solids	40	mg/L	=	4	10			None		DF=1
Merced River @ Santa Fe	E	1.00	05/19/09	15:30	EPA 160.1	Dissolved Solids	40	mg/L	=	4	10			None		DF=1
Merced River @ Santa Fe	E	1.00	06/16/09	14:40	EPA 160.1	Dissolved Solids	27	mg/L	=	4	10			None		DF=1
Merced River @ Santa Fe	E	1.00	07/21/09	15:40	EPA 160.1	Dissolved Solids	32	mg/L	=	4	10			None		DF=1
Merced River @ Santa Fe	E	1.00	08/18/09	18:00	EPA 160.1	Dissolved Solids	34	mg/L	=	4	10			None		DF=1
Merced River @ Santa Fe	E	1.00	09/22/09	15:10	EPA 160.1	Dissolved Solids	26	mg/L	=	4	10			None		DF=1
Merced River @ Santa Fe	E	1.00	10/20/09	15:50	EPA 160.1	Dissolved Solids	16	mg/L	=	4	10			None		DF=1
Merced River @ Santa Fe	E	1.00	11/17/09	14:30	EPA 160.1	Dissolved Solids	25	mg/L	=	4	10			None		DF=1
Merced River @ Santa Fe	E	1.00	12/15/09	14:40	EPA 160.1	Dissolved Solids	24	mg/L	=	4	10			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	SM 9223 B	E. coli	12	MPN/ 100 mL	=	1	1			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	SM 9223 B	E. coli	16	MPN/ 100 mL	=	1	1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	SM 9223 B	E. coli	18	MPN/ 100 mL	=	1	1			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	SM 9223 B	E. coli	4.1	MPN/ 100 mL	=	1	1			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	SM 9223 B	E. coli	6.3	MPN/ 100 mL	=	1	1			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	SM 9223 B	E. coli	12	MPN/ 100 mL	=	1	1			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	SM 9223 B	E. coli	16	MPN/ 100 mL	=	1	1			None		DF=1
Merced River @ Santa Fe	E	1.00	05/19/09	15:30	SM 9223 B	E. coli	35	MPN/ 100 mL	=	1	1			None		DF=1
Merced River @ Santa Fe	E	1.00	06/16/09	14:40	SM 9223 B	E. coli	44	MPN/ 100 mL	=	1	1			None		DF=1
Merced River @ Santa Fe	E	1.00	07/21/09	15:40	SM 9223 B	E. coli	26	MPN/ 100 mL	=	1	1			None		DF=1
Merced River @ Santa Fe	E	1.00	08/18/09	18:00	SM 9223 B	E. coli	36	MPN/ 100 mL	=	1	1			None		DF=1
Merced River @ Santa Fe	E	1.00	09/22/09	15:10	SM 9223 B	E. coli	16	MPN/ 100 mL	=	1	1			None		DF=1
Merced River @ Santa Fe	E	1.00	10/20/09	15:50	SM 9223 B	E. coli	16	MPN/ 100 mL	=	1	1			None		DF=1
Merced River @ Santa Fe	E	1.00	11/17/09	14:30	SM 9223 B	E. coli	11	MPN/ 100 mL	=	1	1			None		DF=1
Merced River @ Santa Fe	E	1.00	12/15/09	14:40	SM 9223 B	E. coli	31	MPN/ 100 mL	=	1	1			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	SM 2340 C	Hardness as CaCO3	16	mg/L	=	3	5			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	SM 2340 C	Hardness as CaCO3	12	mg/L	=	3	5			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	SM 2340 C	Hardness as CaCO3	12	mg/L	=	1.7	5			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	SM 2340 C	Hardness as CaCO3	24	mg/L	=	3.4	10			Analyte analyzed at a secondary dilution.		DF=2
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	SM 2340 C	Hardness as CaCO3	22	mg/L	=	1.7	5			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	SM 2340 C	Hardness as CaCO3	28	mg/L	=	1.7	5			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	SM 2340 C	Hardness as CaCO3	25	mg/L	=	1.7	5			None		DF=1
Merced River @ Santa Fe	E	1.00	05/19/09	15:30	SM 2340 C	Hardness as CaCO3	22	mg/L	=	1.7	5			None		DF=1
Merced River @ Santa Fe	E	1.00	06/16/09	14:40	SM 2340 C	Hardness as CaCO3	19	mg/L	=	1.7	5			None		DF=1
Merced River @ Santa Fe	E	1.00	07/21/09	15:40	SM 2340 C	Hardness as CaCO3	20	mg/L	=	1.7	5			None		DF=1
Merced River @ Santa Fe	E	1.00	08/18/09	18:00	SM 2340 C	Hardness as CaCO3	19	mg/L	=	1.7	5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	1.00	09/22/09	15:10	SM 2340 C	Hardness as CaCO3	17	mg/L	=	1.7	5			None		DF=1
Merced River @ Santa Fe	E	1.00	10/20/09	15:50	SM 2340 C	Hardness as CaCO3	17	mg/L	=	1.7	5			None		DF=1
Merced River @ Santa Fe	E	1.00	11/17/09	14:30	SM 2340 C	Hardness as CaCO3	14	mg/L	=	1.7	5			None		DF=1
Merced River @ Santa Fe	E	1.00	12/15/09	14:40	SM 2340 C	Hardness as CaCO3	52	mg/L	=	8.5	20			Analyte analyzed at a secondary dilution.		DF=5
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 200.8	Lead (T)	<0.14	µg/L	ND	0.14	0.25			Analyte analyzed at a secondary dilution.		DF=2
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 200.8	Lead (T)	0.3	µg/L	=	0.071	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 200.8	Lead (T)	0.11	µg/L	DNQ	0.071	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 200.8	Lead (T)	0.1	µg/L	DNQ	0.071	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 200.8	Lead (T)	0.1	µg/L	DNQ	0.071	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 200.8	Molybdenum (T)	0.35	µg/L	=	0.016	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 200.8	Molybdenum (T)	0.38	µg/L	=	0.016	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 200.8	Molybdenum (T)	0.38	µg/L	=	0.016	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 200.8	Molybdenum (T)	0.54	µg/L	=	0.016	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 200.8	Molybdenum (T)	0.59	µg/L	=	0.016	0.25			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 200.8	Molybdenum (T)	0.67	µg/L	=	0.016	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 200.8	Molybdenum (T)	0.68	µg/L	=	0.016	0.25			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 200.8	Nickel (D)	0.2	µg/L	DNQ	0.01	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 200.8	Nickel (D)	0.3	µg/L	DNQ	0.01	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 200.8	Nickel (D)	0.3	µg/L	DNQ	0.01	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 200.8	Nickel (D)	0.3	µg/L	DNQ	0.01	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 200.8	Nickel (D)	0.4	µg/L	DNQ	0.01	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 200.8	Nickel (D)	0.43	µg/L	DNQ	0.01	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 200.8	Nickel (D)	0.51	µg/L	=	0.01	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	05/19/09	15:30	EPA 200.8	Nickel (D)	0.53	µg/L	=	0.01	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 200.8	Nickel (T)	0.3	µg/L	DNQ	0.01	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 200.8	Nickel (T)	0.6	µg/L	=	0.01	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 200.8	Nickel (T)	0.2	µg/L	DNQ	0.01	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 200.8	Nickel (T)	0.2	µg/L	DNQ	0.01	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 200.8	Nickel (T)	0.46	µg/L	DNQ	0.01	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 200.8	Nickel (T)	0.42	µg/L	DNQ	0.01	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 200.8	Nickel (T)	0.44	µg/L	DNQ	0.01	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	05/19/09	15:30	EPA 200.8	Nickel (T)	0.42	µg/L	DNQ	0.01	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 353.2	Nitrate + Nitrite as N	0.093	mg/L	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 353.2	Nitrate + Nitrite as N	0.15	mg/L	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 353.2	Nitrate + Nitrite as N	0.13	mg/L	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 353.2	Nitrate + Nitrite as N	0.039	mg/L	DNQ	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 353.2	Nitrate + Nitrite as N	0.24	mg/L	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 353.2	Nitrate + Nitrite as N	0.11	mg/L	=	0.02	0.05			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	1.00	05/19/09	15:30	EPA 353.2	Nitrate + Nitrite as N	0.049	mg/L	DNQ	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	06/16/09	14:40	EPA 353.2	Nitrate + Nitrite as N	0.16	mg/L	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	07/21/09	15:40	EPA 353.2	Nitrate + Nitrite as N	0.041	mg/L	DNQ	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	08/18/09	18:00	EPA 353.2	Nitrate + Nitrite as N	0.043	mg/L	DNQ	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	09/22/09	15:10	EPA 353.2	Nitrate + Nitrite as N	0.16	mg/L	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	10/20/09	15:50	EPA 353.2	Nitrate + Nitrite as N	0.4	mg/L	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	11/17/09	14:30	EPA 353.2	Nitrate + Nitrite as N	0.064	mg/L	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	12/15/09	14:40	EPA 353.2	Nitrate + Nitrite as N	0.2	mg/L	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 351.3	Nitrogen, Total Kjeldahl	0.12	mg/L	=	0.06	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 351.3	Nitrogen, Total Kjeldahl	0.21	mg/L	=	0.06	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 351.3	Nitrogen, Total Kjeldahl	0.16	mg/L	=	0.06	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 351.3	Nitrogen, Total Kjeldahl	<0.06	mg/L	ND	0.06	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 351.3	Nitrogen, Total Kjeldahl	0.16	mg/L	=	0.06	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 351.3	Nitrogen, Total Kjeldahl	0.22	mg/L	=	0.06	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 351.3	Nitrogen, Total Kjeldahl	0.21	mg/L	=	0.06	0.1			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 365.2	OrthoPhosphate as P	0.008	mg/L	DNQ	0.006	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 365.2	OrthoPhosphate as P	0.011	mg/L	=	0.006	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 365.2	OrthoPhosphate as P	0.006	mg/L	DNQ	0.006	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 365.2	OrthoPhosphate as P	0.01	mg/L	=	0.006	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 365.2	Phosphate as P	0.035	mg/L	=	0.01	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 365.2	Phosphate as P	0.034	mg/L	=	0.01	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 365.2	Phosphate as P	0.041	mg/L	=	0.01	0.01			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 365.2	Phosphate as P	0.022	mg/L	=	0.01	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 365.2	Phosphate as P	0.031	mg/L	=	0.01	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 365.2	Phosphate as P	0.027	mg/L	=	0.01	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 365.2	Phosphate as P	0.033	mg/L	=	0.01	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	05/19/09	15:30	EPA 365.2	Phosphate as P	0.077	mg/L	=	0.01	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	06/16/09	14:40	EPA 365.2	Phosphate as P	0.045	mg/L	=	0.01	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	07/21/09	15:40	EPA 365.2	Phosphate as P	0.04	mg/L	=	0.01	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	08/18/09	18:00	EPA 365.2	Phosphate as P	0.045	mg/L	=	0.01	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	09/22/09	15:10	EPA 365.2	Phosphate as P	0.045	mg/L	=	0.01	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	10/20/09	15:50	EPA 365.2	Phosphate as P	0.029	mg/L	=	0.01	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	11/17/09	14:30	EPA 365.2	Phosphate as P	0.032	mg/L	=	0.01	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	12/15/09	14:40	EPA 365.2	Phosphate as P	0.022	mg/L	=	0.01	0.01			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 200.8	Selenium (T)	0.14	µg/L	DNQ	0.06	1			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 200.8	Selenium (T)	0.09	µg/L	DNQ	0.06	1			None		DF=1
Merced River @ Santa Fe	E	1.00	05/19/09	15:30	EPA 200.8	Selenium (T)	0.09	µg/L	DNQ	0.06	1			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Merced River @ Santa Fe	E	1.00	05/19/09	15:30	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Merced River @ Santa Fe	E	1.00	06/16/09	14:40	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Merced River @ Santa Fe	E	1.00	07/21/09	15:40	EPA 160.2	Suspended Solids	<1	mg/L	ND	1	3			None		DF=0
Merced River @ Santa Fe	E	1.00	08/18/09	18:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Merced River @ Santa Fe	E	1.00	09/22/09	15:10	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Merced River @ Santa Fe	E	1.00	10/20/09	15:50	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Merced River @ Santa Fe	E	1.00	11/17/09	14:30	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Merced River @ Santa Fe	E	1.00	12/15/09	14:40	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 415.1	Total Organic Carbon	2.1	mg/L	=	0.1	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 415.1	Total Organic Carbon	2	mg/L	=	0.1	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 415.1	Total Organic Carbon	1.9	mg/L	=	0.1	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 415.1	Total Organic Carbon	2.7	mg/L	=	0.1	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 415.1	Total Organic Carbon	2.8	mg/L	=	0.1	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 415.1	Total Organic Carbon	2.3	mg/L	=	0.1	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 415.1	Total Organic Carbon	2.3	mg/L	=	0.1	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	05/19/09	15:30	EPA 415.1	Total Organic Carbon	2.6	mg/L	=	0.1	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	06/16/09	14:40	EPA 415.1	Total Organic Carbon	2.3	mg/L	=	0.1	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	07/21/09	15:40	EPA 415.1	Total Organic Carbon	2.2	mg/L	=	0.1	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	08/18/09	18:00	EPA 415.1	Total Organic Carbon	2.5	mg/L	=	0.1	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	09/22/09	15:10	EPA 415.1	Total Organic Carbon	2.3	mg/L	=	0.1	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	10/20/09	15:50	EPA 415.1	Total Organic Carbon	2.3	mg/L	=	0.1	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	11/17/09	14:30	EPA 415.1	Total Organic Carbon	2.3	mg/L	=	0.1	0.5			None		DF=1
Merced River @ Santa Fe	E	1.00	12/15/09	14:40	EPA 415.1	Total Organic Carbon	1.9	mg/L	=	0.1	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 180.1	Turbidity	1.8	NTU	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 180.1	Turbidity	1.6	NTU	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 180.1	Turbidity	1	NTU	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 180.1	Turbidity	1.4	NTU	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 180.1	Turbidity	2.8	NTU	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 180.1	Turbidity	2.4	NTU	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 180.1	Turbidity	2.1	NTU	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	05/19/09	15:30	EPA 180.1	Turbidity	2.5	NTU	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	06/16/09	14:40	EPA 180.1	Turbidity	2.5	NTU	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	07/21/09	15:40	EPA 180.1	Turbidity	1.6	NTU	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	08/18/09	18:00	EPA 180.1	Turbidity	1.2	NTU	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	09/22/09	15:10	EPA 180.1	Turbidity	1.3	NTU	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	10/20/09	15:50	EPA 180.1	Turbidity	1.8	NTU	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	11/17/09	14:30	EPA 180.1	Turbidity	1.8	NTU	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	12/15/09	14:40	EPA 180.1	Turbidity	3	NTU	=	0.02	0.05			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 200.8	Zinc (D)	1.2	µg/L	=	0.8	1			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Merced River @ Santa Fe	E	1.00	05/19/09	15:30	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1			None		DF=1
Merced River @ Santa Fe	E	1.00	10/21/08	15:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1			None		DF=1
Merced River @ Santa Fe	E	1.00	11/11/08	13:00	EPA 200.8	Zinc (T)	2	µg/L	=	0.8	1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	E	1.00	12/16/08	13:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1			None		DF=1
Merced River @ Santa Fe	E	1.00	01/20/09	14:10	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1			None		DF=1
Merced River @ Santa Fe	E	1.00	02/07/09	14:20	EPA 200.8	Zinc (T)	1	µg/L	=	0.8	1			None		DF=1
Merced River @ Santa Fe	E	1.00	03/17/09	13:20	EPA 200.8	Zinc (T)	0.9	µg/L	DNQ	0.8	1			None		DF=1
Merced River @ Santa Fe	E	1.00	04/21/09	15:50	EPA 200.8	Zinc (T)	1.4	µg/L	=	0.8	1			None		DF=1
Merced River @ Santa Fe	E	1.00	05/19/09	15:30	EPA 200.8	Zinc (T)	1.6	µg/L	=	0.8	1			None		DF=1
Miles Creek @ Reilly Rd	MPM	1.00	07/21/09	14:00	EPA 200.8	Copper (D)	1.5	µg/L	=	0.06	0.5			None		DF=1
Miles Creek @ Reilly Rd	MPM	1.00	08/18/09	13:20	EPA 200.8	Copper (D)	1.6	µg/L	=	0.06	0.5			None		DF=1
Miles Creek @ Reilly Rd	MPM	1.00	07/21/09	14:00	EPA 200.8	Copper (T)	3.3	µg/L	=	0.06	0.5			None		DF=1
Miles Creek @ Reilly Rd	MPM	1.00	08/18/09	13:20	EPA 200.8	Copper (T)	5	µg/L	=	0.06	0.5			None		DF=1
Miles Creek @ Reilly Rd	MPM	1.00	07/21/09	14:00	SM 2340 C	Hardness as CaCO3	28	mg/L	=	1.7	5			None		DF=1
Miles Creek @ Reilly Rd	MPM	1.00	08/18/09	13:20	SM 2340 C	Hardness as CaCO3	42	mg/L	=	1.7	5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 350.2	Ammonia as N	0.38	mg/L	=	0.05	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 350.2	Ammonia as N	0.13	mg/L	=	0.05	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 350.2	Ammonia as N	0.4	mg/L	=	0.05	0.1			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 350.2	Ammonia as N	0.74	mg/L	=	0.05	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 350.2	Ammonia as N	0.35	mg/L	=	0.06	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	05/19/09	09:00	EPA 350.2	Ammonia as N	0.13	mg/L	=	0.06	0.1			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	1.00	06/16/09	09:20	EPA 350.2	Ammonia as N	0.45	mg/L	=	0.06	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	07/21/09	09:00	EPA 350.2	Ammonia as N	0.33	mg/L	=	0.06	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	08/18/09	09:30	EPA 350.2	Ammonia as N	0.38	mg/L	=	0.06	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	09/22/09	09:30	EPA 350.2	Ammonia as N	0.4	mg/L	=	0.06	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	10/20/09	09:00	EPA 350.2	Ammonia as N	1.2	mg/L	=	0.06	0.1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	1.00	11/17/09	09:30	EPA 350.2	Ammonia as N	2.1	mg/L	=	0.06	0.1			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 200.8	Arsenic (T)	2.5	µg/L	=	0.008	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 200.8	Arsenic (T)	2.5	µg/L	=	0.008	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 200.8	Arsenic (T)	5.5	µg/L	=	0.008	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 200.8	Arsenic (T)	7.3	µg/L	=	0.008	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 200.8	Arsenic (T)	1.5	µg/L	=	0.008	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 200.8	Boron (T)	16	µg/L	=	0.47	10			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 200.8	Boron (T)	25	µg/L	=	0.47	10			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 200.8	Boron (T)	37	µg/L	=	0.47	10			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 200.8	Boron (T)	63	µg/L	=	0.47	10			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 200.8	Boron (T)	32	µg/L	=	0.47	10			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	05/19/09	09:00	EPA 200.8	Boron (T)	35	µg/L	=	0.47	10			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	06/16/09	09:20	EPA 200.8	Boron (T)	38	µg/L	=	0.47	10			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	07/21/09	09:00	EPA 200.8	Boron (T)	24	µg/L	=	0.47	10			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	08/18/09	09:30	EPA 200.8	Boron (T)	27	µg/L	=	0.47	10			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	09/22/09	09:30	EPA 200.8	Boron (T)	21	µg/L	=	0.47	10			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	1.00	10/20/09	09:00	EPA 200.8	Boron (T)	23	µg/L	=	0.47	10			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/17/09	09:30	EPA 200.8	Boron (T)	22	µg/L	=	0.47	10			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 200.8	Cadmium (D)	0.013	µg/L	DNQ	0.011	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 200.8	Cadmium (D)	0.011	µg/L	DNQ	0.011	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 200.8	Cadmium (D)	0.02	µg/L	DNQ	0.011	0.1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 200.8	Cadmium (T)	0.1	µg/L	=	0.011	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 200.8	Cadmium (T)	0.02	µg/L	DNQ	0.011	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 200.8	Cadmium (T)	0.02	µg/L	DNQ	0.011	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 200.8	Cadmium (T)	0.04	µg/L	DNQ	0.011	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 200.8	Cadmium (T)	0.03	µg/L	DNQ	0.011	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 200.8	Copper (D)	3.3	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 200.8	Copper (D)	2.1	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 200.8	Copper (D)	3	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 200.8	Copper (D)	3.5	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 200.8	Copper (D)	3.4	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	05/19/09	09:00	EPA 200.8	Copper (D)	2.8	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	06/16/09	09:20	EPA 200.8	Copper (D)	3	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	07/21/09	09:00	EPA 200.8	Copper (D)	2.5	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	08/18/09	09:30	EPA 200.8	Copper (D)	2.3	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	09/22/09	09:30	EPA 200.8	Copper (D)	1.8	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	10/20/09	09:00	EPA 200.8	Copper (D)	3.1	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/17/09	09:30	EPA 200.8	Copper (D)	1.9	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 200.8	Copper (T)	13	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 200.8	Copper (T)	2.5	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 200.8	Copper (T)	4.2	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 200.8	Copper (T)	5.8	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 200.8	Copper (T)	4.3	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	05/19/09	09:00	EPA 200.8	Copper (T)	4.1	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	06/16/09	09:20	EPA 200.8	Copper (T)	3.9	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	07/21/09	09:00	EPA 200.8	Copper (T)	2.9	µg/L	=	0.06	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	1.00	08/18/09	09:30	EPA 200.8	Copper (T)	3.7	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	09/22/09	09:30	EPA 200.8	Copper (T)	4.2	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	10/20/09	09:00	EPA 200.8	Copper (T)	6.2	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/17/09	09:30	EPA 200.8	Copper (T)	8.4	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 160.1	Dissolved Solids	62	mg/L	=	4	10			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 160.1	Dissolved Solids	350	mg/L	=	4	10			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 160.1	Dissolved Solids	270	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 160.1	Dissolved Solids	290	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 160.1	Dissolved Solids	130	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Mootz Drain @ Langworth Rd	E	1.00	05/19/09	09:00	EPA 160.1	Dissolved Solids	150	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Mootz Drain @ Langworth Rd	E	2.00	06/16/09	09:20	EPA 160.1	Dissolved Solids	158	mg/L	=	4	10	160	RPD 1.3	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	E	1.00	06/16/09	09:20	EPA 160.1	Dissolved Solids	160	mg/L	=	4	10			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	07/21/09	09:00	EPA 160.1	Dissolved Solids	120	mg/L	=	4	10			None		DF=1
Mootz Drain @ Langworth Rd	E	2.00	07/21/09	09:00	EPA 160.1	Dissolved Solids	129	mg/L	=	4	10	120	RPD 3.1	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	E	1.00	08/18/09	09:30	EPA 160.1	Dissolved Solids	110	mg/L	=	8	20			Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.		DF=2
Mootz Drain @ Langworth Rd	E	2.00	08/18/09	09:30	EPA 160.1	Dissolved Solids	142	mg/L	=	8	20	110	RPD 22	Analyte analyzed at a secondary dilution.	RPD <25	DF=2

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	2.00	09/22/09	09:30	EPA 160.1	Dissolved Solids	104	mg/L	=	8	20	110	RPD 1.9	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	E	1.00	09/22/09	09:30	EPA 160.1	Dissolved Solids	110	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Mootz Drain @ Langworth Rd	E	2.00	10/20/09	09:00	EPA 160.1	Dissolved Solids	172	mg/L	=	16	40	150	RPD 15	Analyte analyzed at a secondary dilution.	RPD <25	DF=4
Mootz Drain @ Langworth Rd	E	1.00	10/20/09	09:00	EPA 160.1	Dissolved Solids	150	mg/L	=	16	40			Analyte analyzed at a secondary dilution.		DF=4
Mootz Drain @ Langworth Rd	E	1.00	11/17/09	09:30	EPA 160.1	Dissolved Solids	170	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Mootz Drain @ Langworth Rd	E	2.00	11/17/09	09:30	EPA 160.1	Dissolved Solids	162	mg/L	=	8	20	170	RPD 7.1	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	SM 9223 B	E. coli	28	MPN/ 100 mL	=	1	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	SM 9223 B	E. coli	74	MPN/ 100 mL	=	1	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	SM 9223 B	E. coli	44	MPN/ 100 mL	=	1	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	05/19/09	09:00	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	06/16/09	09:20	SM 9223 B	E. coli	390	MPN/ 100 mL	=	1	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	07/21/09	09:00	SM 9223 B	E. coli	2000	MPN/ 100 mL	=	1	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	08/18/09	09:30	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	09/22/09	09:30	SM 9223 B	E. coli	1700	MPN/ 100 mL	=	1	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	10/20/09	09:00	SM 9223 B	E. coli	240	MPN/ 100 mL	=	1	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/17/09	09:30	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	SM 2340 C	Hardness as CaCO3	42	mg/L	=	3	5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	SM 2340 C	Hardness as CaCO3	200	mg/L	=	1.7	5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	SM 2340 C	Hardness as CaCO3	150	mg/L	=	8.5	20			Analyte analyzed at a secondary dilution.		DF=5
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	SM 2340 C	Hardness as CaCO3	190	mg/L	=	8.5	20			Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.		DF=5
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	SM 2340 C	Hardness as CaCO3	66	mg/L	=	1.7	5			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	1.00	05/19/09	09:00	SM 2340 C	Hardness as CaCO3	88	mg/L	=	8.5	20			Analyte analyzed at a secondary dilution.		DF=5
Mootz Drain @ Langworth Rd	E	1.00	06/16/09	09:20	SM 2340 C	Hardness as CaCO3	68	mg/L	=	1.7	5			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	1.00	07/21/09	09:00	SM 2340 C	Hardness as CaCO3	54	mg/L	=	1.7	5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	08/18/09	09:30	SM 2340 C	Hardness as CaCO3	66	mg/L	=	8.5	20			Analyte analyzed at a secondary dilution.		DF=5
Mootz Drain @ Langworth Rd	E	1.00	09/22/09	09:30	SM 2340 C	Hardness as CaCO3	66	mg/L	=	8.5	20			Analyte analyzed at a secondary dilution.		DF=5
Mootz Drain @ Langworth Rd	E	1.00	10/20/09	09:00	SM 2340 C	Hardness as CaCO3	52	mg/L	=	8.5	20			Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.		DF=5
Mootz Drain @ Langworth Rd	E	1.00	11/17/09	09:30	SM 2340 C	Hardness as CaCO3	100	mg/L	=	1.7	5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 200.8	Lead (D)	0.7	µg/L	=	0.071	0.25			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 200.8	Lead (D)	0.08	µg/L	DNQ	0.071	0.25			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 200.8	Lead (D)	0.073	µg/L	DNQ	0.071	0.25			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 200.8	Lead (D)	0.17	µg/L	DNQ	0.071	0.25			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 200.8	Lead (T)	6.1	µg/L	=	0.071	0.25			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 200.8	Lead (T)	0.16	µg/L	DNQ	0.071	0.25			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 200.8	Lead (T)	0.57	µg/L	=	0.071	0.25			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 200.8	Lead (T)	1.8	µg/L	=	0.071	0.25			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 200.8	Lead (T)	0.48	µg/L	=	0.071	0.25			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 200.8	Molybdenum (T)	0.93	µg/L	=	0.016	0.25			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 200.8	Molybdenum (T)	0.65	µg/L	=	0.016	0.25			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 200.8	Molybdenum (T)	1.8	µg/L	=	0.016	0.25			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 200.8	Molybdenum (T)	2.7	µg/L	=	0.016	0.25			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 200.8	Molybdenum (T)	1.1	µg/L	=	0.016	0.25			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 200.8	Nickel (D)	2	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 200.8	Nickel (D)	0.8	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 200.8	Nickel (D)	3.1	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 200.8	Nickel (D)	6.6	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 200.8	Nickel (D)	1.9	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	05/19/09	09:00	EPA 200.8	Nickel (D)	1.6	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	06/16/09	09:20	EPA 200.8	Nickel (D)	1.6	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	07/21/09	09:00	EPA 200.8	Nickel (D)	1.5	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	08/18/09	09:30	EPA 200.8	Nickel (D)	1.3	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	09/22/09	09:30	EPA 200.8	Nickel (D)	1.3	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	10/20/09	09:00	EPA 200.8	Nickel (D)	3.1	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/17/09	09:30	EPA 200.8	Nickel (D)	3.4	µg/L	=	0.01	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 200.8	Nickel (T)	7	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 200.8	Nickel (T)	1	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 200.8	Nickel (T)	3.6	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 200.8	Nickel (T)	8.1	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 200.8	Nickel (T)	2.2	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	05/19/09	09:00	EPA 200.8	Nickel (T)	2.1	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	06/16/09	09:20	EPA 200.8	Nickel (T)	1.8	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	07/21/09	09:00	EPA 200.8	Nickel (T)	1.5	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	08/18/09	09:30	EPA 200.8	Nickel (T)	1.9	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	09/22/09	09:30	EPA 200.8	Nickel (T)	2.2	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	10/20/09	09:00	EPA 200.8	Nickel (T)	4.5	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/17/09	09:30	EPA 200.8	Nickel (T)	6.1	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 353.2	Nitrate + Nitrite as N	0.26	mg/L	=	0.02	0.05			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 353.2	Nitrate + Nitrite as N	5.8	mg/L	=	0.1	0.25			Analyte analyzed at a secondary dilution.		DF=5
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 353.2	Nitrate + Nitrite as N	0.11	mg/L	=	0.04	0.1			Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.		DF=2
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 353.2	Nitrate + Nitrite as N	0.13	mg/L	=	0.04	0.1			Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.		DF=2

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 353.2	Nitrate + Nitrite as N	0.062	mg/L	DNQ	0.04	0.1			Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.		DF=2
Mootz Drain @ Langworth Rd	E	1.00	05/19/09	09:00	EPA 353.2	Nitrate + Nitrite as N	0.087	mg/L	=	0.02	0.05			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	1.00	06/16/09	09:20	EPA 353.2	Nitrate + Nitrite as N	0.22	mg/L	=	0.02	0.05			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	1.00	07/21/09	09:00	EPA 353.2	Nitrate + Nitrite as N	0.14	mg/L	=	0.02	0.05			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	08/18/09	09:30	EPA 353.2	Nitrate + Nitrite as N	0.064	mg/L	=	0.02	0.05			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	1.00	09/22/09	09:30	EPA 353.2	Nitrate + Nitrite as N	0.11	mg/L	=	0.02	0.05			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	1.00	10/20/09	09:00	EPA 353.2	Nitrate + Nitrite as N	0.17	mg/L	=	0.02	0.05			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/17/09	09:30	EPA 353.2	Nitrate + Nitrite as N	0.062	mg/L	=	0.02	0.05			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 351.3	Nitrogen, Total Kjeldahl	7.8	mg/L	=	0.06	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 351.3	Nitrogen, Total Kjeldahl	0.92	mg/L	=	0.06	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 351.3	Nitrogen, Total Kjeldahl	2.2	mg/L	=	0.06	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 351.3	Nitrogen, Total Kjeldahl	8.1	mg/L	=	0.06	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 351.3	Nitrogen, Total Kjeldahl	2	mg/L	=	0.06	0.1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 365.2	OrthoPhosphate as P	0.28	mg/L	=	0.006	0.01			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 365.2	OrthoPhosphate as P	0.076	mg/L	=	0.006	0.01			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 365.2	OrthoPhosphate as P	0.64	mg/L	=	0.006	0.01			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 365.2	OrthoPhosphate as P	1	mg/L	=	0.03	0.05			Analyte analyzed at a secondary dilution.		DF=5
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 365.2	OrthoPhosphate as P	1.1	mg/L	=	0.012	0.02			Analyte analyzed at a secondary dilution.		DF=2
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 365.2	Phosphate as P	1.4	mg/L	=	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 365.2	Phosphate as P	0.22	mg/L	=	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 365.2	Phosphate as P	0.78	mg/L	=	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 365.2	Phosphate as P	2.2	mg/L	=	0.02	0.02			Analyte analyzed at a secondary dilution.		DF=2
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 365.2	Phosphate as P	1.3	mg/L	=	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	05/19/09	09:00	EPA 365.2	Phosphate as P	2.2	mg/L	=	0.05	0.05			Analyte analyzed at a secondary dilution.		DF=5
Mootz Drain @ Langworth Rd	E	1.00	06/16/09	09:20	EPA 365.2	Phosphate as P	1.8	mg/L	=	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	07/21/09	09:00	EPA 365.2	Phosphate as P	1.3	mg/L	=	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	08/18/09	09:30	EPA 365.2	Phosphate as P	1.2	mg/L	=	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	09/22/09	09:30	EPA 365.2	Phosphate as P	0.73	mg/L	=	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	10/20/09	09:00	EPA 365.2	Phosphate as P	1.9	mg/L	=	0.05	0.05			Analyte analyzed at a secondary dilution.		DF=5
Mootz Drain @ Langworth Rd	E	1.00	11/17/09	09:30	EPA 365.2	Phosphate as P	2.6	mg/L	=	0.1	0.1			Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.		DF=10
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 200.8	Selenium (T)	0.14	µg/L	DNQ	0.06	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 200.8	Selenium (T)	0.11	µg/L	DNQ	0.06	1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 200.8	Selenium (T)	0.28	µg/L	DNQ	0.06	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 200.8	Selenium (T)	0.09	µg/L	DNQ	0.06	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	05/19/09	09:00	EPA 200.8	Selenium (T)	0.09	µg/L	DNQ	0.06	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	06/16/09	09:20	EPA 200.8	Selenium (T)	0.07	µg/L	DNQ	0.06	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	07/21/09	09:00	EPA 200.8	Selenium (T)	0.07	µg/L	DNQ	0.06	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	08/18/09	09:30	EPA 200.8	Selenium (T)	0.07	µg/L	DNQ	0.06	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	09/22/09	09:30	EPA 200.8	Selenium (T)	0.06	µg/L	DNQ	0.06	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	10/20/09	09:00	EPA 200.8	Selenium (T)	0.11	µg/L	DNQ	0.06	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/17/09	09:30	EPA 200.8	Selenium (T)	0.22	µg/L	DNQ	0.06	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 160.2	Suspended Solids	110	mg/L	=	4	6			Analyte analyzed at a secondary dilution.		DF=2
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 160.2	Suspended Solids	8	mg/L	=	2	3			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	2.00	03/17/09	08:50	EPA 160.2	Suspended Solids	57	mg/L	=	2	3	50	RPD 13	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 160.2	Suspended Solids	50	mg/L	=	2	3			None		DF=1
Mootz Drain @ Langworth Rd	E	2.00	04/21/09	09:00	EPA 160.2	Suspended Solids	16	mg/L	=	2	3	14	RPD 13	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 160.2	Suspended Solids	14	mg/L	=	2	3			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	2.00	05/19/09	09:00	EPA 160.2	Suspended Solids	24	mg/L	=	2	3	25	RPD 4.1	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	E	1.00	05/19/09	09:00	EPA 160.2	Suspended Solids	25	mg/L	=	2	3			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	06/16/09	09:20	EPA 160.2	Suspended Solids	10	mg/L	=	2	3			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	2.00	06/16/09	09:20	EPA 160.2	Suspended Solids	12	mg/L	=	2	3	10	RPD 18	None	RPD <25	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	1.00	07/21/09	09:00	EPA 160.2	Suspended Solids	7	mg/L	=	2	3			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	1.00	08/18/09	09:30	EPA 160.2	Suspended Solids	33	mg/L	=	2	3			None		DF=1
Mootz Drain @ Langworth Rd	E	2.00	08/18/09	09:30	EPA 160.2	Suspended Solids	33	mg/L	=	2	3	33	RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	E	1.00	09/22/09	09:30	EPA 160.2	Suspended Solids	42	mg/L	=	1	3			None		DF=0
Mootz Drain @ Langworth Rd	E	1.00	10/20/09	09:00	EPA 160.2	Suspended Solids	1500	mg/L	=	8	10			Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.		DF=4
Mootz Drain @ Langworth Rd	E	2.00	10/20/09	09:00	EPA 160.2	Suspended Solids	1596	mg/L	=	8	10	1500	RPD 7	Analyte analyzed at a secondary dilution.	RPD <25	DF=4
Mootz Drain @ Langworth Rd	E	1.00	11/17/09	09:30	EPA 160.2	Suspended Solids	960	mg/L	=	8	10			Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.		DF=4
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 415.1	Total Organic Carbon	23	mg/L	=	0.1	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 415.1	Total Organic Carbon	7.8	mg/L	=	0.1	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 415.1	Total Organic Carbon	20	mg/L	=	0.1	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 415.1	Total Organic Carbon	45	mg/L	=	0.1	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 415.1	Total Organic Carbon	15	mg/L	=	0.1	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	05/19/09	09:00	EPA 415.1	Total Organic Carbon	16	mg/L	=	0.1	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	06/16/09	09:20	EPA 415.1	Total Organic Carbon	14	mg/L	=	0.1	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	07/21/09	09:00	EPA 415.1	Total Organic Carbon	12	mg/L	=	0.1	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	08/18/09	09:30	EPA 415.1	Total Organic Carbon	13	mg/L	=	0.1	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	09/22/09	09:30	EPA 415.1	Total Organic Carbon	9.5	mg/L	=	0.1	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	1.00	10/20/09	09:00	EPA 415.1	Total Organic Carbon	23	mg/L	=	0.1	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/17/09	09:30	EPA 415.1	Total Organic Carbon	36	mg/L	=	0.1	0.5			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 180.1	Turbidity	74	NTU	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 180.1	Turbidity	6.7	NTU	=	0.02	0.05			None		DF=1
Mootz Drain @ Langworth Rd	E	2.00	02/07/09	08:40	EPA 180.1	Turbidity	9.56	NTU	=	0.02	0.05	9.5	RPD 0.3	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 180.1	Turbidity	9.5	NTU	=	0.02	0.05			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	2.00	03/17/09	08:50	EPA 180.1	Turbidity	36.52	NTU	=	0.04	0.1	37	RPD 0.3	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 180.1	Turbidity	37	NTU	=	0.04	0.1			Analyte analyzed at a secondary dilution.		DF=2
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 180.1	Turbidity	11	NTU	=	0.02	0.05			None		DF=1
Mootz Drain @ Langworth Rd	E	2.00	04/21/09	09:00	EPA 180.1	Turbidity	10.72	NTU	=	0.02	0.05	11	RPD 0.2	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	E	2.00	05/19/09	09:00	EPA 180.1	Turbidity	21.25	NTU	=	0.1	0.2	21	RPD 0.5	Analyte analyzed at a secondary dilution.	RPD <25	DF=5
Mootz Drain @ Langworth Rd	E	1.00	05/19/09	09:00	EPA 180.1	Turbidity	21	NTU	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Mootz Drain @ Langworth Rd	E	1.00	06/16/09	09:20	EPA 180.1	Turbidity	12	NTU	=	0.04	0.1			Analyte analyzed at a secondary dilution.		DF=2
Mootz Drain @ Langworth Rd	E	2.00	06/16/09	09:20	EPA 180.1	Turbidity	12.28	NTU	=	0.04	0.1	12	RPD 0.2	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	E	1.00	07/21/09	09:00	EPA 180.1	Turbidity	6.2	NTU	=	0.02	0.05			None		DF=1
Mootz Drain @ Langworth Rd	E	2.00	07/21/09	09:00	EPA 180.1	Turbidity	6.3	NTU	=	0.02	0.05	6.2	RPD 2.2	None	RPD <25	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	1.00	08/18/09	09:30	EPA 180.1	Turbidity	22	NTU	=	0.04	0.1			Analyte analyzed at a secondary dilution.		DF=2
Mootz Drain @ Langworth Rd	E	2.00	09/22/09	09:30	EPA 180.1	Turbidity	32.85	NTU	=	0.1	0.2	33	RPD 0.6	Analyte analyzed at a secondary dilution.	RPD <25	DF=5
Mootz Drain @ Langworth Rd	E	1.00	09/22/09	09:30	EPA 180.1	Turbidity	33	NTU	=	1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Mootz Drain @ Langworth Rd	E	1.00	10/20/09	09:00	EPA 180.1	Turbidity	460	NTU	=	0.5	1			Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.		DF=25
Mootz Drain @ Langworth Rd	E	2.00	10/20/09	09:00	EPA 180.1	Turbidity	461.5	NTU	=	0.5	1	460	RPD 0.4	Analyte analyzed at a secondary dilution.	RPD <25	DF=25
Mootz Drain @ Langworth Rd	E	1.00	11/17/09	09:30	EPA 180.1	Turbidity	600	NTU	=	1	2			Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.		DF=50
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 200.8	Zinc (D)	6	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 200.8	Zinc (D)	1	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 200.8	Zinc (D)	1	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 200.8	Zinc (D)	1.4	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 200.8	Zinc (D)	4.7	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	05/19/09	09:00	EPA 200.8	Zinc (D)	2.5	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	06/16/09	09:20	EPA 200.8	Zinc (D)	2.2	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	07/21/09	09:00	EPA 200.8	Zinc (D)	3.4	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	08/18/09	09:30	EPA 200.8	Zinc (D)	2.6	µg/L	=	0.8	1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	E	1.00	09/22/09	09:30	EPA 200.8	Zinc (D)	3.6	µg/L	=	1	1			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	1.00	10/20/09	09:00	EPA 200.8	Zinc (D)	1.5	µg/L	=	0.8	1			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/17/09	09:30	EPA 200.8	Zinc (D)	2.5	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/11/08	08:30	EPA 200.8	Zinc (T)	47	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	12/16/08	08:40	EPA 200.8	Zinc (T)	3	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	02/07/09	08:40	EPA 200.8	Zinc (T)	5	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	03/17/09	08:50	EPA 200.8	Zinc (T)	11	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	04/21/09	09:00	EPA 200.8	Zinc (T)	9	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	05/19/09	09:00	EPA 200.8	Zinc (T)	7.3	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	06/16/09	09:20	EPA 200.8	Zinc (T)	5.2	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	07/21/09	09:00	EPA 200.8	Zinc (T)	5	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	08/18/09	09:30	EPA 200.8	Zinc (T)	7.5	µg/L	=	0.8	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	09/22/09	09:30	EPA 200.8	Zinc (T)	9.1	µg/L	=	1	1			None		DF=1
Mootz Drain @ Langworth Rd	E	1.00	10/20/09	09:00	EPA 200.8	Zinc (T)	15	µg/L	=	0.8	1			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	E	1.00	11/17/09	09:30	EPA 200.8	Zinc (T)	32	µg/L	=	0.8	1			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 350.2	Ammonia as N	0.6	mg/L	=	0.06	0.1			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 200.8	Arsenic (T)	2	µg/L	=	0.008	0.5			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 200.8	Boron (T)	36	µg/L	=	0.47	10			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 200.8	Cadmium (T)	0.08	µg/L	DNQ	0.011	0.1			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 200.8	Copper (D)	1.6	µg/L	=	0.06	0.5			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 200.8	Copper (T)	6.5	µg/L	=	0.06	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 160.1	Dissolved Solids	240	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	SM 2340 C	Hardness as CaCO3	140	mg/L	=	8.5	20			Analyte analyzed at a secondary dilution.		DF=5
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 200.8	Lead (T)	4.3	µg/L	=	0.071	0.25			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 200.8	Molybdenum (T)	1.2	µg/L	=	0.016	0.25			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 200.8	Nickel (D)	1.4	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 200.8	Nickel (T)	4.1	µg/L	=	0.01	0.5			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 353.2	Nitrate + Nitrite as N	1.2	mg/L	=	0.02	0.05			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 365.2	Phosphate as P	1.4	mg/L	=	0.01	0.01			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 200.8	Selenium (T)	0.1	µg/L	DNQ	0.06	1			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 160.2	Suspended Solids	150	mg/L	=	2	3			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 415.1	Total Organic Carbon	18	mg/L	=	0.1	0.5			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 180.1	Turbidity	120	NTU	=	0.5	1			Analyte analyzed at a secondary dilution.		DF=25
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 200.8	Zinc (D)	1.7	µg/L	=	0.8	1			None		DF=1
Mootz Drain Downstream of Langworth Pond	E	1.00	12/15/09	08:50	EPA 200.8	Zinc (T)	22	µg/L	=	0.8	1			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 350.2	Ammonia as N	0.2	mg/L	=	0.05	0.1			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 350.2	Ammonia as N	0.2	mg/L	=	0.05	0.1			None		DF=1
Mustang Creek @ East Ave	E	1.00	10/20/09	15:20	EPA 350.2	Ammonia as N	2.3	mg/L	=	0.06	0.1			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 350.2	Ammonia as N	0.86	mg/L	=	0.06	0.1			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 200.8	Arsenic (T)	3.8	µg/L	=	0.008	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 200.8	Arsenic (T)	3.7	µg/L	=	0.008	0.5			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 200.8	Arsenic (T)	5.1	µg/L	=	0.008	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 200.8	Boron (T)	110	µg/L	=	0.47	10			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 200.8	Boron (T)	130	µg/L	=	0.47	10			None		DF=1
Mustang Creek @ East Ave	E	1.00	10/20/09	15:20	EPA 200.8	Boron (T)	140	µg/L	=	0.47	10			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 200.8	Boron (T)	130	µg/L	=	0.47	10			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 200.8	Cadmium (D)	0.02	µg/L	DNQ	0.011	0.1			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 200.8	Cadmium (D)	0.05	µg/L	DNQ	0.011	0.1			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 200.8	Cadmium (D)	0.02	µg/L	DNQ	0.011	0.1			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 200.8	Cadmium (T)	0.03	µg/L	DNQ	0.011	0.1			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 200.8	Cadmium (T)	0.07	µg/L	DNQ	0.011	0.1			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 200.8	Cadmium (T)	0.03	µg/L	DNQ	0.011	0.1			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 200.8	Copper (D)	25	µg/L	=	0.06	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 200.8	Copper (D)	21	µg/L	=	0.06	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	10/20/09	15:20	EPA 200.8	Copper (D)	44	µg/L	=	0.06	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 200.8	Copper (D)	25	µg/L	=	0.06	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 200.8	Copper (T)	28	µg/L	=	0.06	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 200.8	Copper (T)	24	µg/L	=	0.06	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	10/20/09	15:20	EPA 200.8	Copper (T)	54	µg/L	=	0.06	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 200.8	Copper (T)	27	µg/L	=	0.06	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 160.1	Dissolved Solids	560	mg/L	=	4	10			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 160.1	Dissolved Solids	710	mg/L	=	4	10			None		DF=1
Mustang Creek @ East Ave	E	1.00	10/20/09	15:20	EPA 160.1	Dissolved Solids	670	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 160.1	Dissolved Solids	350	mg/L	=	4	10			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	SM 9223 B	E. coli	5.2	MPN/ 100 mL	=	1	1			None		DF=1

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Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	SM 9223 B	E. coli	63	MPN/ 100 mL	=	1	1			None		DF=1
Mustang Creek @ East Ave	E	1.00	10/20/09	15:20	SM 9223 B	E. coli	250	MPN/ 100 mL	=	1	1			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	SM 9223 B	E. coli	48	MPN/ 100 mL	=	1	1			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	SM 2340 C	Hardness as CaCO3	270	mg/L	=	8.5	20			Analyte analyzed at a secondary dilution.		DF=5
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	SM 2340 C	Hardness as CaCO3	400	mg/L	=	8.5	20			Analyte analyzed at a secondary dilution.		DF=5
Mustang Creek @ East Ave	E	1.00	10/20/09	15:20	SM 2340 C	Hardness as CaCO3	320	mg/L	=	8.5	20			Analyte analyzed at a secondary dilution.		DF=5
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	SM 2340 C	Hardness as CaCO3	300	mg/L	=	8.5	20			Analyte analyzed at a secondary dilution.		DF=5
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 200.8	Lead (T)	0.14	µg/L	DNQ	0.071	0.25			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 200.8	Lead (T)	0.18	µg/L	DNQ	0.071	0.25			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 200.8	Molybdenum (T)	3.1	µg/L	=	0.016	0.25			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 200.8	Molybdenum (T)	2.9	µg/L	=	0.016	0.25			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 200.8	Molybdenum (T)	2.8	µg/L	=	0.016	0.25			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 200.8	Nickel (D)	5.1	µg/L	=	0.01	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 200.8	Nickel (D)	5	µg/L	=	0.01	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	10/20/09	15:20	EPA 200.8	Nickel (D)	14	µg/L	=	0.01	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 200.8	Nickel (D)	5.5	µg/L	=	0.01	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 200.8	Nickel (T)	5.3	µg/L	=	0.01	0.5			None		DF=1

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Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 200.8	Nickel (T)	5.4	µg/L	=	0.01	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	10/20/09	15:20	EPA 200.8	Nickel (T)	14	µg/L	=	0.01	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 200.8	Nickel (T)	5.7	µg/L	=	0.01	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 353.2	Nitrate + Nitrite as N	12	mg/L	=	0.1	0.25			Analyte analyzed at a secondary dilution.		DF=5
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 353.2	Nitrate + Nitrite as N	33	mg/L	=	0.48	1.2			Analyte analyzed at a secondary dilution.		DF=24
Mustang Creek @ East Ave	E	1.00	10/20/09	15:20	EPA 353.2	Nitrate + Nitrite as N	0.31	mg/L	=	0.02	0.05			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 353.2	Nitrate + Nitrite as N	9	mg/L	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 351.3	Nitrogen, Total Kjeldahl	2.7	mg/L	=	0.06	0.1			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 351.3	Nitrogen, Total Kjeldahl	2.3	mg/L	=	0.06	0.1			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 365.2	OrthoPhosphate as P	0.81	mg/L	=	0.006	0.01			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 365.2	OrthoPhosphate as P	0.4	mg/L	=	0.006	0.01			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 365.2	Phosphate as P	0.8	mg/L	=	0.01	0.01			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 365.2	Phosphate as P	0.47	mg/L	=	0.01	0.01			None		DF=1
Mustang Creek @ East Ave	E	1.00	10/20/09	15:20	EPA 365.2	Phosphate as P	5.5	mg/L	=	0.05	0.05			Analyte analyzed at a secondary dilution.		DF=5
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 365.2	Phosphate as P	1.7	mg/L	=	0.01	0.01			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 200.8	Selenium (T)	0.21	µg/L	DNQ	0.06	1			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 200.8	Selenium (T)	0.2	µg/L	DNQ	0.06	1			None		DF=1
Mustang Creek @ East Ave	E	1.00	10/20/09	15:20	EPA 200.8	Selenium (T)	0.4	µg/L	DNQ	0.06	1			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 200.8	Selenium (T)	0.2	µg/L	DNQ	0.06	1			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1

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Mustang Creek @ East Ave	E	1.00	10/20/09	15:20	EPA 160.2	Suspended Solids	56	mg/L	=	2	3			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 160.2	Suspended Solids	74	mg/L	=	2	3			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 415.1	Total Organic Carbon	25	mg/L	=	0.1	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 415.1	Total Organic Carbon	20	mg/L	=	0.1	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	10/20/09	15:20	EPA 415.1	Total Organic Carbon	52	mg/L	=	0.1	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 415.1	Total Organic Carbon	33	mg/L	=	0.1	0.5			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 180.1	Turbidity	2.9	NTU	=	0.02	0.05			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 180.1	Turbidity	1.2	NTU	=	0.02	0.05			None		DF=1
Mustang Creek @ East Ave	E	1.00	10/20/09	15:20	EPA 180.1	Turbidity	23	NTU	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 180.1	Turbidity	16	NTU	=	0.04	0.1			Analyte analyzed at a secondary dilution.		DF=2
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 200.8	Zinc (D)	7	µg/L	=	0.8	1			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 200.8	Zinc (D)	13	µg/L	=	0.8	1			None		DF=1
Mustang Creek @ East Ave	E	1.00	10/20/09	15:20	EPA 200.8	Zinc (D)	19	µg/L	=	0.8	1			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 200.8	Zinc (D)	7.4	µg/L	=	0.8	1			None		DF=1
Mustang Creek @ East Ave	E	1.00	02/07/09	15:30	EPA 200.8	Zinc (T)	8	µg/L	=	0.8	1			None		DF=1
Mustang Creek @ East Ave	E	1.00	03/17/09	14:20	EPA 200.8	Zinc (T)	16	µg/L	=	0.8	1			None		DF=1
Mustang Creek @ East Ave	E	1.00	10/20/09	15:20	EPA 200.8	Zinc (T)	24	µg/L	=	0.8	1			None		DF=1
Mustang Creek @ East Ave	E	1.00	12/15/09	13:30	EPA 200.8	Zinc (T)	9.2	µg/L	=	0.8	1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/21/08	13:50	EPA 350.2	Ammonia as N	0.18	mg/L	=	0.05	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/11/08	13:30	EPA 350.2	Ammonia as N	0.23	mg/L	=	0.05	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/16/08	11:10	EPA 350.2	Ammonia as N	0.34	mg/L	=	0.05	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	01/20/09	10:40	EPA 350.2	Ammonia as N	0.18	mg/L	=	0.05	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	02/07/09	13:10	EPA 350.2	Ammonia as N	0.56	mg/L	=	0.05	0.1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Prairie Flower Drain @ Crows Landing Rd	E	1.00	03/17/09	12:40	EPA 350.2	Ammonia as N	0.2	mg/L	=	0.05	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	04/21/09	14:20	EPA 350.2	Ammonia as N	0.23	mg/L	=	0.06	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	05/19/09	14:20	EPA 350.2	Ammonia as N	3.2	mg/L	=	0.06	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	06/16/09	13:40	EPA 350.2	Ammonia as N	1.3	mg/L	=	0.06	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	07/21/09	14:40	EPA 350.2	Ammonia as N	1.8	mg/L	=	0.06	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	08/18/09	16:40	EPA 350.2	Ammonia as N	0.12	mg/L	=	0.06	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	09/22/09	13:30	EPA 350.2	Ammonia as N	0.21	mg/L	=	0.06	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/20/09	14:00	EPA 350.2	Ammonia as N	0.23	mg/L	=	0.06	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/17/09	14:20	EPA 350.2	Ammonia as N	8.8	mg/L	=	0.06	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/15/09	12:00	EPA 350.2	Ammonia as N	0.31	mg/L	=	0.06	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/21/08	13:50	EPA 160.1	Dissolved Solids	1100	mg/L	=	4	10			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/11/08	13:30	EPA 160.1	Dissolved Solids	1500	mg/L	=	4	10			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/16/08	11:10	EPA 160.1	Dissolved Solids	2900	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Prairie Flower Drain @ Crows Landing Rd	E	1.00	01/20/09	10:40	EPA 160.1	Dissolved Solids	1500	mg/L	=	4	10			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	02/07/09	13:10	EPA 160.1	Dissolved Solids	1300	mg/L	=	4	10			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	03/17/09	12:40	EPA 160.1	Dissolved Solids	1400	mg/L	=	4	10			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	04/21/09	14:20	EPA 160.1	Dissolved Solids	1400	mg/L	=	4	10			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	05/19/09	14:20	EPA 160.1	Dissolved Solids	1200	mg/L	=	4	10			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	06/16/09	13:40	EPA 160.1	Dissolved Solids	1400	mg/L	=	4	10			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	07/21/09	14:40	EPA 160.1	Dissolved Solids	820	mg/L	=	4	10			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	08/18/09	16:40	EPA 160.1	Dissolved Solids	1200	mg/L	=	4	10			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	09/22/09	13:30	EPA 160.1	Dissolved Solids	1400	mg/L	=	8	20			Analyte analyzed at a secondary dilution.		DF=2
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/20/09	14:00	EPA 160.1	Dissolved Solids	1400	mg/L	=	4	10			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/17/09	14:20	EPA 160.1	Dissolved Solids	1500	mg/L	=	4	10			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/15/09	12:00	EPA 160.1	Dissolved Solids	1600	mg/L	=	4	10			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/21/08	13:50	SM 9223 B	E. coli	370	MPN/ 100 mL	=	1	1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/11/08	13:30	SM 9223 B	E. coli	210	MPN/ 100 mL	=	1	1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/16/08	11:10	SM 9223 B	E. coli	1300	MPN/ 100 mL	=	1	1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	01/20/09	10:40	SM 9223 B	E. coli	100	MPN/ 100 mL	=	1	1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	02/07/09	13:10	SM 9223 B	E. coli	74	MPN/ 100 mL	=	1	1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	03/17/09	12:40	SM 9223 B	E. coli	130	MPN/ 100 mL	=	1	1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	04/21/09	14:20	SM 9223 B	E. coli	410	MPN/ 100 mL	=	1	1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	05/19/09	14:20	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	06/16/09	13:40	SM 9223 B	E. coli	220	MPN/ 100 mL	=	1	1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	07/21/09	14:40	SM 9223 B	E. coli	160	MPN/ 100 mL	=	1	1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	08/18/09	16:40	SM 9223 B	E. coli	110	MPN/ 100 mL	=	1	1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	09/22/09	13:30	SM 9223 B	E. coli	1300	MPN/ 100 mL	=	1	1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/20/09	14:00	SM 9223 B	E. coli	1300	MPN/ 100 mL	=	1	1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/17/09	14:20	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/15/09	12:00	SM 9223 B	E. coli	2000	MPN/ 100 mL	=	1	1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/21/08	13:50	EPA 353.2	Nitrate + Nitrite as N	27	mg/L	=	0.48	1.2			Analyte analyzed at a secondary dilution.		DF=24
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/11/08	13:30	EPA 353.2	Nitrate + Nitrite as N	39	mg/L	=	0.04	0.1			Analyte analyzed at a secondary dilution.		DF=2
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/16/08	11:10	EPA 353.2	Nitrate + Nitrite as N	40	mg/L	=	0.48	1.2			Analyte analyzed at a secondary dilution.		DF=24
Prairie Flower Drain @ Crows Landing Rd	E	1.00	01/20/09	10:40	EPA 353.2	Nitrate + Nitrite as N	43	mg/L	=	0.48	1.2			Analyte analyzed at a secondary dilution.		DF=24

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Prairie Flower Drain @ Crows Landing Rd	E	1.00	02/07/09	13:10	EPA 353.2	Nitrate + Nitrite as N	31	mg/L	=	0.48	1.2			Analyte analyzed at a secondary dilution.		DF=24
Prairie Flower Drain @ Crows Landing Rd	E	1.00	03/17/09	12:40	EPA 353.2	Nitrate + Nitrite as N	34	mg/L	=	0.48	1.2			Analyte analyzed at a secondary dilution.		DF=24
Prairie Flower Drain @ Crows Landing Rd	E	1.00	04/21/09	14:20	EPA 353.2	Nitrate + Nitrite as N	24	mg/L	=	0.1	0.25			Analyte analyzed at a secondary dilution.		DF=5
Prairie Flower Drain @ Crows Landing Rd	E	1.00	05/19/09	14:20	EPA 353.2	Nitrate + Nitrite as N	20	mg/L	=	0.1	0.25			Analyte analyzed at a secondary dilution.		DF=5
Prairie Flower Drain @ Crows Landing Rd	E	1.00	06/16/09	13:40	EPA 353.2	Nitrate + Nitrite as N	22	mg/L	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Prairie Flower Drain @ Crows Landing Rd	E	1.00	07/21/09	14:40	EPA 353.2	Nitrate + Nitrite as N	14	mg/L	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Prairie Flower Drain @ Crows Landing Rd	E	1.00	08/18/09	16:40	EPA 353.2	Nitrate + Nitrite as N	22	mg/L	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Prairie Flower Drain @ Crows Landing Rd	E	1.00	09/22/09	13:30	EPA 353.2	Nitrate + Nitrite as N	35	mg/L	=	0.48	1			Analyte analyzed at a secondary dilution.		DF=24
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/20/09	14:00	EPA 353.2	Nitrate + Nitrite as N	25	mg/L	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/17/09	14:20	EPA 353.2	Nitrate + Nitrite as N	36	mg/L	=	0.48	1			Analyte analyzed at a secondary dilution.		DF=24
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/15/09	12:00	EPA 353.2	Nitrate + Nitrite as N	36	mg/L	=	0.48	1			Analyte analyzed at a secondary dilution.		DF=24
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/21/08	13:50	EPA 351.3	Nitrogen, Total Kjeldahl	1.4	mg/L	=	0.06	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/11/08	13:30	EPA 351.3	Nitrogen, Total Kjeldahl	1.9	mg/L	=	0.06	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/16/08	11:10	EPA 351.3	Nitrogen, Total Kjeldahl	2.1	mg/L	=	0.06	0.1			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Prairie Flower Drain @ Crows Landing Rd	E	1.00	01/20/09	10:40	EPA 351.3	Nitrogen, Total Kjeldahl	1.2	mg/L	=	0.06	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	02/07/09	13:10	EPA 351.3	Nitrogen, Total Kjeldahl	6.2	mg/L	=	0.06	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	03/17/09	12:40	EPA 351.3	Nitrogen, Total Kjeldahl	2.8	mg/L	=	0.06	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	04/21/09	14:20	EPA 351.3	Nitrogen, Total Kjeldahl	1.8	mg/L	=	0.06	0.1			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/21/08	13:50	EPA 365.2	OrthoPhosphate as P	1.3	mg/L	=	0.012	0.02			Analyte analyzed at a secondary dilution.		DF=2
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/11/08	13:30	EPA 365.2	OrthoPhosphate as P	1.9	mg/L	=	0.03	0.05			Analyte analyzed at a secondary dilution.		DF=5
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/16/08	11:10	EPA 365.2	OrthoPhosphate as P	1.4	mg/L	=	0.06	0.1			Analyte analyzed at a secondary dilution.		DF=10
Prairie Flower Drain @ Crows Landing Rd	E	1.00	01/20/09	10:40	EPA 365.2	OrthoPhosphate as P	1.4	mg/L	=	0.03	0.05			Analyte analyzed at secondary dilution; A holding time violation has occurred.		DF=5
Prairie Flower Drain @ Crows Landing Rd	E	1.00	02/07/09	13:10	EPA 365.2	OrthoPhosphate as P	0.91	mg/L	=	0.006	0.01			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	03/17/09	12:40	EPA 365.2	OrthoPhosphate as P	0.74	mg/L	=	0.006	0.01			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	04/21/09	14:20	EPA 365.2	OrthoPhosphate as P	1.4	mg/L	=	0.012	0.02			Analyte analyzed at a secondary dilution.		DF=2
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/21/08	13:50	EPA 365.2	Phosphate as P	1.3	mg/L	=	0.01	0.01			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/11/08	13:30	EPA 365.2	Phosphate as P	1.9	mg/L	=	0.01	0.01			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/16/08	11:10	EPA 365.2	Phosphate as P	1.6	mg/L	=	0.01	0.01			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	01/20/09	10:40	EPA 365.2	Phosphate as P	1.5	mg/L	=	0.01	0.01			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	02/07/09	13:10	EPA 365.2	Phosphate as P	1.7	mg/L	=	0.01	0.01			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	03/17/09	12:40	EPA 365.2	Phosphate as P	1	mg/L	=	0.01	0.01			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	04/21/09	14:20	EPA 365.2	Phosphate as P	1.4	mg/L	=	0.01	0.01			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Prairie Flower Drain @ Crows Landing Rd	E	1.00	05/19/09	14:20	EPA 365.2	Phosphate as P	3.1	mg/L	=	0.05	0.05			Analyte analyzed at a secondary dilution.		DF=5
Prairie Flower Drain @ Crows Landing Rd	E	1.00	06/16/09	13:40	EPA 365.2	Phosphate as P	1.8	mg/L	=	0.01	0.01			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	07/21/09	14:40	EPA 365.2	Phosphate as P	0.84	mg/L	=	0.01	0.01			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	08/18/09	16:40	EPA 365.2	Phosphate as P	1.1	mg/L	=	0.01	0.01			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	09/22/09	13:30	EPA 365.2	Phosphate as P	1.8	mg/L	=	0.01	0.01			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/20/09	14:00	EPA 365.2	Phosphate as P	1.7	mg/L	=	0.01	0.01			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/17/09	14:20	EPA 365.2	Phosphate as P	4.8	mg/L	=	0.05	0.05			Analyte analyzed at a secondary dilution.		DF=5
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/15/09	12:00	EPA 365.2	Phosphate as P	1.7	mg/L	=	0.01	0.01			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/21/08	13:50	EPA 160.2	Suspended Solids	12	mg/L	=	2	3			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/11/08	13:30	EPA 160.2	Suspended Solids	39	mg/L	=	2	3			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/16/08	11:10	EPA 160.2	Suspended Solids	6	mg/L	=	2	3			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	01/20/09	10:40	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	02/07/09	13:10	EPA 160.2	Suspended Solids	60	mg/L	=	4	6			Analyte analyzed at a secondary dilution.		DF=2
Prairie Flower Drain @ Crows Landing Rd	E	1.00	03/17/09	12:40	EPA 160.2	Suspended Solids	110	mg/L	=	2	3			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	04/21/09	14:20	EPA 160.2	Suspended Solids	22	mg/L	=	2	3			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	05/19/09	14:20	EPA 160.2	Suspended Solids	11	mg/L	=	2	3			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	06/16/09	13:40	EPA 160.2	Suspended Solids	14	mg/L	=	2	3			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	07/21/09	14:40	EPA 160.2	Suspended Solids	8.5	mg/L	=	1	3			None		DF=0
Prairie Flower Drain @ Crows Landing Rd	E	1.00	08/18/09	16:40	EPA 160.2	Suspended Solids	5	mg/L	=	2	3			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	09/22/09	13:30	EPA 160.2	Suspended Solids	22	mg/L	=	2	3			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/20/09	14:00	EPA 160.2	Suspended Solids	4	mg/L	=	2	3			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/17/09	14:20	EPA 160.2	Suspended Solids	45	mg/L	=	2	3			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/15/09	12:00	EPA 160.2	Suspended Solids	5	mg/L	=	2	3			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/21/08	13:50	EPA 415.1	Total Organic Carbon	13	mg/L	=	0.1	0.5			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/11/08	13:30	EPA 415.1	Total Organic Carbon	14	mg/L	=	0.1	0.5			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/16/08	11:10	EPA 415.1	Total Organic Carbon	16	mg/L	=	0.1	0.5			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	01/20/09	10:40	EPA 415.1	Total Organic Carbon	15	mg/L	=	0.1	0.5			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	02/07/09	13:10	EPA 415.1	Total Organic Carbon	19	mg/L	=	0.1	0.5			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	03/17/09	12:40	EPA 415.1	Total Organic Carbon	18	mg/L	=	0.1	0.5			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	04/21/09	14:20	EPA 415.1	Total Organic Carbon	15	mg/L	=	0.1	0.5			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	05/19/09	14:20	EPA 415.1	Total Organic Carbon	18	mg/L	=	0.1	0.5			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	06/16/09	13:40	EPA 415.1	Total Organic Carbon	26	mg/L	=	0.1	0.5			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	07/21/09	14:40	EPA 415.1	Total Organic Carbon	11	mg/L	=	0.1	0.5			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	08/18/09	16:40	EPA 415.1	Total Organic Carbon	11	mg/L	=	0.1	0.5			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	09/22/09	13:30	EPA 415.1	Total Organic Carbon	15	mg/L	=	0.1	0.5			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/20/09	14:00	EPA 415.1	Total Organic Carbon	14	mg/L	=	0.1	0.5			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/17/09	14:20	EPA 415.1	Total Organic Carbon	27	mg/L	=	0.1	0.5			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/15/09	12:00	EPA 415.1	Total Organic Carbon	16	mg/L	=	0.1	0.5			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/21/08	13:50	EPA 180.1	Turbidity	5.3	NTU	=	0.02	0.05			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/11/08	13:30	EPA 180.1	Turbidity	14	NTU	=	0.02	0.05			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/16/08	11:10	EPA 180.1	Turbidity	3.4	NTU	=	0.02	0.05			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	01/20/09	10:40	EPA 180.1	Turbidity	3.2	NTU	=	0.02	0.05			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	02/07/09	13:10	EPA 180.1	Turbidity	4.1	NTU	=	0.02	0.05			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	03/17/09	12:40	EPA 180.1	Turbidity	7.4	NTU	=	0.02	0.05			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	04/21/09	14:20	EPA 180.1	Turbidity	6.1	NTU	=	0.02	0.05			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	05/19/09	14:20	EPA 180.1	Turbidity	3.1	NTU	=	0.02	0.05			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	06/16/09	13:40	EPA 180.1	Turbidity	7.8	NTU	=	0.02	0.05			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Prairie Flower Drain @ Crows Landing Rd	E	1.00	07/21/09	14:40	EPA 180.1	Turbidity	3.6	NTU	=	0.02	0.05			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	08/18/09	16:40	EPA 180.1	Turbidity	2.6	NTU	=	0.02	0.05			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	09/22/09	13:30	EPA 180.1	Turbidity	4.4	NTU	=	0.02	0.05			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	10/20/09	14:00	EPA 180.1	Turbidity	6.3	NTU	=	0.02	0.05			None		DF=1
Prairie Flower Drain @ Crows Landing Rd	E	1.00	11/17/09	14:20	EPA 180.1	Turbidity	21	NTU	=	0.1	0.2			Analyte analyzed at a secondary dilution.		DF=5
Prairie Flower Drain @ Crows Landing Rd	E	1.00	12/15/09	12:00	EPA 180.1	Turbidity	1.8	NTU	=	0.02	0.05			None		DF=1

Table II - 4. ESJWQC calculated unionizd ammonia environmental results.

Samples are sorted by station name and sample date. Please refer to the Precision and Accuracy section of the AMR for a more detailed description of the unionized ammonia calculation.

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	pH, none	Temperature °C	Ammonia as N Result	Unit	Calculated Unionized Ammonia Result
Ash Slough @ Ave 21	E	05/19/09	11:30	Ammonia as N	7.63	26.86	<0.06	mg/L	NA
Cottonwood Creek @ Rd 20	E	02/07/09	09:30	Ammonia as N	8.18	8	0.23	mg/L	0.005409
Cottonwood Creek @ Rd 20	E	05/19/09	09:10	Ammonia as N	6.84	23.02	<0.06	mg/L	NA
Cottonwood Creek @ Rd 20	E	06/16/09	10:20	Ammonia as N	7.45	20.69	0.13	mg/L	0.001513
Cottonwood Creek @ Rd 20	E	08/18/09	10:40	Ammonia as N	7.17	23.6	<0.06	mg/L	NA
Cottonwood Creek @ Rd 20	E	10/20/09	09:30	Ammonia as N	7.36	15	<0.06	mg/L	NA
Cottonwood Creek @ Rd 20	E	11/17/09	09:40	Ammonia as N	7.5	10.13	<0.06	mg/L	NA
Cottonwood Creek @ Rd 20	E	12/15/09	10:00	Ammonia as N	8.37	8.34	0.16	mg/L	0.005905
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Ammonia as N	8.12	15.62	0.12	mg/L	0.004374
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Ammonia as N	8.32	13.7	0.14	mg/L	0.006899
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Ammonia as N	7.86	8.26	0.55	mg/L	0.006397
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Ammonia as N	7.85	10.28	5.5	mg/L	0.073171
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Ammonia as N	7.81	11.49	50	mg/L	0.666595
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Ammonia as N	7.99	14.8	0.22	mg/L	0.005650
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Ammonia as N	7.89	22.62	0.14	mg/L	0.005032
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Ammonia as N	7.72	25.63	<0.06	mg/L	NA
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	Ammonia as N	7.75	21.64	0.18	mg/L	0.004419
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	Ammonia as N	7.5	24.35	0.16	mg/L	0.002703
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	Ammonia as N	7.5	25.42	<0.06	mg/L	NA
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	Ammonia as N	7.88	24.84	<0.06	mg/L	NA
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	Ammonia as N	7.3	17.93	0.099	mg/L	0.000669
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	Ammonia as N	8.37	9.92	0.3	mg/L	0.012480
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Ammonia as N	8	11.7	15	mg/L	0.312420
Dry Creek @ Wellsford Rd	E	10/21/08	08:50	Ammonia as N	7.83	13.12	0.077	mg/L	0.001216
Dry Creek @ Wellsford Rd	E	11/11/08	09:30	Ammonia as N	6.65	10.34	0.088	mg/L	0.000075
Dry Creek @ Wellsford Rd	E	12/16/08	09:20	Ammonia as N	8.86	6.76	0.13	mg/L	0.012289
Dry Creek @ Wellsford Rd	E	01/20/09	09:10	Ammonia as N	6.87	6.36	0.066	mg/L	0.000068
Dry Creek @ Wellsford Rd	E	02/07/09	11:10	Ammonia as N	7.26	11.62	0.21	mg/L	0.000805
Dry Creek @ Wellsford Rd	E	03/17/09	10:50	Ammonia as N	7.6	13.89	0.055	mg/L	0.000546
Dry Creek @ Wellsford Rd	E	04/21/09	11:20	Ammonia as N	7.09	20.49	0.099	mg/L	0.000499
Dry Creek @ Wellsford Rd	E	05/19/09	11:30	Ammonia as N	7.42	23.81	<0.06	mg/L	NA

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	pH, none	Temperature °C	Ammonia as N Result	Unit	Calculated Unionized Ammonia Result
Dry Creek @ Wellsford Rd	E	06/16/09	10:50	Ammonia as N	7.35	20.26	0.22	mg/L	0.001976
Dry Creek @ Wellsford Rd	E	07/21/09	10:50	Ammonia as N	7.22	23.78	0.59	mg/L	0.005066
Dry Creek @ Wellsford Rd	E	08/18/09	12:30	Ammonia as N	7.55	22.32	0.077	mg/L	0.001263
Dry Creek @ Wellsford Rd	E	09/22/09	11:00	Ammonia as N	7.76	21.22	0.21	mg/L	0.005118
Dry Creek @ Wellsford Rd	E	10/20/09	11:10	Ammonia as N	7.51	15.11	0.58	mg/L	0.005137
Dry Creek @ Wellsford Rd	E	11/17/09	12:20	Ammonia as N	7.38	9.09	0.088	mg/L	0.000365
Dry Creek @ Wellsford Rd	E	12/15/09	09:50	Ammonia as N	7.04	8.18	0.23	mg/L	0.000406
Duck Slough @ Gurr Rd	E	12/16/08	14:00	Ammonia as N	8.14	9.91	0.38	mg/L	0.009463
Duck Slough @ Gurr Rd	E	01/20/09	13:50	Ammonia as N	8.11	13.25	0.055	mg/L	0.001647
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Ammonia as N	7.9	11.74	0.43	mg/L	0.007166
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Ammonia as N	9.7	13.96	0.077	mg/L	0.043053
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Ammonia as N	7.98	22.18	0.066	mg/L	0.002808
Duck Slough @ Gurr Rd	E	05/19/09	13:40	Ammonia as N	7.84	23.89	<0.06	mg/L	NA
Duck Slough @ Gurr Rd	E	06/16/09	12:30	Ammonia as N	8.25	21.87	0.32	mg/L	0.023955
Duck Slough @ Gurr Rd	E	07/21/09	13:20	Ammonia as N	7.81	25.08	<0.06	mg/L	NA
Duck Slough @ Gurr Rd	E	08/18/09	15:40	Ammonia as N	7.63	26.08	<0.06	mg/L	NA
Duck Slough @ Gurr Rd	E	09/22/09	14:50	Ammonia as N	9.03	25.72	<0.06	mg/L	NA
Duck Slough @ Gurr Rd	E	10/20/09	12:30	Ammonia as N	7.4	18.1	<0.06	mg/L	NA
Duck Slough @ Gurr Rd	E	11/17/09	12:10	Ammonia as N	8.27	12.22	0.32	mg/L	0.012672
Duck Slough @ Gurr Rd	E	12/15/09	14:40	Ammonia as N	8.07	10.37	0.2	mg/L	0.004408
Highline Canal @ Hwy 99	E	02/07/09	14:20	Ammonia as N	8.86	14	0.27	mg/L	0.041936
Highline Canal @ Hwy 99	E	04/21/09	15:50	Ammonia as N	8	23.37	<0.06	mg/L	NA
Highline Canal @ Hwy 99	E	05/19/09	15:40	Ammonia as N	8.45	24.58	<0.06	mg/L	NA
Highline Canal @ Hwy 99	E	06/16/09	14:20	Ammonia as N	8.95	21.59	0.088	mg/L	0.025027
Highline Canal @ Hwy 99	E	07/21/09	08:30	Ammonia as N	7.31	21.9	0.12	mg/L	0.001107
Highline Canal @ Hwy 99	E	08/18/09	18:00	Ammonia as N	9.03	24.8	0.11	mg/L	0.041301
Highline Canal @ Hwy 99	E	09/22/09	16:10	Ammonia as N	8.61	25.34	<0.06	mg/L	NA
Highline Canal @ Hwy 99	E	10/20/09	15:10	Ammonia as N	7.01	18.41	<0.06	mg/L	NA
Highline Canal @ Hwy 99	E	12/15/09	15:50	Ammonia as N	8.61	10.67	0.44	mg/L	0.032588
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Ammonia as N	7.16	25.2	0.54	mg/L	0.004468
Howard Lateral @ Hwy 140	E	05/19/09	14:40	Ammonia as N	8.29	23.62	<0.06	mg/L	NA
Howard Lateral @ Hwy 140	E	06/16/09	13:30	Ammonia as N	8.49	24.23	0.18	mg/L	0.025694
Howard Lateral @ Hwy 140	E	07/21/09	15:30	Ammonia as N	8.88	25.91	<0.06	mg/L	NA
Howard Lateral @ Hwy 140	E	08/18/09	16:30	Ammonia as N	9.14	28.18	<0.06	mg/L	NA
Howard Lateral @ Hwy 140	E	09/22/09	17:00	Ammonia as N	9.15	28.27	0.066	mg/L	0.033169
Howard Lateral @ Hwy 140	E	10/20/09	13:50	Ammonia as N	7.27	17.22	0.077	mg/L	0.000461

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	pH, none	Temperature °C	Ammonia as N Result	Unit	Calculated Unionized Ammonia Result
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	Ammonia as N	9.57	19.31	0.088	mg/L	0.051380
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	Ammonia as N	9.09	10.2	0.65	mg/L	0.122766
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	Ammonia as N	9.2	22.36	<0.06	mg/L	NA
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	Ammonia as N	7.96	23.83	<0.06	mg/L	NA
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	Ammonia as N	8.31	22.07	0.15	mg/L	0.012921
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	Ammonia as N	8.4	26.35	0.11	mg/L	0.014942
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	Ammonia as N	7.87	23.28	<0.06	mg/L	NA
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	Ammonia as N	8.32	24.08	<0.06	mg/L	NA
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	Ammonia as N	8.68	19.67	0.077	mg/L	0.012053
Merced River @ Santa Fe	E	10/21/08	15:00	Ammonia as N	7.94	17.09	<0.05	mg/L	NA
Merced River @ Santa Fe	E	11/11/08	13:00	Ammonia as N	8.05	14.07	<0.05	mg/L	NA
Merced River @ Santa Fe	E	12/16/08	13:00	Ammonia as N	7.17	9.04	<0.05	mg/L	NA
Merced River @ Santa Fe	E	01/20/09	14:10	Ammonia as N	7.39	10.36	<0.05	mg/L	NA
Merced River @ Santa Fe	E	02/07/09	14:20	Ammonia as N	7.54	12.52	<0.05	mg/L	NA
Merced River @ Santa Fe	E	03/17/09	13:20	Ammonia as N	7.58	16.04	<0.05	mg/L	NA
Merced River @ Santa Fe	E	04/21/09	15:50	Ammonia as N	7.59	22.31	<0.06	mg/L	NA
Merced River @ Santa Fe	E	05/19/09	15:30	Ammonia as N	7.7	24.78	<0.06	mg/L	NA
Merced River @ Santa Fe	E	06/16/09	14:40	Ammonia as N	7.35	22.23	0.088	mg/L	0.000911
Merced River @ Santa Fe	E	07/21/09	15:40	Ammonia as N	7.69	28.98	0.066	mg/L	0.002342
Merced River @ Santa Fe	E	08/18/09	18:00	Ammonia as N	7.55	27.19	<0.06	mg/L	NA
Merced River @ Santa Fe	E	09/22/09	15:10	Ammonia as N	7.73	25.5	<0.06	mg/L	NA
Merced River @ Santa Fe	E	10/20/09	15:50	Ammonia as N	6.89	18.54	<0.06	mg/L	NA
Merced River @ Santa Fe	E	11/17/09	14:30	Ammonia as N	7.02	11.59	0.066	mg/L	0.000145
Merced River @ Santa Fe	E	12/15/09	14:40	Ammonia as N	7.32	11.04	0.18	mg/L	0.000757
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Ammonia as N	4.32	9.63	0.38	mg/L	0.000001
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Ammonia as N	7.89	4.78	0.13	mg/L	0.001228
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Ammonia as N	8.03	12.18	0.4	mg/L	0.009243
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Ammonia as N	7.97	13.73	0.74	mg/L	0.016782
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Ammonia as N	6.89	18.56	0.35	mg/L	0.000968
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	Ammonia as N	7.32	19.29	0.13	mg/L	0.001016
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	Ammonia as N	7.13	19.8	0.45	mg/L	0.002364
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	Ammonia as N	6.64	21.33	0.33	mg/L	0.000629
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	Ammonia as N	7.13	20.53	0.38	mg/L	0.002105
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	Ammonia as N	6.76	20.02	0.4	mg/L	0.000914
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	Ammonia as N	8.28	15	1.2	mg/L	0.059511
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	Ammonia as N	7.19	8.1	2.1	mg/L	0.005204

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	pH, none	Temperature °C	Ammonia as N Result	Unit	Calculated Unionized Ammonia Result
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Ammonia as N	6.55	9.05	0.6	mg/L	0.000368
Mustang Creek @ East Ave	E	02/07/09	15:30	Ammonia as N	7.44	13.76	0.2	mg/L	0.001363
Mustang Creek @ East Ave	E	03/17/09	14:20	Ammonia as N	7.56	19.83	0.2	mg/L	0.002809
Mustang Creek @ East Ave	E	10/20/09	15:20	Ammonia as N	7.6	14.78	2.3	mg/L	0.024399
Mustang Creek @ East Ave	E	12/15/09	13:30	Ammonia as N	7.59	10.42	0.86	mg/L	0.006394
Prairie Flower Drain @ Crows Landing Rd	E	10/21/08	13:50	Ammonia as N	7.77	18.44	0.18	mg/L	0.003677
Prairie Flower Drain @ Crows Landing Rd	E	11/11/08	13:30	Ammonia as N	8.13	15.23	0.23	mg/L	0.008332
Prairie Flower Drain @ Crows Landing Rd	E	12/16/08	11:10	Ammonia as N	8.05	7.1	0.34	mg/L	0.005557
Prairie Flower Drain @ Crows Landing Rd	E	01/20/09	10:40	Ammonia as N	8.03	4.56	0.18	mg/L	0.002297
Prairie Flower Drain @ Crows Landing Rd	E	02/07/09	13:10	Ammonia as N	8.48	10.56	0.56	mg/L	0.031094
Prairie Flower Drain @ Crows Landing Rd	E	03/17/09	12:40	Ammonia as N	8.74	14.98	0.2	mg/L	0.026127
Prairie Flower Drain @ Crows Landing Rd	E	04/21/09	14:20	Ammonia as N	8.01	27.34	0.23	mg/L	0.014769
Prairie Flower Drain @ Crows Landing Rd	E	05/19/09	14:20	Ammonia as N	7.65	28.92	3.2	mg/L	0.103470
Prairie Flower Drain @ Crows Landing Rd	E	06/16/09	13:40	Ammonia as N	7.96	26.2	1.3	mg/L	0.069492
Prairie Flower Drain @ Crows Landing Rd	E	07/21/09	14:40	Ammonia as N	8.02	26.28	1.8	mg/L	0.110185
Prairie Flower Drain @ Crows Landing Rd	E	08/18/09	16:40	Ammonia as N	7.92	24.88	0.12	mg/L	0.005379
Prairie Flower Drain @ Crows Landing Rd	E	09/22/09	13:30	Ammonia as N	7.86	24.72	0.21	mg/L	0.008158
Prairie Flower Drain @ Crows Landing Rd	E	10/20/09	14:00	Ammonia as N	8.5	19.5	0.23	mg/L	0.024844
Prairie Flower Drain @ Crows Landing Rd	E	11/17/09	14:20	Ammonia as N	7.66	12.3	8.8	mg/L	0.088717
Prairie Flower Drain @ Crows Landing Rd	E	12/15/09	12:00	Ammonia as N	8.06	10.42	0.31	mg/L	0.006705

Table II - 5. ESJWQC environmental sample results for inorganic sediment analysis including grain size and TOC.

For sample with an RPD (*) please refer to the Precision and Accuracy section of the AMR for a more detailed analysis. Samples are sorted by station name, sample date, analyte and fraction.

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Fraction Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Cottonwood Creek @ Rd 20	SED	1.00	08/18/09	10:40	ASTM D422	None	Clay <0.005 mm	9.42	%	=	0.01	0.01			None		DF=1
Cottonwood Creek @ Rd 20	SED	1.00	08/18/09	10:40	ASTM D422	None	Gravel 4.75 to <75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Cottonwood Creek @ Rd 20	SED	1.00	08/18/09	10:40	ASTM D422	Coarse 2.0 to <4.75 mm	Sand 0.075 to <4.75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Cottonwood Creek @ Rd 20	SED	1.00	08/18/09	10:40	ASTM D422	Fine 0.075 to <0.425 mm	Sand 0.075 to <4.75 mm	28.91	%	=	0.01	0.01			None		DF=1
Cottonwood Creek @ Rd 20	SED	1.00	08/18/09	10:40	ASTM D422	Medium 0.425 to <2.0 mm	Sand 0.075 to <4.75 mm	32.96	%	=	0.01	0.01			None		DF=1
Cottonwood Creek @ Rd 20	SED	1.00	08/18/09	10:40	ASTM D422	None	Silt 0.005 to <0.075 mm	28.70	%	=	0.01	0.01			None		DF=1
Cottonwood Creek @ Rd 20	SED	1.00	08/18/09	10:40	Walkley - Black	None	Total Organic Carbon	4500	mg/Kg dw	=	100	200			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	SED	1.00	04/21/09	12:00	ASTM D422	None	Clay <0.005 mm	3.61	%	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	SED	1.00	04/21/09	12:00	ASTM D422	None	Gravel 4.75 to <75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	SED	1.00	04/21/09	12:00	ASTM D422	Coarse 2.0 to <4.75 mm	Sand 0.075 to <4.75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	SED	1.00	04/21/09	12:00	ASTM D422	Fine 0.075 to <0.425 mm	Sand 0.075 to <4.75 mm	45.41	%	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	SED	1.00	04/21/09	12:00	ASTM D422	Medium 0.425 to <2.0 mm	Sand 0.075 to <4.75 mm	20.49	%	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	SED	1.00	04/21/09	12:00	ASTM D422	None	Silt 0.005 to <0.075 mm	30.48	%	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	SED	1.00	04/21/09	12:00	Walkley - Black	None	Total Organic Carbon	16600	mg/Kg dw	=	100	200			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	SED	1.00	08/18/09	14:20	ASTM D422	None	Clay <0.005 mm	9.61	%	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	SED	1.00	08/18/09	14:20	ASTM D422	None	Gravel 4.75 to <75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	SED	1.00	08/18/09	14:20	ASTM D422	Coarse 2.0 to <4.75 mm	Sand 0.075 to <4.75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	SED	1.00	08/18/09	14:20	ASTM D422	Fine 0.075 to <0.425 mm	Sand 0.075 to <4.75 mm	38.83	%	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	SED	1.00	08/18/09	14:20	ASTM D422	Medium 0.425 to <2.0 mm	Sand 0.075 to <4.75 mm	20.95	%	=	0.01	0.01			None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	SED	1.00	08/18/09	14:20	ASTM D422	None	Silt 0.005 to <0.075 mm	30.61	%	=	0.01	0.01			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Fraction Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	SED	1.00	08/18/09	14:20	Walkley - Black	None	Total Organic Carbon	3550	mg/Kg dw	=	100	200			None		DF=1
Howard Lateral @ Hwy 140	SED	1.00	04/21/09	14:30	ASTM D422	None	Clay <0.005 mm	1.41	%	=	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	SED	1.00	04/21/09	14:30	ASTM D422	None	Gravel 4.75 to <75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	SED	1.00	04/21/09	14:30	ASTM D422	Coarse 2.0 to <4.75 mm	Sand 0.075 to <4.75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	SED	1.00	04/21/09	14:30	ASTM D422	Fine 0.075 to <0.425 mm	Sand 0.075 to <4.75 mm	71.77	%	=	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	SED	1.00	04/21/09	14:30	ASTM D422	Medium 0.425 to <2.0 mm	Sand 0.075 to <4.75 mm	11.06	%	=	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	SED	1.00	04/21/09	14:30	ASTM D422	None	Silt 0.005 to <0.075 mm	15.75	%	=	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	SED	1.00	04/21/09	14:30	Walkley - Black	None	Total Organic Carbon	11900	mg/Kg dw	=	100	200			None		DF=1
Howard Lateral @ Hwy 140	SED	1.00	08/18/09	16:30	ASTM D422	None	Clay <0.005 mm	8.38	%	=	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	SED	1.00	08/18/09	16:30	ASTM D422	None	Gravel 4.75 to <75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	SED	1.00	08/18/09	16:30	ASTM D422	Coarse 2.0 to <4.75 mm	Sand 0.075 to <4.75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	SED	1.00	08/18/09	16:30	ASTM D422	Fine 0.075 to <0.425 mm	Sand 0.075 to <4.75 mm	34.88	%	=	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	SED	1.00	08/18/09	16:30	ASTM D422	Medium 0.425 to <2.0 mm	Sand 0.075 to <4.75 mm	14.25	%	=	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	SED	1.00	08/18/09	16:30	ASTM D422	None	Silt 0.005 to <0.075 mm	42.48	%	=	0.01	0.01			None		DF=1
Howard Lateral @ Hwy 140	SED	1.00	08/18/09	16:30	Walkley - Black	None	Total Organic Carbon	32200	mg/Kg dw	=	100	200			None		DF=1
Lateral 2 1/2 near Keys Rd	SED	1.00	04/21/09	12:50	ASTM D422	None	Clay <0.005 mm	2.29	%	=	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	SED	1.00	04/21/09	12:50	ASTM D422	None	Gravel 4.75 to <75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	SED	1.00	04/21/09	12:50	ASTM D422	Coarse 2.0 to <4.75 mm	Sand 0.075 to <4.75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	SED	1.00	04/21/09	12:50	ASTM D422	Fine 0.075 to <0.425 mm	Sand 0.075 to <4.75 mm	44.9	%	=	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	SED	1.00	04/21/09	12:50	ASTM D422	Medium 0.425 to <2.0 mm	Sand 0.075 to <4.75 mm	28.17	%	=	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	SED	1.00	04/21/09	12:50	ASTM D422	None	Silt 0.005 to <0.075 mm	24.65	%	=	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	SED	1.00	04/21/09	12:50	Walkley - Black	None	Total Organic Carbon	38100	mg/Kg dw	=	100	200			None		DF=1
Lateral 2 1/2 near Keys Rd	SED	1.00	08/18/09	15:10	ASTM D422	None	Clay <0.005 mm	1.25	%	=	0.01	0.01			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Fraction Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	SED	1.00	08/18/09	15:10	ASTM D422	None	Gravel 4.75 to <75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	SED	1.00	08/18/09	15:10	ASTM D422	Coarse 2.0 to <4.75 mm	Sand 0.075 to <4.75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	SED	1.00	08/18/09	15:10	ASTM D422	Fine 0.075 to <0.425 mm	Sand 0.075 to <4.75 mm	55.78	%	=	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	SED	1.00	08/18/09	15:10	ASTM D422	Medium 0.425 to <2.0 mm	Sand 0.075 to <4.75 mm	39.17	%	=	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	SED	1.00	08/18/09	15:10	ASTM D422	None	Silt 0.005 to <0.075 mm	3.81	%	=	0.01	0.01			None		DF=1
Lateral 2 1/2 near Keys Rd	SED	1.00	08/18/09	15:10	Walkley - Black	None	Total Organic Carbon	1250	mg/Kg dw	=	100	200			None		DF=1
Mootz Drain @ Langworth Rd	SED	1.00	04/21/09	09:00	ASTM D422	None	Clay <0.005 mm	5.15	%	=	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	SED	1.00	04/21/09	09:00	ASTM D422	None	Gravel 4.75 to <75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	SED	1.00	04/21/09	09:00	ASTM D422	Coarse 2.0 to <4.75 mm	Sand 0.075 to <4.75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	SED	1.00	04/21/09	09:00	ASTM D422	Fine 0.075 to <0.425 mm	Sand 0.075 to <4.75 mm	34.96	%	=	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	SED	1.00	04/21/09	09:00	ASTM D422	Medium 0.425 to <2.0 mm	Sand 0.075 to <4.75 mm	30.98	%	=	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	SED	1.00	04/21/09	09:00	ASTM D422	None	Silt 0.005 to <0.075 mm	28.92	%	=	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	SED	1.00	04/21/09	09:00	Walkley - Black	None	Total Organic Carbon	11100	mg/Kg dw	=	100	200			Field duplicate RPD above QC limit.		DF=1
Mootz Drain @ Langworth Rd	SED	2.00	08/18/09	09:30	ASTM D422	None	Clay <0.005 mm	7.87	%	=	0.01	0.01	10.52	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED	1.00	08/18/09	09:30	ASTM D422	None	Clay <0.005 mm	10.52	%	=	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	SED	2.00	08/18/09	09:30	ASTM D422	None	Gravel 4.75 to <75 mm	<0.01	%	ND	0.01	0.01	<0.01	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED	1.00	08/18/09	09:30	ASTM D422	None	Gravel 4.75 to <75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	SED	1.00	08/18/09	09:30	ASTM D422	Coarse 2.0 to <4.75 mm	Sand 0.075 to <4.75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	SED	2.00	08/18/09	09:30	ASTM D422	Coarse 2.0 to <4.75 mm	Sand 0.075 to <4.75 mm	<0.01	%	ND	0.01	0.01	<0.01	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED	1.00	08/18/09	09:30	ASTM D422	Fine 0.075 to <0.425 mm	Sand 0.075 to <4.75 mm	24.31	%	=	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	SED	2.00	08/18/09	09:30	ASTM D422	Fine 0.075 to <0.425 mm	Sand 0.075 to <4.75 mm	25.81	%	=	0.01	0.01	24.31	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED	1.00	08/18/09	09:30	ASTM D422	Medium 0.425 to <2.0 mm	Sand 0.075 to <4.75 mm	46.26	%	=	0.01	0.01			None		DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Fraction Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	SED	2.00	08/18/09	09:30	ASTM D422	Medium 0.425 to <2.0 mm	Sand 0.075 to <4.75 mm	49.34	%	=	0.01	0.01	46.26	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED	2.00	08/18/09	09:30	ASTM D422	None	Silt 0.005 to <0.075 mm	16.98	%	=	0.01	0.01	18.91	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED	1.00	08/18/09	09:30	ASTM D422	None	Silt 0.005 to <0.075 mm	18.91	%	=	0.01	0.01			None		DF=1
Mootz Drain @ Langworth Rd	SED	1.00	08/18/09	09:30	Walkley - Black	None	Total Organic Carbon	3750	mg/Kg dw	=	100	200			None		DF=1
Mootz Drain @ Langworth Rd	SED	2.00	08/18/09	09:30	Walkley - Black	None	Total Organic Carbon	3250	mg/Kg dw	=	100	200	3750	RPD 14.3	None	RSD <20	DF=1
Mustang Creek @ East Ave	SED	1.00	04/21/09	17:00	ASTM D422	None	Clay <0.005 mm	2.61	%	=	0.01	0.01			None		DF=1
Mustang Creek @ East Ave	SED	1.00	04/21/09	17:00	ASTM D422	None	Gravel 4.75 to <75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Mustang Creek @ East Ave	SED	1.00	04/21/09	17:00	ASTM D422	Coarse 2.0 to <4.75 mm	Sand 0.075 to <4.75 mm	<0.01	%	ND	0.01	0.01			None		DF=1
Mustang Creek @ East Ave	SED	1.00	04/21/09	17:00	ASTM D422	Fine 0.075 to <0.425 mm	Sand 0.075 to <4.75 mm	44.25	%	=	0.01	0.01			None		DF=1
Mustang Creek @ East Ave	SED	1.00	04/21/09	17:00	ASTM D422	Medium 0.425 to <2.0 mm	Sand 0.075 to <4.75 mm	36.23	%	=	0.01	0.01			None		DF=1
Mustang Creek @ East Ave	SED	1.00	04/21/09	17:00	ASTM D422	None	Silt 0.005 to <0.075 mm	16.91	%	=	0.01	0.01			None		DF=1
Mustang Creek @ East Ave	SED	1.00	04/21/09	17:00	Walkley - Black	None	Total Organic Carbon	75900	mg/Kg dw	=	100	200			None		DF=1

Table II - 6. ESJWQC water toxicity testing results.

Results for *Ceriodaphnia dubia, Pimephales promelas* and *Selenastrum capricornutum* samples collected October 2008 through December 2009. Toxicity tests are initiated within 36 hours of sampling. Samples are sorted by station name, species and sample date.

Station Name	Sample Type Code	Sample Date	Sample Time	Matrix	Toxicity Start Date	Species	Toxicity End Point	Control Mean	Sample Mean	Percent Control	Toxicity Significance	Toxicity Test Comments
Ash Slough @ Ave 21	E	05/19/09	11:30	water	05/20/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Ash Slough @ Ave 21	E	05/19/09	11:30	water	05/20/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Ash Slough @ Ave 21	E	05/19/09	11:30	water	05/20/09	*Selenastrum capricornutum*	Total Cell Count	817147	2070899	253	NSG	
Cottonwood Creek @ Rd 20	E	05/19/09	09:10	water	05/20/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Cottonwood Creek @ Rd 20	E	06/16/09	10:20	water	06/17/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Cottonwood Creek @ Rd 20	E	08/18/09	10:40	water	08/19/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Cottonwood Creek @ Rd 20	E	10/20/09	09:30	water	10/21/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Cottonwood Creek @ Rd 20	E	11/17/09	09:40	water	11/18/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Cottonwood Creek @ Rd 20	E	12/15/09	10:00	water	12/16/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Cottonwood Creek @ Rd 20	E	05/19/09	09:10	water	05/20/09	*Selenastrum capricornutum*	Total Cell Count	817147	2767790	339	NSG	
Cottonwood Creek @ Rd 20	E	06/16/09	10:20	water	06/17/09	*Selenastrum capricornutum*	Total Cell Count	436136	4321141	991	NSG	Absorbance values converted to cells/mL.
Cottonwood Creek @ Rd 20	E	08/18/09	10:40	water	08/19/09	*Selenastrum capricornutum*	Total Cell Count	563140	4767281	847	NSG	
Cottonwood Creek @ Rd 20	E	10/20/09	09:30	water	10/21/09	*Selenastrum capricornutum*	Total Cell Count	374263	3708919	991	NSG	
Cottonwood Creek @ Rd 20	E	11/17/09	09:40	water	11/18/09	*Selenastrum capricornutum*	Total Cell Count	524062	1702915	325	NSG	
Cottonwood Creek @ Rd 20	E	12/15/09	10:00	water	12/16/09	*Selenastrum capricornutum*	Total Cell Count	468701	2123003	453	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	water	10/22/08	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	water	11/12/08	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	water	12/17/08	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	water	01/21/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	water	02/08/09	*Ceriodaphnia dubia*	Survival (%)	100	0	0	SL	Complete mortatity on Day 1; A TIE was conducted on 02/17/09 and it was concluded that ammonia was the cause of toxicity.

Station Name	Sample Type Code	Sample Date	Sample Time	Matrix	Toxicity Start Date	Species	Toxicity End Point	Control Mean	Sample Mean	Percent Control	Toxicity Significance	Toxicity Test Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	water	03/18/09	*Ceriodaphnia dubia*	Survival (%)	100	10	10	SL	A TIE was conducted on 3/25/09 and it was concluded that pyrethroids were the cause of toxicity.
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	water	04/22/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	water	05/20/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	water	06/17/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	water	07/22/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	water	08/19/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	water	09/23/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	water	10/21/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	water	11/18/09	*Ceriodaphnia dubia*	Survival (%)	100	95	95	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	water	12/16/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	water	10/22/08	*Pimephales promelas*	Survival (%)	97.5	92.5	95	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	water	11/12/08	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	water	12/17/08	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	water	01/21/09	*Pimephales promelas*	Survival (%)	100	87.5	87.5	SG	
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	water	02/08/09	*Pimephales promelas*	Survival (%)	100	0	0	SL	Due to low and unstable dissolved oxygen the sample was aerated throughout test; Complete mortatity on Day 1; A TIE was conducted on 02/17/09 and it was concluded that ammonia was the cause of toxicity.
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	water	03/18/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	water	04/22/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	water	05/20/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	water	06/17/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	water	07/22/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	water	08/19/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	water	09/23/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	

Station Name	Sample Type Code	Sample Date	Sample Time	Matrix	Toxicity Start Date	Species	Toxicity End Point	Control Mean	Sample Mean	Percent Control	Toxicity Significance	Toxicity Test Comments
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	water	10/21/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	water	11/18/09	*Pimephales promelas*	Survival (%)	100	97.5	97.5	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	water	12/16/09	*Pimephales promelas*	Survival (%)	100	75	75	SL	
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	water	10/22/08	*Selenastrum capricornutum*	Total Cell Count	667348	2263033	339	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	water	11/12/08	*Selenastrum capricornutum*	Total Cell Count	540344	1807123	334	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	water	12/17/08	*Selenastrum capricornutum*	Total Cell Count	1116745	3373499	302	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	water	01/21/09	*Selenastrum capricornutum*	Total Cell Count	546857	1321904	242	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	water	02/08/09	*Selenastrum capricornutum*	Total Cell Count	852968	60069	7	SL	A TIE was conducted on 02/17/09 and it was concluded that ammonia was the cause of toxicity.
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	water	03/18/09	*Selenastrum capricornutum*	Total Cell Count	585935	1235666	211	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	water	04/22/09	*Selenastrum capricornutum*	Total Cell Count	647809	3741484	578	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	water	05/20/09	*Selenastrum capricornutum*	Total Cell Count	817147	3054362	374	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	water	06/17/09	*Selenastrum capricornutum*	Total Cell Count	436136	3793588	870	NSG	Absorbance values converted to cells/mL.
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	water	07/22/09	*Selenastrum capricornutum*	Total Cell Count	211438	3669841	1736	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	water	08/19/09	*Selenastrum capricornutum*	Total Cell Count	563140	4282063	760	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	water	09/23/09	*Selenastrum capricornutum*	Total Cell Count	641296	2868742	447	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	water	10/21/09	*Selenastrum capricornutum*	Total Cell Count	374263	3708919	991	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	water	11/18/09	*Selenastrum capricornutum*	Total Cell Count	524062	3145544	600	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	water	12/16/09	*Selenastrum capricornutum*	Total Cell Count	468701	1608476	343	NSG	
Duck Slough @ Hwy 99	MPM	04/21/09	10:40	water	04/22/09	*Selenastrum capricornutum*	Total Cell Count	647809	1435882	222	NSG	
Highline Canal @ Hwy 99	MPM	04/21/09	15:50	water	04/22/09	*Selenastrum capricornutum*	Total Cell Count	722708	3090184	428	NSG	
Highline Canal @ Hwy 99	MPM	05/19/09	15:40	water	05/20/09	*Selenastrum capricornutum*	Total Cell Count	892046	1982974	222	NSG	
Highline Canal @ Lombardy Rd	MPM	07/21/09	16:40	water	07/22/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Highline Canal @ Lombardy Rd	MPM	08/18/09	18:20	water	08/19/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Highline Canal @ Lombardy Rd	MPM	05/19/09	16:00	water	05/20/09	*Selenastrum capricornutum*	Total Cell Count	817147	1142797	140	NSG	

Station Name	Sample Type Code	Sample Date	Sample Time	Matrix	Toxicity Start Date	Species	Toxicity End Point	Control Mean	Sample Mean	Percent Control	Toxicity Significance	Toxicity Test Comments
Hilmar Drain @ Central Ave	MPM	04/21/09	14:50	water	04/22/09	*Selenastrum capricornutum*	Total Cell Count	647809	2048104	316	NSG	
Hilmar Drain @ Central Ave	MPM	09/22/09	14:10	water	09/23/09	*Selenastrum capricornutum*	Total Cell Count	641296	1419599	221	NSG	
Howard Lateral @ Hwy 140	E	04/21/09	14:30	water	04/22/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Howard Lateral @ Hwy 140	E	05/19/09	14:40	water	05/20/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Howard Lateral @ Hwy 140	E	06/16/09	13:30	water	06/17/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Howard Lateral @ Hwy 140	E	07/21/09	15:30	water	07/22/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Howard Lateral @ Hwy 140	E	08/18/09	16:30	water	08/19/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Howard Lateral @ Hwy 140	E	09/22/09	17:00	water	09/23/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Howard Lateral @ Hwy 140	E	10/20/09	13:50	water	10/21/09	*Ceriodaphnia dubia*	Survival (%)	100	95	95	NSG	
Howard Lateral @ Hwy 140	E	04/21/09	14:30	water	04/22/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Howard Lateral @ Hwy 140	E	05/19/09	14:40	water	05/20/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Howard Lateral @ Hwy 140	E	06/16/09	13:30	water	06/17/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Howard Lateral @ Hwy 140	E	07/21/09	15:30	water	07/22/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Howard Lateral @ Hwy 140	E	08/18/09	16:30	water	08/19/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Howard Lateral @ Hwy 140	E	09/22/09	17:00	water	09/23/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Howard Lateral @ Hwy 140	E	10/20/09	13:50	water	10/21/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Howard Lateral @ Hwy 140	E	04/21/09	14:30	water	04/22/09	*Selenastrum capricornutum*	Total Cell Count	722708	3197648	442	NSG	
Howard Lateral @ Hwy 140	E	05/19/09	14:40	water	05/20/09	*Selenastrum capricornutum*	Total Cell Count	817147	631526	77	SL	
Howard Lateral @ Hwy 140	E	06/16/09	13:30	water	06/17/09	*Selenastrum capricornutum*	Total Cell Count	436136	1413086	324	NSG	Absorbance values converted to cells/mL.
Howard Lateral @ Hwy 140	E	07/21/09	15:30	water	07/22/09	*Selenastrum capricornutum*	Total Cell Count	211438	2673352	1264	NSG	
Howard Lateral @ Hwy 140	E	08/18/09	16:30	water	08/19/09	*Selenastrum capricornutum*	Total Cell Count	563140	3031567	538	NSG	
Howard Lateral @ Hwy 140	E	09/22/09	17:00	water	09/23/09	*Selenastrum capricornutum*	Total Cell Count	641296	2725456	425	NSG	
Howard Lateral @ Hwy 140	E	10/20/09	13:50	water	10/21/09	*Selenastrum capricornutum*	Total Cell Count	374263	3539581	946	NSG	
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	water	10/22/08	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	water	11/12/08	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	

Station Name	Sample Type Code	Sample Date	Sample Time	Matrix	Toxicity Start Date	Species	Toxicity End Point	Control Mean	Sample Mean	Percent Control	Toxicity Significance	Toxicity Test Comments
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	water	04/22/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	water	05/20/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	water	06/17/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	water	07/22/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	water	08/19/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	water	09/23/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	water	10/21/09	*Ceriodaphnia dubia*	Survival (%)	100	95	95	NSG	
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	water	10/22/08	*Pimephales promelas*	Survival (%)	97.5	92.5	95	NSG	
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	water	11/12/08	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	water	04/22/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	water	05/20/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	water	06/17/09	*Pimephales promelas*	Survival (%)	100	95	95	NSG	
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	water	07/22/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	water	08/19/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	water	09/23/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	water	10/21/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	water	10/22/08	*Selenastrum capricornutum*	Total Cell Count	667348	1868996	280	NSG	
Lateral 2 1/2 near Keys Rd	E	11/11/08	11:10	water	11/12/08	*Selenastrum capricornutum*	Total Cell Count	540344	3269291	605	NSG	
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	water	04/22/09	*Selenastrum capricornutum*	Total Cell Count	722708	1276313	177	NSG	
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	water	05/20/09	*Selenastrum capricornutum*	Total Cell Count	892046	501266	56	SL	
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	water	06/17/09	*Selenastrum capricornutum*	Total Cell Count	191899	605474	316	NSG	Absorbance values converted to cells/mL.
Lateral 2 1/2 near Keys Rd	E	07/21/09	13:30	water	07/22/09	*Selenastrum capricornutum*	Total Cell Count	211438	618500	293	NSG	
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	water	08/19/09	*Selenastrum capricornutum*	Total Cell Count	563140	618500	110	NSG	
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	water	09/23/09	*Selenastrum capricornutum*	Total Cell Count	641296	1237235	193	NSG	
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	water	10/21/09	*Selenastrum capricornutum*	Total Cell Count	374263	3119492	834	NSG	

Station Name	Sample Type Code	Sample Date	Sample Time	Matrix	Toxicity Start Date	Species	Toxicity End Point	Control Mean	Sample Mean	Percent Control	Toxicity Significance	Toxicity Test Comments
Miles Creek @ Reilly Rd	MPM	04/21/09	11:20	water	04/22/09	*Selenastrum capricornutum*	Total Cell Count	647809	4399297	679	NSG	
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	water	11/12/08	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	water	12/17/08	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	water	02/08/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	water	03/18/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	water	04/22/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	water	05/20/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	water	06/17/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	water	07/22/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	water	08/19/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	water	09/23/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	water	10/21/09	*Ceriodaphnia dubia*	Survival (%)	100	95	95	NSG	
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	water	11/18/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	water	11/12/08	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	water	12/17/08	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	water	02/08/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	water	03/18/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	water	04/22/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	water	05/20/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	water	06/17/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	water	07/22/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	water	08/19/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	water	09/23/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	water	10/21/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	water	11/18/09	*Pimephales promelas*	Survival (%)	100	97.5	97.5	NSG	

Station Name	Sample Type Code	Sample Date	Sample Time	Matrix	Toxicity Start Date	Species	Toxicity End Point	Control Mean	Sample Mean	Percent Control	Toxicity Significance	Toxicity Test Comments
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	water	11/12/08	*Selenastrum capricornutum*	Total Cell Count	540344	2298854	425	NSG	
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	water	12/17/08	*Selenastrum capricornutum*	Total Cell Count	1116745	3585172	321	NSG	
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	water	02/08/09	*Selenastrum capricornutum*	Total Cell Count	852968	605474	71	SL	
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	water	03/18/09	*Selenastrum capricornutum*	Total Cell Count	585935	1357726	232	NSG	
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	water	04/22/09	*Selenastrum capricornutum*	Total Cell Count	722708	5711666	790	NSG	
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	water	05/20/09	*Selenastrum capricornutum*	Total Cell Count	892046	6294580	706	NSG	
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	water	06/17/09	*Selenastrum capricornutum*	Total Cell Count	191899	6581152	3429	NSG	Absorbance values converted to cells/mL.
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	water	07/22/09	*Selenastrum capricornutum*	Total Cell Count	211438	5086418	2406	NSG	
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	water	08/19/09	*Selenastrum capricornutum*	Total Cell Count	563140	6538817	1161	NSG	
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	water	09/23/09	*Selenastrum capricornutum*	Total Cell Count	641296	3692636	576	NSG	
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	water	10/21/09	*Selenastrum capricornutum*	Total Cell Count	374263	4783564	1278	NSG	
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	water	11/18/09	*Selenastrum capricornutum*	Total Cell Count	524062	4871489	930	NSG	
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	water	12/16/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	water	12/16/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	water	12/16/09	*Selenastrum capricornutum*	Total Cell Count	468701	2370497	506	NSG	
Mustang Creek @ East Ave	E	02/07/09	15:30	water	02/08/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Mustang Creek @ East Ave	E	03/17/09	14:20	water	03/18/09	*Ceriodaphnia dubia*	Survival (%)	100	95	95	NSG	
Mustang Creek @ East Ave	E	10/20/09	15:20	water	10/21/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	
Mustang Creek @ East Ave	E	12/15/09	13:30	water	12/16/09	*Ceriodaphnia dubia*	Survival (%)	100	95	95	NSG	
Mustang Creek @ East Ave	E	02/07/09	15:30	water	02/08/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Mustang Creek @ East Ave	E	03/17/09	14:20	water	03/18/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Mustang Creek @ East Ave	E	10/20/09	15:20	water	10/21/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Mustang Creek @ East Ave	E	12/15/09	13:30	water	12/16/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	
Mustang Creek @ East Ave	E	02/07/09	15:30	water	02/08/09	*Selenastrum capricornutum*	Total Cell Count	852968	1318648	155	NSG	
Mustang Creek @ East Ave	E	03/17/09	14:20	water	03/18/09	*Selenastrum capricornutum*	Total Cell Count	585935	1696402	290	NSG	

Station Name	Sample Type Code	Sample Date	Sample Time	Matrix	Toxicity Start Date	Species	Toxicity End Point	Control Mean	Sample Mean	Percent Control	Toxicity Significance	Toxicity Test Comments
Mustang Creek @ East Ave	E	10/20/09	15:20	water	10/21/09	*Selenastrum capricornutum*	Total Cell Count	374263	3630763	970	NSG	
Mustang Creek @ East Ave	E	12/15/09	13:30	water	12/16/09	*Selenastrum capricornutum*	Total Cell Count	468701	4835668	1032	NSG	
Prairie Flower Drain @ Crows Landing Rd	MPM	04/21/09	14:20	water	04/22/09	*Selenastrum capricornutum*	Total Cell Count	722708	1794097	248	NSG	
Prairie Flower Drain @ Crows Landing Rd	MPM	05/19/09	14:20	water	05/20/09	*Selenastrum capricornutum*	Total Cell Count	892046	266798	30	SL	A TIE was conducted on 5/27/09 and it was concluded that cationic chemical(s) and ammonia were the cause of toxicity.

Table II - 7. ESJWQC sediment toxicity testing results.

Results for *Hyalella azteca* samples collected during the 2009 irrigation season. Toxicity tests are initiated within 14 days of sampling. Samples are sorted by station name and sample date.

Station Name	Sample Type Code	Sample Date	Sample Time	Matrix	Toxicity Start Date	Species	Toxicity End Point	Control Mean	Sample Mean	Percent Control	Toxicity Significance	Toxicity Test Comments
Cottonwood Creek @ Rd 20	E	08/18/09	10:40	sediment	08/25/09	*Hyalella azteca*	Survival (%)	98	95	97	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	sediment	04/28/09	*Hyalella azteca*	Survival (%)	82	77	94	NSG	
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	sediment	08/25/09	*Hyalella azteca*	Survival (%)	98	97	99	NSG	
Howard Lateral @ Hwy 140	E	04/21/09	14:30	sediment	04/28/09	*Hyalella azteca*	Survival (%)	82	87	106	NSG	
Howard Lateral @ Hwy 140	E	08/18/09	16:30	sediment	08/25/09	*Hyalella azteca*	Survival (%)	98	96	98	NSG	
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	sediment	04/28/09	*Hyalella azteca*	Survival (%)	82	74	90	SG	
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	sediment	08/25/09	*Hyalella azteca*	Survival (%)	98	94	96	NSG	
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	sediment	04/28/09	*Hyalella azteca*	Survival (%)	82	77	94	NSG	
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	sediment	08/25/09	*Hyalella azteca*	Survival (%)	98	96	98	NSG	
Mustang Creek @ East Ave	E	04/21/09	17:00	sediment	04/28/09	*Hyalella azteca*	Survival (%)	82	74	90	NSG	

Table II - 8. Calculated Loads

Dissolved metal analyte names include a "(D)" and total metal analyte names include a "(T)." Samples are sorted by station name, sample date and analyte.

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Ash Slough @ Ave 21	E	05/19/09	11:30	Boron (T)	27	=	µg/L	0.51	389.93
Ash Slough @ Ave 21	E	05/19/09	11:30	Copper (D)	3	=	µg/L	0.51	43.33
Ash Slough @ Ave 21	E	05/19/09	11:30	Copper (T)	3.8	=	µg/L	0.51	54.88
Ash Slough @ Ave 21	E	05/19/09	11:30	Dissolved Solids	46	=	mg/L	0.51	664.32
Ash Slough @ Ave 21	E	05/19/09	11:30	Nickel (D)	0.38	DNQ	µg/L	0.51	5.49
Ash Slough @ Ave 21	E	05/19/09	11:30	Nickel (T)	0.25	DNQ	µg/L	0.51	3.61
Ash Slough @ Ave 21	E	05/19/09	11:30	Nitrate + Nitrite as N	0.025	DNQ	mg/L	0.51	0.36
Ash Slough @ Ave 21	E	05/19/09	11:30	Phosphate as P	0.11	=	mg/L	0.51	1.59
Ash Slough @ Ave 21	E	05/19/09	11:30	Simazine	0.18	DNQ	µg/L	0.51	2.60
Ash Slough @ Ave 21	E	05/19/09	11:30	Total Organic Carbon	3.9	=	mg/L	0.51	56.32
Ash Slough @ Ave 21	E	05/19/09	11:30	Zinc (D)	1.1	=	µg/L	0.51	15.89
Ash Slough @ Ave 21	E	05/19/09	11:30	Zinc (T)	1.6	=	µg/L	0.51	23.11
Cottonwood Creek @ Rd 20	E	02/07/09	09:30	Ammonia as N	0.23	=	mg/L	0.00	0.00
Cottonwood Creek @ Rd 20	E	02/07/09	09:30	Dissolved Solids	280	=	mg/L	0.00	0.00
Cottonwood Creek @ Rd 20	E	02/07/09	09:30	Nitrate + Nitrite as N	3	=	mg/L	0.00	0.00
Cottonwood Creek @ Rd 20	E	02/07/09	09:30	Nitrogen, Total Kjeldahl	2.4	=	mg/L	0.00	0.00
Cottonwood Creek @ Rd 20	E	02/07/09	09:30	OrthoPhosphate as P	0.14	=	mg/L	0.00	0.00
Cottonwood Creek @ Rd 20	E	02/07/09	09:30	Phosphate as P	0.88	=	mg/L	0.00	0.00
Cottonwood Creek @ Rd 20	E	02/07/09	09:30	Suspended Solids	620	=	mg/L	0.00	0.00
Cottonwood Creek @ Rd 20	E	02/07/09	09:30	Total Organic Carbon	5.9	=	mg/L	0.00	0.00
Cottonwood Creek @ Rd 20	E	05/19/09	09:10	Dissolved Solids	38	=	mg/L	15.88	17087.61
Cottonwood Creek @ Rd 20	E	05/19/09	09:10	Nitrate + Nitrite as N	0.033	DNQ	mg/L	15.88	14.84
Cottonwood Creek @ Rd 20	E	05/19/09	09:10	Phosphate as P	0.11	=	mg/L	15.88	49.46
Cottonwood Creek @ Rd 20	E	05/19/09	09:10	Total Organic Carbon	3.5	=	mg/L	15.88	1573.86
Cottonwood Creek @ Rd 20	E	06/16/09	10:20	Ammonia as N	0.13	=	mg/L	0.51	1.88
Cottonwood Creek @ Rd 20	E	06/16/09	10:20	Dissolved Solids	31	=	mg/L	0.51	447.69
Cottonwood Creek @ Rd 20	E	06/16/09	10:20	Nitrate + Nitrite as N	0.094	=	mg/L	0.51	1.36
Cottonwood Creek @ Rd 20	E	06/16/09	10:20	Phosphate as P	0.042	=	mg/L	0.51	0.61
Cottonwood Creek @ Rd 20	E	06/16/09	10:20	Total Organic Carbon	4.6	=	mg/L	0.51	66.43
Cottonwood Creek @ Rd 20	E	08/18/09	10:40	Dissolved Solids	35	=	mg/L	0.06	59.47
Cottonwood Creek @ Rd 20	E	08/18/09	10:40	Phosphate as P	0.083	=	mg/L	0.06	0.14
Cottonwood Creek @ Rd 20	E	08/18/09	10:40	Suspended Solids	2.99	DNQ	mg/L	0.06	5.08
Cottonwood Creek @ Rd 20	E	08/18/09	10:40	Total Organic Carbon	4.2	=	mg/L	0.06	7.14
Cottonwood Creek @ Rd 20	E	11/17/09	09:40	Dissolved Solids	61	=	mg/L	5.11	8826.69
Cottonwood Creek @ Rd 20	E	11/17/09	09:40	Nitrate + Nitrite as N	0.072	=	mg/L	5.11	10.42

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Cottonwood Creek @ Rd 20	E	11/17/09	09:40	Phosphate as P	0.032	=	mg/L	5.11	4.63
Cottonwood Creek @ Rd 20	E	11/17/09	09:40	Total Organic Carbon	3.2	=	mg/L	5.11	463.04
Cottonwood Creek @ Rd 20	E	12/15/09	10:00	Ammonia as N	0.16	=	mg/L	0.01	0.05
Cottonwood Creek @ Rd 20	E	12/15/09	10:00	Dissolved Solids	110	=	mg/L	0.01	31.15
Cottonwood Creek @ Rd 20	E	12/15/09	10:00	Nitrate + Nitrite as N	6	=	mg/L	0.01	1.70
Cottonwood Creek @ Rd 20	E	12/15/09	10:00	Phosphate as P	0.09	=	mg/L	0.01	0.03
Cottonwood Creek @ Rd 20	E	12/15/09	10:00	Suspended Solids	5	=	mg/L	0.01	1.42
Cottonwood Creek @ Rd 20	E	12/15/09	10:00	Total Organic Carbon	4.7	=	mg/L	0.01	1.33
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Ammonia as N	0.12	=	mg/L	0.89	3.02
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Arsenic (T)	12	=	µg/L	0.89	302.43
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Boron (T)	40	=	µg/L	0.89	1008.09
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Copper (D)	1	=	µg/L	0.89	25.20
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Copper (T)	4.4	=	µg/L	0.89	110.89
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Dissolved Solids	400	=	mg/L	0.89	10080.85
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Lead (T)	0.77	=	µg/L	0.89	19.41
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Molybdenum (T)	5.2	=	µg/L	0.89	131.05
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Nickel (D)	1.2	=	µg/L	0.89	30.24
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Nickel (T)	4.6	=	µg/L	0.89	115.93
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Nitrate + Nitrite as N	0.15	=	mg/L	0.89	3.78
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Nitrogen, Total Kjeldahl	0.55	=	mg/L	0.89	13.86
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	OrthoPhosphate as P	0.044	=	mg/L	0.89	1.11
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Phosphate as P	0.11	=	mg/L	0.89	2.77
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Selenium (T)	0.18	DNQ	µg/L	0.89	4.54
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Suspended Solids	28	=	mg/L	0.89	705.66
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Total Organic Carbon	4.2	=	mg/L	0.89	105.85
Deadman Creek (Dutchman) @ Gurr Rd	E	10/21/08	10:50	Zinc (T)	7	=	µg/L	0.89	176.41
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Ammonia as N	0.14	=	mg/L	0.57	2.26
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Arsenic (T)	14	=	µg/L	0.57	225.97
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Boron (T)	35	=	µg/L	0.57	564.92
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Cadmium (T)	0.02	DNQ	µg/L	0.57	0.32
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Copper (D)	1.6	=	µg/L	0.57	25.83
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Copper (T)	8.4	=	µg/L	0.57	135.58
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Dissolved Solids	370	=	mg/L	0.57	5972.06
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Lead (T)	1.7	=	µg/L	0.57	27.44
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Molybdenum (T)	4.8	=	µg/L	0.57	77.48
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Nickel (D)	1.2	=	µg/L	0.57	19.37
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Nickel (T)	7.9	=	µg/L	0.57	127.51
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Nitrate + Nitrite as N	0.43	=	mg/L	0.57	6.94
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Nitrogen, Total Kjeldahl	1.6	=	mg/L	0.57	25.83
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	OrthoPhosphate as P	0.055	=	mg/L	0.57	0.89
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Phosphate as P	0.29	=	mg/L	0.57	4.68

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Selenium (T)	0.21	DNQ	µg/L	0.57	3.39
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Suspended Solids	51	=	mg/L	0.57	823.18
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Total Organic Carbon	4.4	=	mg/L	0.57	71.02
Deadman Creek (Dutchman) @ Gurr Rd	E	11/11/08	10:40	Zinc (T)	15	=	µg/L	0.57	242.11
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Ammonia as N	0.52	=	mg/L	0.09	1.33
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Ammonia as N	0.55	=	mg/L	0.09	1.40
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Arsenic (T)	8.4	=	µg/L	0.09	21.41
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Arsenic (T)	8.4	=	µg/L	0.09	21.41
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Boron (T)	37	=	µg/L	0.09	94.30
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Boron (T)	36	=	µg/L	0.09	91.75
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Cadmium (T)	0.02	DNQ	µg/L	0.09	0.05
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Cadmium (T)	0.02	DNQ	µg/L	0.09	0.05
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Copper (D)	1.6	=	µg/L	0.09	4.08
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Copper (D)	1.5	=	µg/L	0.09	3.82
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Copper (T)	4.7	=	µg/L	0.09	11.98
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Copper (T)	4.8	=	µg/L	0.09	12.23
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Dissolved Solids	360	=	mg/L	0.09	917.47
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Dissolved Solids	380	=	mg/L	0.09	968.44
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Lead (T)	0.72	=	µg/L	0.09	1.83
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Lead (T)	0.7	=	µg/L	0.09	1.78
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Molybdenum (T)	5.7	=	µg/L	0.09	14.53
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Molybdenum (T)	5.5	=	µg/L	0.09	14.02
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Nickel (D)	1.9	=	µg/L	0.09	4.84
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Nickel (D)	2	=	µg/L	0.09	5.10
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Nickel (T)	4.6	=	µg/L	0.09	11.72
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Nickel (T)	4.7	=	µg/L	0.09	11.98
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Nitrate + Nitrite as N	0.19	=	mg/L	0.09	0.48
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Nitrate + Nitrite as N	0.22	=	mg/L	0.09	0.56
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Nitrogen, Total Kjeldahl	2	=	mg/L	0.09	5.10
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Nitrogen, Total Kjeldahl	2.2	=	mg/L	0.09	5.61
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	OrthoPhosphate as P	0.089	=	mg/L	0.09	0.23
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	OrthoPhosphate as P	0.093	=	mg/L	0.09	0.24
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Phosphate as P	0.22	=	mg/L	0.09	0.56
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Phosphate as P	0.27	=	mg/L	0.09	0.69
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Selenium (T)	0.16	DNQ	µg/L	0.09	0.41
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Selenium (T)	0.16	DNQ	µg/L	0.09	0.41
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Suspended Solids	27	=	mg/L	0.09	68.81
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Suspended Solids	35	=	mg/L	0.09	89.20
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Total Organic Carbon	8.2	=	mg/L	0.09	20.90
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Total Organic Carbon	8.2	=	mg/L	0.09	20.90
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Zinc (D)	0.98	DNQ	µg/L	0.09	2.50

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Zinc (D)	1	=	µg/L	0.09	2.55
Deadman Creek (Dutchman) @ Gurr Rd	E	12/16/08	12:00	Zinc (T)	8	=	µg/L	0.09	20.39
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Zinc (T)	8	=	µg/L	0.09	20.39
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Ammonia as N	5.5	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Ammonia as N	5.4	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Arsenic (T)	18	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Arsenic (T)	18	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Boron (T)	36	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Boron (T)	36	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Cadmium (T)	0.06	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Cadmium (T)	0.1	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Copper (D)	4.3	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Copper (D)	4.7	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Copper (T)	14	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Copper (T)	17	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Dissolved Solids	470	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Dissolved Solids	460	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Lead (D)	0.12	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Lead (D)	0.23	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Lead (T)	0.8	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Lead (T)	3.6	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Molybdenum (T)	4.3	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Molybdenum (T)	4	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Nickel (D)	2.9	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Nickel (D)	3	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Nickel (T)	8.2	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Nickel (T)	5.3	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Nitrate + Nitrite as N	0.08	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Nitrate + Nitrite as N	0.059	DNQ	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Nitrogen, Total Kjeldahl	7.7	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Nitrogen, Total Kjeldahl	14	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	OrthoPhosphate as P	1	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	OrthoPhosphate as P	1.2	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Phosphate as P	2.7	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Phosphate as P	2.9	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Selenium (T)	0.55	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Selenium (T)	0.51	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Suspended Solids	86	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Suspended Solids	66	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Total Organic Carbon	36	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Total Organic Carbon	23	=	mg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Zinc (D)	5	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Zinc (D)	5	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	01/20/09	12:00	Zinc (T)	67	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Zinc (T)	32	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Ammonia as N	50	=	mg/L	0.01	14.16
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Arsenic (T)	30	=	µg/L	0.01	8.50
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Boron (T)	110	=	µg/L	0.01	31.15
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Cadmium (D)	0.03	DNQ	µg/L	0.01	0.01
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Cadmium (T)	0.2	=	µg/L	0.01	0.06
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Copper (D)	4.9	=	µg/L	0.01	1.39
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Copper (T)	51	=	µg/L	0.01	14.44
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Dissolved Solids	1100	=	mg/L	0.01	311.49
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Lead (D)	0.31	=	µg/L	0.01	0.09
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Lead (T)	2.6	=	µg/L	0.01	0.74
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Methomyl	0.07	=	µg/L	0.01	0.02
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Molybdenum (T)	4.9	=	µg/L	0.01	1.39
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Nickel (D)	9.4	=	µg/L	0.01	2.66
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Nickel (T)	22	=	µg/L	0.01	6.23
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Nitrate + Nitrite as N	0.059	=	mg/L	0.01	0.02
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Nitrogen, Total Kjeldahl	90	=	mg/L	0.01	25.49
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	OrthoPhosphate as P	6.8	=	mg/L	0.01	1.93
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Phosphate as P	12	=	mg/L	0.01	3.40
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Selenium (T)	0.85	DNQ	µg/L	0.01	0.24
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Simazine	0.12	DNQ	µg/L	0.01	0.03
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Suspended Solids	140	=	mg/L	0.01	39.64
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Total Organic Carbon	160	=	mg/L	0.01	45.31
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Zinc (D)	19	=	µg/L	0.01	5.38
Deadman Creek (Dutchman) @ Gurr Rd	E	02/07/09	11:00	Zinc (T)	160	=	µg/L	0.01	45.31
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Ammonia as N	0.22	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Arsenic (T)	14	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Boron (T)	20	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Copper (D)	0.5	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Copper (T)	1.7	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Dissolved Solids	290	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Lead (T)	0.28	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Molybdenum (T)	2.7	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Nickel (D)	0.78	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Nickel (T)	1.6	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Nitrate + Nitrite as N	0.98	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Nitrogen, Total Kjeldahl	0.86	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	OrthoPhosphate as P	0.088	=	mg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Phosphate as P	0.16	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Selenium (T)	0.56	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Suspended Solids	11	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Total Organic Carbon	2.6	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	03/17/09	10:30	Zinc (T)	2.8	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Ammonia as N	0.14	=	mg/L	0.99	3.92
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Arsenic (T)	5.7	=	µg/L	0.99	159.79
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Boron (T)	34	=	µg/L	0.99	953.15
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Cadmium (T)	0.02	DNQ	µg/L	0.99	0.56
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Copper (D)	1.3	=	µg/L	0.99	36.44
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Copper (T)	2.1	=	µg/L	0.99	58.87
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Dissolved Solids	160	=	mg/L	0.99	4485.41
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Lead (T)	0.21	DNQ	µg/L	0.99	5.89
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Molybdenum (T)	2.1	=	µg/L	0.99	58.87
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Nickel (D)	1.1	=	µg/L	0.99	30.84
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Nickel (T)	1.6	=	µg/L	0.99	44.85
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Nitrate + Nitrite as N	1.3	=	mg/L	0.99	36.44
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Nitrogen, Total Kjeldahl	1.1	=	mg/L	0.99	30.84
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	OrthoPhosphate as P	0.34	=	mg/L	0.99	9.53
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Phosphate as P	0.45	=	mg/L	0.99	12.62
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Selenium (T)	0.17	DNQ	µg/L	0.99	4.77
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Total Organic Carbon	3.5	=	mg/L	0.99	98.12
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Zinc (D)	2	=	µg/L	0.99	56.07
Deadman Creek (Dutchman) @ Gurr Rd	E	04/21/09	12:00	Zinc (T)	3.8	=	µg/L	0.99	106.53
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Atrazine	0.24	DNQ	µg/L	6.74	45.81
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Boron (T)	58	=	µg/L	6.74	11069.68
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Copper (D)	1.6	=	µg/L	6.74	305.37
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Copper (T)	5.3	=	µg/L	6.74	1011.54
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Cyanazine	0.13	DNQ	µg/L	6.74	24.81
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Dimethoate	0.13	=	µg/L	6.74	24.81
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Dissolved Solids	190	=	mg/L	6.74	36262.75
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Disulfoton	0.025	DNQ	µg/L	6.74	4.77
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Nickel (D)	1.6	=	µg/L	6.74	305.37
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Nickel (T)	4.5	=	µg/L	6.74	858.85
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Nitrate + Nitrite as N	1.3	=	mg/L	6.74	248.11
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Phosphate as P	0.93	=	mg/L	6.74	177.50
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Selenium (T)	0.21	DNQ	µg/L	6.74	40.08
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Suspended Solids	37	=	mg/L	6.74	7061.69
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Total Organic Carbon	3.9	=	mg/L	6.74	744.34
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Trifluralin	0.046	DNQ	µg/L	6.74	8.78
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Zinc (D)	8.7	=	µg/L	6.74	1660.45

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Deadman Creek (Dutchman) @ Gurr Rd	E	05/19/09	12:50	Zinc (T)	17	=	µg/L	6.74	3244.56
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	Ammonia as N	0.18	=	mg/L	5.40	27.52
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	Boron (T)	43	=	µg/L	5.40	6575.21
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	Copper (D)	1.2	=	µg/L	5.40	183.49
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	Copper (T)	4	=	µg/L	5.40	611.65
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	Dissolved Solids	150	=	mg/L	5.40	22936.77
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	Disulfoton	0.035	DNQ	µg/L	5.40	5.35
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	Nickel (D)	1.2	=	µg/L	5.40	183.49
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	Nickel (T)	3.6	=	µg/L	5.40	550.48
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	Nitrate + Nitrite as N	2.1	=	mg/L	5.40	321.11
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	Phosphate as P	0.62	=	mg/L	5.40	94.81
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	Selenium (T)	0.14	DNQ	µg/L	5.40	21.41
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	Suspended Solids	22	=	mg/L	5.40	3364.06
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	Total Organic Carbon	3.4	=	mg/L	5.40	519.90
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	Zinc (D)	7.3	=	µg/L	5.40	1116.26
Deadman Creek (Dutchman) @ Gurr Rd	E	06/16/09	11:50	Zinc (T)	14	=	µg/L	5.40	2140.77
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	Ammonia as N	0.16	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	Boron (T)	28	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	Copper (D)	2.1	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	Copper (T)	6.2	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	Dissolved Solids	120	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	Nickel (D)	1.7	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	Nickel (T)	5.5	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	Nitrate + Nitrite as N	1.5	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	Phosphate as P	0.44	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	Selenium (T)	0.16	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	Suspended Solids	120	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	Total Organic Carbon	3.4	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	Zinc (D)	2.4	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	07/21/09	12:30	Zinc (T)	12	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	Boron (T)	8.4	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	Copper (D)	1	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	Copper (T)	4.2	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	Dissolved Solids	44	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	Nickel (D)	0.84	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	Nickel (T)	3.2	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	Nitrate + Nitrite as N	0.068	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	Phosphate as P	0.14	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	Selenium (T)	0.08	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	Suspended Solids	39	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	Total Organic Carbon	2.4	=	mg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	Zinc (D)	1.1	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	08/18/09	14:20	Zinc (T)	7.5	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	Boron (T)	9.3	DNQ	µg/L	5.30	1395.74
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	Copper (D)	0.62	=	µg/L	5.30	93.05
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	Copper (T)	4.1	=	µg/L	5.30	615.33
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	Dissolved Solids	50	=	mg/L	5.30	7504.01
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	Nickel (D)	0.82	=	µg/L	5.30	123.07
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	Nickel (T)	3.1	=	µg/L	5.30	465.25
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	Nitrate + Nitrite as N	0.13	=	mg/L	5.30	19.51
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	Phosphate as P	0.11	=	mg/L	5.30	16.51
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	Selenium (T)	0.07	DNQ	µg/L	5.30	10.51
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	Suspended Solids	42	=	mg/L	5.30	6303.36
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	Total Organic Carbon	2.7	=	mg/L	5.30	405.22
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	Zinc (D)	2.3	=	µg/L	5.30	345.18
Deadman Creek (Dutchman) @ Gurr Rd	E	09/22/09	13:40	Zinc (T)	10	=	µg/L	5.30	1500.80
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	Ammonia as N	0.099	DNQ	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	Boron (T)	11	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	Copper (D)	1.6	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	Copper (T)	4.3	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	Dissolved Solids	33	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	Nickel (D)	1.1	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	Nickel (T)	3.4	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	Nitrate + Nitrite as N	0.25	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	Phosphate as P	0.071	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	Selenium (T)	0.08	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	Suspended Solids	29	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	Total Organic Carbon	3.1	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	Zinc (D)	1.3	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	10/20/09	11:30	Zinc (T)	7.2	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	Ammonia as N	0.3	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	Boron (T)	95	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	Copper (D)	4	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	Copper (T)	6.5	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	Dissolved Solids	290	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	Disulfoton	0.042	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	Nickel (D)	3.6	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	Nickel (T)	5.7	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	Nitrate + Nitrite as N	1.1	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	Phosphate as P	0.79	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	Selenium (T)	0.24	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	Suspended Solids	81	=	mg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	Total Organic Carbon	8	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	Zinc (D)	7.6	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	11/17/09	11:20	Zinc (T)	12	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Ammonia as N	15	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Ammonia as N	15	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Arsenic (T)	7.2	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Arsenic (T)	7.6	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Boron (T)	62	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Boron (T)	67	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Cadmium (T)	0.06	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Cadmium (T)	0.06	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Copper (D)	2.5	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Copper (D)	2.7	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Copper (T)	10	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Copper (T)	12	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Dissolved Solids	610	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Dissolved Solids	610	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Lead (D)	0.11	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Lead (D)	0.12	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Lead (T)	0.73	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Lead (T)	1	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Molybdenum (T)	3	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Molybdenum (T)	3	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Nickel (D)	3.3	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Nickel (D)	3.3	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Nickel (T)	5.6	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Nickel (T)	7	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Nitrate + Nitrite as N	0.96	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Nitrate + Nitrite as N	1.1	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Phosphate as P	3.8	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Phosphate as P	3.9	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Selenium (T)	0.66	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Selenium (T)	0.65	DNQ	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Suspended Solids	260	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Suspended Solids	150	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Total Organic Carbon	30	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Total Organic Carbon	27	=	mg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Zinc (D)	4.3	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Zinc (D)	5.3	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Zinc (T)	25	=	µg/L	0.00	0.00
Deadman Creek (Dutchman) @ Gurr Rd	E	12/15/09	12:30	Zinc (T)	30	=	µg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Dry Creek @ Wellsford Rd	E	10/21/08	08:50	Ammonia as N	0.077	DNQ	mg/L	2.05	4.47
Dry Creek @ Wellsford Rd	E	10/21/08	08:50	Dissolved Solids	96	=	mg/L	2.05	5572.79
Dry Creek @ Wellsford Rd	E	10/21/08	08:50	Nitrate + Nitrite as N	0.22	=	mg/L	2.05	12.77
Dry Creek @ Wellsford Rd	E	10/21/08	08:50	Nitrogen, Total Kjeldahl	0.71	=	mg/L	2.05	41.22
Dry Creek @ Wellsford Rd	E	10/21/08	08:50	OrthoPhosphate as P	0.3	=	mg/L	2.05	17.41
Dry Creek @ Wellsford Rd	E	10/21/08	08:50	Phosphate as P	0.37	=	mg/L	2.05	21.48
Dry Creek @ Wellsford Rd	E	10/21/08	08:50	Suspended Solids	12	=	mg/L	2.05	696.60
Dry Creek @ Wellsford Rd	E	10/21/08	08:50	Total Organic Carbon	5.4	=	mg/L	2.05	313.47
Dry Creek @ Wellsford Rd	E	11/11/08	09:30	Ammonia as N	0.088	DNQ	mg/L	0.99	2.47
Dry Creek @ Wellsford Rd	E	11/11/08	09:30	Dissolved Solids	35	=	mg/L	0.99	981.18
Dry Creek @ Wellsford Rd	E	11/11/08	09:30	Nitrate + Nitrite as N	0.41	=	mg/L	0.99	11.49
Dry Creek @ Wellsford Rd	E	11/11/08	09:30	Nitrogen, Total Kjeldahl	0.26	=	mg/L	0.99	7.29
Dry Creek @ Wellsford Rd	E	11/11/08	09:30	OrthoPhosphate as P	0.1	=	mg/L	0.99	2.80
Dry Creek @ Wellsford Rd	E	11/11/08	09:30	Phosphate as P	0.12	=	mg/L	0.99	3.36
Dry Creek @ Wellsford Rd	E	11/11/08	09:30	Total Organic Carbon	2.9	=	mg/L	0.99	81.30
Dry Creek @ Wellsford Rd	E	12/16/08	09:20	Ammonia as N	0.13	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	12/16/08	09:20	Dissolved Solids	330	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	12/16/08	09:20	Nitrate + Nitrite as N	4.2	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	12/16/08	09:20	Nitrogen, Total Kjeldahl	0.57	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	12/16/08	09:20	OrthoPhosphate as P	0.12	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	12/16/08	09:20	Phosphate as P	0.28	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	12/16/08	09:20	Total Organic Carbon	4.2	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	01/20/09	09:10	Ammonia as N	0.066	DNQ	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	01/20/09	09:10	Dissolved Solids	410	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	01/20/09	09:10	Nitrate + Nitrite as N	6.1	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	01/20/09	09:10	Nitrogen, Total Kjeldahl	0.48	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	01/20/09	09:10	OrthoPhosphate as P	0.006	DNQ	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	01/20/09	09:10	Phosphate as P	0.16	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	01/20/09	09:10	Suspended Solids	5	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	01/20/09	09:10	Total Organic Carbon	4.6	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	02/07/09	11:10	Ammonia as N	0.21	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	02/07/09	11:10	Dissolved Solids	310	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	02/07/09	11:10	Nitrate + Nitrite as N	3.6	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	02/07/09	11:10	Nitrogen, Total Kjeldahl	5.6	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	02/07/09	11:10	OrthoPhosphate as P	0.025	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	02/07/09	11:10	Phosphate as P	0.54	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	02/07/09	11:10	Total Organic Carbon	6.9	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	03/17/09	10:50	Ammonia as N	0.055	DNQ	mg/L	2.73	4.25
Dry Creek @ Wellsford Rd	E	03/17/09	10:50	Dissolved Solids	120	=	mg/L	2.73	9276.65
Dry Creek @ Wellsford Rd	E	03/17/09	10:50	Nitrate + Nitrite as N	0.39	=	mg/L	2.73	30.15
Dry Creek @ Wellsford Rd	E	03/17/09	10:50	Nitrogen, Total Kjeldahl	0.81	=	mg/L	2.73	62.62

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Dry Creek @ Wellsford Rd	E	03/17/09	10:50	OrthoPhosphate as P	0.069	=	mg/L	2.73	5.33
Dry Creek @ Wellsford Rd	E	03/17/09	10:50	Phosphate as P	0.16	=	mg/L	2.73	12.37
Dry Creek @ Wellsford Rd	E	03/17/09	10:50	Total Organic Carbon	8.3	=	mg/L	2.73	641.63
Dry Creek @ Wellsford Rd	E	04/21/09	11:20	Ammonia as N	0.099	DNQ	mg/L	15.27	42.81
Dry Creek @ Wellsford Rd	E	04/21/09	11:20	Dissolved Solids	110	=	mg/L	15.27	47564.06
Dry Creek @ Wellsford Rd	E	04/21/09	11:20	Nitrate + Nitrite as N	0.55	=	mg/L	15.27	237.82
Dry Creek @ Wellsford Rd	E	04/21/09	11:20	Nitrogen, Total Kjeldahl	0.96	=	mg/L	15.27	415.10
Dry Creek @ Wellsford Rd	E	04/21/09	11:20	OrthoPhosphate as P	0.59	=	mg/L	15.27	255.12
Dry Creek @ Wellsford Rd	E	04/21/09	11:20	Phosphate as P	0.71	=	mg/L	15.27	307.00
Dry Creek @ Wellsford Rd	E	04/21/09	11:20	Suspended Solids	2.99	DNQ	mg/L	15.27	1292.88
Dry Creek @ Wellsford Rd	E	04/21/09	11:20	Total Organic Carbon	7.5	=	mg/L	15.27	3243.00
Dry Creek @ Wellsford Rd	E	05/19/09	11:30	Dissolved Solids	120	=	mg/L	17.90	60824.92
Dry Creek @ Wellsford Rd	E	05/19/09	11:30	Nitrate + Nitrite as N	0.39	=	mg/L	17.90	197.68
Dry Creek @ Wellsford Rd	E	05/19/09	11:30	Phosphate as P	0.92	=	mg/L	17.90	466.32
Dry Creek @ Wellsford Rd	E	05/19/09	11:30	Suspended Solids	3	=	mg/L	17.90	1520.62
Dry Creek @ Wellsford Rd	E	05/19/09	11:30	Total Organic Carbon	8.4	=	mg/L	17.90	4257.74
Dry Creek @ Wellsford Rd	E	06/16/09	10:50	Ammonia as N	0.22	=	mg/L	44.19	275.29
Dry Creek @ Wellsford Rd	E	06/16/09	10:50	Dissolved Solids	80	=	mg/L	44.19	100106.26
Dry Creek @ Wellsford Rd	E	06/16/09	10:50	Nitrate + Nitrite as N	0.33	=	mg/L	44.19	412.94
Dry Creek @ Wellsford Rd	E	06/16/09	10:50	Phosphate as P	0.68	=	mg/L	44.19	850.90
Dry Creek @ Wellsford Rd	E	06/16/09	10:50	Suspended Solids	8	=	mg/L	44.19	10010.63
Dry Creek @ Wellsford Rd	E	06/16/09	10:50	Total Organic Carbon	6	=	mg/L	44.19	7507.97
Dry Creek @ Wellsford Rd	E	07/21/09	10:50	Ammonia as N	0.59	=	mg/L	71.26	1190.54
Dry Creek @ Wellsford Rd	E	07/21/09	10:50	Chlorpyrifos	0.013	DNQ	µg/L	71.26	26.23
Dry Creek @ Wellsford Rd	E	07/21/09	10:50	Dissolved Solids	93	=	mg/L	71.26	187661.86
Dry Creek @ Wellsford Rd	E	07/21/09	10:50	Nitrate + Nitrite as N	0.21	=	mg/L	71.26	423.75
Dry Creek @ Wellsford Rd	E	07/21/09	10:50	Phosphate as P	0.84	=	mg/L	71.26	1695.01
Dry Creek @ Wellsford Rd	E	07/21/09	10:50	Suspended Solids	16	=	mg/L	71.26	32285.91
Dry Creek @ Wellsford Rd	E	07/21/09	10:50	Total Organic Carbon	6.9	=	mg/L	71.26	13923.30
Dry Creek @ Wellsford Rd	E	08/18/09	12:30	Ammonia as N	0.077	DNQ	mg/L	47.07	102.63
Dry Creek @ Wellsford Rd	E	08/18/09	12:30	Chlorpyrifos	0.027	=	µg/L	47.07	35.99
Dry Creek @ Wellsford Rd	E	08/18/09	12:30	Dissolved Solids	78	=	mg/L	47.07	103964.73
Dry Creek @ Wellsford Rd	E	08/18/09	12:30	Nitrate + Nitrite as N	0.12	=	mg/L	47.07	159.95
Dry Creek @ Wellsford Rd	E	08/18/09	12:30	Phosphate as P	0.72	=	mg/L	47.07	959.67
Dry Creek @ Wellsford Rd	E	08/18/09	12:30	Suspended Solids	10	=	mg/L	47.07	13328.81
Dry Creek @ Wellsford Rd	E	08/18/09	12:30	Total Organic Carbon	6.5	=	mg/L	47.07	8663.73
Dry Creek @ Wellsford Rd	E	09/22/09	11:00	Ammonia as N	0.21	=	mg/L	42.20	250.95
Dry Creek @ Wellsford Rd	E	09/22/09	11:00	Dissolved Solids	84	=	mg/L	42.20	100378.10
Dry Creek @ Wellsford Rd	E	09/22/09	11:00	Nitrate + Nitrite as N	0.19	=	mg/L	42.20	227.05
Dry Creek @ Wellsford Rd	E	09/22/09	11:00	Phosphate as P	0.57	=	mg/L	42.20	681.14
Dry Creek @ Wellsford Rd	E	09/22/09	11:00	Total Organic Carbon	5.6	=	mg/L	42.20	6691.87

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Dry Creek @ Wellsford Rd	E	10/20/09	11:10	Ammonia as N	0.58	=	mg/L	0.84	13.80
Dry Creek @ Wellsford Rd	E	10/20/09	11:10	Dissolved Solids	140	=	mg/L	0.84	3330.08
Dry Creek @ Wellsford Rd	E	10/20/09	11:10	Nitrate + Nitrite as N	0.54	=	mg/L	0.84	12.84
Dry Creek @ Wellsford Rd	E	10/20/09	11:10	Phosphate as P	1.1	=	mg/L	0.84	26.16
Dry Creek @ Wellsford Rd	E	10/20/09	11:10	Total Organic Carbon	13	=	mg/L	0.84	309.22
Dry Creek @ Wellsford Rd	E	11/17/09	12:20	Ammonia as N	0.088	DNQ	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	11/17/09	12:20	Dissolved Solids	120	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	11/17/09	12:20	Nitrate + Nitrite as N	0.9	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	11/17/09	12:20	Phosphate as P	0.4	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	11/17/09	12:20	Total Organic Carbon	3.7	=	mg/L	0.00	0.00
Dry Creek @ Wellsford Rd	E	12/15/09	09:50	Ammonia as N	0.23	=	mg/L	1.15	7.49
Dry Creek @ Wellsford Rd	E	12/15/09	09:50	Dissolved Solids	110	=	mg/L	1.15	3582.10
Dry Creek @ Wellsford Rd	E	12/15/09	09:50	Lead (T)	0.13	DNQ	µg/L	1.15	4.23
Dry Creek @ Wellsford Rd	E	12/15/09	09:50	Nitrate + Nitrite as N	0.038	DNQ	mg/L	1.15	1.24
Dry Creek @ Wellsford Rd	E	12/15/09	09:50	Phosphate as P	0.46	=	mg/L	1.15	14.98
Dry Creek @ Wellsford Rd	E	12/15/09	09:50	Suspended Solids	10	=	mg/L	1.15	325.65
Dry Creek @ Wellsford Rd	E	12/15/09	09:50	Total Organic Carbon	7.2	=	mg/L	1.15	234.46
Duck Slough @ Gurr Rd	E	12/16/08	14:00	Ammonia as N	0.38	=	mg/L	0.31	3.34
Duck Slough @ Gurr Rd	E	12/16/08	14:00	Arsenic (T)	3.8	=	µg/L	0.31	33.36
Duck Slough @ Gurr Rd	E	12/16/08	14:00	Boron (T)	37	=	µg/L	0.31	324.80
Duck Slough @ Gurr Rd	E	12/16/08	14:00	Copper (D)	0.3	DNQ	µg/L	0.31	2.63
Duck Slough @ Gurr Rd	E	12/16/08	14:00	Copper (T)	1.2	=	µg/L	0.31	10.53
Duck Slough @ Gurr Rd	E	12/16/08	14:00	Dissolved Solids	350	=	mg/L	0.31	3072.39
Duck Slough @ Gurr Rd	E	12/16/08	14:00	Lead (T)	0.26	=	µg/L	0.31	2.28
Duck Slough @ Gurr Rd	E	12/16/08	14:00	Molybdenum (T)	2.1	=	µg/L	0.31	18.43
Duck Slough @ Gurr Rd	E	12/16/08	14:00	Nickel (D)	0.4	DNQ	µg/L	0.31	3.51
Duck Slough @ Gurr Rd	E	12/16/08	14:00	Nickel (T)	1.1	=	µg/L	0.31	9.66
Duck Slough @ Gurr Rd	E	12/16/08	14:00	Nitrate + Nitrite as N	2.1	=	mg/L	0.31	18.43
Duck Slough @ Gurr Rd	E	12/16/08	14:00	Nitrogen, Total Kjeldahl	0.15	=	mg/L	0.31	1.32
Duck Slough @ Gurr Rd	E	12/16/08	14:00	OrthoPhosphate as P	0.13	=	mg/L	0.31	1.14
Duck Slough @ Gurr Rd	E	12/16/08	14:00	Phosphate as P	0.051	=	mg/L	0.31	0.45
Duck Slough @ Gurr Rd	E	12/16/08	14:00	Selenium (T)	0.24	DNQ	µg/L	0.31	2.11
Duck Slough @ Gurr Rd	E	12/16/08	14:00	Total Organic Carbon	0.9	=	mg/L	0.31	7.90
Duck Slough @ Gurr Rd	E	12/16/08	14:00	Zinc (T)	3	=	µg/L	0.31	26.33
Duck Slough @ Gurr Rd	E	01/20/09	13:50	Ammonia as N	0.055	DNQ	mg/L	0.23	0.36
Duck Slough @ Gurr Rd	E	01/20/09	13:50	Arsenic (T)	3.7	=	µg/L	0.23	24.10
Duck Slough @ Gurr Rd	E	01/20/09	13:50	Boron (T)	39	=	µg/L	0.23	254.00
Duck Slough @ Gurr Rd	E	01/20/09	13:50	Chlorpyrifos	0.012	DNQ	µg/L	0.23	0.08
Duck Slough @ Gurr Rd	E	01/20/09	13:50	Copper (D)	0.2	DNQ	µg/L	0.23	1.30
Duck Slough @ Gurr Rd	E	01/20/09	13:50	Copper (T)	0.4	DNQ	µg/L	0.23	2.61
Duck Slough @ Gurr Rd	E	01/20/09	13:50	Diazinon	0.033	=	µg/L	0.23	0.21

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Duck Slough @ Gurr Rd	E	01/20/09	13:50	Molybdenum (T)	2.3	=	µg/L	0.23	14.98
Duck Slough @ Gurr Rd	E	01/20/09	13:50	Nickel (D)	0.2	DNQ	µg/L	0.23	1.30
Duck Slough @ Gurr Rd	E	01/20/09	13:50	Nickel (T)	0.2	DNQ	µg/L	0.23	1.30
Duck Slough @ Gurr Rd	E	01/20/09	13:50	Nitrate + Nitrite as N	1.9	=	mg/L	0.23	12.37
Duck Slough @ Gurr Rd	E	01/20/09	13:50	Phosphate as P	0.035	=	mg/L	0.23	0.23
Duck Slough @ Gurr Rd	E	01/20/09	13:50	Selenium (T)	0.21	DNQ	µg/L	0.23	1.37
Duck Slough @ Gurr Rd	E	01/20/09	13:50	Total Organic Carbon	0.93	=	mg/L	0.23	6.06
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Ammonia as N	0.43	=	mg/L	2.57	31.29
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Arsenic (T)	6.8	=	µg/L	2.57	494.87
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Boron (T)	130	=	µg/L	2.57	9460.71
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Cadmium (D)	0.07	DNQ	µg/L	2.57	5.09
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Cadmium (T)	0.08	DNQ	µg/L	2.57	5.82
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Copper (D)	7.6	=	µg/L	2.57	553.09
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Copper (T)	11	=	µg/L	2.57	800.52
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Dissolved Solids	450	=	mg/L	2.57	32748.61
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Disulfoton	0.039	DNQ	µg/L	2.57	2.84
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Lead (D)	0.15	DNQ	µg/L	2.57	10.92
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Lead (T)	0.71	=	µg/L	2.57	51.67
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Molybdenum (T)	6.8	=	µg/L	2.57	494.87
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Nickel (D)	4.2	=	µg/L	2.57	305.65
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Nickel (T)	7	=	µg/L	2.57	509.42
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Nitrate + Nitrite as N	13	=	mg/L	2.57	946.07
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Nitrogen, Total Kjeldahl	1.4	=	mg/L	2.57	101.88
Duck Slough @ Gurr Rd	E	02/07/09	12:40	OrthoPhosphate as P	3.2	=	mg/L	2.57	232.88
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Phosphate as P	2.9	=	mg/L	2.57	211.05
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Selenium (T)	0.42	DNQ	µg/L	2.57	30.57
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Suspended Solids	34	=	mg/L	2.57	2474.34
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Total Organic Carbon	7.5	=	mg/L	2.57	545.81
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Zinc (D)	22	=	µg/L	2.57	1601.04
Duck Slough @ Gurr Rd	E	02/07/09	12:40	Zinc (T)	28	=	µg/L	2.57	2037.69
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Ammonia as N	0.077	DNQ	mg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Arsenic (T)	3.4	=	µg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Boron (T)	15	=	µg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Cadmium (T)	0.02	DNQ	µg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Copper (D)	4.6	=	µg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Copper (T)	6.3	=	µg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Dissolved Solids	150	=	mg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Lead (D)	0.08	DNQ	µg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Lead (T)	0.7	=	µg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Molybdenum (T)	1.3	=	µg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Nickel (D)	3	=	µg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Nickel (T)	4.5	=	µg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Nitrate + Nitrite as N	0.17	=	mg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Nitrogen, Total Kjeldahl	0.65	=	mg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	OrthoPhosphate as P	0.053	=	mg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Phosphate as P	0.14	=	mg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Selenium (T)	0.19	DNQ	µg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Total Organic Carbon	7.1	=	mg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Zinc (D)	1.1	=	µg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	03/17/09	11:20	Zinc (T)	3.1	=	µg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Ammonia as N	0.066	DNQ	mg/L	0.67	1.25
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Arsenic (T)	4.9	=	µg/L	0.67	92.96
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Boron (T)	48	=	µg/L	0.67	910.67
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Cadmium (D)	0.03	DNQ	µg/L	0.67	0.57
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Cadmium (T)	0.03	DNQ	µg/L	0.67	0.57
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Copper (D)	2.6	=	µg/L	0.67	49.33
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Copper (T)	3.3	=	µg/L	0.67	62.61
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Dimethoate	0.61	=	µg/L	0.67	11.57
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Dissolved Solids	190	=	mg/L	0.67	3604.75
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Lead (D)	0.08	DNQ	µg/L	0.67	1.52
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Lead (T)	0.23	DNQ	µg/L	0.67	4.36
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Molybdenum (T)	2.8	=	µg/L	0.67	53.12
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Nickel (D)	1.5	=	µg/L	0.67	28.46
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Nickel (T)	1.9	=	µg/L	0.67	36.05
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Nitrate + Nitrite as N	1.6	=	mg/L	0.67	30.36
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Nitrogen, Total Kjeldahl	0.77	=	mg/L	0.67	14.61
Duck Slough @ Gurr Rd	E	04/21/09	13:20	OrthoPhosphate as P	0.56	=	mg/L	0.67	10.62
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Phosphate as P	0.65	=	mg/L	0.67	12.33
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Selenium (T)	0.19	DNQ	µg/L	0.67	3.60
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Total Organic Carbon	3.6	=	mg/L	0.67	68.30
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Zinc (D)	5.2	=	µg/L	0.67	98.66
Duck Slough @ Gurr Rd	E	04/21/09	13:20	Zinc (T)	7.2	=	µg/L	0.67	136.60
Duck Slough @ Gurr Rd	E	05/19/09	13:40	Boron (T)	47	=	µg/L	0.19	252.87
Duck Slough @ Gurr Rd	E	05/19/09	13:40	Copper (D)	7.3	=	µg/L	0.19	39.28
Duck Slough @ Gurr Rd	E	05/19/09	13:40	Copper (T)	15	=	µg/L	0.19	80.70
Duck Slough @ Gurr Rd	E	05/19/09	13:40	Dimethoate	0.11	=	µg/L	0.19	0.59
Duck Slough @ Gurr Rd	E	05/19/09	13:40	Dissolved Solids	180	=	mg/L	0.19	968.44
Duck Slough @ Gurr Rd	E	05/19/09	13:40	Nickel (D)	3.6	=	µg/L	0.19	19.37
Duck Slough @ Gurr Rd	E	05/19/09	13:40	Nickel (T)	11	=	µg/L	0.19	59.18
Duck Slough @ Gurr Rd	E	05/19/09	13:40	Nitrate + Nitrite as N	2.2	=	mg/L	0.19	11.84
Duck Slough @ Gurr Rd	E	05/19/09	13:40	Phosphate as P	0.63	=	mg/L	0.19	3.39
Duck Slough @ Gurr Rd	E	05/19/09	13:40	Selenium (T)	0.31	DNQ	µg/L	0.19	1.67

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Duck Slough @ Gurr Rd	E	05/19/09	13:40	Suspended Solids	84	=	mg/L	0.19	451.94
Duck Slough @ Gurr Rd	E	05/19/09	13:40	Total Organic Carbon	5.3	=	mg/L	0.19	28.52
Duck Slough @ Gurr Rd	E	05/19/09	13:40	Zinc (D)	5.5	=	µg/L	0.19	29.59
Duck Slough @ Gurr Rd	E	05/19/09	13:40	Zinc (T)	20	=	µg/L	0.19	107.60
Duck Slough @ Gurr Rd	E	06/16/09	12:30	Ammonia as N	0.32	=	mg/L	0.49	4.44
Duck Slough @ Gurr Rd	E	06/16/09	12:30	Dissolved Solids	120	=	mg/L	0.49	1665.04
Duck Slough @ Gurr Rd	E	06/16/09	12:30	Nitrate + Nitrite as N	1.3	=	mg/L	0.49	18.04
Duck Slough @ Gurr Rd	E	06/16/09	12:30	Phosphate as P	0.11	=	mg/L	0.49	1.53
Duck Slough @ Gurr Rd	E	06/16/09	12:30	Suspended Solids	38	=	mg/L	0.49	527.26
Duck Slough @ Gurr Rd	E	06/16/09	12:30	Total Organic Carbon	3	=	mg/L	0.49	41.63
Duck Slough @ Gurr Rd	E	07/21/09	13:20	Dissolved Solids	49	=	mg/L	2.35	3260.70
Duck Slough @ Gurr Rd	E	07/21/09	13:20	Nitrate + Nitrite as N	0.18	=	mg/L	2.35	11.98
Duck Slough @ Gurr Rd	E	07/21/09	13:20	Phosphate as P	0.13	=	mg/L	2.35	8.65
Duck Slough @ Gurr Rd	E	07/21/09	13:20	Suspended Solids	39	=	mg/L	2.35	2595.25
Duck Slough @ Gurr Rd	E	07/21/09	13:20	Total Organic Carbon	2.3	=	mg/L	2.35	153.05
Duck Slough @ Gurr Rd	E	08/18/09	15:40	Dissolved Solids	34	=	mg/L	2.16	2079.60
Duck Slough @ Gurr Rd	E	08/18/09	15:40	Nitrate + Nitrite as N	0.073	=	mg/L	2.16	4.47
Duck Slough @ Gurr Rd	E	08/18/09	15:40	Phosphate as P	0.097	=	mg/L	2.16	5.93
Duck Slough @ Gurr Rd	E	08/18/09	15:40	Suspended Solids	33	=	mg/L	2.16	2018.44
Duck Slough @ Gurr Rd	E	08/18/09	15:40	Total Organic Carbon	2.4	=	mg/L	2.16	146.80
Duck Slough @ Gurr Rd	E	09/22/09	14:50	Dissolved Solids	20	=	mg/L	1.73	979.77
Duck Slough @ Gurr Rd	E	09/22/09	14:50	Nitrate + Nitrite as N	0.047	DNQ	mg/L	1.73	2.30
Duck Slough @ Gurr Rd	E	09/22/09	14:50	Phosphate as P	0.1	=	mg/L	1.73	4.90
Duck Slough @ Gurr Rd	E	09/22/09	14:50	Suspended Solids	36	=	mg/L	1.73	1763.58
Duck Slough @ Gurr Rd	E	09/22/09	14:50	Total Organic Carbon	2.7	=	mg/L	1.73	132.27
Duck Slough @ Gurr Rd	E	10/20/09	12:30	Dissolved Solids	27	=	mg/L	1.72	1315.04
Duck Slough @ Gurr Rd	E	10/20/09	12:30	Nitrate + Nitrite as N	0.58	=	mg/L	1.72	28.25
Duck Slough @ Gurr Rd	E	10/20/09	12:30	Phosphate as P	0.046	=	mg/L	1.72	2.24
Duck Slough @ Gurr Rd	E	10/20/09	12:30	Suspended Solids	39	=	mg/L	1.72	1899.50
Duck Slough @ Gurr Rd	E	10/20/09	12:30	Total Organic Carbon	3	=	mg/L	1.72	146.12
Duck Slough @ Gurr Rd	E	11/17/09	12:10	Ammonia as N	0.32	=	mg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	11/17/09	12:10	Dissolved Solids	110	=	mg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	11/17/09	12:10	Nitrate + Nitrite as N	0.22	=	mg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	11/17/09	12:10	Phosphate as P	0.21	=	mg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	11/17/09	12:10	Suspended Solids	220	=	mg/L	0.00	0.00
Duck Slough @ Gurr Rd	E	11/17/09	12:10	Total Organic Carbon	4.6	=	mg/L	0.00	0.00
Highline Canal @ Hwy 99	E	02/07/09	14:20	Ammonia as N	0.27	=	mg/L	0.00	0.00
Highline Canal @ Hwy 99	E	02/07/09	14:20	Dissolved Solids	280	=	mg/L	0.00	0.00
Highline Canal @ Hwy 99	E	02/07/09	14:20	Nitrate + Nitrite as N	4.3	=	mg/L	0.00	0.00
Highline Canal @ Hwy 99	E	02/07/09	14:20	Nitrogen, Total Kjeldahl	3.8	=	mg/L	0.00	0.00
Highline Canal @ Hwy 99	E	02/07/09	14:20	OrthoPhosphate as P	0.1	=	mg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Highline Canal @ Hwy 99	E	02/07/09	14:20	Phosphate as P	0.33	=	mg/L	0.00	0.00
Highline Canal @ Hwy 99	E	02/07/09	14:20	Suspended Solids	4	=	mg/L	0.00	0.00
Highline Canal @ Hwy 99	E	02/07/09	14:20	Total Organic Carbon	18	=	mg/L	0.00	0.00
Highline Canal @ Hwy 99	E	04/21/09	15:50	Dissolved Solids	40	=	mg/L	8.64	9786.36
Highline Canal @ Hwy 99	E	04/21/09	15:50	Nitrate + Nitrite as N	0.27	=	mg/L	8.64	66.06
Highline Canal @ Hwy 99	E	04/21/09	15:50	Nitrogen, Total Kjeldahl	0.16	=	mg/L	8.64	39.15
Highline Canal @ Hwy 99	E	04/21/09	15:50	OrthoPhosphate as P	0.01	=	mg/L	8.64	2.45
Highline Canal @ Hwy 99	E	04/21/09	15:50	Phosphate as P	0.04	=	mg/L	8.64	9.79
Highline Canal @ Hwy 99	E	04/21/09	15:50	Total Organic Carbon	2.2	=	mg/L	8.64	538.25
Highline Canal @ Hwy 99	E	07/21/09	08:30	Ammonia as N	0.12	=	mg/L	118.93	404.13
Highline Canal @ Hwy 99	E	07/21/09	08:30	Chlorpyrifos	0.093	=	µg/L	118.93	313.20
Highline Canal @ Hwy 99	E	07/21/09	08:30	Dissolved Solids	22	=	mg/L	118.93	74090.30
Highline Canal @ Hwy 99	E	07/21/09	08:30	Phosphate as P	0.03	=	mg/L	118.93	101.03
Highline Canal @ Hwy 99	E	07/21/09	08:30	Suspended Solids	2.5	DNQ	mg/L	118.93	8419.35
Highline Canal @ Hwy 99	E	07/21/09	08:30	Total Organic Carbon	1.6	=	mg/L	118.93	5388.39
Highline Canal @ Hwy 99	E	12/15/09	15:50	Ammonia as N	0.44	=	mg/L	0.00	0.00
Highline Canal @ Hwy 99	E	12/15/09	15:50	Dissolved Solids	120	=	mg/L	0.00	0.00
Highline Canal @ Hwy 99	E	12/15/09	15:50	Nitrate + Nitrite as N	1.4	=	mg/L	0.00	0.00
Highline Canal @ Hwy 99	E	12/15/09	15:50	Phosphate as P	0.16	=	mg/L	0.00	0.00
Highline Canal @ Hwy 99	E	12/15/09	15:50	Suspended Solids	10	=	mg/L	0.00	0.00
Highline Canal @ Hwy 99	E	12/15/09	15:50	Total Organic Carbon	6.8	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Ammonia as N	0.54	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Arsenic (T)	2.2	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Boron (T)	29	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Cadmium (T)	0.02	DNQ	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Copper (D)	4	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Copper (T)	5.8	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Dissolved Solids	150	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Lead (D)	0.073	DNQ	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Lead (T)	0.3	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Molybdenum (T)	1	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Nickel (D)	0.63	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Nickel (T)	0.54	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Nitrate + Nitrite as N	3.6	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Nitrogen, Total Kjeldahl	5.4	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	OrthoPhosphate as P	0.085	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Phosphate as P	0.69	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Selenium (T)	0.16	DNQ	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Suspended Solids	31	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Total Organic Carbon	4.1	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Zinc (D)	1.7	=	µg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Howard Lateral @ Hwy 140	E	04/21/09	14:30	Zinc (T)	4.7	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	05/19/09	14:40	Boron (T)	78	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	05/19/09	14:40	Copper (D)	2.3	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	05/19/09	14:40	Copper (T)	2.4	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	05/19/09	14:40	Dissolved Solids	530	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	05/19/09	14:40	Nickel (D)	0.58	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	05/19/09	14:40	Nickel (T)	0.7	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	05/19/09	14:40	Nitrate + Nitrite as N	13	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	05/19/09	14:40	Phosphate as P	0.09	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	05/19/09	14:40	Selenium (T)	1.6	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	05/19/09	14:40	Suspended Solids	7	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	05/19/09	14:40	Total Organic Carbon	2.3	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	05/19/09	14:40	Zinc (T)	3.1	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	06/16/09	13:30	Ammonia as N	0.18	=	mg/L	5.93	30.23
Howard Lateral @ Hwy 140	E	06/16/09	13:30	Boron (T)	21	=	µg/L	5.93	3526.32
Howard Lateral @ Hwy 140	E	06/16/09	13:30	Copper (D)	2	=	µg/L	5.93	335.84
Howard Lateral @ Hwy 140	E	06/16/09	13:30	Copper (T)	3.2	=	µg/L	5.93	537.34
Howard Lateral @ Hwy 140	E	06/16/09	13:30	Dissolved Solids	110	=	mg/L	5.93	18471.18
Howard Lateral @ Hwy 140	E	06/16/09	13:30	Nickel (D)	0.49	DNQ	µg/L	5.93	82.28
Howard Lateral @ Hwy 140	E	06/16/09	13:30	Nickel (T)	0.46	DNQ	µg/L	5.93	77.24
Howard Lateral @ Hwy 140	E	06/16/09	13:30	Nitrate + Nitrite as N	2.9	=	mg/L	5.93	486.97
Howard Lateral @ Hwy 140	E	06/16/09	13:30	Phosphate as P	0.055	=	mg/L	5.93	9.24
Howard Lateral @ Hwy 140	E	06/16/09	13:30	Selenium (T)	0.3	DNQ	µg/L	5.93	50.38
Howard Lateral @ Hwy 140	E	06/16/09	13:30	Suspended Solids	8	=	mg/L	5.93	1343.36
Howard Lateral @ Hwy 140	E	06/16/09	13:30	Total Organic Carbon	2.1	=	mg/L	5.93	352.63
Howard Lateral @ Hwy 140	E	06/16/09	13:30	Zinc (T)	2.9	=	µg/L	5.93	486.97
Howard Lateral @ Hwy 140	E	07/21/09	15:30	Boron (T)	23	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	07/21/09	15:30	Copper (D)	3.2	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	07/21/09	15:30	Copper (T)	4.3	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	07/21/09	15:30	Dissolved Solids	160	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	07/21/09	15:30	Nickel (D)	0.33	DNQ	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	07/21/09	15:30	Nickel (T)	0.4	DNQ	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	07/21/09	15:30	Nitrate + Nitrite as N	3.6	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	07/21/09	15:30	Phosphate as P	0.073	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	07/21/09	15:30	Selenium (T)	0.32	DNQ	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	07/21/09	15:30	Suspended Solids	17	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	07/21/09	15:30	Total Organic Carbon	5	=	mg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	07/21/09	15:30	Zinc (T)	3.3	=	µg/L	0.00	0.00
Howard Lateral @ Hwy 140	E	08/18/09	16:30	Boron (T)	11	=	µg/L	2.47	769.37
Howard Lateral @ Hwy 140	E	08/18/09	16:30	Copper (D)	2	=	µg/L	2.47	139.89
Howard Lateral @ Hwy 140	E	08/18/09	16:30	Copper (T)	3.2	=	µg/L	2.47	223.82

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Howard Lateral @ Hwy 140	E	08/18/09	16:30	Dissolved Solids	52	=	mg/L	2.47	3637.04
Howard Lateral @ Hwy 140	E	08/18/09	16:30	Nickel (D)	0.42	DNQ	µg/L	2.47	29.38
Howard Lateral @ Hwy 140	E	08/18/09	16:30	Nickel (T)	0.38	DNQ	µg/L	2.47	26.58
Howard Lateral @ Hwy 140	E	08/18/09	16:30	Nitrate + Nitrite as N	0.42	=	mg/L	2.47	29.38
Howard Lateral @ Hwy 140	E	08/18/09	16:30	Phosphate as P	0.044	=	mg/L	2.47	3.08
Howard Lateral @ Hwy 140	E	08/18/09	16:30	Selenium (T)	0.11	DNQ	µg/L	2.47	7.69
Howard Lateral @ Hwy 140	E	08/18/09	16:30	Total Organic Carbon	2.3	=	mg/L	2.47	160.87
Howard Lateral @ Hwy 140	E	08/18/09	16:30	Zinc (T)	1.7	=	µg/L	2.47	118.90
Howard Lateral @ Hwy 140	E	09/22/09	17:00	Ammonia as N	0.066	DNQ	mg/L	11.28	21.08
Howard Lateral @ Hwy 140	E	09/22/09	17:00	Boron (T)	7.2	DNQ	µg/L	11.28	2299.79
Howard Lateral @ Hwy 140	E	09/22/09	17:00	Copper (D)	2.2	=	µg/L	11.28	702.71
Howard Lateral @ Hwy 140	E	09/22/09	17:00	Copper (T)	4	=	µg/L	11.28	1277.66
Howard Lateral @ Hwy 140	E	09/22/09	17:00	Dissolved Solids	30	=	mg/L	11.28	9582.47
Howard Lateral @ Hwy 140	E	09/22/09	17:00	Nickel (D)	0.51	=	µg/L	11.28	162.90
Howard Lateral @ Hwy 140	E	09/22/09	17:00	Nickel (T)	0.4	DNQ	µg/L	11.28	127.77
Howard Lateral @ Hwy 140	E	09/22/09	17:00	Nitrate + Nitrite as N	0.2	=	mg/L	11.28	63.88
Howard Lateral @ Hwy 140	E	09/22/09	17:00	Phosphate as P	0.052	=	mg/L	11.28	16.61
Howard Lateral @ Hwy 140	E	09/22/09	17:00	Suspended Solids	2	DNQ	mg/L	11.28	638.83
Howard Lateral @ Hwy 140	E	09/22/09	17:00	Total Organic Carbon	2.5	=	mg/L	11.28	798.54
Howard Lateral @ Hwy 140	E	09/22/09	17:00	Zinc (D)	1.6	=	µg/L	11.28	511.07
Howard Lateral @ Hwy 140	E	09/22/09	17:00	Zinc (T)	2.4	=	µg/L	11.28	766.60
Howard Lateral @ Hwy 140	E	10/20/09	13:50	Ammonia as N	0.077	DNQ	mg/L	2.37	5.17
Howard Lateral @ Hwy 140	E	10/20/09	13:50	Boron (T)	7.2	DNQ	µg/L	2.37	483.20
Howard Lateral @ Hwy 140	E	10/20/09	13:50	Copper (D)	3.3	=	µg/L	2.37	221.47
Howard Lateral @ Hwy 140	E	10/20/09	13:50	Copper (T)	4.2	=	µg/L	2.37	281.87
Howard Lateral @ Hwy 140	E	10/20/09	13:50	Dissolved Solids	26	=	mg/L	2.37	1744.89
Howard Lateral @ Hwy 140	E	10/20/09	13:50	Nickel (D)	0.65	=	µg/L	2.37	43.62
Howard Lateral @ Hwy 140	E	10/20/09	13:50	Nickel (T)	0.46	DNQ	µg/L	2.37	30.87
Howard Lateral @ Hwy 140	E	10/20/09	13:50	Nitrate + Nitrite as N	0.43	=	mg/L	2.37	28.86
Howard Lateral @ Hwy 140	E	10/20/09	13:50	Phosphate as P	0.055	=	mg/L	2.37	3.69
Howard Lateral @ Hwy 140	E	10/20/09	13:50	Selenium (T)	0.06	DNQ	µg/L	2.37	4.03
Howard Lateral @ Hwy 140	E	10/20/09	13:50	Total Organic Carbon	3	=	mg/L	2.37	201.33
Howard Lateral @ Hwy 140	E	10/20/09	13:50	Zinc (D)	2.3	=	µg/L	2.37	154.36
Howard Lateral @ Hwy 140	E	10/20/09	13:50	Zinc (T)	2.8	=	µg/L	2.37	187.91
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	Ammonia as N	0.088	DNQ	mg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Ammonia as N	0.055	DNQ	mg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Arsenic (T)	2	=	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	Arsenic (T)	1.9	=	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	Boron (T)	67	=	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Boron (T)	69	=	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	Copper (D)	1.7	=	µg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Copper (D)	1.8	=	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	Copper (T)	2.1	=	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Copper (T)	2.2	=	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Dissolved Solids	300	=	mg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	Dissolved Solids	300	=	mg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	Molybdenum (T)	1.4	=	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Molybdenum (T)	1.4	=	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Nickel (D)	0.7	=	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	Nickel (D)	0.6	=	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Nickel (T)	0.7	=	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	Nickel (T)	0.7	=	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	Nitrate + Nitrite as N	7	=	mg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Nitrate + Nitrite as N	6.7	=	mg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	Nitrogen, Total Kjeldahl	0.87	=	mg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Nitrogen, Total Kjeldahl	0.83	=	mg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	OrthoPhosphate as P	0.016	=	mg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	OrthoPhosphate as P	0.013	=	mg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	Phosphate as P	0.069	=	mg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Phosphate as P	0.09	=	mg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	Selenium (T)	0.2	DNQ	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Selenium (T)	0.2	DNQ	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Suspended Solids	55	=	mg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	Suspended Solids	68	=	mg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	Total Organic Carbon	5	=	mg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Total Organic Carbon	5	=	mg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Zinc (D)	2	=	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Zinc (T)	2	=	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	E	10/21/08	10:40	Zinc (T)	2	=	µg/L	0.00	0.00
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	Arsenic (T)	1.2	=	µg/L	16.15	548.78
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	Boron (T)	16	=	µg/L	16.15	7317.11
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	Copper (D)	0.69	=	µg/L	16.15	315.55
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	Copper (T)	1	=	µg/L	16.15	457.32
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	Dissolved Solids	60	=	mg/L	16.15	27439.17
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	Lead (T)	0.1	DNQ	µg/L	16.15	45.73
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	Molybdenum (T)	0.44	=	µg/L	16.15	201.22
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	Nickel (D)	0.73	=	µg/L	16.15	333.84
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	Nickel (T)	0.6	=	µg/L	16.15	274.39
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	Nitrate + Nitrite as N	1.1	=	mg/L	16.15	503.05
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	Nitrogen, Total Kjeldahl	0.3	=	mg/L	16.15	137.20
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	Phosphate as P	0.021	=	mg/L	16.15	9.60
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	Selenium (T)	0.06	DNQ	µg/L	16.15	27.44

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	Total Organic Carbon	3.1	=	mg/L	16.15	1417.69
Lateral 2 1/2 near Keys Rd	E	04/21/09	12:50	Zinc (T)	1.3	=	µg/L	16.15	594.52
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	Boron (T)	43	=	µg/L	5.07	6173.39
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	Copper (D)	0.57	=	µg/L	5.07	81.83
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	Copper (T)	0.87	=	µg/L	5.07	124.90
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	Dissolved Solids	240	=	mg/L	5.07	34456.13
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	Nickel (D)	0.55	=	µg/L	5.07	78.96
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	Nickel (T)	0.57	=	µg/L	5.07	81.83
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	Nitrate + Nitrite as N	7.8	=	mg/L	5.07	1119.82
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	Phosphate as P	0.12	=	mg/L	5.07	17.23
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	Selenium (T)	0.22	DNQ	µg/L	5.07	31.58
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	Total Organic Carbon	2	=	mg/L	5.07	287.13
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	Zinc (D)	2	=	µg/L	5.07	287.13
Lateral 2 1/2 near Keys Rd	E	05/19/09	13:00	Zinc (T)	1.7	=	µg/L	5.07	244.06
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	Ammonia as N	0.15	=	mg/L	1.55	6.58
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	Boron (T)	49	=	µg/L	1.55	2150.68
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	Copper (D)	0.57	=	µg/L	1.55	25.02
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	Copper (T)	1.1	=	µg/L	1.55	48.28
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	Dissolved Solids	250	=	mg/L	1.55	10972.84
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	Nickel (D)	0.56	=	µg/L	1.55	24.58
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	Nickel (T)	0.57	=	µg/L	1.55	25.02
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	Nitrate + Nitrite as N	8.1	=	mg/L	1.55	355.52
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	Phosphate as P	0.032	=	mg/L	1.55	1.40
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	Selenium (T)	0.26	DNQ	µg/L	1.55	11.41
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	Total Organic Carbon	1.6	=	mg/L	1.55	70.23
Lateral 2 1/2 near Keys Rd	E	06/16/09	12:20	Zinc (T)	0.8	DNQ	µg/L	1.55	35.11
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	Boron (T)	86	=	µg/L	15.81	38501.49
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	Copper (D)	0.49	DNQ	µg/L	15.81	219.37
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	Copper (T)	0.71	=	µg/L	15.81	317.86
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	Dissolved Solids	420	=	mg/L	15.81	188030.54
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	Nickel (D)	0.37	DNQ	µg/L	15.81	165.65
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	Nickel (T)	0.42	DNQ	µg/L	15.81	188.03
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	Nitrate + Nitrite as N	15	=	mg/L	15.81	6715.38
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	Phosphate as P	0.054	=	mg/L	15.81	24.18
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	Selenium (T)	0.45	DNQ	µg/L	15.81	201.46
Lateral 2 1/2 near Keys Rd	E	08/18/09	15:10	Total Organic Carbon	1.7	=	mg/L	15.81	761.08
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	Boron (T)	22	=	µg/L	8.41	5239.21
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	Copper (D)	0.1	DNQ	µg/L	8.41	23.81
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	Copper (T)	1.7	=	µg/L	8.41	404.85
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	Dissolved Solids	120	=	mg/L	8.41	28577.52
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	Nickel (D)	0.35	DNQ	µg/L	8.41	83.35

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	Nickel (T)	0.92	=	µg/L	8.41	219.09
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	Nitrate + Nitrite as N	2.5	=	mg/L	8.41	595.36
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	Phosphate as P	0.062	=	mg/L	8.41	14.77
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	Selenium (T)	0.1	DNQ	µg/L	8.41	23.81
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	Suspended Solids	29	=	mg/L	8.41	6906.23
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	Total Organic Carbon	2.1	=	mg/L	8.41	500.11
Lateral 2 1/2 near Keys Rd	E	09/22/09	12:20	Zinc (T)	3.4	=	µg/L	8.41	809.70
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	Ammonia as N	0.077	DNQ	mg/L	13.53	29.50
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	Boron (T)	5.4	DNQ	µg/L	13.53	2068.90
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	Copper (D)	0.7	=	µg/L	13.53	268.19
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	Copper (T)	1	=	µg/L	13.53	383.13
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	Dissolved Solids	16	=	mg/L	13.53	6130.06
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	Nickel (D)	0.45	DNQ	µg/L	13.53	172.41
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	Nickel (T)	0.58	=	µg/L	13.53	222.21
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	Nitrate + Nitrite as N	0.14	=	mg/L	13.53	53.64
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	Phosphate as P	0.029	=	mg/L	13.53	11.11
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	Suspended Solids	4	=	mg/L	13.53	1532.52
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	Total Organic Carbon	2.4	=	mg/L	13.53	919.51
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	Zinc (D)	0.97	DNQ	µg/L	13.53	371.64
Lateral 2 1/2 near Keys Rd	E	10/20/09	12:40	Zinc (T)	1.8	=	µg/L	13.53	689.63
Merced River @ Santa Fe	E	10/21/08	15:00	Arsenic (T)	0.53	=	µg/L	264.00	3962.11
Merced River @ Santa Fe	E	10/21/08	15:00	Boron (T)	7	DNQ	µg/L	264.00	52329.82
Merced River @ Santa Fe	E	10/21/08	15:00	Copper (D)	0.6	=	µg/L	264.00	4485.41
Merced River @ Santa Fe	E	10/21/08	15:00	Copper (T)	0.8	=	µg/L	264.00	5980.55
Merced River @ Santa Fe	E	10/21/08	15:00	Dissolved Solids	23	=	mg/L	264.00	171940.82
Merced River @ Santa Fe	E	10/21/08	15:00	Molybdenum (T)	0.35	=	µg/L	264.00	2616.49
Merced River @ Santa Fe	E	10/21/08	15:00	Nickel (D)	0.2	DNQ	µg/L	264.00	1495.14
Merced River @ Santa Fe	E	10/21/08	15:00	Nickel (T)	0.3	DNQ	µg/L	264.00	2242.71
Merced River @ Santa Fe	E	10/21/08	15:00	Nitrate + Nitrite as N	0.093	=	mg/L	264.00	695.24
Merced River @ Santa Fe	E	10/21/08	15:00	Nitrogen, Total Kjeldahl	0.12	=	mg/L	264.00	897.08
Merced River @ Santa Fe	E	10/21/08	15:00	OrthoPhosphate as P	0.008	DNQ	mg/L	264.00	59.81
Merced River @ Santa Fe	E	10/21/08	15:00	Phosphate as P	0.035	=	mg/L	264.00	261.65
Merced River @ Santa Fe	E	10/21/08	15:00	Total Organic Carbon	2.1	=	mg/L	264.00	15698.94
Merced River @ Santa Fe	E	11/11/08	13:00	Arsenic (T)	0.6	=	µg/L	294.00	4995.12
Merced River @ Santa Fe	E	11/11/08	13:00	Boron (T)	5	DNQ	µg/L	294.00	41625.99
Merced River @ Santa Fe	E	11/11/08	13:00	Chlorpyrifos	0.1	=	µg/L	294.00	832.52
Merced River @ Santa Fe	E	11/11/08	13:00	Copper (D)	0.6	=	µg/L	294.00	4995.12
Merced River @ Santa Fe	E	11/11/08	13:00	Copper (T)	1.2	=	µg/L	294.00	9990.24
Merced River @ Santa Fe	E	11/11/08	13:00	Dissolved Solids	17	=	mg/L	294.00	141528.37
Merced River @ Santa Fe	E	11/11/08	13:00	HCH, delta	0.051	=	µg/L	294.00	424.59
Merced River @ Santa Fe	E	11/11/08	13:00	Lead (T)	0.3	=	µg/L	294.00	2497.56

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Merced River @ Santa Fe	E	11/11/08	13:00	Molybdenum (T)	0.38	=	µg/L	294.00	3163.58
Merced River @ Santa Fe	E	11/11/08	13:00	Nickel (D)	0.3	DNQ	µg/L	294.00	2497.56
Merced River @ Santa Fe	E	11/11/08	13:00	Nickel (T)	0.6	=	µg/L	294.00	4995.12
Merced River @ Santa Fe	E	11/11/08	13:00	Nitrate + Nitrite as N	0.15	=	mg/L	294.00	1248.78
Merced River @ Santa Fe	E	11/11/08	13:00	Nitrogen, Total Kjeldahl	0.21	=	mg/L	294.00	1748.29
Merced River @ Santa Fe	E	11/11/08	13:00	OrthoPhosphate as P	0.011	=	mg/L	294.00	91.58
Merced River @ Santa Fe	E	11/11/08	13:00	Phosphate as P	0.034	=	mg/L	294.00	283.06
Merced River @ Santa Fe	E	11/11/08	13:00	Total Organic Carbon	2	=	mg/L	294.00	16650.40
Merced River @ Santa Fe	E	11/11/08	13:00	Zinc (T)	2	=	µg/L	294.00	16650.40
Merced River @ Santa Fe	E	12/16/08	13:00	Arsenic (T)	0.48	DNQ	µg/L	297.00	4036.87
Merced River @ Santa Fe	E	12/16/08	13:00	Boron (T)	4	DNQ	µg/L	297.00	33640.60
Merced River @ Santa Fe	E	12/16/08	13:00	Copper (D)	0.45	DNQ	µg/L	297.00	3784.57
Merced River @ Santa Fe	E	12/16/08	13:00	Copper (T)	0.6	=	µg/L	297.00	5046.09
Merced River @ Santa Fe	E	12/16/08	13:00	Dissolved Solids	14	=	mg/L	297.00	117742.09
Merced River @ Santa Fe	E	12/16/08	13:00	Molybdenum (T)	0.38	=	µg/L	297.00	3195.86
Merced River @ Santa Fe	E	12/16/08	13:00	Nickel (D)	0.3	DNQ	µg/L	297.00	2523.04
Merced River @ Santa Fe	E	12/16/08	13:00	Nickel (T)	0.2	DNQ	µg/L	297.00	1682.03
Merced River @ Santa Fe	E	12/16/08	13:00	Nitrate + Nitrite as N	0.13	=	mg/L	297.00	1093.32
Merced River @ Santa Fe	E	12/16/08	13:00	Nitrogen, Total Kjeldahl	0.16	=	mg/L	297.00	1345.62
Merced River @ Santa Fe	E	12/16/08	13:00	Phosphate as P	0.041	=	mg/L	297.00	344.82
Merced River @ Santa Fe	E	12/16/08	13:00	Total Organic Carbon	1.9	=	mg/L	297.00	15979.28
Merced River @ Santa Fe	E	01/20/09	14:10	Arsenic (T)	0.5	=	µg/L	222.00	3143.19
Merced River @ Santa Fe	E	01/20/09	14:10	Boron (T)	6	DNQ	µg/L	222.00	37718.24
Merced River @ Santa Fe	E	01/20/09	14:10	Copper (D)	0.4	DNQ	µg/L	222.00	2514.55
Merced River @ Santa Fe	E	01/20/09	14:10	Copper (T)	0.6	=	µg/L	222.00	3771.82
Merced River @ Santa Fe	E	01/20/09	14:10	Diazinon	0.018	DNQ	µg/L	222.00	113.15
Merced River @ Santa Fe	E	01/20/09	14:10	Dissolved Solids	21	=	mg/L	222.00	132013.85
Merced River @ Santa Fe	E	01/20/09	14:10	Molybdenum (T)	0.54	=	µg/L	222.00	3394.64
Merced River @ Santa Fe	E	01/20/09	14:10	Nickel (D)	0.3	DNQ	µg/L	222.00	1885.91
Merced River @ Santa Fe	E	01/20/09	14:10	Nickel (T)	0.2	DNQ	µg/L	222.00	1257.27
Merced River @ Santa Fe	E	01/20/09	14:10	Nitrate + Nitrite as N	0.039	DNQ	mg/L	222.00	245.17
Merced River @ Santa Fe	E	01/20/09	14:10	Phosphate as P	0.022	=	mg/L	222.00	138.30
Merced River @ Santa Fe	E	01/20/09	14:10	Total Organic Carbon	2.7	=	mg/L	222.00	16973.21
Merced River @ Santa Fe	E	02/07/09	14:20	Arsenic (T)	0.62	=	µg/L	241.00	4231.13
Merced River @ Santa Fe	E	02/07/09	14:20	Boron (T)	7	DNQ	µg/L	241.00	47770.78
Merced River @ Santa Fe	E	02/07/09	14:20	Copper (D)	0.49	DNQ	µg/L	241.00	3343.95
Merced River @ Santa Fe	E	02/07/09	14:20	Copper (T)	0.9	=	µg/L	241.00	6141.96
Merced River @ Santa Fe	E	02/07/09	14:20	Diazinon	0.0086	DNQ	µg/L	241.00	58.69
Merced River @ Santa Fe	E	02/07/09	14:20	Dissolved Solids	26	=	mg/L	241.00	177434.32
Merced River @ Santa Fe	E	02/07/09	14:20	Lead (T)	0.11	DNQ	µg/L	241.00	750.68
Merced River @ Santa Fe	E	02/07/09	14:20	Molybdenum (T)	0.59	=	µg/L	241.00	4026.39

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Merced River @ Santa Fe	E	02/07/09	14:20	Nickel (D)	0.4	DNQ	µg/L	241.00	2729.76
Merced River @ Santa Fe	E	02/07/09	14:20	Nickel (T)	0.46	DNQ	µg/L	241.00	3139.22
Merced River @ Santa Fe	E	02/07/09	14:20	Nitrate + Nitrite as N	0.24	=	mg/L	241.00	1637.86
Merced River @ Santa Fe	E	02/07/09	14:20	Nitrogen, Total Kjeldahl	0.16	=	mg/L	241.00	1091.90
Merced River @ Santa Fe	E	02/07/09	14:20	OrthoPhosphate as P	0.006	DNQ	mg/L	241.00	40.95
Merced River @ Santa Fe	E	02/07/09	14:20	Phosphate as P	0.031	=	mg/L	241.00	211.56
Merced River @ Santa Fe	E	02/07/09	14:20	Total Organic Carbon	2.8	=	mg/L	241.00	19108.31
Merced River @ Santa Fe	E	02/07/09	14:20	Zinc (T)	1	=	µg/L	241.00	6824.40
Merced River @ Santa Fe	E	03/17/09	13:20	Arsenic (T)	0.68	=	µg/L	261.00	5025.70
Merced River @ Santa Fe	E	03/17/09	13:20	Boron (T)	6.8	DNQ	µg/L	261.00	50257.01
Merced River @ Santa Fe	E	03/17/09	13:20	Copper (D)	0.73	=	µg/L	261.00	5395.24
Merced River @ Santa Fe	E	03/17/09	13:20	Copper (T)	1	=	µg/L	261.00	7390.74
Merced River @ Santa Fe	E	03/17/09	13:20	Dissolved Solids	39	=	mg/L	261.00	288238.74
Merced River @ Santa Fe	E	03/17/09	13:20	Lead (T)	0.1	DNQ	µg/L	261.00	739.07
Merced River @ Santa Fe	E	03/17/09	13:20	Molybdenum (T)	0.67	=	µg/L	261.00	4951.79
Merced River @ Santa Fe	E	03/17/09	13:20	Nickel (D)	0.43	DNQ	µg/L	261.00	3178.02
Merced River @ Santa Fe	E	03/17/09	13:20	Nickel (T)	0.42	DNQ	µg/L	261.00	3104.11
Merced River @ Santa Fe	E	03/17/09	13:20	Nitrogen, Total Kjeldahl	0.22	=	mg/L	261.00	1625.96
Merced River @ Santa Fe	E	03/17/09	13:20	Phosphate as P	0.027	=	mg/L	261.00	199.55
Merced River @ Santa Fe	E	03/17/09	13:20	Selenium (T)	0.14	DNQ	µg/L	261.00	1034.70
Merced River @ Santa Fe	E	03/17/09	13:20	Total Organic Carbon	2.3	=	mg/L	261.00	16998.70
Merced River @ Santa Fe	E	03/17/09	13:20	Zinc (D)	1.2	=	µg/L	261.00	8868.88
Merced River @ Santa Fe	E	03/17/09	13:20	Zinc (T)	0.9	DNQ	µg/L	261.00	6651.66
Merced River @ Santa Fe	E	04/21/09	15:50	Arsenic (T)	0.79	=	µg/L	211.00	4720.16
Merced River @ Santa Fe	E	04/21/09	15:50	Boron (T)	7.6	DNQ	µg/L	211.00	45409.14
Merced River @ Santa Fe	E	04/21/09	15:50	Copper (D)	0.79	=	µg/L	211.00	4720.16
Merced River @ Santa Fe	E	04/21/09	15:50	Copper (T)	1.1	=	µg/L	211.00	6572.38
Merced River @ Santa Fe	E	04/21/09	15:50	Dissolved Solids	40	=	mg/L	211.00	238995.48
Merced River @ Santa Fe	E	04/21/09	15:50	Lead (T)	0.1	DNQ	µg/L	211.00	597.49
Merced River @ Santa Fe	E	04/21/09	15:50	Molybdenum (T)	0.68	=	µg/L	211.00	4062.92
Merced River @ Santa Fe	E	04/21/09	15:50	Nickel (D)	0.51	=	µg/L	211.00	3047.19
Merced River @ Santa Fe	E	04/21/09	15:50	Nickel (T)	0.44	DNQ	µg/L	211.00	2628.95
Merced River @ Santa Fe	E	04/21/09	15:50	Nitrate + Nitrite as N	0.11	=	mg/L	211.00	657.24
Merced River @ Santa Fe	E	04/21/09	15:50	Nitrogen, Total Kjeldahl	0.21	=	mg/L	211.00	1254.73
Merced River @ Santa Fe	E	04/21/09	15:50	OrthoPhosphate as P	0.01	=	mg/L	211.00	59.75
Merced River @ Santa Fe	E	04/21/09	15:50	Phosphate as P	0.033	=	mg/L	211.00	197.17
Merced River @ Santa Fe	E	04/21/09	15:50	Selenium (T)	0.09	DNQ	µg/L	211.00	537.74
Merced River @ Santa Fe	E	04/21/09	15:50	Total Organic Carbon	2.3	=	mg/L	211.00	13742.24
Merced River @ Santa Fe	E	04/21/09	15:50	Zinc (T)	1.4	=	µg/L	211.00	8364.84
Merced River @ Santa Fe	E	05/19/09	15:30	Boron (T)	7.6	DNQ	µg/L	208.00	44763.51
Merced River @ Santa Fe	E	05/19/09	15:30	Copper (D)	0.7	=	µg/L	208.00	4122.96

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Merced River @ Santa Fe	E	05/19/09	15:30	Copper (T)	1	=	µg/L	208.00	5889.94
Merced River @ Santa Fe	E	05/19/09	15:30	Dissolved Solids	40	=	mg/L	208.00	235597.44
Merced River @ Santa Fe	E	05/19/09	15:30	Disulfoton	0.021	DNQ	µg/L	208.00	123.69
Merced River @ Santa Fe	E	05/19/09	15:30	Nickel (D)	0.53	=	µg/L	208.00	3121.67
Merced River @ Santa Fe	E	05/19/09	15:30	Nickel (T)	0.42	DNQ	µg/L	208.00	2473.77
Merced River @ Santa Fe	E	05/19/09	15:30	Nitrate + Nitrite as N	0.049	DNQ	mg/L	208.00	288.61
Merced River @ Santa Fe	E	05/19/09	15:30	Phosphate as P	0.077	=	mg/L	208.00	453.53
Merced River @ Santa Fe	E	05/19/09	15:30	Selenium (T)	0.09	DNQ	µg/L	208.00	530.09
Merced River @ Santa Fe	E	05/19/09	15:30	Total Organic Carbon	2.6	=	mg/L	208.00	15313.83
Merced River @ Santa Fe	E	05/19/09	15:30	Zinc (T)	1.6	=	µg/L	208.00	9423.90
Merced River @ Santa Fe	E	06/16/09	14:40	Ammonia as N	0.088	DNQ	mg/L	211.00	525.79
Merced River @ Santa Fe	E	06/16/09	14:40	Copper (D)	0.58	=	µg/L	211.00	3465.43
Merced River @ Santa Fe	E	06/16/09	14:40	Copper (T)	0.9	=	µg/L	211.00	5377.40
Merced River @ Santa Fe	E	06/16/09	14:40	Dissolved Solids	27	=	mg/L	211.00	161321.95
Merced River @ Santa Fe	E	06/16/09	14:40	Nitrate + Nitrite as N	0.16	=	mg/L	211.00	955.98
Merced River @ Santa Fe	E	06/16/09	14:40	Phosphate as P	0.045	=	mg/L	211.00	268.87
Merced River @ Santa Fe	E	06/16/09	14:40	Total Organic Carbon	2.3	=	mg/L	211.00	13742.24
Merced River @ Santa Fe	E	07/21/09	15:40	Ammonia as N	0.066	DNQ	mg/L	88.00	164.47
Merced River @ Santa Fe	E	07/21/09	15:40	Copper (D)	0.8	=	µg/L	88.00	1993.52
Merced River @ Santa Fe	E	07/21/09	15:40	Copper (T)	0.41	DNQ	µg/L	88.00	1021.68
Merced River @ Santa Fe	E	07/21/09	15:40	Dissolved Solids	32	=	mg/L	88.00	79740.67
Merced River @ Santa Fe	E	07/21/09	15:40	Nitrate + Nitrite as N	0.041	DNQ	mg/L	88.00	102.17
Merced River @ Santa Fe	E	07/21/09	15:40	Phosphate as P	0.04	=	mg/L	88.00	99.68
Merced River @ Santa Fe	E	07/21/09	15:40	Total Organic Carbon	2.2	=	mg/L	88.00	5482.17
Merced River @ Santa Fe	E	08/18/09	18:00	Copper (D)	0.76	=	µg/L	56.00	1205.17
Merced River @ Santa Fe	E	08/18/09	18:00	Copper (T)	1.1	=	µg/L	56.00	1744.33
Merced River @ Santa Fe	E	08/18/09	18:00	Dissolved Solids	34	=	mg/L	56.00	53915.57
Merced River @ Santa Fe	E	08/18/09	18:00	Nitrate + Nitrite as N	0.043	DNQ	mg/L	56.00	68.19
Merced River @ Santa Fe	E	08/18/09	18:00	Phosphate as P	0.045	=	mg/L	56.00	71.36
Merced River @ Santa Fe	E	08/18/09	18:00	Total Organic Carbon	2.5	=	mg/L	56.00	3964.38
Merced River @ Santa Fe	E	09/22/09	15:10	Copper (D)	0.28	DNQ	µg/L	78.00	618.44
Merced River @ Santa Fe	E	09/22/09	15:10	Copper (T)	0.97	=	µg/L	78.00	2142.46
Merced River @ Santa Fe	E	09/22/09	15:10	Dissolved Solids	26	=	mg/L	78.00	57426.88
Merced River @ Santa Fe	E	09/22/09	15:10	Nitrate + Nitrite as N	0.16	=	mg/L	78.00	353.40
Merced River @ Santa Fe	E	09/22/09	15:10	Phosphate as P	0.045	=	mg/L	78.00	99.39
Merced River @ Santa Fe	E	09/22/09	15:10	Total Organic Carbon	2.3	=	mg/L	78.00	5080.07
Merced River @ Santa Fe	E	10/20/09	15:50	Copper (D)	0.61	=	µg/L	141.00	2435.55
Merced River @ Santa Fe	E	10/20/09	15:50	Copper (T)	0.82	=	µg/L	141.00	3274.01
Merced River @ Santa Fe	E	10/20/09	15:50	Dissolved Solids	16	=	mg/L	141.00	63883.15
Merced River @ Santa Fe	E	10/20/09	15:50	Nitrate + Nitrite as N	0.4	=	mg/L	141.00	1597.08
Merced River @ Santa Fe	E	10/20/09	15:50	Phosphate as P	0.029	=	mg/L	141.00	115.79

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Merced River @ Santa Fe	E	10/20/09	15:50	Total Organic Carbon	2.3	=	mg/L	141.00	9183.20
Merced River @ Santa Fe	E	11/17/09	14:30	Ammonia as N	0.066	DNQ	mg/L	180.00	336.41
Merced River @ Santa Fe	E	11/17/09	14:30	Copper (D)	0.35	DNQ	µg/L	180.00	1783.97
Merced River @ Santa Fe	E	11/17/09	14:30	Copper (T)	0.51	=	µg/L	180.00	2599.50
Merced River @ Santa Fe	E	11/17/09	14:30	Dissolved Solids	25	=	mg/L	180.00	127426.50
Merced River @ Santa Fe	E	11/17/09	14:30	Nitrate + Nitrite as N	0.064	=	mg/L	180.00	326.21
Merced River @ Santa Fe	E	11/17/09	14:30	Phosphate as P	0.032	=	mg/L	180.00	163.11
Merced River @ Santa Fe	E	11/17/09	14:30	Total Organic Carbon	2.3	=	mg/L	180.00	11723.24
Merced River @ Santa Fe	E	12/15/09	14:40	Ammonia as N	0.18	=	mg/L	194.00	988.83
Merced River @ Santa Fe	E	12/15/09	14:40	Copper (D)	0.54	=	µg/L	194.00	2966.49
Merced River @ Santa Fe	E	12/15/09	14:40	Copper (T)	0.6	=	µg/L	194.00	3296.10
Merced River @ Santa Fe	E	12/15/09	14:40	Dissolved Solids	24	=	mg/L	194.00	131843.95
Merced River @ Santa Fe	E	12/15/09	14:40	Nitrate + Nitrite as N	0.2	=	mg/L	194.00	1098.70
Merced River @ Santa Fe	E	12/15/09	14:40	Phosphate as P	0.022	=	mg/L	194.00	120.86
Merced River @ Santa Fe	E	12/15/09	14:40	Total Organic Carbon	1.9	=	mg/L	194.00	10437.65
Miles Creek @ Reilly Rd	E	07/21/09	14:00	Chlorpyrifos	0.028	=	µg/L	1.86	1.47
Miles Creek @ Reilly Rd	E	07/21/09	14:00	Copper (D)	1.5	=	µg/L	1.86	79.00
Miles Creek @ Reilly Rd	E	07/21/09	14:00	Copper (T)	3.3	=	µg/L	1.86	173.81
Miles Creek @ Reilly Rd	E	08/18/09	13:20	Copper (D)	1.6	=	µg/L	7.02	318.06
Miles Creek @ Reilly Rd	E	08/18/09	13:20	Copper (T)	5	=	µg/L	7.02	993.93
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Ammonia as N	0.38	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Arsenic (T)	2.5	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Boron (T)	16	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Cadmium (D)	0.013	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Cadmium (T)	0.1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Copper (D)	3.3	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Copper (T)	13	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Dissolved Solids	62	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Lead (D)	0.7	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Lead (T)	6.1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Molybdenum (T)	0.93	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Nickel (D)	2	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Nickel (T)	7	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Nitrate + Nitrite as N	0.26	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Nitrogen, Total Kjeldahl	7.8	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	OrthoPhosphate as P	0.28	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Phosphate as P	1.4	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Selenium (T)	0.14	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Suspended Solids	110	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Total Organic Carbon	23	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Zinc (D)	6	=	µg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Mootz Drain @ Langworth Rd	E	11/11/08	08:30	Zinc (T)	47	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Ammonia as N	0.13	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Arsenic (T)	2.5	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Boron (T)	25	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Cadmium (D)	0.011	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Cadmium (T)	0.02	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Chlorpyrifos	0.017	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Copper (D)	2.1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Copper (T)	2.5	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Cyanazine	0.13	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Diazinon	0.013	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Dissolved Solids	350	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Glyphosate	25	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Lead (T)	0.16	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Molybdenum (T)	0.65	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Nickel (D)	0.8	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Nickel (T)	1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Nitrate + Nitrite as N	5.8	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Nitrogen, Total Kjeldahl	0.92	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	OrthoPhosphate as P	0.076	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Phosphate as P	0.22	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Total Organic Carbon	7.8	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Zinc (D)	1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	12/16/08	08:40	Zinc (T)	3	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Ammonia as N	0.4	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Ammonia as N	0.3	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Arsenic (T)	5.4	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Arsenic (T)	5.5	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Boron (T)	37	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Boron (T)	40	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Cadmium (T)	0.02	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Cadmium (T)	0.02	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Copper (D)	2.8	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Copper (D)	3	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Copper (T)	4.2	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Copper (T)	4.4	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Dissolved Solids	270	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Dissolved Solids	240	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Diuron	2.1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Diuron	2.1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Glyphosate	26	=	µg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Glyphosate	26	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Lead (D)	0.08	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Lead (D)	0.08	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Lead (T)	0.59	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Lead (T)	0.57	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Molybdenum (T)	1.8	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Molybdenum (T)	1.8	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Nickel (D)	3.1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Nickel (D)	3.1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Nickel (T)	3.6	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Nickel (T)	3.7	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Nitrate + Nitrite as N	0.073	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Nitrate + Nitrite as N	0.11	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Nitrogen, Total Kjeldahl	2.2	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Nitrogen, Total Kjeldahl	2.7	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	OrthoPhosphate as P	0.64	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	OrthoPhosphate as P	0.57	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Phosphate as P	0.83	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Phosphate as P	0.78	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Selenium (T)	0.11	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Selenium (T)	0.1	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Simazine	2.5	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Simazine	2.1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Suspended Solids	8	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Suspended Solids	22	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Total Organic Carbon	20	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Total Organic Carbon	17	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Zinc (D)	1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Zinc (D)	1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Zinc (T)	6	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	02/07/09	08:40	Zinc (T)	5	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Ammonia as N	0.74	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Ammonia as N	0.66	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Arsenic (T)	7.3	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Arsenic (T)	7.4	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Boron (T)	63	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Boron (T)	64	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Cadmium (T)	0.04	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Cadmium (T)	0.04	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Copper (D)	3.4	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Copper (D)	3.5	=	µg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Copper (T)	5.8	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Copper (T)	5.8	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Dissolved Solids	290	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Dissolved Solids	280	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Diuron	0.86	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Diuron	0.86	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Glyphosate	10	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Glyphosate	10	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Lead (D)	0.073	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Lead (D)	0.074	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Lead (T)	1.8	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Lead (T)	1.8	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Molybdenum (T)	2.7	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Molybdenum (T)	2.4	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Nickel (D)	6.6	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Nickel (D)	6.4	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Nickel (T)	8.2	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Nickel (T)	8.1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Nitrate + Nitrite as N	0.06	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Nitrate + Nitrite as N	0.13	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Nitrogen, Total Kjeldahl	8.3	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Nitrogen, Total Kjeldahl	8.1	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	OrthoPhosphate as P	1	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	OrthoPhosphate as P	1	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Phosphate as P	2.2	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Phosphate as P	2.3	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Selenium (T)	0.28	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Selenium (T)	0.26	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Simazine	3.4	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Simazine	2.6	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Suspended Solids	49	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Suspended Solids	50	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Total Organic Carbon	45	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Total Organic Carbon	46	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Zinc (D)	1.2	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Zinc (D)	1.4	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Zinc (T)	10	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	03/17/09	08:50	Zinc (T)	11	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Ammonia as N	0.32	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Ammonia as N	0.35	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Arsenic (T)	1.5	=	µg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Arsenic (T)	1.5	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Boron (T)	32	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Boron (T)	31	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Cadmium (D)	0.02	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Cadmium (D)	0.02	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Cadmium (T)	0.03	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Cadmium (T)	0.03	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Copper (D)	3.4	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Copper (D)	3.4	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Copper (T)	4.3	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Copper (T)	4.2	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Dissolved Solids	130	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Dissolved Solids	130	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Lead (D)	0.17	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Lead (D)	0.17	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Lead (T)	0.48	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Lead (T)	0.46	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Molybdenum (T)	1.1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Molybdenum (T)	1.1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Nickel (D)	2	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Nickel (D)	1.9	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Nickel (T)	2.1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Nickel (T)	2.2	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Nitrate + Nitrite as N	0.22	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Nitrate + Nitrite as N	0.062	DNQ	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Nitrogen, Total Kjeldahl	2	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Nitrogen, Total Kjeldahl	1.9	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	OrthoPhosphate as P	1.1	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	OrthoPhosphate as P	1	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Phosphate as P	1.3	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Phosphate as P	1.3	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Selenium (T)	0.1	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Selenium (T)	0.09	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Simazine	0.22	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Simazine	0.23	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Suspended Solids	14	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Suspended Solids	8	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Total Organic Carbon	15	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Total Organic Carbon	15	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Zinc (D)	4.7	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Zinc (D)	4.9	=	µg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Zinc (T)	8.4	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	04/21/09	09:00	Zinc (T)	9	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	Ammonia as N	0.088	DNQ	mg/L	3.42	8.52
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	Ammonia as N	0.13	=	mg/L	3.42	12.59
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	Boron (T)	35	=	µg/L	3.42	3389.54
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	Boron (T)	35	=	µg/L	3.42	3389.54
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	Copper (D)	2.8	=	µg/L	3.42	271.16
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	Copper (D)	2.8	=	µg/L	3.42	271.16
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	Copper (T)	4.1	=	µg/L	3.42	397.06
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	Copper (T)	4.1	=	µg/L	3.42	397.06
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	Dissolved Solids	150	=	mg/L	3.42	14526.62
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	Dissolved Solids	150	=	mg/L	3.42	14526.62
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	Nickel (D)	1.6	=	µg/L	3.42	154.95
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	Nickel (D)	1.6	=	µg/L	3.42	154.95
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	Nickel (T)	2.1	=	µg/L	3.42	203.37
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	Nickel (T)	2	=	µg/L	3.42	193.69
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	Nitrate + Nitrite as N	0.046	DNQ	mg/L	3.42	4.45
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	Nitrate + Nitrite as N	0.087	=	mg/L	3.42	8.43
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	Phosphate as P	2	=	mg/L	3.42	193.69
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	Phosphate as P	2.2	=	mg/L	3.42	213.06
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	Selenium (T)	0.08	DNQ	µg/L	3.42	7.75
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	Selenium (T)	0.09	DNQ	µg/L	3.42	8.72
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	Suspended Solids	25	=	mg/L	3.42	2421.10
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	Suspended Solids	27	=	mg/L	3.42	2614.79
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	Total Organic Carbon	16	=	mg/L	3.42	1549.51
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	Total Organic Carbon	16	=	mg/L	3.42	1549.51
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	Zinc (D)	2.5	=	µg/L	3.42	242.11
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	Zinc (D)	2.6	=	µg/L	3.42	251.79
Mootz Drain @ Langworth Rd	E	05/19/09	09:00	Zinc (T)	7.3	=	µg/L	3.42	706.96
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	Zinc (T)	8	=	µg/L	3.42	774.75
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	Ammonia as N	0.49	=	mg/L	1.18	16.37
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	Ammonia as N	0.45	=	mg/L	1.18	15.04
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	Boron (T)	37	=	µg/L	1.18	1236.32
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	Boron (T)	38	=	µg/L	1.18	1269.73
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	Chlorpyrifos	0.066	=	µg/L	1.18	2.21
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	Chlorpyrifos	0.033	=	µg/L	1.18	1.10
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	Copper (D)	3.1	=	µg/L	1.18	103.58
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	Copper (D)	3	=	µg/L	1.18	100.24
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	Copper (T)	4	=	µg/L	1.18	133.66
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	Copper (T)	3.9	=	µg/L	1.18	130.31
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	Dissolved Solids	140	=	mg/L	1.18	4677.97

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	Dissolved Solids	160	=	mg/L	1.18	5346.25
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	Nickel (D)	1.6	=	µg/L	1.18	53.46
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	Nickel (D)	1.6	=	µg/L	1.18	53.46
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	Nickel (T)	1.9	=	µg/L	1.18	63.49
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	Nickel (T)	1.8	=	µg/L	1.18	60.15
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	Nitrate + Nitrite as N	0.22	=	mg/L	1.18	7.35
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	Nitrate + Nitrite as N	0.17	=	mg/L	1.18	5.68
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	Phosphate as P	1.9	=	mg/L	1.18	63.49
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	Phosphate as P	1.8	=	mg/L	1.18	60.15
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	Selenium (T)	0.07	DNQ	µg/L	1.18	2.34
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	Selenium (T)	0.09	DNQ	µg/L	1.18	3.01
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	Suspended Solids	10	=	mg/L	1.18	334.14
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	Suspended Solids	21	=	mg/L	1.18	701.70
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	Total Organic Carbon	14	=	mg/L	1.18	467.80
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	Total Organic Carbon	14	=	mg/L	1.18	467.80
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	Zinc (D)	2.2	=	µg/L	1.18	73.51
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	Zinc (D)	2.7	=	µg/L	1.18	90.22
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	Zinc (T)	5.5	=	µg/L	1.18	183.78
Mootz Drain @ Langworth Rd	E	06/16/09	09:20	Zinc (T)	5.2	=	µg/L	1.18	173.75
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	Ammonia as N	0.29	=	mg/L	2.06	16.92
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	Ammonia as N	0.33	=	mg/L	2.06	19.25
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	Boron (T)	23	=	µg/L	2.06	1341.66
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	Boron (T)	24	=	µg/L	2.06	1399.99
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	Copper (D)	2.5	=	µg/L	2.06	145.83
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	Copper (D)	2.4	=	µg/L	2.06	140.00
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	Copper (T)	2.9	=	µg/L	2.06	169.17
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	Copper (T)	2.9	=	µg/L	2.06	169.17
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	Dissolved Solids	110	=	mg/L	2.06	6416.63
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	Dissolved Solids	120	=	mg/L	2.06	6999.96
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	Nickel (D)	1.5	=	µg/L	2.06	87.50
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	Nickel (D)	1.5	=	µg/L	2.06	87.50
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	Nickel (T)	1.5	=	µg/L	2.06	87.50
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	Nickel (T)	1.5	=	µg/L	2.06	87.50
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	Nitrate + Nitrite as N	0.14	=	mg/L	2.06	8.17
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	Nitrate + Nitrite as N	0.15	=	mg/L	2.06	8.75
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	Phosphate as P	1.3	=	mg/L	2.06	75.83
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	Phosphate as P	1.3	=	mg/L	2.06	75.83
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	Selenium (T)	0.07	DNQ	µg/L	2.06	4.08
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	Selenium (T)	0.07	DNQ	µg/L	2.06	4.08
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	Suspended Solids	17	=	mg/L	2.06	991.66
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	Suspended Solids	7	=	mg/L	2.06	408.33

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	Total Organic Carbon	12	=	mg/L	2.06	700.00
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	Total Organic Carbon	12	=	mg/L	2.06	700.00
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	Zinc (D)	3.4	=	µg/L	2.06	198.33
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	Zinc (D)	3.8	=	µg/L	2.06	221.67
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	Zinc (T)	5.2	=	µg/L	2.06	303.33
Mootz Drain @ Langworth Rd	E	07/21/09	09:00	Zinc (T)	5	=	µg/L	2.06	291.67
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	Ammonia as N	0.38	=	mg/L	6.63	71.34
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	Ammonia as N	0.32	=	mg/L	6.63	60.08
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	Boron (T)	27	=	µg/L	6.63	5069.03
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	Boron (T)	21	=	µg/L	6.63	3942.58
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	Copper (D)	2.3	=	µg/L	6.63	431.81
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	Copper (D)	2.1	=	µg/L	6.63	394.26
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	Copper (T)	3.5	=	µg/L	6.63	657.10
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	Copper (T)	3.7	=	µg/L	6.63	694.64
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	Dissolved Solids	110	=	mg/L	6.63	20651.59
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	Dissolved Solids	150	=	mg/L	6.63	28161.26
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	Nickel (D)	1.2	=	µg/L	6.63	225.29
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	Nickel (D)	1.3	=	µg/L	6.63	244.06
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	Nickel (T)	1.9	=	µg/L	6.63	356.71
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	Nickel (T)	1.8	=	µg/L	6.63	337.94
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	Nitrate + Nitrite as N	0.095	=	mg/L	6.63	17.84
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	Nitrate + Nitrite as N	0.064	=	mg/L	6.63	12.02
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	Phosphate as P	1.2	=	mg/L	6.63	225.29
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	Phosphate as P	1.2	=	mg/L	6.63	225.29
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	Selenium (T)	0.07	DNQ	µg/L	6.63	13.14
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	Selenium (T)	0.08	DNQ	µg/L	6.63	15.02
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	Suspended Solids	31	=	mg/L	6.63	5819.99
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	Suspended Solids	33	=	mg/L	6.63	6195.48
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	Total Organic Carbon	13	=	mg/L	6.63	2440.64
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	Total Organic Carbon	13	=	mg/L	6.63	2440.64
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	Zinc (D)	2.6	=	µg/L	6.63	488.13
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	Zinc (D)	2.6	=	µg/L	6.63	488.13
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	Zinc (T)	6.6	=	µg/L	6.63	1239.10
Mootz Drain @ Langworth Rd	E	08/18/09	09:30	Zinc (T)	7.5	=	µg/L	6.63	1408.06
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	Ammonia as N	0.4	=	mg/L	4.83	54.71
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	Ammonia as N	0.32	=	mg/L	4.83	43.77
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	Boron (T)	16	=	µg/L	4.83	2188.34
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	Boron (T)	21	=	µg/L	4.83	2872.19
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	Copper (D)	1.8	=	µg/L	4.83	246.19
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	Copper (D)	1.8	=	µg/L	4.83	246.19
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	Copper (T)	4.2	=	µg/L	4.83	574.44

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	Copper (T)	3.9	=	µg/L	4.83	533.41
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	Dissolved Solids	120	=	mg/L	4.83	16412.53
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	Dissolved Solids	110	=	mg/L	4.83	15044.82
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	Nickel (D)	1.2	=	µg/L	4.83	164.13
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	Nickel (D)	1.3	=	µg/L	4.83	177.80
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	Nickel (T)	2.2	=	µg/L	4.83	300.90
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	Nickel (T)	2	=	µg/L	4.83	273.54
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	Nitrate + Nitrite as N	0.069	=	mg/L	4.83	9.44
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	Nitrate + Nitrite as N	0.11	=	mg/L	4.83	15.04
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	Phosphate as P	0.73	=	mg/L	4.83	99.84
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	Phosphate as P	0.75	=	mg/L	4.83	102.58
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	Selenium (T)	0.07	DNQ	µg/L	4.83	9.57
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	Selenium (T)	0.06	DNQ	µg/L	4.83	8.21
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	Suspended Solids	42	=	mg/L	4.83	5744.39
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	Suspended Solids	44	=	mg/L	4.83	6017.93
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	Total Organic Carbon	9.3	=	mg/L	4.83	1271.97
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	Total Organic Carbon	9.5	=	mg/L	4.83	1299.33
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	Zinc (D)	2.3	=	µg/L	4.83	314.57
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	Zinc (D)	3.6	=	µg/L	4.83	492.38
Mootz Drain @ Langworth Rd	E	09/22/09	09:30	Zinc (T)	9.1	=	µg/L	4.83	1244.62
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	Zinc (T)	9.2	=	µg/L	4.83	1258.29
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	Ammonia as N	1.2	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	Ammonia as N	1.3	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	Boron (T)	22	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	Boron (T)	23	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	Copper (D)	3.1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	Copper (D)	3.3	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	Copper (T)	5.1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	Copper (T)	6.2	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	Dissolved Solids	150	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	Dissolved Solids	150	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	Nickel (D)	3.1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	Nickel (D)	3	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	Nickel (T)	3.9	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	Nickel (T)	4.5	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	Nitrate + Nitrite as N	0.17	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	Nitrate + Nitrite as N	0.16	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	Phosphate as P	1.9	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	Phosphate as P	1.9	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	Selenium (T)	0.11	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	Selenium (T)	0.11	DNQ	µg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	Suspended Solids	1500	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	Suspended Solids	540	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	Total Organic Carbon	23	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	Total Organic Carbon	23	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	Zinc (D)	2.1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	Zinc (D)	1.5	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	10/20/09	09:00	Zinc (T)	15	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	Zinc (T)	8.7	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	Ammonia as N	5	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	Ammonia as N	2.1	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	Boron (T)	22	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	Boron (T)	22	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	Copper (D)	1.8	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	Copper (D)	1.9	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	Copper (T)	8.4	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	Copper (T)	9	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	Dissolved Solids	210	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	Dissolved Solids	170	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	Nickel (D)	3	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	Nickel (D)	3.4	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	Nickel (T)	6.5	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	Nickel (T)	6.1	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	Nitrate + Nitrite as N	0.062	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	Nitrate + Nitrite as N	0.1	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	Phosphate as P	2.6	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	Phosphate as P	9.1	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	Selenium (T)	0.18	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	Selenium (T)	0.22	DNQ	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	Suspended Solids	960	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	Suspended Solids	12000	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	Total Organic Carbon	36	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	Total Organic Carbon	31	=	mg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	Zinc (D)	2.3	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	Zinc (D)	2.5	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	E	11/17/09	09:30	Zinc (T)	32	=	µg/L	0.00	0.00
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	Zinc (T)	34	=	µg/L	0.00	0.00
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Ammonia as N	0.6	=	mg/L	0.00	0.00
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Arsenic (T)	2	=	µg/L	0.00	0.00
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Boron (T)	36	=	µg/L	0.00	0.00
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Cadmium (T)	0.08	DNQ	µg/L	0.00	0.00
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Copper (D)	1.6	=	µg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Copper (T)	6.5	=	µg/L	0.00	0.00
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Dissolved Solids	240	=	mg/L	0.00	0.00
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Lead (T)	4.3	=	µg/L	0.00	0.00
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Molybdenum (T)	1.2	=	µg/L	0.00	0.00
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Nickel (D)	1.4	=	µg/L	0.00	0.00
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Nickel (T)	4.1	=	µg/L	0.00	0.00
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Nitrate + Nitrite as N	1.2	=	mg/L	0.00	0.00
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Phosphate as P	1.4	=	mg/L	0.00	0.00
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Selenium (T)	0.1	DNQ	µg/L	0.00	0.00
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Suspended Solids	150	=	mg/L	0.00	0.00
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Total Organic Carbon	18	=	mg/L	0.00	0.00
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Zinc (D)	1.7	=	µg/L	0.00	0.00
Mootz Drain Downstream of Langworth Pond	E	12/15/09	08:50	Zinc (T)	22	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Ammonia as N	0.2	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Arsenic (T)	3.8	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Boron (T)	110	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Cadmium (D)	0.02	DNQ	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Cadmium (T)	0.03	DNQ	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Copper (D)	25	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Copper (T)	28	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Dissolved Solids	560	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Molybdenum (T)	3.1	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Nickel (D)	5.1	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Nickel (T)	5.3	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Nitrate + Nitrite as N	12	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Nitrogen, Total Kjeldahl	2.7	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	OrthoPhosphate as P	0.81	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Phosphate as P	0.8	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Selenium (T)	0.21	DNQ	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Simazine	1.3	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Total Organic Carbon	25	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Zinc (D)	7	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	02/07/09	15:30	Zinc (T)	8	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Ammonia as N	0.2	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Arsenic (T)	3.7	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Boron (T)	130	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Cadmium (D)	0.05	DNQ	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Cadmium (T)	0.07	DNQ	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Copper (D)	21	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Copper (T)	24	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Dissolved Solids	710	=	mg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Mustang Creek @ East Ave	E	03/17/09	14:20	Lead (T)	0.14	DNQ	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Molybdenum (T)	2.9	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Nickel (D)	5	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Nickel (T)	5.4	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Nitrate + Nitrite as N	33	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Nitrogen, Total Kjeldahl	2.3	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	OrthoPhosphate as P	0.4	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Phosphate as P	0.47	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Selenium (T)	0.2	DNQ	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Simazine	0.99	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Total Organic Carbon	20	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Zinc (D)	13	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	03/17/09	14:20	Zinc (T)	16	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	10/20/09	15:20	Ammonia as N	2.3	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	10/20/09	15:20	Boron (T)	140	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	10/20/09	15:20	Copper (D)	44	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	10/20/09	15:20	Copper (T)	54	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	10/20/09	15:20	Dissolved Solids	670	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	10/20/09	15:20	Nickel (D)	14	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	10/20/09	15:20	Nickel (T)	14	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	10/20/09	15:20	Nitrate + Nitrite as N	0.31	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	10/20/09	15:20	Phosphate as P	5.5	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	10/20/09	15:20	Selenium (T)	0.4	DNQ	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	10/20/09	15:20	Suspended Solids	56	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	10/20/09	15:20	Total Organic Carbon	52	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	10/20/09	15:20	Zinc (D)	19	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	10/20/09	15:20	Zinc (T)	24	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Ammonia as N	0.86	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Arsenic (T)	5.1	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Boron (T)	130	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Cadmium (D)	0.02	DNQ	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Cadmium (T)	0.03	DNQ	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Copper (D)	25	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Copper (T)	27	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	DDE(p,p')	0.022	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Dissolved Solids	350	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Lead (T)	0.18	DNQ	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Molybdenum (T)	2.8	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Nickel (D)	5.5	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Nickel (T)	5.7	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Nitrate + Nitrite as N	9	=	mg/L	0.00	0.00

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Mustang Creek @ East Ave	E	12/15/09	13:30	Phosphate as P	1.7	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Selenium (T)	0.2	DNQ	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Suspended Solids	74	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Total Organic Carbon	33	=	mg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Zinc (D)	7.4	=	µg/L	0.00	0.00
Mustang Creek @ East Ave	E	12/15/09	13:30	Zinc (T)	9.2	=	µg/L	0.00	0.00
Prairie Flower Drain @ Crows Landing Rd	E	10/21/08	13:50	Ammonia as N	0.18	=	mg/L	0.93	4.74
Prairie Flower Drain @ Crows Landing Rd	E	10/21/08	13:50	Dissolved Solids	1100	=	mg/L	0.93	28968.29
Prairie Flower Drain @ Crows Landing Rd	E	10/21/08	13:50	Nitrate + Nitrite as N	27	=	mg/L	0.93	711.04
Prairie Flower Drain @ Crows Landing Rd	E	10/21/08	13:50	Nitrogen, Total Kjeldahl	1.4	=	mg/L	0.93	36.87
Prairie Flower Drain @ Crows Landing Rd	E	10/21/08	13:50	OrthoPhosphate as P	1.3	=	mg/L	0.93	34.24
Prairie Flower Drain @ Crows Landing Rd	E	10/21/08	13:50	Phosphate as P	1.3	=	mg/L	0.93	34.24
Prairie Flower Drain @ Crows Landing Rd	E	10/21/08	13:50	Suspended Solids	12	=	mg/L	0.93	316.02
Prairie Flower Drain @ Crows Landing Rd	E	10/21/08	13:50	Total Organic Carbon	13	=	mg/L	0.93	342.35
Prairie Flower Drain @ Crows Landing Rd	E	11/11/08	13:30	Ammonia as N	0.23	=	mg/L	0.09	0.59
Prairie Flower Drain @ Crows Landing Rd	E	11/11/08	13:30	Dissolved Solids	1500	=	mg/L	0.09	3822.80
Prairie Flower Drain @ Crows Landing Rd	E	11/11/08	13:30	Nitrate + Nitrite as N	39	=	mg/L	0.09	99.39
Prairie Flower Drain @ Crows Landing Rd	E	11/11/08	13:30	Nitrogen, Total Kjeldahl	1.9	=	mg/L	0.09	4.84
Prairie Flower Drain @ Crows Landing Rd	E	11/11/08	13:30	OrthoPhosphate as P	1.9	=	mg/L	0.09	4.84
Prairie Flower Drain @ Crows Landing Rd	E	11/11/08	13:30	Phosphate as P	1.9	=	mg/L	0.09	4.84
Prairie Flower Drain @ Crows Landing Rd	E	11/11/08	13:30	Suspended Solids	39	=	mg/L	0.09	99.39
Prairie Flower Drain @ Crows Landing Rd	E	11/11/08	13:30	Total Organic Carbon	14	=	mg/L	0.09	35.68
Prairie Flower Drain @ Crows Landing Rd	E	12/16/08	11:10	Ammonia as N	0.34	=	mg/L	0.19	1.83
Prairie Flower Drain @ Crows Landing Rd	E	12/16/08	11:10	Dissolved Solids	2900	=	mg/L	0.19	15602.67
Prairie Flower Drain @ Crows Landing Rd	E	12/16/08	11:10	Nitrate + Nitrite as N	40	=	mg/L	0.19	215.21
Prairie Flower Drain @ Crows Landing Rd	E	12/16/08	11:10	Nitrogen, Total Kjeldahl	2.1	=	mg/L	0.19	11.30
Prairie Flower Drain @ Crows Landing Rd	E	12/16/08	11:10	OrthoPhosphate as P	1.4	=	mg/L	0.19	7.53
Prairie Flower Drain @ Crows Landing Rd	E	12/16/08	11:10	Phosphate as P	1.6	=	mg/L	0.19	8.61
Prairie Flower Drain @ Crows Landing Rd	E	12/16/08	11:10	Suspended Solids	6	=	mg/L	0.19	32.28
Prairie Flower Drain @ Crows Landing Rd	E	12/16/08	11:10	Total Organic Carbon	16	=	mg/L	0.19	86.08
Prairie Flower Drain @ Crows Landing Rd	E	02/07/09	13:10	Ammonia as N	0.56	=	mg/L	0.10	1.54
Prairie Flower Drain @ Crows Landing Rd	E	02/07/09	13:10	Dissolved Solids	1300	=	mg/L	0.10	3570.77
Prairie Flower Drain @ Crows Landing Rd	E	02/07/09	13:10	Nitrate + Nitrite as N	31	=	mg/L	0.10	85.15
Prairie Flower Drain @ Crows Landing Rd	E	02/07/09	13:10	Nitrogen, Total Kjeldahl	6.2	=	mg/L	0.10	17.03
Prairie Flower Drain @ Crows Landing Rd	E	02/07/09	13:10	OrthoPhosphate as P	0.91	=	mg/L	0.10	2.50
Prairie Flower Drain @ Crows Landing Rd	E	02/07/09	13:10	Phosphate as P	1.7	=	mg/L	0.10	4.67
Prairie Flower Drain @ Crows Landing Rd	E	02/07/09	13:10	Suspended Solids	60	=	mg/L	0.10	164.80
Prairie Flower Drain @ Crows Landing Rd	E	02/07/09	13:10	Total Organic Carbon	19	=	mg/L	0.10	52.19
Prairie Flower Drain @ Crows Landing Rd	E	03/17/09	12:40	Ammonia as N	0.2	=	mg/L	0.12	0.68
Prairie Flower Drain @ Crows Landing Rd	E	03/17/09	12:40	Dissolved Solids	1400	=	mg/L	0.12	4757.26
Prairie Flower Drain @ Crows Landing Rd	E	03/17/09	12:40	Nitrate + Nitrite as N	34	=	mg/L	0.12	115.53

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Prairie Flower Drain @ Crows Landing Rd	E	03/17/09	12:40	Nitrogen, Total Kjeldahl	2.8	=	mg/L	0.12	9.51
Prairie Flower Drain @ Crows Landing Rd	E	03/17/09	12:40	OrthoPhosphate as P	0.74	=	mg/L	0.12	2.51
Prairie Flower Drain @ Crows Landing Rd	E	03/17/09	12:40	Phosphate as P	1	=	mg/L	0.12	3.40
Prairie Flower Drain @ Crows Landing Rd	E	03/17/09	12:40	Suspended Solids	110	=	mg/L	0.12	373.78
Prairie Flower Drain @ Crows Landing Rd	E	03/17/09	12:40	Total Organic Carbon	18	=	mg/L	0.12	61.16
Prairie Flower Drain @ Crows Landing Rd	E	04/21/09	14:20	Ammonia as N	0.23	=	mg/L	0.30	1.95
Prairie Flower Drain @ Crows Landing Rd	E	04/21/09	14:20	Dissolved Solids	1400	=	mg/L	0.30	11893.14
Prairie Flower Drain @ Crows Landing Rd	E	04/21/09	14:20	Nitrate + Nitrite as N	24	=	mg/L	0.30	203.88
Prairie Flower Drain @ Crows Landing Rd	E	04/21/09	14:20	Nitrogen, Total Kjeldahl	1.8	=	mg/L	0.30	15.29
Prairie Flower Drain @ Crows Landing Rd	E	04/21/09	14:20	OrthoPhosphate as P	1.4	=	mg/L	0.30	11.89
Prairie Flower Drain @ Crows Landing Rd	E	04/21/09	14:20	Phosphate as P	1.4	=	mg/L	0.30	11.89
Prairie Flower Drain @ Crows Landing Rd	E	04/21/09	14:20	Suspended Solids	22	=	mg/L	0.30	186.89
Prairie Flower Drain @ Crows Landing Rd	E	04/21/09	14:20	Total Organic Carbon	15	=	mg/L	0.30	127.43
Prairie Flower Drain @ Crows Landing Rd	E	05/19/09	14:20	Ammonia as N	3.2	=	mg/L	0.50	45.31
Prairie Flower Drain @ Crows Landing Rd	E	05/19/09	14:20	Dissolved Solids	1200	=	mg/L	0.50	16990.20
Prairie Flower Drain @ Crows Landing Rd	E	05/19/09	14:20	Nitrate + Nitrite as N	20	=	mg/L	0.50	283.17
Prairie Flower Drain @ Crows Landing Rd	E	05/19/09	14:20	Phosphate as P	3.1	=	mg/L	0.50	43.89
Prairie Flower Drain @ Crows Landing Rd	E	05/19/09	14:20	Suspended Solids	11	=	mg/L	0.50	155.74
Prairie Flower Drain @ Crows Landing Rd	E	05/19/09	14:20	Total Organic Carbon	18	=	mg/L	0.50	254.85
Prairie Flower Drain @ Crows Landing Rd	E	06/16/09	13:40	Ammonia as N	1.3	=	mg/L	0.61	22.46
Prairie Flower Drain @ Crows Landing Rd	E	06/16/09	13:40	Dissolved Solids	1400	=	mg/L	0.61	24182.72
Prairie Flower Drain @ Crows Landing Rd	E	06/16/09	13:40	Nitrate + Nitrite as N	22	=	mg/L	0.61	380.01
Prairie Flower Drain @ Crows Landing Rd	E	06/16/09	13:40	Phosphate as P	1.8	=	mg/L	0.61	31.09
Prairie Flower Drain @ Crows Landing Rd	E	06/16/09	13:40	Suspended Solids	14	=	mg/L	0.61	241.83
Prairie Flower Drain @ Crows Landing Rd	E	06/16/09	13:40	Total Organic Carbon	26	=	mg/L	0.61	449.11
Prairie Flower Drain @ Crows Landing Rd	E	07/21/09	14:40	Ammonia as N	1.8	=	mg/L	4.15	211.53
Prairie Flower Drain @ Crows Landing Rd	E	07/21/09	14:40	Dissolved Solids	820	=	mg/L	4.15	96362.75
Prairie Flower Drain @ Crows Landing Rd	E	07/21/09	14:40	Nitrate + Nitrite as N	14	=	mg/L	4.15	1645.22
Prairie Flower Drain @ Crows Landing Rd	E	07/21/09	14:40	Phosphate as P	0.84	=	mg/L	4.15	98.71
Prairie Flower Drain @ Crows Landing Rd	E	07/21/09	14:40	Suspended Solids	8.5	=	mg/L	4.15	998.88
Prairie Flower Drain @ Crows Landing Rd	E	07/21/09	14:40	Total Organic Carbon	11	=	mg/L	4.15	1292.67
Prairie Flower Drain @ Crows Landing Rd	E	08/18/09	16:40	Ammonia as N	0.12	=	mg/L	2.85	9.68
Prairie Flower Drain @ Crows Landing Rd	E	08/18/09	16:40	Dissolved Solids	1200	=	mg/L	2.85	96844.14
Prairie Flower Drain @ Crows Landing Rd	E	08/18/09	16:40	Nitrate + Nitrite as N	22	=	mg/L	2.85	1775.48
Prairie Flower Drain @ Crows Landing Rd	E	08/18/09	16:40	Phosphate as P	1.1	=	mg/L	2.85	88.77
Prairie Flower Drain @ Crows Landing Rd	E	08/18/09	16:40	Suspended Solids	5	=	mg/L	2.85	403.52
Prairie Flower Drain @ Crows Landing Rd	E	08/18/09	16:40	Total Organic Carbon	11	=	mg/L	2.85	887.74
Prairie Flower Drain @ Crows Landing Rd	E	09/22/09	13:30	Ammonia as N	0.21	=	mg/L	2.08	12.37
Prairie Flower Drain @ Crows Landing Rd	E	09/22/09	13:30	Dissolved Solids	1400	=	mg/L	2.08	82459.10
Prairie Flower Drain @ Crows Landing Rd	E	09/22/09	13:30	Nitrate + Nitrite as N	35	=	mg/L	2.08	2061.48
Prairie Flower Drain @ Crows Landing Rd	E	09/22/09	13:30	Phosphate as P	1.8	=	mg/L	2.08	106.02

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	Result	Qualifier Code	Unit	Discharge, cfs	Instantaneous Loading Rate
Prairie Flower Drain @ Crows Landing Rd	E	09/22/09	13:30	Suspended Solids	22	=	mg/L	2.08	1295.79
Prairie Flower Drain @ Crows Landing Rd	E	09/22/09	13:30	Total Organic Carbon	15	=	mg/L	2.08	883.49
Prairie Flower Drain @ Crows Landing Rd	E	10/20/09	14:00	Ammonia as N	0.23	=	mg/L	0.72	4.69
Prairie Flower Drain @ Crows Landing Rd	E	10/20/09	14:00	Dissolved Solids	1400	=	mg/L	0.72	28543.54
Prairie Flower Drain @ Crows Landing Rd	E	10/20/09	14:00	Nitrate + Nitrite as N	25	=	mg/L	0.72	509.71
Prairie Flower Drain @ Crows Landing Rd	E	10/20/09	14:00	Phosphate as P	1.7	=	mg/L	0.72	34.66
Prairie Flower Drain @ Crows Landing Rd	E	10/20/09	14:00	Suspended Solids	4	=	mg/L	0.72	81.55
Prairie Flower Drain @ Crows Landing Rd	E	10/20/09	14:00	Total Organic Carbon	14	=	mg/L	0.72	285.44
Prairie Flower Drain @ Crows Landing Rd	E	11/17/09	14:20	Ammonia as N	8.8	=	mg/L	0.00	0.00
Prairie Flower Drain @ Crows Landing Rd	E	11/17/09	14:20	Dissolved Solids	1500	=	mg/L	0.00	0.00
Prairie Flower Drain @ Crows Landing Rd	E	11/17/09	14:20	Nitrate + Nitrite as N	36	=	mg/L	0.00	0.00
Prairie Flower Drain @ Crows Landing Rd	E	11/17/09	14:20	Phosphate as P	4.8	=	mg/L	0.00	0.00
Prairie Flower Drain @ Crows Landing Rd	E	11/17/09	14:20	Suspended Solids	45	=	mg/L	0.00	0.00
Prairie Flower Drain @ Crows Landing Rd	E	11/17/09	14:20	Total Organic Carbon	27	=	mg/L	0.00	0.00
Prairie Flower Drain @ Crows Landing Rd	E	12/15/09	12:00	Ammonia as N	0.31	=	mg/L	0.31	2.72
Prairie Flower Drain @ Crows Landing Rd	E	12/15/09	12:00	Dissolved Solids	1600	=	mg/L	0.31	14045.23
Prairie Flower Drain @ Crows Landing Rd	E	12/15/09	12:00	Nitrate + Nitrite as N	36	=	mg/L	0.31	316.02
Prairie Flower Drain @ Crows Landing Rd	E	12/15/09	12:00	Phosphate as P	1.7	=	mg/L	0.31	14.92
Prairie Flower Drain @ Crows Landing Rd	E	12/15/09	12:00	Suspended Solids	5	=	mg/L	0.31	43.89
Prairie Flower Drain @ Crows Landing Rd	E	12/15/09	12:00	Total Organic Carbon	16	=	mg/L	0.31	140.45

Appendix III

Lab and Field QC Results

Table of Contents

List of Acronyms 2
Table III - 1. ESJWQC sample results including field blanks (FB) and field duplicates (FD) for organic analysis. 3
Table III - 2. ESJWQC laboratory quality assurance (LABQA) results for organic analysis. 55
Table III - 3. ESJWQC sample results including field blanks (FB), field duplicates (FD), equipment blanks (EB) and travel blanks (TB) for inorganic analysis including physical parameters, nutrients, metals and bacteria. 170
Table III - 4. ESJWQC laboratory quality assurance (LABQA) results for inorganic analysis including physical parameters, nutrients, metals and bacteria. 212
Table III - 5. ESJWQC sample results for field duplicates (FD) for inorganic sediment analysis including grain size and TOC. 274
Table III - 6. ESJWQC laboratory quality assurance (LABQA) results for inorganic sediment analysis. 276
Table III - 7. ESJWQC calculated unionized ammonia field duplicate (FD) results. 277
Table III - 8. ESJWQC water toxicity testing results 278
Table III - 9. ESJWQC sediment toxicity testing results. 280

Adminsitrative Record
Page 16952

List of Acronyms

AMR	Annual Monitoring Report
(D)	Dissolved
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethylene
DDT	Dichlorodiphenyltrichloroethane
DF	Dilution Factor
DNQ	Detected but Not Quantifiable
DO	Dissolved Oxygen
dw	Dry Weight
EB	Equipment Blank
EPA	Environmental Protection Agency
ESJWQC	East San Joaquin Water Quality Coalition
FB	Field Blank
FD	Field Duplicate
FD RPD	Relative Percent Difference between the environmental sample and the field duplicate sample
LCS	Laboratory Control Spike
MDL	Minimum Detection Limit
MS	Matrix Spike
NA	Not Applicable
ND	Not Detected
NSG	Not statistically different from control and result is greater than 80% threshold
PR	Percent Recovery
RL	Reporting Limit
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SC	Specific Conductance
SED	Sediment
SL	Statistically different from control and less than 80% threshold
SG	Statistically different from control and greater than 80% threshold
(T)	Total
TB	Travel Blank
TIE	Toxic Identification Evaluation
TOC	Total Organic Carbon

Table III - 1. ESJWQC sample results including field blanks (FB) and field duplicates (FD) for organic analysis.

Expected values for field duplicates are the associated environmental sample result. Samples are sorted by station name, sample type code, sample date and analyte.

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.015		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	81.2	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.02		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	5	<5		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	61.6	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 619	Tributylphosphate (Surrogate)	79.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Tributylphosphate (Surrogate)	65.1	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Tributylphosphate (Surrogate)	79.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8321A	Tributylphosphate (Surrogate)	76.6	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 619	Triphenyl phosphate (Surrogate)	74	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	74	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/16/08	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	63	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.015		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	69.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.02		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	5	<5		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	63	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 619	Tributylphosphate (Surrogate)	92.7	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Tributylphosphate (Surrogate)	92.7	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Tributylphosphate (Surrogate)	71.1	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8321A	Tributylphosphate (Surrogate)	114	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 619	Triphenyl phosphate (Surrogate)	85.3	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	70.3	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	01/20/09	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	85.3	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.015		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8081A	Decachlorobiphenyl (Surrogate)	44.9	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.02		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 547M	Glyphosate	<2.8	µg/L	ND	2.8	5	<5		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	37.9	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 619	Tributylphosphate (Surrogate)	81.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	

Adminsitrative Record
Page 16958

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Tributylphosphate (Surrogate)	99.1	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Tributylphosphate (Surrogate)	81.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8321A	Tributylphosphate (Surrogate)	85.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 619	Triphenyl phosphate (Surrogate)	100	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Triphenyl phosphate (Surrogate)	100	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	12/15/09	12:30	EPA 8141A	Triphenyl phosphate (Surrogate)	107	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.07	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.0026	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.09	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01	<0.003	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01	<0.004	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	67	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.004	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.08	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.02	FD RPD NA	None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	5	<4	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.05	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.08	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.04	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5	<0.21	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.075	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.07	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.06	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.08	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	75.9	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 619	Tributylphosphate (Surrogate)	107	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Tributylphosphate (Surrogate)	107	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Tributylphosphate (Surrogate)	93	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8321A	Tributylphosphate (Surrogate)	76.8	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.04	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 619	Triphenyl phosphate (Surrogate)	98.1	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	98.1	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/16/08	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	59.4	%	=	NA	NA	100		None	RPD <25	

Adminsitrative Record
Page 16960

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.07	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.0026	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.09	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01	<0.003	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01	<0.004	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	32.7	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.004	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.08	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.02	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	5	<4	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.05	FD RPD NA	None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.08	FD RPD NA	Surrogate recovery is outside of control limits	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.04	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5	<0.21	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.075	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.07	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.06	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.08	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	50.6	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 619	Tributylphosphate (Surrogate)	87.6	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Tributylphosphate (Surrogate)	87.6	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Tributylphosphate (Surrogate)	66.1	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8321A	Tributylphosphate (Surrogate)	78.2	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.04	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 619	Triphenyl phosphate (Surrogate)	67.7	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	67.7	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	01/20/09	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	51.8	%	=	NA	NA	100		Surrogate recovery is outside of control limits	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.07	FD RPD NA	None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.0026	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.09	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01	<0.003	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01	<0.004	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8081A	Decachlorobiphenyl (Surrogate)	34.6	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.004	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.08	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.02	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 547M	Glyphosate	<2.8	µg/L	ND	2.8	5	<2.8	FD RPD NA	None	RPD <25	Sediment in bottom of sample container.
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.05	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.08	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.04	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5	<0.21	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.075	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.07	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.06	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.08	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	49.2	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 619	Tributylphosphate (Surrogate)	97.3	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Tributylphosphate (Surrogate)	97.3	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Tributylphosphate (Surrogate)	73.3	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8321A	Tributylphosphate (Surrogate)	82	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05	<0.036	FD RPD NA	None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 619	Triphenyl phosphate (Surrogate)	123	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Triphenyl phosphate (Surrogate)	123	%	=	NA	NA	100		None	RPD <25	
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	12/15/09	12:30	EPA 8141A	Triphenyl phosphate (Surrogate)	78.8	%	=	NA	NA	100		None	RPD <25	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.015		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	Decachlorobiphenyl (Surrogate)	97.7	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.02		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 547M	Glyphosate	<4	µg/L	ND	4	5	<5		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.1		None	<RL or < (sample ÷ 5)	

Adminsitrative Record
Page 16965

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	95	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 619	Tributylphosphate (Surrogate)	131	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Tributylphosphate (Surrogate)	97	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Tributylphosphate (Surrogate)	131	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8321A	Tributylphosphate (Surrogate)	115	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 619	Triphenyl phosphate (Surrogate)	123	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Triphenyl phosphate (Surrogate)	123	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	10/21/08	10:40	EPA 8141A	Triphenyl phosphate (Surrogate)	84.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.015		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	Decachlorobiphenyl (Surrogate)	77.7	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.02		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 547M	Glyphosate	<4	µg/L	ND	4	5	<5		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	52.5	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 619	Tributylphosphate (Surrogate)	129	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Tributylphosphate (Surrogate)	91.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Tributylphosphate (Surrogate)	129	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8321A	Tributylphosphate (Surrogate)	139	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 619	Triphenyl phosphate (Surrogate)	112	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Triphenyl phosphate (Surrogate)	112	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Lateral 2 1/2 near Keys Rd	FB	1.00	11/11/08	11:10	EPA 8141A	Triphenyl phosphate (Surrogate)	94.9	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01	<0.009	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.07	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.0026	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.09	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01	<0.003	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01	<0.004	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	Decachlorobiphenyl (Surrogate)	85.8	%	=	NA	NA	100		None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.004	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.08	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.02	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01	<0.004	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 547M	Glyphosate	<4	µg/L	ND	4	5	<4	FD RPD NA	None	RPD <25	

Adminsitrative Record
Page 16969

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.05	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.08	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.04	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5	<0.21	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.075	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.07	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.06	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.08	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	77.3	%	=	NA	NA	100		None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5	<0.38	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 619	Tributylphosphate (Surrogate)	126	%	=	NA	NA	100		None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Tributylphosphate (Surrogate)	76.7	%	=	NA	NA	100		None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Tributylphosphate (Surrogate)	126	%	=	NA	NA	100		None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8321A	Tributylphosphate (Surrogate)	130	%	=	NA	NA	100		None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.04	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 619	Triphenyl phosphate (Surrogate)	123	%	=	NA	NA	100		None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Triphenyl phosphate (Surrogate)	71.8	%	=	NA	NA	100		None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	10/21/08	10:40	EPA 8141A	Triphenyl phosphate (Surrogate)	123	%	=	NA	NA	100		None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01	<0.009	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.07	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.0026	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.09	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01	<0.003	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01	<0.004	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	Decachlorobiphenyl (Surrogate)	76.9	%	=	NA	NA	100		None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.004	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.08	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.02	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01	<0.004	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 547M	Glyphosate	<4	µg/L	ND	4	5	<4	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	HCH, alpha	0.016	µg/L	=	0.005	0.01	0.013	FD RPD 20.69	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.05	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.08	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.04	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5	<0.21	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.075	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.07	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.06	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.08	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	52.1	%	=	NA	NA	100		None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5	<0.38	FD RPD NA	None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 619	Tributylphosphate (Surrogate)	126	%	=	NA	NA	100		None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Tributylphosphate (Surrogate)	76.9	%	=	NA	NA	100		None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Tributylphosphate (Surrogate)	126	%	=	NA	NA	100		None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8321A	Tributylphosphate (Surrogate)	116	%	=	NA	NA	100		None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.04	FD RPD NA	None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 619	Triphenyl phosphate (Surrogate)	107	%	=	NA	NA	100		None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Triphenyl phosphate (Surrogate)	89.3	%	=	NA	NA	100		None	RPD <25	
Lateral 2 1/2 near Keys Rd	FD	2.00	11/11/08	11:10	EPA 8141A	Triphenyl phosphate (Surrogate)	107	%	=	NA	NA	100		None	RPD <25	
Merced River @ Santa Fe	FB	1.00	12/15/09	14:40	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Merced River @ Santa Fe	FB	1.00	12/15/09	14:40	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Merced River @ Santa Fe	FB	1.00	12/15/09	14:40	EPA 8081A	Decachlorobiphenyl (Surrogate)	29.7	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Merced River @ Santa Fe	FB	1.00	12/15/09	14:40	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Merced River @ Santa Fe	FB	1.00	12/15/09	14:40	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Merced River @ Santa Fe	FB	1.00	12/15/09	14:40	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Merced River @ Santa Fe	FB	1.00	12/15/09	14:40	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Merced River @ Santa Fe	FB	1.00	12/15/09	14:40	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Merced River @ Santa Fe	FB	1.00	12/15/09	14:40	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Merced River @ Santa Fe	FB	1.00	12/15/09	14:40	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Merced River @ Santa Fe	FB	1.00	12/15/09	14:40	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Merced River @ Santa Fe	FB	1.00	12/15/09	14:40	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	44.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Merced River @ Santa Fe	FB	1.00	12/15/09	14:40	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Merced River @ Santa Fe	FD	2.00	12/15/09	14:40	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01	<0.009	FD RPD NA	None	RPD <25	
Merced River @ Santa Fe	FD	2.00	12/15/09	14:40	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Merced River @ Santa Fe	FD	2.00	12/15/09	14:40	EPA 8081A	Decachlorobiphenyl (Surrogate)	46.5	%	=	NA	NA	100		None	RPD <25	
Merced River @ Santa Fe	FD	2.00	12/15/09	14:40	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Merced River @ Santa Fe	FD	2.00	12/15/09	14:40	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01	<0.004	FD RPD NA	None	RPD <25	
Merced River @ Santa Fe	FD	2.00	12/15/09	14:40	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Merced River @ Santa Fe	FD	2.00	12/15/09	14:40	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Merced River @ Santa Fe	FD	2.00	12/15/09	14:40	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Merced River @ Santa Fe	FD	2.00	12/15/09	14:40	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Merced River @ Santa Fe	FD	2.00	12/15/09	14:40	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Merced River @ Santa Fe	FD	2.00	12/15/09	14:40	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Merced River @ Santa Fe	FD	2.00	12/15/09	14:40	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	43.7	%	=	NA	NA	100		None	RPD <25	
Merced River @ Santa Fe	FD	2.00	12/15/09	14:40	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5	<0.38	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.015		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	Decachlorobiphenyl (Surrogate)	73.9	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.02		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 547M	Glyphosate	<4	µg/L	ND	4	5	<5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.1		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	28.6	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 619	Tributylphosphate (Surrogate)	108	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Tributylphosphate (Surrogate)	110	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Tributylphosphate (Surrogate)	108	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8321A	Tributylphosphate (Surrogate)	77.6	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 619	Triphenyl phosphate (Surrogate)	105	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Triphenyl phosphate (Surrogate)	105	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	02/07/09	08:40	EPA 8141A	Triphenyl phosphate (Surrogate)	114	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.015		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	Decachlorobiphenyl (Surrogate)	86.8	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.02		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 547M	Glyphosate	<4	µg/L	ND	4	5	<5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	46.2	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 619	Tributylphosphate (Surrogate)	99.9	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Tributylphosphate (Surrogate)	146	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Tributylphosphate (Surrogate)	99.9	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8321A	Tributylphosphate (Surrogate)	102	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 619	Triphenyl phosphate (Surrogate)	88.1	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Triphenyl phosphate (Surrogate)	115	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	03/17/09	08:50	EPA 8141A	Triphenyl phosphate (Surrogate)	88.1	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.015		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	86.7	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.02		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	5	<5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.1		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01	<0.01		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	63.8	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 619	Tributylphosphate (Surrogate)	89.3	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	89.3	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	62.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	104	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	89.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	61.2	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	04/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	89.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.015		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.02		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 619	Tributylphosphate (Surrogate)	92	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	79.6	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	92	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	103	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.05		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	82.6	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	82.6	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	05/19/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	65.5	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.015		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.02		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.1		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 619	Tributylphosphate (Surrogate)	86.8	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Tributylphosphate (Surrogate)	61.2	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Tributylphosphate (Surrogate)	68	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8321A	Tributylphosphate (Surrogate)	97.5	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 619	Triphenyl phosphate (Surrogate)	81.8	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Triphenyl phosphate (Surrogate)	56.3	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	06/16/09	09:20	EPA 8141A	Triphenyl phosphate (Surrogate)	77.7	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.015		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.02		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.1		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 619	Tributylphosphate (Surrogate)	100	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	122	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	100	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	91.3	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	93.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	93.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	07/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	127	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.015		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.02		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 619	Tributylphosphate (Surrogate)	111	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	85.3	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	111	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8321A	Tributylphosphate (Surrogate)	92.3	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 619	Triphenyl phosphate (Surrogate)	119	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	119	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	08/18/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	88	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	

Adminsitrative Record
Page 16985

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.015		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.02		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 619	Tributylphosphate (Surrogate)	93.8	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	110	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	93.8	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8321A	Tributylphosphate (Surrogate)	89.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 619	Triphenyl phosphate (Surrogate)	95.6	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	128	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	09/22/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	95.6	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.015		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.02		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 619	Tributylphosphate (Surrogate)	107	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	113	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	107	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	109	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	114	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	120	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	10/20/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	114	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.015		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.02		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.05		None	<RL or < (sample ÷ 5)	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.07		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.4		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.1		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.2		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.5		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 619	Tributylphosphate (Surrogate)	91.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	91.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	91.4	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8321A	Tributylphosphate (Surrogate)	107	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05	<0.05		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 619	Triphenyl phosphate (Surrogate)	96.2	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	96.2	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FB	1.00	11/17/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	107	%	=	NA	NA	100		None	<RL or < (sample ÷ 5)	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01	<0.009	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.0026	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.09	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01	<0.003	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01	<0.004	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	Decachlorobiphenyl (Surrogate)	56.5	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.004	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8321A	Diuron	2.1	µg/L	=	0.2	0.4	2.1	FD RPD 0	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01	<0.004	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 547M	Glyphosate	26	µg/L	=	4	5	26	FD RPD 0	None	RPD <25	The positive results were confirmed by analysis on a second column.
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.04	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5	<0.21	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.075	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.06	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 619	Simazine	2.5	µg/L	=	0.08	0.5	2.1	FD RPD 17.4	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	45.8	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5	<0.38	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 619	Tributylphosphate (Surrogate)	100	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Tributylphosphate (Surrogate)	73.7	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Tributylphosphate (Surrogate)	100	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8321A	Tributylphosphate (Surrogate)	81.3	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.04	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 619	Triphenyl phosphate (Surrogate)	94.6	%	=	NA	NA	100		None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Triphenyl phosphate (Surrogate)	75	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	02/07/09	08:40	EPA 8141A	Triphenyl phosphate (Surrogate)	94.6	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01	<0.009	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.0026	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.09	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01	<0.003	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01	<0.004	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	Decachlorobiphenyl (Surrogate)	46.7	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.004	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8321A	Diuron	0.86	µg/L	=	0.2	0.4	0.86	FD RPD 0	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01	<0.004	FD RPD NA	None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 547M	Glyphosate	10	µg/L	=	4	5	10	FD RPD 0	None	RPD <25	The positive results were confirmed by analysis on a second column.
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.04	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5	<0.21	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.075	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.06	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 619	Simazine	2.6	µg/L	=	0.08	0.5	3.4	FD RPD 26.7	Field duplicate RPD above QC limit	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	45.4	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5	<0.38	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 619	Tributylphosphate (Surrogate)	71.3	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Tributylphosphate (Surrogate)	118	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Tributylphosphate (Surrogate)	71.3	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8321A	Tributylphosphate (Surrogate)	80.4	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.04	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 619	Triphenyl phosphate (Surrogate)	61.9	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Triphenyl phosphate (Surrogate)	108	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	03/17/09	08:50	EPA 8141A	Triphenyl phosphate (Surrogate)	61.9	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01	<0.009	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.0026	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.09	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01	<0.003	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01	<0.004	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	72.5	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.004	FD RPD NA	None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01	<0.004	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	5	<4	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01	<0.005	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01	<0.007	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.04	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01	<0.008	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5	<0.21	FD RPD NA	None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.075	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.06	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 619	Simazine	0.23	µg/L	DNQ	0.08	0.5	0.22	FD RPD 4.44	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	75.6	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5	<0.38	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 619	Tributylphosphate (Surrogate)	88.1	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	88.1	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	71.4	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	101	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.04	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	89.8	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	75.6	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	04/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	89.8	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.0026	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.09	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.004	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.08	FD RPD NA	None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.04	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.075	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.06	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 619	Tributylphosphate (Surrogate)	94.2	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	62	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	94.2	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	98.4	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.04	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	78.4	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	78.4	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	05/19/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	61.5	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Chlorpyrifos	0.066	µg/L	=	0.0026	0.015	0.033	FD RPD 67	Field duplicate RPD above QC limit	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.09	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.004	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.04	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.075	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.06	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 619	Tributylphosphate (Surrogate)	86.3	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Tributylphosphate (Surrogate)	74.3	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Tributylphosphate (Surrogate)	86.3	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8321A	Tributylphosphate (Surrogate)	69.9	%	=	NA	NA	100		None	RPD <25	

Adminsitrative Record
Page 16998

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05	<0.04	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 619	Triphenyl phosphate (Surrogate)	85.1	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Triphenyl phosphate (Surrogate)	79.6	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	06/16/09	09:20	EPA 8141A	Triphenyl phosphate (Surrogate)	85.1	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.0026	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.09	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.004	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.04	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.075	FD RPD NA	None	RPD <25	

Adminsitrative Record
Page 16999

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.06	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 619	Tributylphosphate (Surrogate)	83.6	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	112	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	83.6	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	98.7	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05	<0.036	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	76.3	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	115	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	07/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	76.3	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.0026	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.09	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.004	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.04	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.075	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.06	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 619	Tributylphosphate (Surrogate)	90.1	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	73.1	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	90.1	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8321A	Tributylphosphate (Surrogate)	80.2	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05	<0.036	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 619	Triphenyl phosphate (Surrogate)	94	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	78.5	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	08/18/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	94	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.0026	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.09	FD RPD NA	None	RPD <25	

Adminsitrative Record
Page 17001

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.004	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.08	FD RPD NA	Surrogate recovery is outside of control limits	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.04	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.075	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.06	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 619	Tributylphosphate (Surrogate)	76	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	76	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	109	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8321A	Tributylphosphate (Surrogate)	64.8	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05	<0.036	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 619	Triphenyl phosphate (Surrogate)	76	%	=	NA	NA	100		None	RPD <25	

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	76	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	09/22/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	131	%	=	NA	NA	100		Surrogate recovery is outside of control limits	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.0026	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.09	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.004	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.04	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.075	FD RPD NA	None	RPD <25	

Adminsitrative Record
Page 17003

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.06	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 619	Tributylphosphate (Surrogate)	89.6	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	89.6	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	84.8	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	98.9	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05	<0.036	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	92.3	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	94.1	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	10/20/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	92.3	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015	<0.0026	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5	<0.09	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1	<0.01	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02	<0.004	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05	<0.02	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	

Adminsitrative Record
Page 17004

Station Name	Sample Type Code	Sample Replicate	Sample Date	Collection Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1	<0.04	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07	<0.05	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4	<0.2	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1	<0.075	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1	<0.07	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2	<0.06	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5	<0.08	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 619	Tributylphosphate (Surrogate)	85.5	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	85.5	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	111	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8321A	Tributylphosphate (Surrogate)	111	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05	<0.036	FD RPD NA	None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 619	Triphenyl phosphate (Surrogate)	91.6	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	91.6	%	=	NA	NA	100		None	RPD <25	
Mootz Drain @ Langworth Rd	FD	2.00	11/17/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	124	%	=	NA	NA	100		None	RPD <25	

Table III - 2. ESJWQC laboratory quality assurance (LABQA) results for organic analysis.

Results include blanks (LabBlank), matrix spikes (MS), and laboratory control spikes (LCS) for organic analysis. LABQA was performed for samples collected from October 2008 through December 2009 and results are sorted by sample type, station name, sample date and analyte. For laboratory control samples, the sample date is equal to the extraction date; some LABQA samples may appear to be duplicates due to multiple batches run on the same date.

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8321A	Aldicarb	0.329	µg/L	=	0.2	0.4	1.07	PR 30.7		Matrix spike recovery not within control limits; RPD exceeds laboratory control limit.	PR 31-133
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8321A	Aldicarb	0.709	µg/L	=	0.2	0.4	1.07	PR 66.3	RPD 73.2	RPD exceeds laboratory control limit.	PR 31-133 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 619	Atrazine	2.16	µg/L	=	0.07	0.5	2.5	PR 86.4	RPD 2.8	None	PR 39-156 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 619	Atrazine	2.1	µg/L	=	0.07	0.5	2.5	PR 84.0		None	PR 39-156
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Azinphos methyl	2.5	µg/L	=	0.02	0.1	2.5	PR 100	RPD 2.4	None	PR 36-189 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Azinphos methyl	2.44	µg/L	=	0.02	0.1	2.5	PR 97.6		None	PR 36-189
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8321A	Carbaryl	0.352	µg/L	=	0.05	0.07	1.07	PR 32.9		Matrix spike recovery not within control limits; RPD exceeds laboratory control limit.	PR 44-133
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8321A	Carbaryl	0.947	µg/L	=	0.05	0.07	1.07	PR 88.5	RPD 91.6	RPD exceeds laboratory control limit.	PR 44-133 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8321A	Carbofuran	0.399	µg/L	=	0.05	0.07	1.07	PR 37.3		RPD exceeds laboratory control limit.	PR 36-165
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8321A	Carbofuran	0.814	µg/L	=	0.05	0.07	1.07	PR 76.1	RPD 68.4	RPD exceeds laboratory control limit.	PR 36-165 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Chlorpyrifos	4.9	µg/L	=	0.0026	0.015	5	PR 98.0	RPD 2.1	None	PR 61-125 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Chlorpyrifos	4.8	µg/L	=	0.0026	0.015	5	PR 96.0		None	PR 61-125

Adminsitrative Record
Page 17006

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 619	Cyanazine	2.2	µg/L	=	0.09	0.5	2.5	PR 88.0		None	PR 22-172
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 619	Cyanazine	2.21	µg/L	=	0.09	0.5	2.5	PR 88.4	RPD 0.45	None	PR 22-172 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8081A	DDD (p,p')	0.293	µg/L	=	0.003	0.01	0.3	PR 97.7		None	PR 38-135
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8081A	DDD (p,p')	0.295	µg/L	=	0.003	0.01	0.3	PR 98.3	RPD 0.68	None	PR 38-135 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8081A	DDE (p,p')	0.282	µg/L	=	0.004	0.01	0.3	PR 94.0	RPD 0	None	PR 21-134 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8081A	DDE (p,p')	0.282	µg/L	=	0.004	0.01	0.3	PR 94.0		None	PR 21-134
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8081A	DDT (p,p')	0.274	µg/L	=	0.007	0.01	0.3	PR 91.3	RPD 3.9	None	PR 18-145 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8081A	DDT (p,p')	0.285	µg/L	=	0.007	0.01	0.3	PR 95.0		None	PR 18-145
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	64.7	%	=	NA	NA	100			None	PR 16-146
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	68.3	%	=	NA	NA	100			None	PR 16-146
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Demeton-s	0.755	µg/L	=	0.01	0.1	0.75	PR 101	RPD 3.5	None	PR 40-125 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Demeton-s	0.729	µg/L	=	0.01	0.1	0.75	PR 97.2		None	PR 40-125
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Diazinon	2.41	µg/L	=	0.004	0.02	2.5	PR 96.4	RPD 0.83	None	PR 57-130 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Diazinon	2.39	µg/L	=	0.004	0.02	2.5	PR 95.6		None	PR 57-130
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Dichlorvos	2.32	µg/L	=	0.02	0.1	2.5	PR 92.8	RPD 4.9	None	PR 10-175 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Dichlorvos	2.21	µg/L	=	0.02	0.1	2.5	PR 88.4		None	PR 10-175
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8081A	Dicofol	0.162	µg/L	=	0.01	0.1	0.2	PR 81.0	RPD 0.62	None	PR 40-135 RPD <25

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8081A	Dicofol	0.163	µg/L	=	0.01	0.1	0.2	PR 81.5		None	PR 40-135
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8081A	Dieldrin	0.296	µg/L	=	0.005	0.01	0.3	PR 98.7	RPD 3.3	None	PR 48-121 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8081A	Dieldrin	0.306	µg/L	=	0.005	0.01	0.3	PR 102		None	PR 48-121
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Dimethoate	2.16	µg/L	=	0.08	0.1	2.5	PR 86.4	RPD 4.3	None	PR 68-202 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Dimethoate	2.07	µg/L	=	0.08	0.1	2.5	PR 82.8		None	PR 68-202
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Disulfoton	2.39	µg/L	=	0.02	0.05	2.5	PR 95.6	RPD 3.0	None	PR 47-117 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Disulfoton	2.32	µg/L	=	0.02	0.05	2.5	PR 92.8		None	PR 47-117
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8321A	Diuron	0.476	µg/L	=	0.2	0.4	1.07	PR 44.5		Matrix spike recovery not within control limits; RPD exceeds laboratory control limit.	PR 52-136
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8321A	Diuron	0.975	µg/L	=	0.2	0.4	1.07	PR 91.1	RPD 68.8	RPD exceeds laboratory control limit.	PR 52-136 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8081A	Endrin	0.303	µg/L	=	0.007	0.01	0.3	PR 101	RPD 2.3	None	PR 24-143 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8081A	Endrin	0.31	µg/L	=	0.007	0.01	0.3	PR 103		None	PR 24-143
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 547M	Glyphosate	50.06	µg/L	=	4	5	50	PR 100		None	PR 72-131
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 547M	Glyphosate	51.34	µg/L	=	4	5	50	PR 103	RPD 2.5	None	PR 72-131 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8321A	Linuron	0.426	µg/L	=	0.2	0.4	1.07	PR 39.8		Matrix spike recovery not within control limits; RPD exceeds laboratory control limit.	PR 49-144
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8321A	Linuron	0.903	µg/L	=	0.2	0.4	1.07	PR 84.4	RPD 71.8	RPD exceeds laboratory control limit.	PR 49-144 RPD <25

Adminsitrative Record
Page 17008

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Malathion	2.63	µg/L	=	0.05	0.1	2.5	PR 105		None	PR 47-125
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Malathion	2.67	µg/L	=	0.05	0.1	2.5	PR 107	RPD 1.5	None	PR 47-125 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Methamidophos	0.338	µg/L	=	0.08	0.2	0.5	PR 67.6	RPD 5.8	None	PR 25-136 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Methamidophos	0.319	µg/L	=	0.08	0.2	0.5	PR 63.8		None	PR 25-136
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Methidathion	2.75	µg/L	=	0.04	0.1	2.5	PR 110	RPD 2.6	None	PR 50-150 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Methidathion	2.68	µg/L	=	0.04	0.1	2.5	PR 107		None	PR 50-150
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8321A	Methiocarb	0.97	µg/L	=	0.2	0.4	1.07	PR 90.7	RPD 90.6	RPD exceeds laboratory control limit.	PR 35-142 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8321A	Methiocarb	0.365	µg/L	=	0.2	0.4	1.07	PR 34.1		Matrix spike recovery not within control limits; RPD exceeds laboratory control limit.	PR 35-142
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8321A	Methomyl	0.292	µg/L	=	0.05	0.07	1.07	PR 27.3		RPD exceeds laboratory control limit.	PR 23-152
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8321A	Methomyl	0.787	µg/L	=	0.05	0.07	1.07	PR 73.6	RPD 91.8	RPD exceeds laboratory control limit.	PR 23-152 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8081A	Methoxychlor	0.288	µg/L	=	0.008	0.01	0.3	PR 96.0		None	PR 30-163
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8081A	Methoxychlor	0.282	µg/L	=	0.008	0.01	0.3	PR 94.0	RPD 2.1	None	PR 30-163 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8321A	Oxamyl	0.628	µg/L	=	0.2	0.4	1.07	PR 58.7	RPD 99.8	RPD exceeds laboratory control limit.	PR 10-117 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8321A	Oxamyl	0.21	µg/L	=	0.2	0.4	1.07	PR 19.6		RPD exceeds laboratory control limit.	PR 10-117
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 549.2M	Paraquat dichloride	12.5	µg/L	=	0.21	0.5	12	PR 104	RPD 9.9	None	PR 50-141 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 549.2M	Paraquat dichloride	13.8	µg/L	=	0.21	0.5	12	PR 115		None	PR 50-141

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Parathion, Methyl	2.59	µg/L	=	0.075	0.1	2.5	PR 104	RPD 3.5	None	PR 55-164 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Parathion, Methyl	2.5	µg/L	=	0.075	0.1	2.5	PR 100		None	PR 55-164
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Phorate	2.49	µg/L	=	0.07	0.1	2.5	PR 99.6	RPD 2.9	None	PR 44-117 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Phorate	2.42	µg/L	=	0.07	0.1	2.5	PR 96.8		None	PR 44-117
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Phosmet	2.66	µg/L	=	0.06	0.2	2.5	PR 106	RPD 4.6	None	PR 50-150 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Phosmet	2.54	µg/L	=	0.06	0.2	2.5	PR 102		None	PR 50-150
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 619	Simazine	2.09	µg/L	=	0.08	0.5	2.5	PR 83.6	RPD 3.4	None	PR 21-179 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 619	Simazine	2.02	µg/L	=	0.08	0.5	2.5	PR 80.8		None	PR 21-179
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	87	%	=	NA	NA	100			None	PR 15-98
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	85.3	%	=	NA	NA	100			None	PR 15-98
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8321A	Tributylphosphate (Surrogate)	103	%	=	NA	NA	100			None	PR 36-140
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8321A	Tributylphosphate (Surrogate)	40.2	%	=	NA	NA	100			None	PR 36-140
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Tributylphosphate (Surrogate)	103	%	=	NA	NA	100			None	PR 60-150
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Tributylphosphate (Surrogate)	107	%	=	NA	NA	100			None	PR 60-150
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 619	Tributylphosphate (Surrogate)	107	%	=	NA	NA	100			None	PR 62-145
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 619	Tributylphosphate (Surrogate)	103	%	=	NA	NA	100			None	PR 62-145
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Tributylphosphate (Surrogate)	73	%	=	NA	NA	100			None	PR 60-150

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Tributylphosphate (Surrogate)	64.8	%	=	NA	NA	100			None	PR 60-150
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Trifluralin	2.23	µg/L	=	0.04	0.05	2.5	PR 89.2	RPD 1.8	None	PR 40-148 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Trifluralin	2.19	µg/L	=	0.04	0.05	2.5	PR 87.6		None	PR 40-148
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	96	%	=	NA	NA	100			None	PR 56-129
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	95.2	%	=	NA	NA	100			None	PR 56-129
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 619	Triphenyl phosphate (Surrogate)	96	%	=	NA	NA	100			None	PR 54-144
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 619	Triphenyl phosphate (Surrogate)	95.2	%	=	NA	NA	100			None	PR 54-144
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	71.2	%	=	NA	NA	100			None	PR 56-129
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	62.6	%	=	NA	NA	100			None	PR 56-129
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8321A	Aldicarb	1.03	µg/L	=	0.2	0.4	1.07	PR 96.3	RPD 7.2	None	PR 31-133 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8321A	Aldicarb	0.958	µg/L	=	0.2	0.4	1.07	PR 89.5		None	PR 31-133
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	Aldrin	0.171	µg/L	=	0.009	0.01	0.3	PR 57.0		None	PR 11-138
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	Aldrin	0.16	µg/L	=	0.009	0.01	0.3	PR 53.3	RPD 6.6	None	PR 11-138 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 619	Atrazine	2.19	µg/L	=	0.07	0.5	2.5	PR 87.6	RPD 4.5	None	PR 39-156 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 619	Atrazine	2.29	µg/L	=	0.07	0.5	2.5	PR 91.6		None	PR 39-156
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Azinphos methyl	2.6	µg/L	=	0.02	0.1	2.5	PR 104	RPD 9.5	None	PR 36-189 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Azinphos methyl	2.86	µg/L	=	0.02	0.1	2.5	PR 114		None	PR 36-189

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Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8321A	Carbaryl	1.03	µg/L	=	0.05	0.07	1.07	PR 96.3	RPD 16.5	None	PR 44-133 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8321A	Carbaryl	0.873	µg/L	=	0.05	0.07	1.07	PR 81.6		None	PR 44-133
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8321A	Carbofuran	1.01	µg/L	=	0.05	0.07	1.07	PR 94.4		None	PR 36-165
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8321A	Carbofuran	1.05	µg/L	=	0.05	0.07	1.07	PR 98.1	RPD 3.9	None	PR 36-165 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	Chlordane	0.309	µg/L	=	0.007	0.01	0.6	PR 51.5	RPD 7.5	None	PR 44-152 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	Chlordane	0.333	µg/L	=	0.007	0.01	0.6	PR 55.5		None	PR 44-152
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Chlorpyrifos	4.37	µg/L	=	0.0026	0.015	5	PR 87.4	RPD 1.8	None	PR 61-125 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Chlorpyrifos	4.45	µg/L	=	0.0026	0.015	5	PR 89.0		None	PR 61-125
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 619	Cyanazine	5.66	µg/L	=	0.09	0.5	2.5	PR 226	RPD 6.3	Matrix spike recovery not within control limits	PR 22-172 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 619	Cyanazine	6.03	µg/L	=	0.09	0.5	2.5	PR 241		Matrix spike recovery not within control limits	PR 22-172
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	DDD (p,p')	0.198	µg/L	=	0.003	0.01	0.3	PR 66.0	RPD 0.50	None	PR 38-135 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	DDD (p,p')	0.199	µg/L	=	0.003	0.01	0.3	PR 66.3		None	PR 38-135
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	DDE (p,p')	0.174	µg/L	=	0.004	0.01	0.3	PR 58.0		None	PR 21-134
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	DDE (p,p')	0.161	µg/L	=	0.004	0.01	0.3	PR 53.7	RPD 7.8	None	PR 21-134 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	DDT (p,p')	0.187	µg/L	=	0.007	0.01	0.3	PR 62.3	RPD 11.1	None	PR 18-145 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	DDT (p,p')	0.209	µg/L	=	0.007	0.01	0.3	PR 69.7		None	PR 18-145
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	31.4	%	=	NA	NA	100			None	PR 16-146

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Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	35	%	=	NA	NA	100			None	PR 16-146
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Demeton-s	2.1	µg/L	=	0.01	0.1	2.5	PR 84.0	RPD 5.1	None	PR 40-125 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Demeton-s	2.21	µg/L	=	0.01	0.1	2.5	PR 88.4		None	PR 40-125
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Diazinon	2.25	µg/L	=	0.004	0.02	2.5	PR 90.0		None	PR 57-130
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Diazinon	2.19	µg/L	=	0.004	0.02	2.5	PR 87.6	RPD 2.7	None	PR 57-130 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Dichlorvos	2.41	µg/L	=	0.02	0.1	2.5	PR 96.4	RPD 3.3	None	PR 10-175 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Dichlorvos	2.49	µg/L	=	0.02	0.1	2.5	PR 99.6		None	PR 10-175
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	Dicofol	0.175	µg/L	=	0.01	0.1	0.2	PR 87.5	RPD 5.3	None	PR 40-135 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	Dicofol	0.166	µg/L	=	0.01	0.1	0.2	PR 83.0		None	PR 40-135
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	Dieldrin	0.183	µg/L	=	0.005	0.01	0.3	PR 61.0		None	PR 48-121
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	Dieldrin	0.174	µg/L	=	0.005	0.01	0.3	PR 58.0	RPD 5.0	None	PR 48-121 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Dimethoate	1.85	µg/L	=	0.08	0.1	2.5	PR 74.0	RPD 11.7	None	PR 68-202 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Dimethoate	2.08	µg/L	=	0.08	0.1	2.5	PR 83.2		None	PR 68-202
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Disulfoton	2.03	µg/L	=	0.02	0.05	2.5	PR 81.2	RPD 3.9	None	PR 47-117 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Disulfoton	2.11	µg/L	=	0.02	0.05	2.5	PR 84.4		None	PR 47-117
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8321A	Diuron	0.678	µg/L	=	0.2	0.4	1.07	PR 63.4		None	PR 52-136
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8321A	Diuron	0.829	µg/L	=	0.2	0.4	1.07	PR 77.5	RPD 20.0	None	PR 52-136 RPD <25

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Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	Endosulfan I	0.163	µg/L	=	0.005	0.01	0.3	PR 54.3	RPD 7.7	None	PR 50-131 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	Endosulfan I	0.176	µg/L	=	0.005	0.01	0.3	PR 58.7		None	PR 50-131
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	Endosulfan II	0.186	µg/L	=	0.004	0.01	0.3	PR 62.0	RPD 3.7	None	PR 55-128 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	Endosulfan II	0.193	µg/L	=	0.004	0.01	0.3	PR 64.3		None	PR 55-128
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	Endrin	0.202	µg/L	=	0.007	0.01	0.3	PR 67.3		None	PR 24-143
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	Endrin	0.2	µg/L	=	0.007	0.01	0.3	PR 66.7	RPD 1.00	None	PR 24-143 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 547M	Glyphosate	45.73	µg/L	=	4	5	50	PR 91.5	RPD 0.428	None	PR 72-131 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 547M	Glyphosate	45.53	µg/L	=	4	5	50	PR 91.1		None	PR 72-131
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	HCH, alpha	0.231	µg/L	=	0.005	0.01	0.3	PR 77.0		None	PR 33-111
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	HCH, alpha	0.216	µg/L	=	0.005	0.01	0.3	PR 72.0	RPD 6.7	None	PR 33-111 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	HCH, beta	0.194	µg/L	=	0.008	0.01	0.3	PR 64.7		None	PR 49-119
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	HCH, beta	0.182	µg/L	=	0.008	0.01	0.3	PR 60.7	RPD 6.4	None	PR 49-119 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	HCH, delta	0.252	µg/L	=	0.005	0.01	0.3	PR 84.0		None	PR 12-97
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	HCH, delta	0.239	µg/L	=	0.005	0.01	0.3	PR 79.7	RPD 5.3	None	PR 12-97 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	HCH, gamma	0.207	µg/L	=	0.005	0.01	0.3	PR 69.0		None	PR 40-114
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	HCH, gamma	0.189	µg/L	=	0.005	0.01	0.3	PR 63.0	RPD 9.1	None	PR 40-114 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	Heptachlor	0.188	µg/L	=	0.008	0.01	0.3	PR 62.7		None	PR 24-124

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Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	Heptachlor	0.184	µg/L	=	0.008	0.01	0.3	PR 61.3	RPD 2.2	None	PR 24-124 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	Heptachlor epoxide	0.177	µg/L	=	0.007	0.01	0.3	PR 59.0		None	PR 58-109
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	Heptachlor epoxide	0.176	µg/L	=	0.007	0.01	0.3	PR 58.7	RPD 0.57	None	PR 58-109 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8321A	Linuron	0.864	µg/L	=	0.2	0.4	1.07	PR 80.7		None	PR 49-144
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8321A	Linuron	0.914	µg/L	=	0.2	0.4	1.07	PR 85.4	RPD 5.6	None	PR 49-144 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Malathion	2.37	µg/L	=	0.05	0.1	2.5	PR 94.8	RPD 3.7	None	PR 47-125 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Malathion	2.46	µg/L	=	0.05	0.1	2.5	PR 98.4		None	PR 47-125
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Methamidophos	0.235	µg/L	=	0.08	0.2	0.5	PR 47.0		None	PR 25-136
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Methamidophos	0.214	µg/L	=	0.08	0.2	0.5	PR 42.8	RPD 9.4	None	PR 25-136 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Methidathion	2.29	µg/L	=	0.04	0.1	2.5	PR 91.6		None	PR 50-150
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Methidathion	2.18	µg/L	=	0.04	0.1	2.5	PR 87.2	RPD 4.9	None	PR 50-150 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8321A	Methiocarb	0.936	µg/L	=	0.2	0.4	1.07	PR 87.5		None	PR 35-142
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8321A	Methiocarb	0.801	µg/L	=	0.2	0.4	1.07	PR 74.9	RPD 15.5	None	PR 35-142 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8321A	Methomyl	0.861	µg/L	=	0.05	0.07	1.07	PR 80.5		RPD exceeds laboratory control limit.	PR 23-152
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8321A	Methomyl	1.15	µg/L	=	0.05	0.07	1.07	PR 107	RPD 28.7	RPD exceeds laboratory control limit.	PR 23-152 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	Methoxychlor	0.187	µg/L	=	0.008	0.01	0.3	PR 62.3	RPD 16.2	None	PR 30-163 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	Methoxychlor	0.22	µg/L	=	0.008	0.01	0.3	PR 73.3		None	PR 30-163

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8321A	Oxamyl	0.993	µg/L	=	0.2	0.4	1.07	PR 92.8		None	PR 10-117
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8321A	Oxamyl	1.15	µg/L	=	0.2	0.4	1.07	PR 107	RPD 14.7	None	PR 10-117 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 549.2M	Paraquat dichloride	13.2	µg/L	=	0.21	0.5	12	PR 110	RPD 22.8	None	PR 50-141 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 549.2M	Paraquat dichloride	10.5	µg/L	=	0.21	0.5	12	PR 87.5		None	PR 50-141
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Parathion, Methyl	2.2	µg/L	=	0.075	0.1	2.5	PR 88.0		None	PR 55-164
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Parathion, Methyl	2.17	µg/L	=	0.075	0.1	2.5	PR 86.8	RPD 1.4	None	PR 55-164 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Phorate	2.13	µg/L	=	0.07	0.1	2.5	PR 85.2	RPD 4.1	None	PR 44-117 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Phorate	2.22	µg/L	=	0.07	0.1	2.5	PR 88.8		None	PR 44-117
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Phosmet	2.53	µg/L	=	0.06	0.2	2.5	PR 101		None	PR 50-150
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Phosmet	2.36	µg/L	=	0.06	0.2	2.5	PR 94.4	RPD 7.0	None	PR 50-150 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 619	Simazine	2.26	µg/L	=	0.08	0.5	2.5	PR 90.4		None	PR 21-179
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 619	Simazine	2.09	µg/L	=	0.08	0.5	2.5	PR 83.6	RPD 7.8	None	PR 21-179 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	57.3	%	=	NA	NA	100			None	PR 15-98
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	56	%	=	NA	NA	100			None	PR 15-98
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8321A	Tributylphosphate (Surrogate)	74.4	%	=	NA	NA	100			None	PR 36-140
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8321A	Tributylphosphate (Surrogate)	83.5	%	=	NA	NA	100			None	PR 36-140
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Tributylphosphate (Surrogate)	89.2	%	=	NA	NA	100			None	PR 60-150

Adminsitrative Record
Page 17016

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Tributylphosphate (Surrogate)	92.4	%	=	NA	NA	100			None	PR 60-150
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 619	Tributylphosphate (Surrogate)	92.4	%	=	NA	NA	100			None	PR 62-145
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 619	Tributylphosphate (Surrogate)	89.2	%	=	NA	NA	100			None	PR 62-145
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Tributylphosphate (Surrogate)	79	%	=	NA	NA	100			None	PR 60-150
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Tributylphosphate (Surrogate)	85.2	%	=	NA	NA	100			None	PR 60-150
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Trifluralin	2.22	µg/L	=	0.04	0.05	2.5	PR 88.8		None	PR 40-148
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Trifluralin	2.1	µg/L	=	0.04	0.05	2.5	PR 84.0	RPD 5.6	None	PR 40-148 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	91.2	%	=	NA	NA	100			None	PR 56-129
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	92.4	%	=	NA	NA	100			None	PR 56-129
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 619	Triphenyl phosphate (Surrogate)	91.2	%	=	NA	NA	100			None	PR 54-144
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 619	Triphenyl phosphate (Surrogate)	92.4	%	=	NA	NA	100			None	PR 54-144
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	75.4	%	=	NA	NA	100			None	PR 56-129
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 8141A	Triphenyl phosphate (Surrogate)	68.4	%	=	NA	NA	100			None	PR 56-129
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8321A	Aldicarb	0.917	µg/L	=	0.2	0.4	1.07	PR 85.7	RPD 18.9	None	PR 31-133 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8321A	Aldicarb	0.759	µg/L	=	0.2	0.4	1.07	PR 70.9		None	PR 31-133
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 619	Atrazine	4.53	µg/L	=	0.07	0.5	5	PR 90.6	RPD 0	None	PR 39-156 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 619	Atrazine	4.53	µg/L	=	0.07	0.5	5	PR 90.6		None	PR 39-156

Adminsitrative Record
Page 17017

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Azinphos methyl	6.42	µg/L	=	0.02	0.1	5	PR 128	RPD 0.62	Surrogate recovery is outside of control limits.	PR 36-189 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Azinphos methyl	6.46	µg/L	=	0.02	0.1	5	PR 129		Surrogate recovery is outside of control limits.	PR 36-189
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8321A	Carbaryl	0.866	µg/L	=	0.05	0.07	1.07	PR 80.9		None	PR 44-133
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8321A	Carbaryl	0.863	µg/L	=	0.05	0.07	1.07	PR 80.7	RPD 0.35	None	PR 44-133 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8321A	Carbofuran	0.89	µg/L	=	0.05	0.07	1.07	PR 83.2		None	PR 36-165
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8321A	Carbofuran	1.07	µg/L	=	0.05	0.07	1.07	PR 100	RPD 18.4	None	PR 36-165 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Chlorpyrifos	10.4	µg/L	=	0.0026	0.015	10	PR 104	RPD 1.9	Surrogate recovery is outside of control limits.	PR 61-125 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Chlorpyrifos	10.2	µg/L	=	0.0026	0.015	10	PR 102		Surrogate recovery is outside of control limits.	PR 61-125
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 619	Cyanazine	18.2	µg/L	=	0.09	0.5	10	PR 182	RPD 14.1	Matrix spike recovery not within control limits	PR 22-172 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 619	Cyanazine	15.8	µg/L	=	0.09	0.5	10	PR 158		None	PR 22-172
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8081A	DDD (p,p')	0.359	µg/L	=	0.003	0.01	0.6	PR 59.8		None	PR 38-135
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8081A	DDD (p,p')	0.341	µg/L	=	0.003	0.01	0.6	PR 56.8	RPD 5.1	None	PR 38-135 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8081A	DDE (p,p')	0.342	µg/L	=	0.004	0.01	0.6	PR 57.0		None	PR 21-134
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8081A	DDE (p,p')	0.389	µg/L	=	0.004	0.01	0.6	PR 64.8	RPD 12.9	None	PR 21-134 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8081A	DDT (p,p')	0.382	µg/L	=	0.007	0.01	0.6	PR 63.7	RPD 11.6	None	PR 18-145 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8081A	DDT (p,p')	0.34	µg/L	=	0.007	0.01	0.6	PR 56.7		None	PR 18-145
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8081A	Decachlorobiphenyl (Surrogate)	40	%	=	NA	NA	100			None	PR 16-146

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8081A	Decachlorobiphenyl (Surrogate)	33.8	%	=	NA	NA	100			None	PR 16-146
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Demeton-s	1.88	µg/L	=	0.01	0.1	1.25	PR 150	RPD 2.1	Matrix spike recovery not within control limits; Surrogate recovery is outside of control limits.	PR 40-125 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Demeton-s	1.92	µg/L	=	0.01	0.1	1.25	PR 154		Matrix spike recovery not within control limits; Surrogate recovery is outside of control limits.	PR 40-125
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Diazinon	5.19	µg/L	=	0.004	0.02	5	PR 104	RPD 4.5	Surrogate recovery is outside of control limits.	PR 57-130 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Diazinon	4.96	µg/L	=	0.004	0.02	5	PR 99.2		Surrogate recovery is outside of control limits.	PR 57-130
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Dichlorvos	5.62	µg/L	=	0.02	0.1	5	PR 112	RPD 0.18	Surrogate recovery is outside of control limits.	PR 10-175 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Dichlorvos	5.61	µg/L	=	0.02	0.1	5	PR 112		Surrogate recovery is outside of control limits.	PR 10-175
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8081A	Dicofol	0.371	µg/L	=	0.01	0.1	0.4	PR 92.8		None	PR 40-135
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8081A	Dicofol	0.39	µg/L	=	0.01	0.1	0.4	PR 97.5	RPD 5.0	None	PR 40-135 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8081A	Dieldrin	0.421	µg/L	=	0.005	0.01	0.6	PR 70.2	RPD 14.0	None	PR 48-121 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8081A	Dieldrin	0.366	µg/L	=	0.005	0.01	0.6	PR 61.0		None	PR 48-121
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Dimethoate	6.07	µg/L	=	0.08	0.1	5	PR 121	RPD 2.8	Surrogate recovery is outside of control limits.	PR 68-202 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Dimethoate	5.9	µg/L	=	0.08	0.1	5	PR 118		Surrogate recovery is outside of control limits.	PR 68-202
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Disulfoton	4.8	µg/L	=	0.02	0.05	5	PR 96.0	RPD 3.0	Surrogate recovery is outside of control limits.	PR 47-117 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Disulfoton	4.66	µg/L	=	0.02	0.05	5	PR 93.2		Surrogate recovery is outside of control limits.	PR 47-117

Adminsitrative Record
Page 17019

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8321A	Diuron	0.754	µg/L	=	0.2	0.4	1.07	PR 70.5	RPD 17.8	None	PR 52-136 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8321A	Diuron	0.631	µg/L	=	0.2	0.4	1.07	PR 59.0		None	PR 52-136
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8081A	Endrin	0.36	µg/L	=	0.007	0.01	0.6	PR 60.0		None	PR 24-143
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8081A	Endrin	0.405	µg/L	=	0.007	0.01	0.6	PR 67.5	RPD 11.8	None	PR 24-143 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 547M	Glyphosate	58	µg/L	=	2.8	5	50	PR 115		None	PR 72-131
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 547M	Glyphosate	57	µg/L	=	2.8	5	50	PR 115	RPD 0.38	None	PR 72-131 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8321A	Linuron	0.56	µg/L	=	0.2	0.4	1.07	PR 52.3	RPD 1.3	None	PR 49-144 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8321A	Linuron	0.553	µg/L	=	0.2	0.4	1.07	PR 51.7		None	PR 49-144
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Malathion	10.4	µg/L	=	0.05	0.1	10	PR 104	RPD 1.9	Surrogate recovery is outside of control limits.	PR 47-125 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Malathion	10.2	µg/L	=	0.05	0.1	10	PR 102		Surrogate recovery is outside of control limits.	PR 47-125
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Methamidophos	0.358	µg/L	=	0.08	0.2	0.5	PR 71.6		None	PR 25-136
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Methamidophos	0.355	µg/L	=	0.08	0.2	0.5	PR 71.0	RPD 0.84	None	PR 25-136 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Methidathion	6.18	µg/L	=	0.04	0.1	5	PR 124	RPD 0.98	Surrogate recovery is outside of control limits.	PR 50-150 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Methidathion	6.12	µg/L	=	0.04	0.1	5	PR 122		Surrogate recovery is outside of control limits.	PR 50-150
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8321A	Methiocarb	0.838	µg/L	=	0.2	0.4	1.07	PR 78.3	RPD 4.4	None	PR 35-142 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8321A	Methiocarb	0.802	µg/L	=	0.2	0.4	1.07	PR 75.0		None	PR 35-142
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8321A	Methomyl	0.76	µg/L	=	0.05	0.07	1.07	PR 71.0	RPD 3.8	None	PR 23-152 RPD <25

Adminsitrative Record
Page 17020

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8321A	Methomyl	0.732	µg/L	=	0.05	0.07	1.07	PR 68.4		None	PR 23-152
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8081A	Methoxychlor	0.356	µg/L	=	0.008	0.01	0.6	PR 59.3		None	PR 30-163
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8081A	Methoxychlor	0.405	µg/L	=	0.008	0.01	0.6	PR 67.5	RPD 12.9	None	PR 30-163 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8321A	Oxamyl	0.641	µg/L	=	0.2	0.4	1.07	PR 59.9	RPD 3.3	None	PR 10-117 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8321A	Oxamyl	0.62	µg/L	=	0.2	0.4	1.07	PR 57.9		None	PR 10-117
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 549.2M	Paraquat dichloride	9.79	µg/L	=	0.21	0.5	12	PR 81.6	RPD 3.1	None	PR 50-141 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 549.2M	Paraquat dichloride	9.49	µg/L	=	0.21	0.5	12	PR 79.1		None	PR 50-141
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Parathion, Methyl	5.86	µg/L	=	0.075	0.1	5	PR 117	RPD 0.51	Surrogate recovery is outside of control limits.	PR 55-164 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Parathion, Methyl	5.83	µg/L	=	0.075	0.1	5	PR 117		Surrogate recovery is outside of control limits.	PR 55-164
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Phorate	5.02	µg/L	=	0.07	0.1	5	PR 100		Surrogate recovery is outside of control limits.	PR 44-117
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Phorate	5.19	µg/L	=	0.07	0.1	5	PR 104	RPD 3.3	Surrogate recovery is outside of control limits.	PR 44-117 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Phosmet	5.55	µg/L	=	0.06	0.2	5	PR 111		Surrogate recovery is outside of control limits.	PR 50-150
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Phosmet	5.54	µg/L	=	0.06	0.2	5	PR 111	RPD 0.18	Surrogate recovery is outside of control limits.	PR 50-150 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 619	Simazine	4.48	µg/L	=	0.08	0.5	5	PR 89.6	RPD 0.45	None	PR 21-179 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 619	Simazine	4.46	µg/L	=	0.08	0.5	5	PR 89.2		None	PR 21-179
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	50.7	%	=	NA	NA	100			None	PR 15-98
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	45.7	%	=	NA	NA	100			None	PR 15-98

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Tributylphosphate (Surrogate)	104	%	=	NA	NA	100			None	PR 60-150
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Tributylphosphate (Surrogate)	102	%	=	NA	NA	100			None	PR 60-150
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 619	Tributylphosphate (Surrogate)	102	%	=	NA	NA	100			None	PR 62-145
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 619	Tributylphosphate (Surrogate)	104	%	=	NA	NA	100			None	PR 62-145
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Tributylphosphate (Surrogate)	60.4	%	=	NA	NA	100			None	PR 60-150
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Tributylphosphate (Surrogate)	64.8	%	=	NA	NA	100			None	PR 60-150
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8321A	Tributylphosphate (Surrogate)	63.7	%	=	NA	NA	100			None	PR 36-140
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8321A	Tributylphosphate (Surrogate)	74.4	%	=	NA	NA	100			None	PR 36-140
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Trifluralin	4.32	µg/L	=	0.036	0.05	5	PR 86.4	RPD 1.9	Surrogate recovery is outside of control limits.	PR 40-148 RPD <25
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Trifluralin	4.24	µg/L	=	0.036	0.05	5	PR 84.8		Surrogate recovery is outside of control limits.	PR 40-148
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Triphenyl phosphate (Surrogate)	132	%	=	NA	NA	100			Surrogate recovery is outside of control limits.	PR 56-129
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Triphenyl phosphate (Surrogate)	132	%	=	NA	NA	100			Surrogate recovery is outside of control limits.	PR 56-129
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 619	Triphenyl phosphate (Surrogate)	132	%	=	NA	NA	100			None	PR 54-144
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 619	Triphenyl phosphate (Surrogate)	132	%	=	NA	NA	100			None	PR 54-144
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 8141A	Triphenyl phosphate (Surrogate)	77	%	=	NA	NA	100			None	PR 56-129
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 8141A	Triphenyl phosphate (Surrogate)	70.6	%	=	NA	NA	100			None	PR 56-129
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8321A	Aldicarb	1.67	µg/L	=	0.2	0.4	1.07	PR 156	RPD 20.5	Matrix spike recovery not within control limits	PR 31-133 RPD <25

Adminsitrative Record
Page 17022

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8321A	Aldicarb	1.36	µg/L	=	0.2	0.4	1.07	PR 127		None	PR 31-133
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	Aldrin	0.281	µg/L	=	0.009	0.01	0.3	PR 93.7	RPD 0	None	PR 11-138 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	Aldrin	0.281	µg/L	=	0.009	0.01	0.3	PR 93.7		None	PR 11-138
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 619	Atrazine	2.76	µg/L	=	0.07	0.5	2.5	PR 110		None	PR 39-156
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 619	Atrazine	3.08	µg/L	=	0.07	0.5	2.5	PR 123	RPD 11.0	None	PR 39-156 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Azinphos methyl	3.75	µg/L	=	0.02	0.1	2.5	PR 150		None	PR 36-189
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Azinphos methyl	4.04	µg/L	=	0.02	0.1	2.5	PR 162	RPD 7.4	None	PR 36-189 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8321A	Carbaryl	1.41	µg/L	=	0.05	0.07	1.07	PR 132	RPD 16.1	None	PR 44-133 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8321A	Carbaryl	1.2	µg/L	=	0.05	0.07	1.07	PR 112		None	PR 44-133
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8321A	Carbofuran	1.21	µg/L	=	0.05	0.07	1.07	PR 113		RPD exceeds laboratory control limit.	PR 36-165
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8321A	Carbofuran	1.58	µg/L	=	0.05	0.07	1.07	PR 148	RPD 26.5	RPD exceeds laboratory control limit.	PR 36-165 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	Chlordane	0.593	µg/L	=	0.007	0.01	0.6	PR 98.8	RPD 2.7	None	PR 44-152 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	Chlordane	0.609	µg/L	=	0.007	0.01	0.6	PR 102		None	PR 44-152
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Chlorpyrifos	6.09	µg/L	=	0.0026	0.015	5	PR 122	RPD 6.4	None	PR 61-125 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Chlorpyrifos	5.71	µg/L	=	0.0026	0.015	5	PR 114		None	PR 61-125
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 619	Cyanazine	3.71	µg/L	=	0.09	0.5	2.5	PR 148		None	PR 22-172
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 619	Cyanazine	4.08	µg/L	=	0.09	0.5	2.5	PR 163	RPD 9.5	None	PR 22-172 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	DDD (p,p')	0.311	µg/L	=	0.003	0.01	0.3	PR 104		None	PR 38-135
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	DDD (p,p')	0.296	µg/L	=	0.003	0.01	0.3	PR 98.7	RPD 4.9	None	PR 38-135 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	DDE (p,p')	0.317	µg/L	=	0.004	0.01	0.3	PR 106	RPD 0	None	PR 21-134 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	DDE (p,p')	0.317	µg/L	=	0.004	0.01	0.3	PR 106		None	PR 21-134
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	DDT (p,p')	0.315	µg/L	=	0.007	0.01	0.3	PR 105		None	PR 18-145
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	DDT (p,p')	0.302	µg/L	=	0.007	0.01	0.3	PR 101	RPD 4.2	None	PR 18-145 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	Decachlorobiphenyl (Surrogate)	86.7	%	=	NA	NA	100			None	PR 16-146

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	Decachlorobiphenyl (Surrogate)	82.3	%	=	NA	NA	100			None	PR 16-146
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Demeton-s	0.942	µg/L	=	0.01	0.1	0.75	PR 126		Matrix spike recovery not within control limits	PR 40-125
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Demeton-s	0.999	µg/L	=	0.01	0.1	0.75	PR 133	RPD 5.9	Matrix spike recovery not within control limits	PR 40-125 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Diazinon	2.85	µg/L	=	0.004	0.02	2.5	PR 114		None	PR 57-130
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Diazinon	3.04	µg/L	=	0.004	0.02	2.5	PR 122	RPD 6.5	None	PR 57-130 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Dichlorvos	3.27	µg/L	=	0.02	0.1	2.5	PR 131	RPD 13.4	None	PR 10-175 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Dichlorvos	2.86	µg/L	=	0.02	0.1	2.5	PR 114		None	PR 10-175
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	Dicofol	0.143	µg/L	=	0.01	0.1	0.2	PR 71.5	RPD 3.4	None	PR 40-135 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	Dicofol	0.148	µg/L	=	0.01	0.1	0.2	PR 74.0		None	PR 40-135
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	Dieldrin	0.322	µg/L	=	0.005	0.01	0.3	PR 107		None	PR 48-121
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	Dieldrin	0.314	µg/L	=	0.005	0.01	0.3	PR 105	RPD 2.5	None	PR 48-121 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Dimethoate	2.88	µg/L	=	0.08	0.1	2.5	PR 115	RPD 9.1	None	PR 68-202 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Dimethoate	2.63	µg/L	=	0.08	0.1	2.5	PR 105		None	PR 68-202
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Disulfoton	2.96	µg/L	=	0.02	0.05	2.5	PR 118	RPD 4.8	Matrix spike recovery not within control limits	PR 47-117 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Disulfoton	2.82	µg/L	=	0.02	0.05	2.5	PR 113		None	PR 47-117
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8321A	Diuron	1.02	µg/L	=	0.2	0.4	1.07	PR 95.3		None	PR 52-136
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8321A	Diuron	1.3	µg/L	=	0.2	0.4	1.07	PR 121	RPD 24.1	None	PR 52-136 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	Endosulfan I	0.301	µg/L	=	0.005	0.01	0.3	PR 100	RPD 2.9	None	PR 50-131 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	Endosulfan I	0.31	µg/L	=	0.005	0.01	0.3	PR 103		None	PR 50-131
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	Endosulfan II	0.3	µg/L	=	0.004	0.01	0.3	PR 100		None	PR 55-128
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	Endosulfan II	0.289	µg/L	=	0.004	0.01	0.3	PR 96.3	RPD 3.7	None	PR 55-128 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	Endrin	0.3	µg/L	=	0.007	0.01	0.3	PR 100	RPD 2.0	None	PR 24-143 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	Endrin	0.306	µg/L	=	0.007	0.01	0.3	PR 102		None	PR 24-143

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 547M	Glyphosate	49.32	µg/L	=	4	5	50	PR 98.6	RPD 1.4	None	PR 72-131 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 547M	Glyphosate	49.99	µg/L	=	4	5	50	PR 100		None	PR 72-131
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	HCH, alpha	0.291	µg/L	=	0.005	0.01	0.3	PR 97.0	RPD 0.69	None	PR 33-111 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	HCH, alpha	0.289	µg/L	=	0.005	0.01	0.3	PR 96.3		None	PR 33-111
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	HCH, beta	0.288	µg/L	=	0.008	0.01	0.3	PR 96.0	RPD 0.35	None	PR 49-119 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	HCH, beta	0.289	µg/L	=	0.008	0.01	0.3	PR 96.3		None	PR 49-119
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	HCH, delta	0.305	µg/L	=	0.005	0.01	0.3	PR 102	RPD 1.3	Matrix spike recovery not within control limits	PR 12-97 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	HCH, delta	0.309	µg/L	=	0.005	0.01	0.3	PR 103		Matrix spike recovery not within control limits	PR 12-97
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	HCH, gamma	0.306	µg/L	=	0.005	0.01	0.3	PR 102	RPD 0.66	None	PR 40-114 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	HCH, gamma	0.304	µg/L	=	0.005	0.01	0.3	PR 101		None	PR 40-114
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	Heptachlor	0.28	µg/L	=	0.008	0.01	0.3	PR 93.3	RPD 1.1	None	PR 24-124 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	Heptachlor	0.277	µg/L	=	0.008	0.01	0.3	PR 92.3		None	PR 24-124
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	Heptachlor epoxide	0.296	µg/L	=	0.007	0.01	0.3	PR 98.7		None	PR 58-109
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	Heptachlor epoxide	0.292	µg/L	=	0.007	0.01	0.3	PR 97.3	RPD 1.4	None	PR 58-109 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8321A	Linuron	1.13	µg/L	=	0.2	0.4	1.07	PR 106	RPD 5.5	None	PR 49-144 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8321A	Linuron	1.07	µg/L	=	0.2	0.4	1.07	PR 100		None	PR 49-144
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Malathion	3.13	µg/L	=	0.05	0.1	2.5	PR 125	RPD 4.9	None	PR 47-125 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Malathion	2.98	µg/L	=	0.05	0.1	2.5	PR 119		None	PR 47-125
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Methamidophos	0.285	µg/L	=	0.08	0.2	0.5	PR 57.0		None	PR 25-136
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Methamidophos	0.289	µg/L	=	0.08	0.2	0.5	PR 57.8	RPD 1.4	None	PR 25-136 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Methidathion	3.75	µg/L	=	0.04	0.1	2.5	PR 150	RPD 7.8	None	PR 50-150 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Methidathion	3.47	µg/L	=	0.04	0.1	2.5	PR 139		None	PR 50-150
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8321A	Methiocarb	1.19	µg/L	=	0.2	0.4	1.07	PR 111		None	PR 35-142
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8321A	Methiocarb	1.35	µg/L	=	0.2	0.4	1.07	PR 126	RPD 12.6	None	PR 35-142 RPD <25

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8321A	Methomyl	0.99	µg/L	=	0.05	0.07	1.07	PR 92.5		None	PR 23-152
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8321A	Methomyl	1.24	µg/L	=	0.05	0.07	1.07	PR 116	RPD 22.4	None	PR 23-152 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	Methoxychlor	0.273	µg/L	=	0.008	0.01	0.3	PR 91.0	RPD 7.1	None	PR 30-163 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	Methoxychlor	0.293	µg/L	=	0.008	0.01	0.3	PR 97.7		None	PR 30-163
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8321A	Oxamyl	0.873	µg/L	=	0.2	0.4	1.07	PR 81.6	RPD 16.5	None	PR 10-117 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8321A	Oxamyl	0.74	µg/L	=	0.2	0.4	1.07	PR 69.2		None	PR 10-117
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 549.2M	Paraquat dichloride	11.4	µg/L	=	0.21	0.5	12	PR 95.0		None	PR 50-141
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 549.2M	Paraquat dichloride	9.3	µg/L	=	0.21	0.5	12	PR 77.5	RPD 20.3	None	PR 50-141 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Parathion, Methyl	3.48	µg/L	=	0.075	0.1	2.5	PR 139		None	PR 55-164
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Parathion, Methyl	3.68	µg/L	=	0.075	0.1	2.5	PR 147	RPD 5.6	None	PR 55-164 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Phorate	3.12	µg/L	=	0.07	0.1	2.5	PR 125	RPD 8.7	Matrix spike recovery not within control limits	PR 44-117 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Phorate	2.86	µg/L	=	0.07	0.1	2.5	PR 114		None	PR 44-117
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Phosmet	2.36	µg/L	=	0.06	0.2	2.5	PR 94.4		None	PR 50-150
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Phosmet	2.47	µg/L	=	0.06	0.2	2.5	PR 98.8	RPD 4.6	None	PR 50-150 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 619	Simazine	2.53	µg/L	=	0.08	0.5	2.5	PR 101		None	PR 21-179
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 619	Simazine	2.93	µg/L	=	0.08	0.5	2.5	PR 117	RPD 14.7	None	PR 21-179 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	91	%	=	NA	NA	100			None	PR 15-98
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	85.3	%	=	NA	NA	100			None	PR 15-98
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8321A	Tributylphosphate (Surrogate)	114	%	=	NA	NA	100			None	PR 36-140
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8321A	Tributylphosphate (Surrogate)	105	%	=	NA	NA	100			None	PR 36-140
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Tributylphosphate (Surrogate)	136	%	=	NA	NA	100			None	PR 60-150
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Tributylphosphate (Surrogate)	149	%	=	NA	NA	100			None	PR 60-150
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 619	Tributylphosphate (Surrogate)	136	%	=	NA	NA	100			None	PR 62-145
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 619	Tributylphosphate (Surrogate)	130	%	=	NA	NA	100			None	PR 62-145

Adminsitrative Record
Page 17026

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Tributylphosphate (Surrogate)	94.8	%	=	NA	NA	100			None	PR 60-150
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Tributylphosphate (Surrogate)	98.4	%	=	NA	NA	100			None	PR 60-150
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Trifluralin	3.02	µg/L	=	0.04	0.05	2.5	PR 121	RPD 7.2	None	PR 40-148 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Trifluralin	2.81	µg/L	=	0.04	0.05	2.5	PR 112		None	PR 40-148
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Triphenyl phosphate (Surrogate)	124	%	=	NA	NA	100			None	PR 56-129
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Triphenyl phosphate (Surrogate)	114	%	=	NA	NA	100			None	PR 56-129
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 619	Triphenyl phosphate (Surrogate)	124	%	=	NA	NA	100			None	PR 54-144
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 619	Triphenyl phosphate (Surrogate)	114	%	=	NA	NA	100			None	PR 54-144
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 8141A	Triphenyl phosphate (Surrogate)	95.6	%	=	NA	NA	100			None	PR 56-129
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 8141A	Triphenyl phosphate (Surrogate)	94.6	%	=	NA	NA	100			None	PR 56-129
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8321A	Aldicarb	0.789	µg/L	=	0.2	0.4	1.07	PR 73.7		None	PR 31-133
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8321A	Aldicarb	0.795	µg/L	=	0.2	0.4	1.07	PR 74.3	RPD 0.76	None	PR 31-133 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	Aldrin	0.264	µg/L	=	0.009	0.01	0.3	PR 88.0	RPD 3.0	None	PR 11-138 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	Aldrin	0.272	µg/L	=	0.009	0.01	0.3	PR 90.7		None	PR 11-138
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 619	Atrazine	2.65	µg/L	=	0.07	0.5	2.5	PR 106		None	PR 39-156
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 619	Atrazine	2.6	µg/L	=	0.07	0.5	2.5	PR 104	RPD 1.9	None	PR 39-156 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Azinphos methyl	3.04	µg/L	=	0.02	0.1	2.5	PR 122		None	PR 36-189
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Azinphos methyl	2.9	µg/L	=	0.02	0.1	2.5	PR 116	RPD 4.7	None	PR 36-189 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8321A	Carbaryl	0.898	µg/L	=	0.05	0.07	1.07	PR 83.9		None	PR 44-133
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8321A	Carbaryl	0.891	µg/L	=	0.05	0.07	1.07	PR 83.3	RPD 0.78	None	PR 44-133 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8321A	Carbofuran	0.942	µg/L	=	0.05	0.07	1.07	PR 88.0		None	PR 36-165
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8321A	Carbofuran	0.748	µg/L	=	0.05	0.07	1.07	PR 69.9	RPD 23.0	None	PR 36-165 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	Chlordane	0.567	µg/L	=	0.007	0.01	0.6	PR 94.5	RPD 5.8	None	PR 44-152 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	Chlordane	0.535	µg/L	=	0.007	0.01	0.6	PR 89.2		None	PR 44-152
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Chlorpyrifos	6.06	µg/L	=	0.0026	0.015	5	PR 121		None	PR 61-125

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Chlorpyrifos	5.97	µg/L	=	0.0026	0.015	5	PR 119	RPD 1.5	None	PR 61-125 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 619	Cyanazine	3.14	µg/L	=	0.09	0.5	2.5	PR 126		None	PR 22-172
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 619	Cyanazine	3.17	µg/L	=	0.09	0.5	2.5	PR 127	RPD 0.95	None	PR 22-172 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	DDD (p,p')	0.284	µg/L	=	0.003	0.01	0.3	PR 94.7		None	PR 38-135
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	DDD (p,p')	0.284	µg/L	=	0.003	0.01	0.3	PR 94.7	RPD 0	None	PR 38-135 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	DDE (p,p')	0.252	µg/L	=	0.004	0.01	0.3	PR 84.0		None	PR 21-134
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	DDE (p,p')	0.269	µg/L	=	0.004	0.01	0.3	PR 89.7	RPD 6.5	None	PR 21-134 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	DDT (p,p')	0.181	µg/L	=	0.007	0.01	0.3	PR 60.3	RPD 10.5	None	PR 18-145 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	DDT (p,p')	0.163	µg/L	=	0.007	0.01	0.3	PR 54.3		None	PR 18-145
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	Decachlorobiphenyl (Surrogate)	58.7	%	=	NA	NA	100			None	PR 16-146
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	Decachlorobiphenyl (Surrogate)	53.3	%	=	NA	NA	100			None	PR 16-146
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Demeton-s	0.891	µg/L	=	0.01	0.1	1.5	PR 59.4		None	PR 40-125
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Demeton-s	0.895	µg/L	=	0.01	0.1	1.5	PR 59.7	RPD 0.45	None	PR 40-125 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Diazinon	2.98	µg/L	=	0.004	0.02	2.5	PR 119		None	PR 57-130
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Diazinon	2.98	µg/L	=	0.004	0.02	2.5	PR 119	RPD 0	None	PR 57-130 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Dichlorvos	2.64	µg/L	=	0.02	0.1	2.5	PR 106		None	PR 10-175
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Dichlorvos	2.69	µg/L	=	0.02	0.1	2.5	PR 108	RPD 1.9	None	PR 10-175 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	Dicofol	0.137	µg/L	=	0.01	0.1	0.2	PR 68.5	RPD 6.4	None	PR 40-135 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	Dicofol	0.146	µg/L	=	0.01	0.1	0.2	PR 73.0		None	PR 40-135
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	Dieldrin	0.318	µg/L	=	0.005	0.01	0.3	PR 106	RPD 5.5	None	PR 48-121 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	Dieldrin	0.301	µg/L	=	0.005	0.01	0.3	PR 100		None	PR 48-121
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Dimethoate	2.75	µg/L	=	0.08	0.1	2.5	PR 110	RPD 5.7	None	PR 68-202 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Dimethoate	2.91	µg/L	=	0.08	0.1	2.5	PR 116		None	PR 68-202
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Disulfoton	2.93	µg/L	=	0.02	0.05	2.5	PR 117	RPD 0.68	None	PR 47-117 RPD <25

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Disulfoton	2.95	µg/L	=	0.02	0.05	2.5	PR 118		Matrix spike recovery not within control limits	PR 47-117
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8321A	Diuron	1.04	µg/L	=	0.2	0.4	1.07	PR 97.2	RPD 14.3	None	PR 52-136 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8321A	Diuron	1.2	µg/L	=	0.2	0.4	1.07	PR 112		None	PR 52-136
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	Endosulfan I	0.221	µg/L	=	0.005	0.01	0.3	PR 73.7	RPD 5.1	None	PR 50-131 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	Endosulfan I	0.21	µg/L	=	0.005	0.01	0.3	PR 70.0		None	PR 50-131
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	Endosulfan II	0.184	µg/L	=	0.004	0.01	0.3	PR 61.3	RPD 5.6	None	PR 55-128 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	Endosulfan II	0.174	µg/L	=	0.004	0.01	0.3	PR 58.0		None	PR 55-128
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	Endrin	0.293	µg/L	=	0.007	0.01	0.3	PR 97.7	RPD 3.5	None	PR 24-143 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	Endrin	0.283	µg/L	=	0.007	0.01	0.3	PR 94.3		None	PR 24-143
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	HCH, alpha	0.317	µg/L	=	0.005	0.01	0.313	PR 101	RPD 2.9	None	PR 33-111 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	HCH, alpha	0.308	µg/L	=	0.005	0.01	0.313	PR 98.3		None	PR 33-111
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	HCH, beta	0.294	µg/L	=	0.008	0.01	0.3	PR 98.0	RPD 2.8	None	PR 49-119 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	HCH, beta	0.286	µg/L	=	0.008	0.01	0.3	PR 95.3		None	PR 49-119
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	HCH, delta	0.309	µg/L	=	0.005	0.01	0.3	PR 103		Matrix spike recovery not within control limits	PR 12-97
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	HCH, delta	0.325	µg/L	=	0.005	0.01	0.3	PR 108	RPD 5.0	Matrix spike recovery not within control limits	PR 12-97 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	HCH, gamma	0.32	µg/L	=	0.005	0.01	0.3	PR 107	RPD 1.9	None	PR 40-114 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	HCH, gamma	0.314	µg/L	=	0.005	0.01	0.3	PR 105		None	PR 40-114
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	Heptachlor	0.246	µg/L	=	0.008	0.01	0.3	PR 82.0		None	PR 24-124
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	Heptachlor	0.247	µg/L	=	0.008	0.01	0.3	PR 82.3	RPD 0.41	None	PR 24-124 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	Heptachlor epoxide	0.292	µg/L	=	0.007	0.01	0.3	PR 97.3	RPD 4.2	None	PR 58-109 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	Heptachlor epoxide	0.28	µg/L	=	0.007	0.01	0.3	PR 93.3		None	PR 58-109
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8321A	Linuron	1.04	µg/L	=	0.2	0.4	1.07	PR 97.2	RPD 12.0	None	PR 49-144 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8321A	Linuron	0.922	µg/L	=	0.2	0.4	1.07	PR 86.2		None	PR 49-144

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Malathion	3.1	µg/L	=	0.05	0.1	2.5	PR 124		None	PR 47-125
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Malathion	3.08	µg/L	=	0.05	0.1	2.5	PR 123	RPD 0.65	None	PR 47-125 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Methamidophos	0.265	µg/L	=	0.08	0.2	0.5	PR 53.0		None	PR 25-136
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Methamidophos	0.209	µg/L	=	0.08	0.2	0.5	PR 41.8	RPD 23.6	None	PR 25-136 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Methidathion	2.93	µg/L	=	0.04	0.1	2.5	PR 117	RPD 6.0	None	PR 50-150 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Methidathion	3.11	µg/L	=	0.04	0.1	2.5	PR 124		None	PR 50-150
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8321A	Methiocarb	0.905	µg/L	=	0.2	0.4	1.07	PR 84.6	RPD 0.89	None	PR 35-142 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8321A	Methiocarb	0.897	µg/L	=	0.2	0.4	1.07	PR 83.8		None	PR 35-142
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8321A	Methomyl	0.759	µg/L	=	0.05	0.07	1.07	PR 70.9	RPD 0.13	None	PR 23-152 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8321A	Methomyl	0.76	µg/L	=	0.05	0.07	1.07	PR 71.0		None	PR 23-152
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	Methoxychlor	0.194	µg/L	=	0.008	0.01	0.3	PR 64.7		None	PR 30-163
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	Methoxychlor	0.204	µg/L	=	0.008	0.01	0.3	PR 68.0	RPD 5.0	None	PR 30-163 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8321A	Oxamyl	0.599	µg/L	=	0.2	0.4	1.07	PR 56.0		None	PR 10-117
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8321A	Oxamyl	0.572	µg/L	=	0.2	0.4	1.07	PR 53.5	RPD 4.6	None	PR 10-117 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 549.2M	Paraquat dichloride	10.9	µg/L	=	0.21	0.5	12	PR 90.8		None	PR 50-141
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 549.2M	Paraquat dichloride	10.9	µg/L	=	0.21	0.5	12	PR 90.8	RPD 0	None	PR 50-141 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Parathion, Methyl	3.02	µg/L	=	0.075	0.1	2.5	PR 121	RPD 1.3	None	PR 55-164 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Parathion, Methyl	3.06	µg/L	=	0.075	0.1	2.5	PR 122		None	PR 55-164
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Phorate	3.03	µg/L	=	0.07	0.1	2.5	PR 121		Matrix spike recovery not within control limits	PR 44-117
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Phorate	3.05	µg/L	=	0.07	0.1	2.5	PR 122	RPD 0.66	Matrix spike recovery not within control limits	PR 44-117 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Phosmet	2.95	µg/L	=	0.06	0.2	2.5	PR 118		None	PR 50-150
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Phosmet	2.77	µg/L	=	0.06	0.2	2.5	PR 111	RPD 6.3	None	PR 50-150 RPD <25
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 619	Simazine	2.56	µg/L	=	0.08	0.5	2.5	PR 102	RPD 14.2	None	PR 21-179 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 619	Simazine	2.95	µg/L	=	0.08	0.5	2.5	PR 118		None	PR 21-179

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	80.7	%	=	NA	NA	100			None	PR 15-98
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	87	%	=	NA	NA	100			None	PR 15-98
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Tributylphosphate (Surrogate)	89	%	=	NA	NA	100			None	PR 60-150
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Tributylphosphate (Surrogate)	88.4	%	=	NA	NA	100			None	PR 60-150
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8321A	Tributylphosphate (Surrogate)	110	%	=	NA	NA	100			None	PR 36-140
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8321A	Tributylphosphate (Surrogate)	88	%	=	NA	NA	100			None	PR 36-140
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Tributylphosphate (Surrogate)	132	%	=	NA	NA	100			None	PR 60-150
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Tributylphosphate (Surrogate)	145	%	=	NA	NA	100			None	PR 60-150
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 619	Tributylphosphate (Surrogate)	119	%	=	NA	NA	100			None	PR 62-145
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 619	Tributylphosphate (Surrogate)	145	%	=	NA	NA	100			None	PR 62-145
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Trifluralin	2.82	µg/L	=	0.04	0.05	2.5	PR 113	RPD 0.35	None	PR 40-148 RPD <25
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Trifluralin	2.83	µg/L	=	0.04	0.05	2.5	PR 113		None	PR 40-148
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Triphenyl phosphate (Surrogate)	87.6	%	=	NA	NA	100			None	PR 56-129
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Triphenyl phosphate (Surrogate)	87	%	=	NA	NA	100			None	PR 56-129
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 8141A	Triphenyl phosphate (Surrogate)	123	%	=	NA	NA	100			None	PR 56-129
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 8141A	Triphenyl phosphate (Surrogate)	123	%	=	NA	NA	100			None	PR 56-129
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 619	Triphenyl phosphate (Surrogate)	123	%	=	NA	NA	100			None	PR 54-144
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 619	Triphenyl phosphate (Surrogate)	123	%	=	NA	NA	100			None	PR 54-144
Merced River @ Santa Fe	MS	2.00	12/15/09	14:40	EPA 8081A	Aldrin	0.403	µg/L	=	0.009	0.01	0.6	PR 67.2	RPD 26.7	RPD exceeds laboratory control limit.	PR 11-138 RPD <25
Merced River @ Santa Fe	MS	1.00	12/15/09	14:40	EPA 8081A	Aldrin	0.308	µg/L	=	0.009	0.01	0.6	PR 51.3		RPD exceeds laboratory control limit.	PR 11-138
Merced River @ Santa Fe	MS	2.00	12/15/09	14:40	EPA 8081A	Chlordane	0.9	µg/L	=	0.007	0.01	1.2	PR 75.0	RPD 8.1	None	PR 44-152 RPD <25
Merced River @ Santa Fe	MS	1.00	12/15/09	14:40	EPA 8081A	Chlordane	0.83	µg/L	=	0.007	0.01	1.2	PR 69.2		None	PR 44-152
Merced River @ Santa Fe	MS	1.00	12/15/09	14:40	EPA 8081A	Decachlorobiphenyl (Surrogate)	40.8	%	=	NA	NA	100			None	PR 16-146
Merced River @ Santa Fe	MS	2.00	12/15/09	14:40	EPA 8081A	Decachlorobiphenyl (Surrogate)	46	%	=	NA	NA	100			None	PR 16-146

Adminsitrative Record
Page 17031

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Merced River @ Santa Fe	MS	2.00	12/15/09	14:40	EPA 8081A	Endosulfan I	0.461	µg/L	=	0.005	0.01	0.6	PR 76.8	RPD 7.0	None	PR 50-131 RPD <25
Merced River @ Santa Fe	MS	1.00	12/15/09	14:40	EPA 8081A	Endosulfan I	0.43	µg/L	=	0.005	0.01	0.6	PR 71.7		None	PR 50-131
Merced River @ Santa Fe	MS	2.00	12/15/09	14:40	EPA 8081A	Endosulfan II	0.459	µg/L	=	0.004	0.01	0.6	PR 76.5	RPD 8.9	None	PR 55-128 RPD <25
Merced River @ Santa Fe	MS	1.00	12/15/09	14:40	EPA 8081A	Endosulfan II	0.42	µg/L	=	0.004	0.01	0.6	PR 70.0		None	PR 55-128
Merced River @ Santa Fe	MS	2.00	12/15/09	14:40	EPA 8081A	HCH, alpha	0.445	µg/L	=	0.005	0.01	0.6	PR 74.2	RPD 11.2	None	PR 33-111 RPD <25
Merced River @ Santa Fe	MS	1.00	12/15/09	14:40	EPA 8081A	HCH, alpha	0.398	µg/L	=	0.005	0.01	0.6	PR 66.3		None	PR 33-111
Merced River @ Santa Fe	MS	2.00	12/15/09	14:40	EPA 8081A	HCH, beta	0.472	µg/L	=	0.008	0.01	0.6	PR 78.7	RPD 5.4	None	PR 49-119 RPD <25
Merced River @ Santa Fe	MS	1.00	12/15/09	14:40	EPA 8081A	HCH, beta	0.447	µg/L	=	0.008	0.01	0.6	PR 74.5		None	PR 49-119
Merced River @ Santa Fe	MS	1.00	12/15/09	14:40	EPA 8081A	HCH, delta	0.432	µg/L	=	0.005	0.01	0.6	PR 72.0		None	PR 12-97
Merced River @ Santa Fe	MS	2.00	12/15/09	14:40	EPA 8081A	HCH, delta	0.466	µg/L	=	0.005	0.01	0.6	PR 77.7	RPD 7.6	None	PR 12-97 RPD <25
Merced River @ Santa Fe	MS	2.00	12/15/09	14:40	EPA 8081A	HCH, gamma	0.446	µg/L	=	0.005	0.01	0.6	PR 74.3	RPD 8.2	None	PR 40-114 RPD <25
Merced River @ Santa Fe	MS	1.00	12/15/09	14:40	EPA 8081A	HCH, gamma	0.411	µg/L	=	0.005	0.01	0.6	PR 68.5		None	PR 40-114
Merced River @ Santa Fe	MS	1.00	12/15/09	14:40	EPA 8081A	Heptachlor	0.334	µg/L	=	0.008	0.01	0.6	PR 55.7		None	PR 24-124
Merced River @ Santa Fe	MS	2.00	12/15/09	14:40	EPA 8081A	Heptachlor	0.413	µg/L	=	0.008	0.01	0.6	PR 68.8	RPD 21.2	None	PR 24-124 RPD <25
Merced River @ Santa Fe	MS	2.00	12/15/09	14:40	EPA 8081A	Heptachlor epoxide	0.449	µg/L	=	0.007	0.01	0.6	PR 74.8	RPD 7.4	None	PR 58-109 RPD <25
Merced River @ Santa Fe	MS	1.00	12/15/09	14:40	EPA 8081A	Heptachlor epoxide	0.417	µg/L	=	0.007	0.01	0.6	PR 69.5		None	PR 58-109
Merced River @ Santa Fe	MS	2.00	12/15/09	14:40	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	49	%	=	NA	NA	100			None	PR 15-98
Merced River @ Santa Fe	MS	1.00	12/15/09	14:40	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	40	%	=	NA	NA	100			None	PR 15-98
Merced River @ Santa Fe	MS	2.00	12/15/09	14:40	EPA 8081A	Toxaphene	1.48	µg/L	=	0.38	0.5	2	PR 74.0	RPD 0	None	PR 23-140 RPD <25
Merced River @ Santa Fe	MS	1.00	12/15/09	14:40	EPA 8081A	Toxaphene	1.48	µg/L	=	0.38	0.5	2	PR 74.0		None	PR 23-140
Mootz Drain @ Langworth Rd	MS	1.00	11/11/08	08:30	EPA 547M	Glyphosate	40.9	µg/L	=	4	5	50	PR 81.8		None	PR 72-131
Mootz Drain @ Langworth Rd	MS	2.00	11/11/08	08:30	EPA 547M	Glyphosate	40.49	µg/L	=	4	5	50	PR 81	RPD 0.99	None	PR 72-131 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8321A	Aldicarb	1.03	µg/L	=	0.2	0.4	1.07	PR 96.3	RPD 16.1	None	PR 31-133 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8321A	Aldicarb	1.21	µg/L	=	0.2	0.4	1.07	PR 113		None	PR 31-133

Adminsitrative Record
Page 17032

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	Aldrin	0.119	µg/L	=	0.009	0.01	0.3	PR 39.7	RPD 39.2	RPD exceeds laboratory control limit.	PR 11-138 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	Aldrin	0.177	µg/L	=	0.009	0.01	0.3	PR 59.0		RPD exceeds laboratory control limit.	PR 11-138
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 619	Atrazine	1.12	µg/L	=	0.07	0.5	2.5	PR 44.8	RPD 11.8	None	PR 39-156 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 619	Atrazine	1.26	µg/L	=	0.07	0.5	2.5	PR 50.4		None	PR 39-156
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Azinphos methyl	1.36	µg/L	=	0.02	0.1	2.5	PR 54.4	RPD 20.5	None	PR 36-189 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Azinphos methyl	1.67	µg/L	=	0.02	0.1	2.5	PR 66.8		None	PR 36-189
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8321A	Carbaryl	0.655	µg/L	=	0.05	0.07	1.07	PR 61.2		None	PR 44-133
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8321A	Carbaryl	0.516	µg/L	=	0.05	0.07	1.07	PR 48.2	RPD 23.7	None	PR 44-133 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8321A	Carbofuran	0.953	µg/L	=	0.05	0.07	1.07	PR 89.1	RPD 4.5	None	PR 36-165 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8321A	Carbofuran	0.911	µg/L	=	0.05	0.07	1.07	PR 85.1		None	PR 36-165
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	Chlordane	0.437	µg/L	=	0.007	0.01	0.6	PR 72.8		RPD exceeds laboratory control limit.	PR 44-152
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	Chlordane	0.316	µg/L	=	0.007	0.01	0.6	PR 52.7	RPD 32.1	RPD exceeds laboratory control limit.	PR 44-152 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Chlorpyrifos	3.98	µg/L	=	0.0026	0.015	2.5	PR 159		Matrix spike recovery not within control limits	PR 61-125
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Chlorpyrifos	3.38	µg/L	=	0.0026	0.015	2.5	PR 135	RPD 16.3	Matrix spike recovery not within control limits	PR 61-125 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 619	Cyanazine	2.25	µg/L	=	0.09	0.5	2.5	PR 90.0	RPD 11.7	None	PR 22-172 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 619	Cyanazine	2.53	µg/L	=	0.09	0.5	2.5	PR 101		None	PR 22-172
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	DDD (p,p')	0.241	µg/L	=	0.003	0.01	0.3	PR 80.3		None	PR 38-135
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	DDD (p,p')	0.194	µg/L	=	0.003	0.01	0.3	PR 64.7	RPD 21.6	None	PR 38-135 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	DDE (p,p')	0.152	µg/L	=	0.004	0.01	0.3	PR 50.7	RPD 37.0	RPD exceeds laboratory control limit.	PR 21-134 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	DDE (p,p')	0.221	µg/L	=	0.004	0.01	0.3	PR 73.7		RPD exceeds laboratory control limit.	PR 21-134
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	DDT (p,p')	0.148	µg/L	=	0.007	0.01	0.3	PR 49.3	RPD 54.9	RPD exceeds laboratory control limit.	PR 18-145 RPD <25

Adminsitrative Record
Page 17033

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	DDT (p,p')	0.26	µg/L	=	0.007	0.01	0.3	PR 86.7		RPD exceeds laboratory control limit.	PR 18-145
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	Decachlorobiphenyl (Surrogate)	69.7	%	=	NA	NA	100			None	PR 16-146
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	Decachlorobiphenyl (Surrogate)	63	%	=	NA	NA	100			None	PR 16-146
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Demeton-s	3.05	µg/L	=	0.01	0.1	2.5	PR 122		None	PR 40-125
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Demeton-s	2.55	µg/L	=	0.01	0.1	2.5	PR 102	RPD 17.9	None	PR 40-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Diazinon	2.18	µg/L	=	0.004	0.02	2.5	PR 87.2		None	PR 57-130
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Diazinon	2.34	µg/L	=	0.004	0.02	2.5	PR 93.6	RPD 7.1	None	PR 57-130 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Dichlorvos	2.17	µg/L	=	0.02	0.1	2.5	PR 86.8		None	PR 10-175
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Dichlorvos	2.31	µg/L	=	0.02	0.1	2.5	PR 92.4	RPD 6.3	None	PR 10-175 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	Dicofol	0.125	µg/L	=	0.01	0.1	0.2	PR 62.5	RPD 0.80	None	PR 40-135 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	Dicofol	0.126	µg/L	=	0.01	0.1	0.2	PR 63.0		None	PR 40-135
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	Dieldrin	0.243	µg/L	=	0.005	0.01	0.3	PR 81.0		RPD exceeds laboratory control limit.	PR 48-121
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	Dieldrin	0.187	µg/L	=	0.005	0.01	0.3	PR 62.3	RPD 26.0	RPD exceeds laboratory control limit.	PR 48-121 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Dimethoate	2.55	µg/L	=	0.08	0.1	2.5	PR 102	RPD 17.9	None	PR 68-202 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Dimethoate	3.05	µg/L	=	0.08	0.1	2.5	PR 122		None	PR 68-202
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Disulfoton	1.69	µg/L	=	0.02	0.05	2.5	PR 67.6		None	PR 47-117
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Disulfoton	1.48	µg/L	=	0.02	0.05	2.5	PR 59.2	RPD 13.2	None	PR 47-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8321A	Diuron	2.23	µg/L	=	0.2	0.4	3.17	PR 12.1		Matrix spike recovery not within control limits	PR 52-136
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8321A	Diuron	2.23	µg/L	=	0.2	0.4	3.17	PR 12.1	RPD 0	Matrix spike recovery not within control limits	PR 52-136 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	Endosulfan I	0.157	µg/L	=	0.005	0.01	0.3	PR 52.3	RPD 26.5	RPD exceeds laboratory control limit.	PR 50-131 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	Endosulfan I	0.205	µg/L	=	0.005	0.01	0.3	PR 68.3		RPD exceeds laboratory control limit.	PR 50-131

Adminsitrative Record
Page 17034

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	Endosulfan II	0.381	µg/L	=	0.004	0.01	0.3	PR 127		None	PR 55-128
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	Endosulfan II	0.327	µg/L	=	0.004	0.01	0.3	PR 109	RPD 15.3	None	PR 55-128 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	Endrin	0.298	µg/L	=	0.007	0.01	0.3	PR 99.3	RPD 16.9	None	PR 24-143 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	Endrin	0.353	µg/L	=	0.007	0.01	0.3	PR 118		None	PR 24-143
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 547M	Glyphosate	82.01	µg/L	=	4	5	76.13	PR 112	RPD 2.07	None	PR 72-131 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 547M	Glyphosate	83.73	µg/L	=	4	5	76.13	PR 115		None	PR 72-131
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	HCH, alpha	0.278	µg/L	=	0.005	0.01	0.3	PR 92.7		None	PR 33-111
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	HCH, alpha	0.264	µg/L	=	0.005	0.01	0.3	PR 88.0	RPD 5.2	None	PR 33-111 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	HCH, beta	0.218	µg/L	=	0.008	0.01	0.3	PR 72.7	RPD 5.4	None	PR 49-119 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	HCH, beta	0.23	µg/L	=	0.008	0.01	0.3	PR 76.7		None	PR 49-119
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	HCH, delta	0.259	µg/L	=	0.005	0.01	0.3	PR 86.3	RPD 7.1	None	PR 12-97 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	HCH, delta	0.278	µg/L	=	0.005	0.01	0.3	PR 92.7		None	PR 12-97
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	HCH, gamma	0.253	µg/L	=	0.005	0.01	0.3	PR 84.3		None	PR 40-114
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	HCH, gamma	0.239	µg/L	=	0.005	0.01	0.3	PR 79.7	RPD 5.7	None	PR 40-114 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	Heptachlor	0.13	µg/L	=	0.008	0.01	0.3	PR 43.3	RPD 36.0	RPD exceeds laboratory control limit.	PR 24-124 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	Heptachlor	0.187	µg/L	=	0.008	0.01	0.3	PR 62.3		RPD exceeds laboratory control limit.	PR 24-124
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	Heptachlor epoxide	0.179	µg/L	=	0.007	0.01	0.3	PR 59.7	RPD 23.6	None	PR 58-109 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	Heptachlor epoxide	0.227	µg/L	=	0.007	0.01	0.3	PR 75.7		None	PR 58-109
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8321A	Linuron	0.974	µg/L	=	0.2	0.4	1.07	PR 91.0		None	PR 49-144
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8321A	Linuron	0.876	µg/L	=	0.2	0.4	1.07	PR 81.9	RPD 10.6	None	PR 49-144 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Malathion	2.75	µg/L	=	0.05	0.1	2.5	PR 110		RPD exceeds laboratory control limit.	PR 47-125
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Malathion	2.11	µg/L	=	0.05	0.1	2.5	PR 84.4	RPD 26.3	RPD exceeds laboratory control limit.	PR 47-125 RPD <25

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Methamidophos	0.496	µg/L	=	0.08	0.2	0.5	PR 99.2	RPD 39.3	RPD exceeds laboratory control limit.	PR 25-136 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Methamidophos	0.333	µg/L	=	0.08	0.2	0.5	PR 66.6		RPD exceeds laboratory control limit.	PR 25-136
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Methidathion	1.79	µg/L	=	0.04	0.1	2.5	PR 71.6	RPD 20.1	None	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Methidathion	2.19	µg/L	=	0.04	0.1	2.5	PR 87.6		None	PR 50-150
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8321A	Methiocarb	0.952	µg/L	=	0.2	0.4	1.07	PR 89.0		None	PR 35-142
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8321A	Methiocarb	1.17	µg/L	=	0.2	0.4	1.07	PR 109	RPD 20.5	None	PR 35-142 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8321A	Methomyl	0.715	µg/L	=	0.05	0.07	1.07	PR 66.8	RPD 4.1	None	PR 23-152 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8321A	Methomyl	0.686	µg/L	=	0.05	0.07	1.07	PR 64.1		None	PR 23-152
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	Methoxychlor	0.269	µg/L	=	0.008	0.01	0.3	PR 89.7		RPD exceeds laboratory control limit.	PR 30-163
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	Methoxychlor	0.176	µg/L	=	0.008	0.01	0.3	PR 58.7	RPD 41.8	RPD exceeds laboratory control limit.	PR 30-163 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8321A	Oxamyl	0.747	µg/L	=	0.2	0.4	1.07	PR 69.8	RPD 2.4	None	PR 10-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8321A	Oxamyl	0.765	µg/L	=	0.2	0.4	1.07	PR 71.5		None	PR 10-117
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 549.2M	Paraquat dichloride	12	µg/L	=	0.21	0.5	12	PR 100	RPD 7.2	None	PR 50-141 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 549.2M	Paraquat dichloride	12.9	µg/L	=	0.21	0.5	12	PR 108		None	PR 50-141
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Parathion, Methyl	1.84	µg/L	=	0.075	0.1	2.5	PR 73.6	RPD 19.6	None	PR 55-164 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Parathion, Methyl	2.24	µg/L	=	0.075	0.1	2.5	PR 89.6		None	PR 55-164
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Phorate	1.39	µg/L	=	0.07	0.1	2.5	PR 55.6	RPD 17.7	None	PR 44-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Phorate	1.66	µg/L	=	0.07	0.1	2.5	PR 66.4		None	PR 44-117
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Phosmet	0.071	µg/L	=	0.06	0.2	2.5	PR 2.8		Matrix spike recovery not within control limits; RPD exceeds laboratory control limit.	PR 50-150
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Phosmet	0.054	µg/L	ND	0.06	0.2	2.5	PR 2.2	RPD 27.2	Matrix spike recovery not within control limits; RPD exceeds laboratory control limit.	PR 50-150 RPD <25

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 619	Simazine	3.27	µg/L	=	0.08	0.5	4.6	PR 46.8	RPD 4.8	None	PR 21-179 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 619	Simazine	3.43	µg/L	=	0.08	0.5	4.6	PR 53.2		None	PR 21-179
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	40.7	%	=	NA	NA	100			None	PR 15-98
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	42.7	%	=	NA	NA	100			None	PR 15-98
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8321A	Tributylphosphate (Surrogate)	85	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8321A	Tributylphosphate (Surrogate)	105	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Tributylphosphate (Surrogate)	97.6	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Tributylphosphate (Surrogate)	78.8	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 619	Tributylphosphate (Surrogate)	97.6	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 619	Tributylphosphate (Surrogate)	78.8	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Tributylphosphate (Surrogate)	89	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Tributylphosphate (Surrogate)	83.6	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Trifluralin	1.18	µg/L	=	0.04	0.05	2.5	PR 47.2	RPD 13.4	None	PR 40-148 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Trifluralin	1.35	µg/L	=	0.04	0.05	2.5	PR 54.0		None	PR 40-148
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Triphenyl phosphate (Surrogate)	96.4	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Triphenyl phosphate (Surrogate)	77.6	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 619	Triphenyl phosphate (Surrogate)	77.6	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 619	Triphenyl phosphate (Surrogate)	96.4	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 8141A	Triphenyl phosphate (Surrogate)	87.8	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 8141A	Triphenyl phosphate (Surrogate)	95.6	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8321A	Aldicarb	0.668	µg/L	=	0.2	0.4	1.07	PR 62.4	RPD 7.6	None	PR 31-133 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8321A	Aldicarb	0.721	µg/L	=	0.2	0.4	1.07	PR 67.4		None	PR 31-133
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	Aldrin	0.169	µg/L	=	0.009	0.01	0.3	PR 56.3	RPD 8.0	None	PR 11-138 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	Aldrin	0.156	µg/L	=	0.009	0.01	0.3	PR 52.0		None	PR 11-138
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 619	Atrazine	1.73	µg/L	=	0.07	0.5	2.5	PR 69.2		None	PR 39-156

Adminsitrative Record
Page 17037

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 619	Atrazine	1.72	µg/L	=	0.07	0.5	2.5	PR 68.8	RPD 0.58	None	PR 39-156 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Azinphos methyl	1.96	µg/L	=	0.02	0.1	2.5	PR 78.4		None	PR 36-189
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Azinphos methyl	1.97	µg/L	=	0.02	0.1	2.5	PR 78.8	RPD 0.51	None	PR 36-189 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8321A	Carbaryl	0.726	µg/L	=	0.05	0.07	1.07	PR 67.9		None	PR 44-133
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8321A	Carbaryl	0.807	µg/L	=	0.05	0.07	1.07	PR 75.4	RPD 10.6	None	PR 44-133 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8321A	Carbofuran	0.804	µg/L	=	0.05	0.07	1.07	PR 75.1	RPD 2.1	None	PR 36-165 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8321A	Carbofuran	0.821	µg/L	=	0.05	0.07	1.07	PR 76.7		None	PR 36-165
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	Chlordane	0.411	µg/L	=	0.007	0.01	0.6	PR 68.5	RPD 9.4	None	PR 44-152 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	Chlordane	0.374	µg/L	=	0.007	0.01	0.6	PR 62.3		None	PR 44-152
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Chlorpyrifos	3.51	µg/L	=	0.0026	0.015	5	PR 70.2		None	PR 61-125
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Chlorpyrifos	3.54	µg/L	=	0.0026	0.015	5	PR 70.8	RPD 0.85	None	PR 61-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 619	Cyanazine	1.58	µg/L	=	0.09	0.5	2.5	PR 63.2		None	PR 22-172
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 619	Cyanazine	1.64	µg/L	=	0.09	0.5	2.5	PR 65.6	RPD 3.7	None	PR 22-172 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	DDD (p,p')	0.212	µg/L	=	0.003	0.01	0.3	PR 70.7	RPD 7.3	None	PR 38-135 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	DDD (p,p')	0.197	µg/L	=	0.003	0.01	0.3	PR 65.7		None	PR 38-135
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	DDE (p,p')	0.185	µg/L	=	0.004	0.01	0.3	PR 61.7		None	PR 21-134
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	DDE (p,p')	0.193	µg/L	=	0.004	0.01	0.3	PR 64.3	RPD 4.2	None	PR 21-134 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	DDT (p,p')	0.213	µg/L	=	0.007	0.01	0.3	PR 71.0	RPD 7.8	None	PR 18-145 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	DDT (p,p')	0.197	µg/L	=	0.007	0.01	0.3	PR 65.7		None	PR 18-145
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	Decachlorobiphenyl (Surrogate)	41.3	%	=	NA	NA	100			None	PR 16-146
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	Decachlorobiphenyl (Surrogate)	45	%	=	NA	NA	100			None	PR 16-146
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Demeton-s	0.461	µg/L	=	0.01	0.1	0.75	PR 61.5	RPD 4.4	None	PR 40-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Demeton-s	0.441	µg/L	=	0.01	0.1	0.75	PR 58.8		None	PR 40-125
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Diazinon	1.74	µg/L	=	0.004	0.02	2.5	PR 69.6		None	PR 57-130
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Diazinon	1.74	µg/L	=	0.004	0.02	2.5	PR 69.6	RPD 0	None	PR 57-130 RPD <25

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Dichlorvos	1.57	µg/L	=	0.02	0.1	2.5	PR 62.8		None	PR 10-175
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Dichlorvos	1.66	µg/L	=	0.02	0.1	2.5	PR 66.4	RPD 5.6	None	PR 10-175 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	Dicofol	0.212	µg/L	=	0.01	0.1	0.2	PR 106	RPD 7.8	None	PR 40-135 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	Dicofol	0.196	µg/L	=	0.01	0.1	0.2	PR 98.0		None	PR 40-135
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	Dieldrin	0.202	µg/L	=	0.005	0.01	0.3	PR 67.3		None	PR 48-121
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	Dieldrin	0.229	µg/L	=	0.005	0.01	0.3	PR 76.3	RPD 12.5	None	PR 48-121 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Dimethoate	1.9	µg/L	=	0.08	0.1	2.5	PR 76.0		None	PR 68-202
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Dimethoate	2.01	µg/L	=	0.08	0.1	2.5	PR 80.4	RPD 5.6	None	PR 68-202 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Disulfoton	1.45	µg/L	=	0.02	0.05	2.5	PR 58.0	RPD 5.7	None	PR 47-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Disulfoton	1.37	µg/L	=	0.02	0.05	2.5	PR 54.8		None	PR 47-117
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8321A	Diuron	2.21	µg/L	=	0.2	0.4	1.93	PR 126		None	PR 52-136
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8321A	Diuron	2.26	µg/L	=	0.2	0.4	1.93	PR 131	RPD 2.2	None	PR 52-136 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	Endosulfan I	0.195	µg/L	=	0.005	0.01	0.3	PR 65.0		None	PR 50-131
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	Endosulfan I	0.226	µg/L	=	0.005	0.01	0.3	PR 75.3	RPD 14.7	None	PR 50-131 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	Endosulfan II	0.203	µg/L	=	0.004	0.01	0.3	PR 67.7		None	PR 55-128
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	Endosulfan II	0.241	µg/L	=	0.004	0.01	0.3	PR 80.3	RPD 17.1	None	PR 55-128 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	Endrin	0.266	µg/L	=	0.007	0.01	0.3	PR 88.7	RPD 16.3	None	PR 24-143 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	Endrin	0.226	µg/L	=	0.007	0.01	0.3	PR 75.3		None	PR 24-143
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 547M	Glyphosate	62.37	µg/L	=	4	5	60.49	PR 104	RPD 0.835	None	PR 72-131 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 547M	Glyphosate	61.85	µg/L	=	4	5	60.49	PR 103		None	PR 72-131
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	HCH, alpha	0.256	µg/L	=	0.005	0.01	0.3	PR 85.3	RPD 19.3	None	PR 33-111 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	HCH, alpha	0.211	µg/L	=	0.005	0.01	0.3	PR 70.3		None	PR 33-111
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	HCH, beta	0.244	µg/L	=	0.008	0.01	0.3	PR 81.3	RPD 14.5	None	PR 49-119 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	HCH, beta	0.211	µg/L	=	0.008	0.01	0.3	PR 70.3		None	PR 49-119
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	HCH, delta	0.252	µg/L	=	0.005	0.01	0.3	PR 84.0	RPD 14.0	None	PR 12-97 RPD <25

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	HCH, delta	0.219	µg/L	=	0.005	0.01	0.3	PR 73.0		None	PR 12-97
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	HCH, gamma	0.246	µg/L	=	0.005	0.01	0.3	PR 82.0	RPD 16.7	None	PR 40-114 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	HCH, gamma	0.208	µg/L	=	0.005	0.01	0.3	PR 69.3		None	PR 40-114
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	Heptachlor	0.171	µg/L	=	0.008	0.01	0.3	PR 57.0		None	PR 24-124
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	Heptachlor	0.193	µg/L	=	0.008	0.01	0.3	PR 64.3	RPD 12.1	None	PR 24-124 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	Heptachlor epoxide	0.227	µg/L	=	0.007	0.01	0.3	PR 75.7	RPD 11.7	None	PR 58-109 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	Heptachlor epoxide	0.202	µg/L	=	0.007	0.01	0.3	PR 67.3		None	PR 58-109
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8321A	Linuron	0.853	µg/L	=	0.2	0.4	1.07	PR 79.7		None	PR 49-144
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8321A	Linuron	0.773	µg/L	=	0.2	0.4	1.07	PR 72.2	RPD 9.8	None	PR 49-144 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Malathion	1.82	µg/L	=	0.05	0.1	2.5	PR 72.8		None	PR 47-125
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Malathion	1.82	µg/L	=	0.05	0.1	2.5	PR 72.8	RPD 0	None	PR 47-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Methamidophos	0.379	µg/L	=	0.08	0.2	0.5	PR 75.8		None	PR 25-136
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Methamidophos	0.33	µg/L	=	0.08	0.2	0.5	PR 66.0	RPD 13.8	None	PR 25-136 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Methidathion	1.79	µg/L	=	0.04	0.1	2.5	PR 71.6	RPD 7.5	None	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Methidathion	1.66	µg/L	=	0.04	0.1	2.5	PR 66.4		None	PR 50-150
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8321A	Methiocarb	0.61	µg/L	=	0.2	0.4	1.07	PR 57.0		None	PR 35-142
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8321A	Methiocarb	0.641	µg/L	=	0.2	0.4	1.07	PR 59.9	RPD 5.0	None	PR 35-142 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8321A	Methomyl	0.537	µg/L	=	0.05	0.07	1.07	PR 50.2	RPD 8.5	None	PR 23-152 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8321A	Methomyl	0.493	µg/L	=	0.05	0.07	1.07	PR 46.1		None	PR 23-152
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	Methoxychlor	0.235	µg/L	=	0.008	0.01	0.3	PR 78.3	RPD 10.3	None	PR 30-163 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	Methoxychlor	0.212	µg/L	=	0.008	0.01	0.3	PR 70.7		None	PR 30-163
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8321A	Oxamyl	0.632	µg/L	=	0.2	0.4	1.07	PR 59.1		None	PR 10-117
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8321A	Oxamyl	0.703	µg/L	=	0.2	0.4	1.07	PR 65.7	RPD 10.6	None	PR 10-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 549.2M	Paraquat dichloride	10	µg/L	=	0.21	0.5	12	PR 83.3		None	PR 50-141
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 549.2M	Paraquat dichloride	11.9	µg/L	=	0.21	0.5	12	PR 99.2	RPD 17.4	None	PR 50-141 RPD <25

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Parathion, Methyl	1.84	µg/L	=	0.075	0.1	2.5	PR 73.6	RPD 3.9	None	PR 55-164 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Parathion, Methyl	1.77	µg/L	=	0.075	0.1	2.5	PR 70.8		None	PR 55-164
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Phorate	1.65	µg/L	=	0.07	0.1	2.5	PR 66.0	RPD 5.0	None	PR 44-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Phorate	1.57	µg/L	=	0.07	0.1	2.5	PR 62.8		None	PR 44-117
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Phosmet	0.443	µg/L	=	0.06	0.2	2.5	PR 17.7	RPD 2.5	Matrix spike recovery not within control limits	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Phosmet	0.432	µg/L	=	0.06	0.2	2.5	PR 17.3		Matrix spike recovery not within control limits	PR 50-150
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 619	Simazine	4.78	µg/L	=	0.08	0.5	5.9	PR 55.2	RPD 4.3	None	PR 21-179 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 619	Simazine	4.99	µg/L	=	0.08	0.5	5.9	PR 63.6		None	PR 21-179
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	64.7	%	=	NA	NA	100			None	PR 15-98
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	55.3	%	=	NA	NA	100			None	PR 15-98
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8321A	Tributylphosphate (Surrogate)	80.5	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8321A	Tributylphosphate (Surrogate)	81.2	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Tributylphosphate (Surrogate)	73.6	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Tributylphosphate (Surrogate)	86.4	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 619	Tributylphosphate (Surrogate)	86.4	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 619	Tributylphosphate (Surrogate)	73.6	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Tributylphosphate (Surrogate)	83.2	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Tributylphosphate (Surrogate)	76.6	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Trifluralin	1.41	µg/L	=	0.04	0.05	2.5	PR 56.4		None	PR 40-148
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Trifluralin	1.5	µg/L	=	0.04	0.05	2.5	PR 60.0	RPD 6.2	None	PR 40-148 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Triphenyl phosphate (Surrogate)	68.8	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Triphenyl phosphate (Surrogate)	71.6	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 619	Triphenyl phosphate (Surrogate)	71.6	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 619	Triphenyl phosphate (Surrogate)	68.8	%	=	NA	NA	100			None	PR 54-144

Adminsitrative Record
Page 17041

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 8141A	Triphenyl phosphate (Surrogate)	105	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 8141A	Triphenyl phosphate (Surrogate)	93.6	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8321A	Aldicarb	0.959	µg/L	=	0.2	0.4	1.07	PR 89.6	RPD 5.0	None	PR 31-133 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8321A	Aldicarb	0.912	µg/L	=	0.2	0.4	1.07	PR 85.2		None	PR 31-133
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	Aldrin	0.43	µg/L	=	0.009	0.01	0.6	PR 71.7		None	PR 11-138
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	Aldrin	0.456	µg/L	=	0.009	0.01	0.6	PR 76.0	RPD 5.9	None	PR 11-138 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 619	Atrazine	4.34	µg/L	=	0.07	0.5	5	PR 86.8	RPD 2.3	None	PR 39-156 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 619	Atrazine	4.44	µg/L	=	0.07	0.5	5	PR 88.8		None	PR 39-156
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Azinphos methyl	4.62	µg/L	=	0.02	0.1	5	PR 92.4		None	PR 36-189
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Azinphos methyl	5.2	µg/L	=	0.02	0.1	5	PR 104	RPD 11.8	None	PR 36-189 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8321A	Carbaryl	0.924	µg/L	=	0.05	0.07	1.07	PR 86.4	RPD 16.0	None	PR 44-133 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8321A	Carbaryl	0.787	µg/L	=	0.05	0.07	1.07	PR 73.6		None	PR 44-133
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8321A	Carbofuran	0.901	µg/L	=	0.05	0.07	1.07	PR 84.2		None	PR 36-165
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8321A	Carbofuran	1.15	µg/L	=	0.05	0.07	1.07	PR 107	RPD 24.3	None	PR 36-165 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	Chlordane	0.54	µg/L	=	0.007	0.01	0.6	PR 90.0	RPD 2.2	None	PR 44-152 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	Chlordane	0.552	µg/L	=	0.007	0.01	0.6	PR 92.0		None	PR 44-152
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Chlorpyrifos	9.15	µg/L	=	0.0026	0.015	10	PR 91.5	RPD 6.8	None	PR 61-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Chlorpyrifos	8.55	µg/L	=	0.0026	0.015	10	PR 85.5		None	PR 61-125
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 619	Cyanazine	4.34	µg/L	=	0.09	0.5	5	PR 86.8	RPD 10.9	None	PR 22-172 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 619	Cyanazine	3.89	µg/L	=	0.09	0.5	5	PR 77.8		None	PR 22-172
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	DDD (p,p')	0.533	µg/L	=	0.003	0.01	0.6	PR 88.8		None	PR 38-135
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	DDD (p,p')	0.536	µg/L	=	0.003	0.01	0.6	PR 89.3	RPD 0.56	None	PR 38-135 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	DDE (p,p')	0.549	µg/L	=	0.004	0.01	0.6	PR 91.5		None	PR 21-134
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	DDE (p,p')	0.546	µg/L	=	0.004	0.01	0.6	PR 91.0	RPD 0.55	None	PR 21-134 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	DDT (p,p')	0.664	µg/L	=	0.007	0.01	0.6	PR 111		None	PR 18-145

Adminsitrative Record
Page 17042

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	DDT (p,p')	0.646	µg/L	=	0.007	0.01	0.6	PR 108	RPD 2.7	None	PR 18-145 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	81	%	=	NA	NA	100			None	PR 16-146
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	84.3	%	=	NA	NA	100			None	PR 16-146
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Demeton-s	1.48	µg/L	=	0.01	0.1	1.5	PR 98.7	RPD 7.7	None	PR 40-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Demeton-s	1.37	µg/L	=	0.01	0.1	1.5	PR 91.3		None	PR 40-125
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Diazinon	4.47	µg/L	=	0.004	0.02	5	PR 89.4	RPD 3.6	None	PR 57-130 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Diazinon	4.31	µg/L	=	0.004	0.02	5	PR 86.2		None	PR 57-130
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Dichlorvos	4.08	µg/L	=	0.02	0.1	5	PR 81.6	RPD 1.7	None	PR 10-175 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Dichlorvos	4.15	µg/L	=	0.02	0.1	5	PR 83.0		None	PR 10-175
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	Dicofol	0.39	µg/L	=	0.01	0.1	0.4	PR 97.5		None	PR 40-135
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	Dicofol	0.352	µg/L	=	0.01	0.1	0.4	PR 88.0	RPD 10.2	None	PR 40-135 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	Dieldrin	0.544	µg/L	=	0.005	0.01	0.6	PR 90.7		None	PR 48-121
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	Dieldrin	0.551	µg/L	=	0.005	0.01	0.6	PR 91.8	RPD 1.3	None	PR 48-121 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Dimethoate	4.8	µg/L	=	0.08	0.1	5	PR 96.0	RPD 3.0	None	PR 68-202 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Dimethoate	4.66	µg/L	=	0.08	0.1	5	PR 93.2		None	PR 68-202
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Disulfoton	4.2	µg/L	=	0.02	0.05	5	PR 84.0		None	PR 47-117
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Disulfoton	4.42	µg/L	=	0.02	0.05	5	PR 88.4	RPD 5.1	None	PR 47-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8321A	Diuron	1.21	µg/L	=	0.2	0.4	1.07	PR 113		None	PR 52-136
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8321A	Diuron	1.38	µg/L	=	0.2	0.4	1.07	PR 129	RPD 13.1	None	PR 52-136 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	Endosulfan I	0.562	µg/L	=	0.005	0.01	0.6	PR 93.7	RPD 0.18	None	PR 50-131 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	Endosulfan I	0.563	µg/L	=	0.005	0.01	0.6	PR 93.8		None	PR 50-131
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	Endosulfan II	0.565	µg/L	=	0.004	0.01	0.6	PR 94.2		None	PR 55-128
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	Endosulfan II	0.553	µg/L	=	0.004	0.01	0.6	PR 92.2	RPD 2.1	None	PR 55-128 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	Endrin	0.574	µg/L	=	0.007	0.01	0.6	PR 95.7		None	PR 24-143
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	Endrin	0.575	µg/L	=	0.007	0.01	0.6	PR 95.8	RPD 0.17	None	PR 24-143 RPD <25

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 547M	Glyphosate	46.85	µg/L	=	4	5	50	PR 93.7		None	PR 72-131
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 547M	Glyphosate	46.51	µg/L	=	4	5	50	PR 93	RPD 0.71	None	PR 72-131 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	HCH, alpha	0.556	µg/L	=	0.005	0.01	0.6	PR 92.7		None	PR 33-111
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	HCH, alpha	0.56	µg/L	=	0.005	0.01	0.6	PR 93.3	RPD 0.72	None	PR 33-111 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	HCH, beta	0.604	µg/L	=	0.008	0.01	0.6	PR 101	RPD 0.17	None	PR 49-119 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	HCH, beta	0.605	µg/L	=	0.008	0.01	0.6	PR 101		None	PR 49-119
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	HCH, delta	0.449	µg/L	=	0.005	0.01	0.6	PR 74.8	RPD 0.45	None	PR 12-97 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	HCH, delta	0.447	µg/L	=	0.005	0.01	0.6	PR 74.5		None	PR 12-97
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	HCH, gamma	0.585	µg/L	=	0.005	0.01	0.6	PR 97.5		None	PR 40-114
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	HCH, gamma	0.588	µg/L	=	0.005	0.01	0.6	PR 98.0	RPD 0.51	None	PR 40-114 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	Heptachlor	0.501	µg/L	=	0.008	0.01	0.6	PR 83.5	RPD 6.0	None	PR 24-124 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	Heptachlor	0.472	µg/L	=	0.008	0.01	0.6	PR 78.7		None	PR 24-124
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	Heptachlor epoxide	0.564	µg/L	=	0.007	0.01	0.6	PR 94.0	RPD 2.1	None	PR 58-109 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	Heptachlor epoxide	0.576	µg/L	=	0.007	0.01	0.6	PR 96.0		None	PR 58-109
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8321A	Linuron	1.09	µg/L	=	0.2	0.4	1.07	PR 102	RPD 3.7	None	PR 49-144 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8321A	Linuron	1.05	µg/L	=	0.2	0.4	1.07	PR 98.1		None	PR 49-144
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Malathion	4.5	µg/L	=	0.05	0.1	5	PR 90.0		None	PR 47-125
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Malathion	4.76	µg/L	=	0.05	0.1	5	PR 95.2	RPD 5.6	None	PR 47-125 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Methamidophos	0.342	µg/L	=	0.08	0.2	0.5	PR 68.4	RPD 0	Surrogate recovery is outside of control limits.	PR 25-136 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Methamidophos	0.342	µg/L	=	0.08	0.2	0.5	PR 68.4		Surrogate recovery is outside of control limits.	PR 25-136
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Methidathion	4.39	µg/L	=	0.04	0.1	5	PR 87.8		None	PR 50-150
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Methidathion	4.64	µg/L	=	0.04	0.1	5	PR 92.8	RPD 5.5	None	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8321A	Methiocarb	0.448	µg/L	=	0.2	0.4	1.07	PR 41.9	RPD 5.9	None	PR 35-142 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8321A	Methiocarb	0.475	µg/L	=	0.2	0.4	1.07	PR 44.4		None	PR 35-142

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Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8321A	Methomyl	0.878	µg/L	=	0.05	0.07	1.07	PR 82.1	RPD 7.4	None	PR 23-152 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8321A	Methomyl	0.815	µg/L	=	0.05	0.07	1.07	PR 76.2		None	PR 23-152
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	Methoxychlor	0.712	µg/L	=	0.008	0.01	0.6	PR 119		None	PR 30-163
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	Methoxychlor	0.71	µg/L	=	0.008	0.01	0.6	PR 118	RPD 0.28	None	PR 30-163 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8321A	Oxamyl	0.619	µg/L	=	0.2	0.4	1.07	PR 57.9		None	PR 10-117
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8321A	Oxamyl	0.661	µg/L	=	0.2	0.4	1.07	PR 61.8	RPD 6.6	None	PR 10-117 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 549.2M	Paraquat dichloride	11.4	µg/L	=	0.21	0.5	12	PR 95.0	RPD 1.7	None	PR 50-141 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 549.2M	Paraquat dichloride	11.6	µg/L	=	0.21	0.5	12	PR 96.7		None	PR 50-141
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Parathion, Methyl	4.32	µg/L	=	0.075	0.1	5	PR 86.4		None	PR 55-164
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Parathion, Methyl	4.68	µg/L	=	0.075	0.1	5	PR 93.6	RPD 8.0	None	PR 55-164 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Phorate	4.47	µg/L	=	0.07	0.1	5	PR 89.4		None	PR 44-117
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Phorate	4.75	µg/L	=	0.07	0.1	5	PR 95.0	RPD 6.1	None	PR 44-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Phosmet	2.94	µg/L	=	0.06	0.2	5	PR 58.8		None	PR 50-150
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Phosmet	3.42	µg/L	=	0.06	0.2	5	PR 68.4	RPD 15.1	None	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 619	Simazine	3.98	µg/L	=	0.08	0.5	5	PR 75.2		None	PR 21-179
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 619	Simazine	3.79	µg/L	=	0.08	0.5	5	PR 71.4	RPD 4.9	None	PR 21-179 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	73.7	%	=	NA	NA	100			None	PR 15-98
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	74.3	%	=	NA	NA	100			None	PR 15-98
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8081A	Toxaphene	1.73	µg/L	=	0.38	0.5	2	PR 86.5		None	PR 23-140
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8081A	Toxaphene	1.73	µg/L	=	0.38	0.5	2	PR 86.5	RPD 0	None	PR 23-140 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	94.7	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	104	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	57.4	%	=	NA	NA	100			Surrogate recovery is outside of control limits.	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	50.6	%	=	NA	NA	100			Surrogate recovery is outside of control limits.	PR 60-150

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	86.6	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	93.8	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 619	Tributylphosphate (Surrogate)	93.8	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 619	Tributylphosphate (Surrogate)	86.6	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Trifluralin	4.38	µg/L	=	0.04	0.05	5	PR 87.6	RPD 6.6	None	PR 40-148 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Trifluralin	4.1	µg/L	=	0.04	0.05	5	PR 82.0		None	PR 40-148
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	62.4	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	74.4	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	87.8	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	95.8	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	87.8	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	95.8	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8321A	Aldicarb	0.986	µg/L	=	0.2	0.4	1.07	PR 92.1	RPD 9.0	None	PR 31-133 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8321A	Aldicarb	0.901	µg/L	=	0.2	0.4	1.07	PR 84.2		None	PR 31-133
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 619	Atrazine	1.62	µg/L	=	0.07	0.5	2.5	PR 64.8	RPD 0	None	PR 39-156 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 619	Atrazine	1.62	µg/L	=	0.07	0.5	2.5	PR 64.8		None	PR 39-156
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Azinphos methyl	1.96	µg/L	=	0.02	0.1	2.5	PR 78.4	RPD 0.51	None	PR 36-189 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Azinphos methyl	1.95	µg/L	=	0.02	0.1	2.5	PR 78.0		None	PR 36-189
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8321A	Carbaryl	1	µg/L	=	0.05	0.07	1.07	PR 93.5		None	PR 44-133
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8321A	Carbaryl	0.971	µg/L	=	0.05	0.07	1.07	PR 90.7	RPD 2.9	None	PR 44-133 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8321A	Carbofuran	0.861	µg/L	=	0.05	0.07	1.07	PR 80.5		None	PR 36-165
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8321A	Carbofuran	1.07	µg/L	=	0.05	0.07	1.07	PR 100	RPD 21.6	None	PR 36-165 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Chlorpyrifos	3.44	µg/L	=	0.0026	0.015	5	PR 68.8		None	PR 61-125
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Chlorpyrifos	3.27	µg/L	=	0.0026	0.015	5	PR 65.4	RPD 5.1	None	PR 61-125 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 619	Cyanazine	1.54	µg/L	=	0.09	0.5	2.5	PR 61.6	RPD 0	None	PR 22-172 RPD <25

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Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 619	Cyanazine	1.54	µg/L	=	0.09	0.5	2.5	PR 61.6		None	PR 22-172
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Demeton-s	0.471	µg/L	=	0.01	0.1	0.75	PR 62.8		RPD exceeds laboratory control limit.	PR 40-125
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Demeton-s	0.284	µg/L	=	0.01	0.1	0.75	PR 37.9	RPD 49.5	Matrix spike recovery not within control limits; RPD exceeds laboratory control limit.	PR 40-125 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Diazinon	1.78	µg/L	=	0.004	0.02	2.5	PR 71.2	RPD 3.9	None	PR 57-130 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Diazinon	1.85	µg/L	=	0.004	0.02	2.5	PR 74.0		None	PR 57-130
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Dichlorvos	1.45	µg/L	=	0.02	0.1	2.5	PR 58.0		None	PR 10-175
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Dichlorvos	1.28	µg/L	=	0.02	0.1	2.5	PR 51.2	RPD 12.5	None	PR 10-175 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Dimethoate	1.81	µg/L	=	0.08	0.1	2.5	PR 72.4	RPD 1.6	None	PR 68-202 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Dimethoate	1.84	µg/L	=	0.08	0.1	2.5	PR 73.6		None	PR 68-202
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Disulfoton	1.04	µg/L	=	0.02	0.05	2.5	PR 41.6	RPD 45.9	Matrix spike recovery not within control limits; RPD exceeds laboratory control limit.	PR 47-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Disulfoton	1.66	µg/L	=	0.02	0.05	2.5	PR 66.4		RPD exceeds laboratory control limit.	PR 47-117
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8321A	Diuron	0.965	µg/L	=	0.2	0.4	1.07	PR 90.2		None	PR 52-136
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8321A	Diuron	0.816	µg/L	=	0.2	0.4	1.07	PR 76.3	RPD 16.7	None	PR 52-136 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8321A	Linuron	0.852	µg/L	=	0.2	0.4	1.07	PR 79.6		None	PR 49-144
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8321A	Linuron	0.949	µg/L	=	0.2	0.4	1.07	PR 88.7	RPD 10.8	None	PR 49-144 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Malathion	2.42	µg/L	=	0.05	0.1	2.5	PR 96.8	RPD 2.9	None	PR 47-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Malathion	2.49	µg/L	=	0.05	0.1	2.5	PR 99.6		None	PR 47-125
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Methamidophos	0.414	µg/L	=	0.08	0.2	0.5	PR 82.8		None	PR 25-136
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Methamidophos	0.415	µg/L	=	0.08	0.2	0.5	PR 83.0	RPD 0.24	None	PR 25-136 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Methidathion	2.01	µg/L	=	0.04	0.1	2.5	PR 80.4	RPD 2.9	None	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Methidathion	2.07	µg/L	=	0.04	0.1	2.5	PR 82.8		None	PR 50-150

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8321A	Methiocarb	0.822	µg/L	=	0.2	0.4	1.07	PR 76.8		None	PR 35-142
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8321A	Methiocarb	0.887	µg/L	=	0.2	0.4	1.07	PR 82.9	RPD 7.6	None	PR 35-142 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8321A	Methomyl	0.797	µg/L	=	0.05	0.07	1.07	PR 74.5		None	PR 23-152
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8321A	Methomyl	0.913	µg/L	=	0.05	0.07	1.07	PR 85.3	RPD 13.6	None	PR 23-152 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8321A	Oxamyl	0.635	µg/L	=	0.2	0.4	1.07	PR 59.3	RPD 8.4	None	PR 10-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8321A	Oxamyl	0.584	µg/L	=	0.2	0.4	1.07	PR 54.6		None	PR 10-117
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Parathion, Methyl	1.77	µg/L	=	0.075	0.1	2.5	PR 70.8	RPD 4.4	None	PR 55-164 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Parathion, Methyl	1.85	µg/L	=	0.075	0.1	2.5	PR 74.0		None	PR 55-164
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Phorate	1.63	µg/L	=	0.07	0.1	2.5	PR 65.2	RPD 13.2	None	PR 44-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Phorate	1.86	µg/L	=	0.07	0.1	2.5	PR 74.4		None	PR 44-117
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Phosmet	1.43	µg/L	=	0.06	0.2	2.5	PR 57.2		None	PR 50-150
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Phosmet	1.44	µg/L	=	0.06	0.2	2.5	PR 57.6	RPD 0.70	None	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 619	Simazine	1.63	µg/L	=	0.08	0.5	2.5	PR 65.2	RPD 0.61	None	PR 21-179 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 619	Simazine	1.64	µg/L	=	0.08	0.5	2.5	PR 65.6		None	PR 21-179
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	108	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	91.7	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	96.6	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	77	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	72.4	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	72.8	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 619	Tributylphosphate (Surrogate)	72.8	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 619	Tributylphosphate (Surrogate)	72.4	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Trifluralin	1.6	µg/L	=	0.04	0.05	2.5	PR 64.0		None	PR 40-148
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Trifluralin	1.52	µg/L	=	0.04	0.05	2.5	PR 60.8	RPD 5.1	None	PR 40-148 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	89	%	=	NA	NA	100			None	PR 56-129

Adminsitrative Record
Page 17048

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	114	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	69.2	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	67.6	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	67.6	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	69.2	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8321A	Aldicarb	1.1	µg/L	=	0.2	0.4	1.07	PR 103		None	PR 31-133
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8321A	Aldicarb	0.892	µg/L	=	0.2	0.4	1.07	PR 83.4	RPD 20.9	None	PR 31-133 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 619	Atrazine	3.48	µg/L	=	0.07	0.5	5	PR 69.6	RPD 10.6	None	PR 39-156 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 619	Atrazine	3.87	µg/L	=	0.07	0.5	5	PR 77.4		None	PR 39-156
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Azinphos methyl	3.16	µg/L	=	0.02	0.1	5	PR 63.2	RPD 6.1	None	PR 36-189 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Azinphos methyl	3.36	µg/L	=	0.02	0.1	5	PR 67.2		None	PR 36-189
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8321A	Carbaryl	0.944	µg/L	=	0.05	0.07	1.07	PR 88.2	RPD 14.2	None	PR 44-133 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8321A	Carbaryl	0.819	µg/L	=	0.05	0.07	1.07	PR 76.5		None	PR 44-133
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8321A	Carbofuran	1.15	µg/L	=	0.05	0.07	1.07	PR 107		None	PR 36-165
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8321A	Carbofuran	1.08	µg/L	=	0.05	0.07	1.07	PR 101	RPD 6.3	None	PR 36-165 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Chlorpyrifos	7.5	µg/L	=	0.0026	0.015	10	PR 75.0		None	PR 61-125
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Chlorpyrifos	6.92	µg/L	=	0.0026	0.015	10	PR 69.2	RPD 8.0	None	PR 61-125 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 619	Cyanazine	3.32	µg/L	=	0.09	0.5	5	PR 66.4	RPD 3.0	None	PR 22-172 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 619	Cyanazine	3.42	µg/L	=	0.09	0.5	5	PR 68.4		None	PR 22-172
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Demeton-s	1.13	µg/L	=	0.01	0.1	1.5	PR 75.3		None	PR 40-125
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Demeton-s	1.02	µg/L	=	0.01	0.1	1.5	PR 68.0	RPD 10.2	None	PR 40-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Diazinon	3.8	µg/L	=	0.004	0.02	5	PR 76.0		None	PR 57-130
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Diazinon	3.33	µg/L	=	0.004	0.02	5	PR 66.6	RPD 13.2	None	PR 57-130 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Dichlorvos	2.18	µg/L	=	0.02	0.1	5	PR 43.6	RPD 47.0	RPD exceeds laboratory control limit.	PR 10-175 RPD <25

Adminsitrative Record
Page 17049

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Dichlorvos	3.52	µg/L	=	0.02	0.1	5	PR 70.4		RPD exceeds laboratory control limit.	PR 10-175
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Dimethoate	3.74	µg/L	=	0.08	0.1	5	PR 74.8	RPD 8.7	None	PR 68-202 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Dimethoate	4.08	µg/L	=	0.08	0.1	5	PR 81.6		None	PR 68-202
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Disulfoton	3.15	µg/L	=	0.02	0.05	5	PR 63.0	RPD 11.7	None	PR 47-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Disulfoton	3.54	µg/L	=	0.02	0.05	5	PR 70.8		None	PR 47-117
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8321A	Diuron	0.978	µg/L	=	0.2	0.4	1.07	PR 91.4		None	PR 52-136
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8321A	Diuron	1.08	µg/L	=	0.2	0.4	1.07	PR 101	RPD 9.9	None	PR 52-136 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8321A	Linuron	0.994	µg/L	=	0.2	0.4	1.07	PR 92.9	RPD 0.50	None	PR 49-144 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8321A	Linuron	0.989	µg/L	=	0.2	0.4	1.07	PR 92.4		None	PR 49-144
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Malathion	3.89	µg/L	=	0.05	0.1	5	PR 77.8		None	PR 47-125
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Malathion	3.56	µg/L	=	0.05	0.1	5	PR 71.2	RPD 8.9	None	PR 47-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Methamidophos	0.997	µg/L	=	0.08	0.2	2	PR 49.9		None	PR 25-136
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Methamidophos	0.981	µg/L	=	0.08	0.2	2	PR 49.0	RPD 1.6	None	PR 25-136 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Methidathion	3.53	µg/L	=	0.04	0.1	5	PR 70.6	RPD 10.5	None	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Methidathion	3.92	µg/L	=	0.04	0.1	5	PR 78.4		None	PR 50-150
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8321A	Methiocarb	0.883	µg/L	=	0.2	0.4	1.07	PR 82.5		None	PR 35-142
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8321A	Methiocarb	0.869	µg/L	=	0.2	0.4	1.07	PR 81.2	RPD 1.6	None	PR 35-142 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8321A	Methomyl	0.74	µg/L	=	0.05	0.07	1.07	PR 69.2		None	PR 23-152
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8321A	Methomyl	0.752	µg/L	=	0.05	0.07	1.07	PR 70.3	RPD 1.6	None	PR 23-152 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8321A	Oxamyl	0.78	µg/L	=	0.2	0.4	1.07	PR 72.9	RPD 7.8	None	PR 10-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8321A	Oxamyl	0.843	µg/L	=	0.2	0.4	1.07	PR 78.8		None	PR 10-117
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Parathion, Methyl	3.82	µg/L	=	0.075	0.1	5	PR 76.4		None	PR 55-164
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Parathion, Methyl	3.49	µg/L	=	0.075	0.1	5	PR 69.8	RPD 9.0	None	PR 55-164 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Phorate	3.1	µg/L	=	0.07	0.1	5	PR 62.0	RPD 16.0	None	PR 44-117 RPD <25

Adminsitrative Record
Page 17050

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Phorate	3.64	µg/L	=	0.07	0.1	5	PR 72.8		None	PR 44-117
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Phosmet	3.68	µg/L	=	0.06	0.2	5	PR 73.6	RPD 11.0	None	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Phosmet	4.11	µg/L	=	0.06	0.2	5	PR 82.2		None	PR 50-150
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 619	Simazine	3.8	µg/L	=	0.08	0.5	5	PR 76.0		None	PR 21-179
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 619	Simazine	3.5	µg/L	=	0.08	0.5	5	PR 70.0	RPD 8.2	None	PR 21-179 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Tributylphosphate (Surrogate)	76.8	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Tributylphosphate (Surrogate)	67.4	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 619	Tributylphosphate (Surrogate)	67.4	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 619	Tributylphosphate (Surrogate)	76.8	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8321A	Tributylphosphate (Surrogate)	104	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8321A	Tributylphosphate (Surrogate)	97	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Tributylphosphate (Surrogate)	70	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Tributylphosphate (Surrogate)	87.5	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Trifluralin	3.14	µg/L	=	0.04	0.05	5	PR 62.8	RPD 13.9	None	PR 40-148 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Trifluralin	3.61	µg/L	=	0.04	0.05	5	PR 72.2		None	PR 40-148
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Triphenyl phosphate (Surrogate)	67.6	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Triphenyl phosphate (Surrogate)	75.2	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 619	Triphenyl phosphate (Surrogate)	75.2	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 619	Triphenyl phosphate (Surrogate)	67.6	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 8141A	Triphenyl phosphate (Surrogate)	83	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 8141A	Triphenyl phosphate (Surrogate)	70.5	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8321A	Aldicarb	0.748	µg/L	=	0.2	0.4	1.07	PR 69.9		None	PR 31-133
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8321A	Aldicarb	0.815	µg/L	=	0.2	0.4	1.07	PR 76.2	RPD 8.6	None	PR 31-133 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 619	Atrazine	2.08	µg/L	=	0.07	0.5	2.5	PR 83.2		None	PR 39-156
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 619	Atrazine	2.13	µg/L	=	0.07	0.5	2.5	PR 85.2	RPD 2.4	None	PR 39-156 RPD <25

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Azinphos methyl	2.53	µg/L	=	0.02	0.1	2.5	PR 101	RPD 0.40	None	PR 36-189 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Azinphos methyl	2.52	µg/L	=	0.02	0.1	2.5	PR 101		None	PR 36-189
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8321A	Carbaryl	0.782	µg/L	=	0.05	0.07	1.07	PR 73.1	RPD 11.0	None	PR 44-133 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8321A	Carbaryl	0.873	µg/L	=	0.05	0.07	1.07	PR 81.6		None	PR 44-133
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8321A	Carbofuran	0.794	µg/L	=	0.05	0.07	1.07	PR 74.2		None	PR 36-165
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8321A	Carbofuran	0.985	µg/L	=	0.05	0.07	1.07	PR 92.1	RPD 21.5	None	PR 36-165 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Chlorpyrifos	3.89	µg/L	=	0.0026	0.015	5	PR 77.8		None	PR 61-125
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Chlorpyrifos	3.87	µg/L	=	0.0026	0.015	5	PR 77.4	RPD 0.52	None	PR 61-125 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 619	Cyanazine	1.98	µg/L	=	0.09	0.5	2.5	PR 79.2	RPD 17.6	None	PR 22-172 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 619	Cyanazine	1.66	µg/L	=	0.09	0.5	2.5	PR 66.4		None	PR 22-172
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Demeton-s	0.641	µg/L	=	0.01	0.1	0.75	PR 85.5		None	PR 40-125
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Demeton-s	0.629	µg/L	=	0.01	0.1	0.75	PR 83.9	RPD 1.9	None	PR 40-125 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Diazinon	2.17	µg/L	=	0.004	0.02	2.5	PR 86.8	RPD 0	None	PR 57-130 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Diazinon	2.17	µg/L	=	0.004	0.02	2.5	PR 86.8		None	PR 57-130
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Dichlorvos	1.84	µg/L	=	0.02	0.1	2.5	PR 73.6	RPD 0.54	None	PR 10-175 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Dichlorvos	1.85	µg/L	=	0.02	0.1	2.5	PR 74.0		None	PR 10-175
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Dimethoate	1.99	µg/L	=	0.08	0.1	2.5	PR 79.6		None	PR 68-202
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Dimethoate	2.23	µg/L	=	0.08	0.1	2.5	PR 89.2	RPD 11.4	None	PR 68-202 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Disulfoton	1.91	µg/L	=	0.02	0.05	2.5	PR 76.4		None	PR 47-117
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Disulfoton	1.86	µg/L	=	0.02	0.05	2.5	PR 74.4	RPD 2.7	None	PR 47-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8321A	Diuron	0.812	µg/L	=	0.2	0.4	1.07	PR 75.9		None	PR 52-136
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8321A	Diuron	0.948	µg/L	=	0.2	0.4	1.07	PR 88.6	RPD 15.5	None	PR 52-136 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8321A	Linuron	0.826	µg/L	=	0.2	0.4	1.07	PR 77.2	RPD 2.0	None	PR 49-144 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8321A	Linuron	0.81	µg/L	=	0.2	0.4	1.07	PR 75.7		None	PR 49-144
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Malathion	2.21	µg/L	=	0.05	0.1	2.5	PR 88.4	RPD 6.5	None	PR 47-125 RPD <25

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Malathion	2.07	µg/L	=	0.05	0.1	2.5	PR 82.8		None	PR 47-125
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Methamidophos	0.371	µg/L	=	0.08	0.2	0.5	PR 74.2		None	PR 25-136
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Methamidophos	0.37	µg/L	=	0.08	0.2	0.5	PR 74.0	RPD 0.27	None	PR 25-136 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Methidathion	2.26	µg/L	=	0.04	0.1	2.5	PR 90.4	RPD 1.8	None	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Methidathion	2.3	µg/L	=	0.04	0.1	2.5	PR 92.0		None	PR 50-150
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8321A	Methiocarb	0.847	µg/L	=	0.2	0.4	1.07	PR 79.2		None	PR 35-142
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8321A	Methiocarb	0.764	µg/L	=	0.2	0.4	1.07	PR 71.4	RPD 10.3	None	PR 35-142 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8321A	Methomyl	0.783	µg/L	=	0.05	0.07	1.07	PR 73.2		None	PR 23-152
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8321A	Methomyl	0.74	µg/L	=	0.05	0.07	1.07	PR 69.2	RPD 5.6	None	PR 23-152 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8321A	Oxamyl	0.562	µg/L	=	0.2	0.4	1.07	PR 52.5	RPD 15.1	None	PR 10-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8321A	Oxamyl	0.483	µg/L	=	0.2	0.4	1.07	PR 45.1		None	PR 10-117
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Parathion, Methyl	2.44	µg/L	=	0.075	0.1	2.5	PR 97.6	RPD 2.5	None	PR 55-164 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Parathion, Methyl	2.38	µg/L	=	0.075	0.1	2.5	PR 95.2		None	PR 55-164
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Phorate	2.03	µg/L	=	0.07	0.1	2.5	PR 81.2		None	PR 44-117
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Phorate	1.92	µg/L	=	0.07	0.1	2.5	PR 76.8	RPD 5.6	None	PR 44-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Phosmet	0.139	µg/L	=	0.06	0.2	0.25	PR 55.6		None	PR 50-150
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Phosmet	0.145	µg/L	=	0.06	0.2	0.25	PR 58.0	RPD 4.2	None	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 619	Simazine	2.48	µg/L	=	0.08	0.5	2.5	PR 99.2		None	PR 21-179
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 619	Simazine	2.58	µg/L	=	0.08	0.5	2.5	PR 103	RPD 4.0	None	PR 21-179 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	82	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	81.2	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	64.4	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	72.2	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	88.8	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	90	%	=	NA	NA	100			None	PR 60-150

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 619	Tributylphosphate (Surrogate)	88.8	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 619	Tributylphosphate (Surrogate)	90	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Trifluralin	1.89	µg/L	=	0.036	0.05	2.5	PR 75.6		None	PR 40-148
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Trifluralin	1.87	µg/L	=	0.036	0.05	2.5	PR 74.8	RPD 1.1	None	PR 40-148 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	69.8	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	79.6	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	85.6	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	80	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	85.6	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	80	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8321A	Aldicarb	0.862	µg/L	=	0.2	0.4	1.07	PR 80.6	RPD 4.4	None	PR 31-133 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8321A	Aldicarb	0.825	µg/L	=	0.2	0.4	1.07	PR 77.1		None	PR 31-133
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 619	Atrazine	1.98	µg/L	=	0.07	0.5	2.5	PR 79.2		None	PR 39-156
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 619	Atrazine	1.73	µg/L	=	0.07	0.5	2.5	PR 69.2	RPD 13.5	None	PR 39-156 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Azinphos methyl	1.99	µg/L	=	0.02	0.1	2.5	PR 79.6		None	PR 36-189
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Azinphos methyl	2.04	µg/L	=	0.02	0.1	2.5	PR 81.6	RPD 2.5	None	PR 36-189 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8321A	Carbaryl	0.825	µg/L	=	0.05	0.07	1.07	PR 77.1		None	PR 44-133
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8321A	Carbaryl	0.999	µg/L	=	0.05	0.07	1.07	PR 93.4	RPD 19.1	None	PR 44-133 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8321A	Carbofuran	1.07	µg/L	=	0.05	0.07	1.07	PR 100		None	PR 36-165
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8321A	Carbofuran	0.987	µg/L	=	0.05	0.07	1.07	PR 92.2	RPD 8.1	None	PR 36-165 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Chlorpyrifos	4.57	µg/L	=	0.0026	0.015	5	PR 91.4	RPD 0	None	PR 61-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Chlorpyrifos	4.57	µg/L	=	0.0026	0.015	5	PR 91.4		None	PR 61-125
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 619	Cyanazine	2.37	µg/L	=	0.09	0.5	2.5	PR 94.8	RPD 3.3	None	PR 22-172 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 619	Cyanazine	2.45	µg/L	=	0.09	0.5	2.5	PR 98.0		None	PR 22-172
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Demeton-s	2.26	µg/L	=	0.01	0.1	3.25	PR 69.5	RPD 0.44	None	PR 40-125 RPD <25

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Demeton-s	2.25	µg/L	=	0.01	0.1	3.25	PR 69.2		None	PR 40-125
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Diazinon	2.09	µg/L	=	0.004	0.02	2.5	PR 83.6	RPD 0.48	None	PR 57-130 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Diazinon	2.1	µg/L	=	0.004	0.02	2.5	PR 84.0		None	PR 57-130
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Dichlorvos	1.89	µg/L	=	0.02	0.1	2.5	PR 75.6		None	PR 10-175
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Dichlorvos	1.86	µg/L	=	0.02	0.1	2.5	PR 74.4	RPD 1.6	None	PR 10-175 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Dimethoate	2.25	µg/L	=	0.08	0.1	3.25	PR 69.2		None	PR 68-202
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Dimethoate	2.26	µg/L	=	0.08	0.1	3.25	PR 69.5	RPD 0.44	None	PR 68-202 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Disulfoton	0.935	µg/L	=	0.02	0.05	2.5	PR 37.4		Matrix spike recovery not within control limits; RPD exceeds laboratory control limit.	PR 47-117
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Disulfoton	0.721	µg/L	=	0.02	0.05	2.5	PR 28.8	RPD 25.8	Matrix spike recovery not within control limits; RPD exceeds laboratory control limit.	PR 47-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8321A	Diuron	0.962	µg/L	=	0.2	0.4	1.07	PR 89.9		None	PR 52-136
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8321A	Diuron	0.922	µg/L	=	0.2	0.4	1.07	PR 86.2	RPD 4.2	None	PR 52-136 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8321A	Linuron	0.975	µg/L	=	0.2	0.4	1.07	PR 91.1		None	PR 49-144
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8321A	Linuron	0.979	µg/L	=	0.2	0.4	1.07	PR 91.5	RPD 0.41	None	PR 49-144 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Malathion	2.4	µg/L	=	0.05	0.1	2.5	PR 96.0	RPD 5.1	None	PR 47-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Malathion	2.28	µg/L	=	0.05	0.1	2.5	PR 91.2		None	PR 47-125
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Methamidophos	0.291	µg/L	=	0.08	0.2	0.5	PR 58.2	RPD 1.7	None	PR 25-136 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Methamidophos	0.296	µg/L	=	0.08	0.2	0.5	PR 59.2		None	PR 25-136
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Methidathion	2.33	µg/L	=	0.04	0.1	2.5	PR 93.2		None	PR 50-150
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Methidathion	2.31	µg/L	=	0.04	0.1	2.5	PR 92.4	RPD 0.86	None	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8321A	Methiocarb	0.956	µg/L	=	0.2	0.4	1.07	PR 89.3		None	PR 35-142
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8321A	Methiocarb	0.975	µg/L	=	0.2	0.4	1.07	PR 91.1	RPD 2.0	None	PR 35-142 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8321A	Methomyl	0.804	µg/L	=	0.05	0.07	1.07	PR 75.1		None	PR 23-152

Adminsitrative Record
Page 17055

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8321A	Methomyl	0.89	µg/L	=	0.05	0.07	1.07	PR 83.2	RPD 10.2	None	PR 23-152 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8321A	Oxamyl	0.668	µg/L	=	0.2	0.4	1.07	PR 62.4		None	PR 10-117
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8321A	Oxamyl	0.708	µg/L	=	0.2	0.4	1.07	PR 66.2	RPD 5.8	None	PR 10-117 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Parathion, Methyl	1.95	µg/L	=	0.075	0.1	2.5	PR 78.0	RPD 0.51	None	PR 55-164 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Parathion, Methyl	1.94	µg/L	=	0.075	0.1	2.5	PR 77.6		None	PR 55-164
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Phorate	1.67	µg/L	=	0.07	0.1	2.5	PR 66.8		None	PR 44-117
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Phorate	1.55	µg/L	=	0.07	0.1	2.5	PR 62.0	RPD 7.5	None	PR 44-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Phosmet	1.84	µg/L	=	0.06	0.2	2.5	PR 73.6		None	PR 50-150
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Phosmet	1.97	µg/L	=	0.06	0.2	2.5	PR 78.8	RPD 6.8	None	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 619	Simazine	2.02	µg/L	=	0.08	0.5	2.5	PR 80.8		None	PR 21-179
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 619	Simazine	1.77	µg/L	=	0.08	0.5	2.5	PR 70.8	RPD 13.2	None	PR 21-179 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8321A	Tributylphosphate (Surrogate)	91	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8321A	Tributylphosphate (Surrogate)	74.1	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	89.2	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	103	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	89.2	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	87.6	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 619	Tributylphosphate (Surrogate)	89.2	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 619	Tributylphosphate (Surrogate)	87.6	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Trifluralin	1.83	µg/L	=	0.036	0.05	2.5	PR 73.2	RPD 0	None	PR 40-148 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Trifluralin	1.83	µg/L	=	0.036	0.05	2.5	PR 73.2		None	PR 40-148
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	112	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	100	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	90.4	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	93.6	%	=	NA	NA	100			None	PR 56-129

Adminsitrative Record
Page 17056

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 619	Triphenyl phosphate (Surrogate)	90.4	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 619	Triphenyl phosphate (Surrogate)	93.6	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8321A	Aldicarb	0.857	µg/L	=	0.2	0.4	1.07	PR 80.1	RPD 3.9	None	PR 31-133 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8321A	Aldicarb	0.824	µg/L	=	0.2	0.4	1.07	PR 77.0		None	PR 31-133
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 619	Atrazine	1.97	µg/L	=	0.07	0.5	2.5	PR 78.8	RPD 12.4	None	PR 39-156 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 619	Atrazine	1.74	µg/L	=	0.07	0.5	2.5	PR 69.6		None	PR 39-156
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Azinphos methyl	1.96	µg/L	=	0.02	0.1	2.5	PR 78.4		None	PR 36-189
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Azinphos methyl	2.27	µg/L	=	0.02	0.1	2.5	PR 90.8	RPD 14.7	None	PR 36-189 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8321A	Carbaryl	0.893	µg/L	=	0.05	0.07	1.07	PR 83.5		None	PR 44-133
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8321A	Carbaryl	1.02	µg/L	=	0.05	0.07	1.07	PR 95.3	RPD 13.3	None	PR 44-133 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8321A	Carbofuran	0.949	µg/L	=	0.05	0.07	1.07	PR 88.7		None	PR 36-165
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8321A	Carbofuran	0.968	µg/L	=	0.05	0.07	1.07	PR 90.5	RPD 2.0	None	PR 36-165 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Chlorpyrifos	4.48	µg/L	=	0.0026	0.015	5	PR 89.6		None	PR 61-125
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Chlorpyrifos	5.04	µg/L	=	0.0026	0.015	5	PR 101	RPD 11.8	None	PR 61-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 619	Cyanazine	3.51	µg/L	=	0.09	0.5	2.5	PR 140		None	PR 22-172
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 619	Cyanazine	4.14	µg/L	=	0.09	0.5	2.5	PR 166	RPD 16.5	None	PR 22-172 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Demeton-s	0.395	µg/L	=	0.01	0.1	0.75	PR 52.7		None	PR 40-125
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Demeton-s	0.399	µg/L	=	0.01	0.1	0.75	PR 53.2	RPD 1.0	None	PR 40-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Diazinon	2.17	µg/L	=	0.004	0.02	2.5	PR 86.8		None	PR 57-130
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Diazinon	2.39	µg/L	=	0.004	0.02	2.5	PR 95.6	RPD 9.6	None	PR 57-130 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Dichlorvos	1.95	µg/L	=	0.02	0.1	2.5	PR 78.0		None	PR 10-175
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Dichlorvos	2.41	µg/L	=	0.02	0.1	2.5	PR 96.4	RPD 21.1	None	PR 10-175 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Dimethoate	1.89	µg/L	=	0.08	0.1	2.5	PR 75.6		None	PR 68-202
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Dimethoate	1.76	µg/L	=	0.08	0.1	2.5	PR 70.4	RPD 7.1	None	PR 68-202 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Disulfoton	1.45	µg/L	=	0.02	0.05	2.5	PR 58.0		None	PR 47-117

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Disulfoton	1.56	µg/L	=	0.02	0.05	2.5	PR 62.4	RPD 7.3	None	PR 47-117 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8321A	Diuron	1	µg/L	=	0.2	0.4	1.07	PR 93.5	RPD 5.8	None	PR 52-136 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8321A	Diuron	0.944	µg/L	=	0.2	0.4	1.07	PR 88.2		None	PR 52-136
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8321A	Linuron	0.826	µg/L	=	0.2	0.4	1.07	PR 77.2		None	PR 49-144
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8321A	Linuron	0.968	µg/L	=	0.2	0.4	1.07	PR 90.5	RPD 15.8	None	PR 49-144 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Malathion	4.48	µg/L	=	0.05	0.1	5	PR 89.6		None	PR 47-125
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Malathion	5.04	µg/L	=	0.05	0.1	5	PR 101	RPD 11.8	None	PR 47-125 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Methamidophos	0.298	µg/L	=	0.08	0.2	0.5	PR 59.6	RPD 3.6	None	PR 25-136 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Methamidophos	0.309	µg/L	=	0.08	0.2	0.5	PR 61.8		None	PR 25-136
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Methidathion	2.37	µg/L	=	0.04	0.1	2.5	PR 94.8		None	PR 50-150
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Methidathion	2.58	µg/L	=	0.04	0.1	2.5	PR 103	RPD 8.5	None	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8321A	Methiocarb	0.903	µg/L	=	0.2	0.4	1.07	PR 84.4		None	PR 35-142
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8321A	Methiocarb	1.01	µg/L	=	0.2	0.4	1.07	PR 94.4	RPD 11.2	None	PR 35-142 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8321A	Methomyl	1.02	µg/L	=	0.05	0.07	1.07	PR 95.3	RPD 19.8	None	PR 23-152 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8321A	Methomyl	0.836	µg/L	=	0.05	0.07	1.07	PR 78.1		None	PR 23-152
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8321A	Oxamyl	0.727	µg/L	=	0.2	0.4	1.07	PR 67.9		None	PR 10-117
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8321A	Oxamyl	0.838	µg/L	=	0.2	0.4	1.07	PR 78.3	RPD 14.2	None	PR 10-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Parathion, Methyl	1.86	µg/L	=	0.075	0.1	2.5	PR 74.4		None	PR 55-164
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Parathion, Methyl	2.1	µg/L	=	0.075	0.1	2.5	PR 84.0	RPD 12.1	None	PR 55-164 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Phorate	1.89	µg/L	=	0.07	0.1	2.5	PR 75.6		None	PR 44-117
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Phorate	2.16	µg/L	=	0.07	0.1	2.5	PR 86.4	RPD 13.3	None	PR 44-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Phosmet	1.46	µg/L	=	0.06	0.2	2.5	PR 58.4		None	PR 50-150
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Phosmet	1.61	µg/L	=	0.06	0.2	2.5	PR 64.4	RPD 9.8	None	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 619	Simazine	1.7	µg/L	=	0.08	0.5	2.5	PR 68.0		None	PR 21-179
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 619	Simazine	1.95	µg/L	=	0.08	0.5	2.5	PR 78.0	RPD 13.7	None	PR 21-179 RPD <25

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8321A	Tributylphosphate (Surrogate)	87.2	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8321A	Tributylphosphate (Surrogate)	98.5	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	100	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	90	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 619	Tributylphosphate (Surrogate)	100	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 619	Tributylphosphate (Surrogate)	90	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	78.6	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	87.4	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Trifluralin	1.88	µg/L	=	0.036	0.05	2.5	PR 75.2		None	PR 40-148
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Trifluralin	2.17	µg/L	=	0.036	0.05	2.5	PR 86.8	RPD 14.3	None	PR 40-148 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	102	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	88.4	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 619	Triphenyl phosphate (Surrogate)	88.4	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 619	Triphenyl phosphate (Surrogate)	102	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	92.2	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	103	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8321A	Aldicarb	1.09	µg/L	=	0.2	0.4	1.07	PR 102	RPD 20.4	None	PR 31-133 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8321A	Aldicarb	0.888	µg/L	=	0.2	0.4	1.07	PR 83.0		None	PR 31-133
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 619	Atrazine	2.27	µg/L	=	0.07	0.5	2.5	PR 90.8	RPD 4.3	None	PR 39-156 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 619	Atrazine	2.37	µg/L	=	0.07	0.5	2.5	PR 94.8		None	PR 39-156
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Azinphos methyl	2.7	µg/L	=	0.02	0.1	2.5	PR 108		None	PR 36-189
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Azinphos methyl	2.81	µg/L	=	0.02	0.1	2.5	PR 112	RPD 4.0	None	PR 36-189 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8321A	Carbaryl	1.06	µg/L	=	0.05	0.07	1.07	PR 99.1		None	PR 44-133
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8321A	Carbaryl	1.15	µg/L	=	0.05	0.07	1.07	PR 107	RPD 8.1	None	PR 44-133 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8321A	Carbofuran	1	µg/L	=	0.05	0.07	1.07	PR 93.5		None	PR 36-165

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8321A	Carbofuran	1.15	µg/L	=	0.05	0.07	1.07	PR 107	RPD 14.0	None	PR 36-165 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Chlorpyrifos	4.85	µg/L	=	0.0026	0.015	5	PR 97.0	RPD 2.4	None	PR 61-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Chlorpyrifos	4.97	µg/L	=	0.0026	0.015	5	PR 99.4		None	PR 61-125
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 619	Cyanazine	2.37	µg/L	=	0.09	0.5	2.5	PR 94.8		None	PR 22-172
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 619	Cyanazine	2.46	µg/L	=	0.09	0.5	2.5	PR 98.4	RPD 3.7	None	PR 22-172 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Demeton-s	0.706	µg/L	=	0.01	0.1	0.75	PR 94.1		None	PR 40-125
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Demeton-s	0.657	µg/L	=	0.01	0.1	0.75	PR 87.6	RPD 7.2	None	PR 40-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Diazinon	2.39	µg/L	=	0.004	0.02	2.5	PR 95.6		None	PR 57-130
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Diazinon	2.4	µg/L	=	0.004	0.02	2.5	PR 96.0	RPD 0.42	None	PR 57-130 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Dichlorvos	2.12	µg/L	=	0.02	0.1	2.5	PR 84.8	RPD 0	None	PR 10-175 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Dichlorvos	2.12	µg/L	=	0.02	0.1	2.5	PR 84.8		None	PR 10-175
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Dimethoate	2.15	µg/L	=	0.08	0.1	2.5	PR 86.0	RPD 8.2	None	PR 68-202 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Dimethoate	1.98	µg/L	=	0.08	0.1	2.5	PR 79.2		None	PR 68-202
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Disulfoton	2	µg/L	=	0.02	0.05	2.5	PR 80.0	RPD 2.5	None	PR 47-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Disulfoton	2.05	µg/L	=	0.02	0.05	2.5	PR 82.0		None	PR 47-117
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8321A	Diuron	1.3	µg/L	=	0.2	0.4	1.07	PR 121	RPD 23.2	None	PR 52-136 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8321A	Diuron	1.03	µg/L	=	0.2	0.4	1.07	PR 96.3		None	PR 52-136
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8321A	Linuron	1.02	µg/L	=	0.2	0.4	1.07	PR 95.3	RPD 0.99	None	PR 49-144 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8321A	Linuron	1.01	µg/L	=	0.2	0.4	1.07	PR 94.4		None	PR 49-144
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Malathion	2.86	µg/L	=	0.05	0.1	2.5	PR 114		None	PR 47-125
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Malathion	2.55	µg/L	=	0.05	0.1	2.5	PR 102	RPD 11.5	None	PR 47-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Methamidophos	0.388	µg/L	=	0.08	0.2	0.5	PR 77.6		None	PR 25-136
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Methamidophos	0.352	µg/L	=	0.08	0.2	0.5	PR 70.4	RPD 9.7	Surrogate recovery is outside of control limits.	PR 25-136 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Methidathion	2.49	µg/L	=	0.04	0.1	2.5	PR 99.6	RPD 1.6	None	PR 50-150 RPD <25

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Methidathion	2.53	µg/L	=	0.04	0.1	2.5	PR 101		None	PR 50-150
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8321A	Methiocarb	1.03	µg/L	=	0.2	0.4	1.07	PR 96.3	RPD 4.3	None	PR 35-142 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8321A	Methiocarb	0.987	µg/L	=	0.2	0.4	1.07	PR 92.2		None	PR 35-142
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8321A	Methomyl	0.855	µg/L	=	0.05	0.07	1.07	PR 79.9	RPD 4.8	None	PR 23-152 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8321A	Methomyl	0.897	µg/L	=	0.05	0.07	1.07	PR 83.8		None	PR 23-152
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8321A	Oxamyl	0.944	µg/L	=	0.2	0.4	1.07	PR 88.2		None	PR 10-117
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8321A	Oxamyl	1.1	µg/L	=	0.2	0.4	1.07	PR 103	RPD 15.3	None	PR 10-117 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Parathion, Methyl	2.81	µg/L	=	0.075	0.1	2.5	PR 112	RPD 3.3	None	PR 55-164 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Parathion, Methyl	2.72	µg/L	=	0.075	0.1	2.5	PR 109		None	PR 55-164
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Phorate	2.2	µg/L	=	0.07	0.1	2.5	PR 88.0		None	PR 44-117
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Phorate	2.18	µg/L	=	0.07	0.1	2.5	PR 87.2	RPD 0.91	None	PR 44-117 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Phosmet	0.926	µg/L	=	0.06	0.2	2.5	PR 37.0	RPD 5.4	Matrix spike recovery not within control limits	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Phosmet	0.877	µg/L	=	0.06	0.2	2.5	PR 35.1		Matrix spike recovery not within control limits	PR 50-150
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 619	Simazine	2.19	µg/L	=	0.08	0.5	2.5	PR 87.6	RPD 1.8	None	PR 21-179 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 619	Simazine	2.23	µg/L	=	0.08	0.5	2.5	PR 89.2		None	PR 21-179
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	95.2	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	95.6	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 619	Tributylphosphate (Surrogate)	95.6	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 619	Tributylphosphate (Surrogate)	95.2	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	99.2	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8321A	Tributylphosphate (Surrogate)	92.5	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	76	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Tributylphosphate (Surrogate)	57.6	%	=	NA	NA	100			Surrogate recovery is outside of control limits.	PR 60-150

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Trifluralin	2.26	µg/L	=	0.036	0.05	2.5	PR 90.4	RPD 0	None	PR 40-148 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Trifluralin	2.26	µg/L	=	0.036	0.05	2.5	PR 90.4		None	PR 40-148
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	98.8	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	106	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	98.8	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 619	Triphenyl phosphate (Surrogate)	106	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	93.2	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 8141A	Triphenyl phosphate (Surrogate)	70.4	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8321A	Aldicarb	0.826	µg/L	=	0.2	0.4	1.07	PR 77.2		None	PR 31-133
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8321A	Aldicarb	0.896	µg/L	=	0.2	0.4	1.07	PR 83.7	RPD 8.1	None	PR 31-133 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 619	Atrazine	1.73	µg/L	=	0.07	0.5	2.5	PR 69.2		None	PR 39-156
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 619	Atrazine	1.84	µg/L	=	0.07	0.5	2.5	PR 73.6	RPD 6.2	None	PR 39-156 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Azinphos methyl	2.48	µg/L	=	0.02	0.1	2.5	PR 99.2	RPD 10.2	None	PR 36-189 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Azinphos methyl	2.24	µg/L	=	0.02	0.1	2.5	PR 89.6		None	PR 36-189
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8321A	Carbaryl	0.889	µg/L	=	0.05	0.07	1.07	PR 83.1		None	PR 44-133
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8321A	Carbaryl	1.1	µg/L	=	0.05	0.07	1.07	PR 103	RPD 21.2	None	PR 44-133 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8321A	Carbofuran	1.18	µg/L	=	0.05	0.07	1.07	PR 110	RPD 16.5	None	PR 36-165 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8321A	Carbofuran	1	µg/L	=	0.05	0.07	1.07	PR 93.5		None	PR 36-165
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Chlorpyrifos	3.42	µg/L	=	0.0026	0.015	5	PR 68.4	RPD 7.0	None	PR 61-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Chlorpyrifos	3.19	µg/L	=	0.0026	0.015	5	PR 63.8		None	PR 61-125
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 619	Cyanazine	4.92	µg/L	=	0.09	0.5	5	PR 98.4	RPD 10.3	None	PR 22-172 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 619	Cyanazine	4.44	µg/L	=	0.09	0.5	5	PR 88.8		None	PR 22-172
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Demeton-s	0.617	µg/L	=	0.01	0.1	0.75	PR 82.3	RPD 8.6	None	PR 40-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Demeton-s	0.566	µg/L	=	0.01	0.1	0.75	PR 75.5		None	PR 40-125
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Diazinon	1.78	µg/L	=	0.004	0.02	2.5	PR 71.2		None	PR 57-130

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Diazinon	1.91	µg/L	=	0.004	0.02	2.5	PR 76.4	RPD 7.0	None	PR 57-130 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Dichlorvos	1.97	µg/L	=	0.02	0.1	2.5	PR 78.8		None	PR 10-175
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Dichlorvos	2.39	µg/L	=	0.02	0.1	2.5	PR 95.6	RPD 19.3	None	PR 10-175 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Dimethoate	1.83	µg/L	=	0.08	0.1	2.5	PR 73.2		None	PR 68-202
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Dimethoate	1.91	µg/L	=	0.08	0.1	2.5	PR 76.4	RPD 4.3	None	PR 68-202 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Disulfoton	1.61	µg/L	=	0.02	0.05	2.5	PR 64.4		None	PR 47-117
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Disulfoton	1.7	µg/L	=	0.02	0.05	2.5	PR 68.0	RPD 5.4	None	PR 47-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8321A	Diuron	0.692	µg/L	=	0.2	0.4	1.07	PR 64.7		None	PR 52-136
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8321A	Diuron	0.675	µg/L	=	0.2	0.4	1.07	PR 63.1	RPD 2.5	None	PR 52-136 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8321A	Linuron	0.861	µg/L	=	0.2	0.4	1.07	PR 80.5		None	PR 49-144
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8321A	Linuron	1.04	µg/L	=	0.2	0.4	1.07	PR 97.2	RPD 18.8	None	PR 49-144 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Malathion	2.59	µg/L	=	0.05	0.1	2.5	PR 104	RPD 7.2	None	PR 47-125 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Malathion	2.41	µg/L	=	0.05	0.1	2.5	PR 96.4		None	PR 47-125
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Methamidophos	0.35	µg/L	=	0.08	0.2	0.5	PR 70.0	RPD 0.86	None	PR 25-136 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Methamidophos	0.347	µg/L	=	0.08	0.2	0.5	PR 69.4		None	PR 25-136
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Methidathion	2.21	µg/L	=	0.04	0.1	2.5	PR 88.4		None	PR 50-150
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Methidathion	2.35	µg/L	=	0.04	0.1	2.5	PR 94.0	RPD 6.1	None	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8321A	Methiocarb	1.11	µg/L	=	0.2	0.4	1.07	PR 104	RPD 7.5	None	PR 35-142 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8321A	Methiocarb	1.03	µg/L	=	0.2	0.4	1.07	PR 96.3		None	PR 35-142
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8321A	Methomyl	0.827	µg/L	=	0.05	0.07	1.07	PR 77.3		None	PR 23-152
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8321A	Methomyl	1.01	µg/L	=	0.05	0.07	1.07	PR 94.4	RPD 19.9	None	PR 23-152 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8321A	Oxamyl	0.644	µg/L	=	0.2	0.4	1.07	PR 60.2	RPD 4.3	None	PR 10-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8321A	Oxamyl	0.672	µg/L	=	0.2	0.4	1.07	PR 62.8		None	PR 10-117
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Parathion, Methyl	1.98	µg/L	=	0.075	0.1	2.5	PR 79.2		None	PR 55-164
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Parathion, Methyl	2.14	µg/L	=	0.075	0.1	2.5	PR 85.6	RPD 7.8	None	PR 55-164 RPD <25

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Phorate	1.7	µg/L	=	0.07	0.1	2.5	PR 68.0		None	PR 44-117
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Phorate	1.86	µg/L	=	0.07	0.1	2.5	PR 74.4	RPD 9.0	None	PR 44-117 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Phosmet	1.61	µg/L	=	0.06	0.2	2.5	PR 64.4		None	PR 50-150
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Phosmet	1.72	µg/L	=	0.06	0.2	2.5	PR 68.8	RPD 6.6	None	PR 50-150 RPD <25
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 619	Simazine	1.59	µg/L	=	0.08	0.5	2.5	PR 63.6		None	PR 21-179
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 619	Simazine	1.69	µg/L	=	0.08	0.5	2.5	PR 67.6	RPD 6.1	None	PR 21-179 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8321A	Tributylphosphate (Surrogate)	108	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8321A	Tributylphosphate (Surrogate)	101	%	=	NA	NA	100			None	PR 36-140
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	82.4	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	76.8	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 619	Tributylphosphate (Surrogate)	76.8	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 619	Tributylphosphate (Surrogate)	82.4	%	=	NA	NA	100			None	PR 62-145
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	77.2	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Tributylphosphate (Surrogate)	60	%	=	NA	NA	100			None	PR 60-150
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Trifluralin	1.38	µg/L	=	0.036	0.05	2.5	PR 55.2		None	PR 40-148
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Trifluralin	1.52	µg/L	=	0.036	0.05	2.5	PR 60.8	RPD 9.7	None	PR 40-148 RPD <25
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	86	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	79.2	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 619	Triphenyl phosphate (Surrogate)	79.2	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 619	Triphenyl phosphate (Surrogate)	85.6	%	=	NA	NA	100			None	PR 54-144
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	72	%	=	NA	NA	100			None	PR 56-129
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 8141A	Triphenyl phosphate (Surrogate)	92.6	%	=	NA	NA	100			None	PR 56-129
Non Project QA Sample	MS	2.00	12/16/08	12:00	EPA 8081A	Aldrin	0.256	µg/L	=	0.009	0.01	0.3	PR 85.3	RPD 3.1	Batch Quality Assurance data from another project.	PR 11-138 RPD <25
Non Project QA Sample	MS	1.00	12/16/08	12:00	EPA 8081A	Aldrin	0.264	µg/L	=	0.009	0.01	0.3	PR 88.0		Batch Quality Assurance data from another project.	PR 11-138

Adminsitrative Record
Page 17064

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Non Project QA Sample	MS	1.00	12/16/08	12:00	EPA 8081A	Chlordane	0.541	µg/L	=	0.007	0.01	0.6	PR 90.2		Batch Quality Assurance data from another project.	PR 44-152
Non Project QA Sample	MS	2.00	12/16/08	12:00	EPA 8081A	Chlordane	0.531	µg/L	=	0.007	0.01	0.6	PR 88.5	RPD 1.9	Batch Quality Assurance data from another project.	PR 44-152 RPD <25
Non Project QA Sample	MS	1.00	12/16/08	12:00	EPA 8081A	Endosulfan I	0.28	µg/L	=	0.005	0.01	0.3	PR 93.3		Batch Quality Assurance data from another project.	PR 50-131
Non Project QA Sample	MS	2.00	12/16/08	12:00	EPA 8081A	Endosulfan I	0.272	µg/L	=	0.005	0.01	0.3	PR 90.7	RPD 2.9	Batch Quality Assurance data from another project.	PR 50-131 RPD <25
Non Project QA Sample	MS	2.00	12/16/08	12:00	EPA 8081A	Endosulfan II	0.296	µg/L	=	0.004	0.01	0.3	PR 98.7	RPD 2.0	Batch Quality Assurance data from another project.	PR 55-128 RPD <25
Non Project QA Sample	MS	1.00	12/16/08	12:00	EPA 8081A	Endosulfan II	0.302	µg/L	=	0.004	0.01	0.3	PR 101		Batch Quality Assurance data from another project.	PR 55-128
Non Project QA Sample	MS	2.00	12/16/08	12:00	EPA 8081A	HCH, alpha	0.286	µg/L	=	0.005	0.01	0.3	PR 95.3	RPD 0	Batch Quality Assurance data from another project.	PR 33-111 RPD <25
Non Project QA Sample	MS	1.00	12/16/08	12:00	EPA 8081A	HCH, alpha	0.286	µg/L	=	0.005	0.01	0.3	PR 95.3		Batch Quality Assurance data from another project.	PR 33-111
Non Project QA Sample	MS	2.00	12/16/08	12:00	EPA 8081A	HCH, beta	0.259	µg/L	=	0.008	0.01	0.3	PR 86.3	RPD 1.9	Batch Quality Assurance data from another project.	PR 49-119 RPD <25
Non Project QA Sample	MS	1.00	12/16/08	12:00	EPA 8081A	HCH, beta	0.254	µg/L	=	0.008	0.01	0.3	PR 84.7		Batch Quality Assurance data from another project.	PR 49-119
Non Project QA Sample	MS	2.00	12/16/08	12:00	EPA 8081A	HCH, delta	0.289	µg/L	=	0.005	0.01	0.3	PR 96.3	RPD 1.0	Batch Quality Assurance data from another project.	PR 12-97 RPD <25
Non Project QA Sample	MS	1.00	12/16/08	12:00	EPA 8081A	HCH, delta	0.292	µg/L	=	0.005	0.01	0.3	PR 97.3		Batch Quality Assurance data from another project; Matrix spike recovery not within control limits.	PR 12-97
Non Project QA Sample	MS	2.00	12/16/08	12:00	EPA 8081A	HCH, gamma	0.281	µg/L	=	0.005	0.01	0.3	PR 93.7	RPD 4.4	Batch Quality Assurance data from another project.	PR 40-114 RPD <25
Non Project QA Sample	MS	1.00	12/16/08	12:00	EPA 8081A	HCH, gamma	0.269	µg/L	=	0.005	0.01	0.3	PR 89.7		Batch Quality Assurance data from another project.	PR 40-114
Non Project QA Sample	MS	2.00	12/16/08	12:00	EPA 8081A	Heptachlor	0.254	µg/L	=	0.008	0.01	0.3	PR 84.7	RPD 0.39	Batch Quality Assurance data from another project.	PR 24-124 RPD <25
Non Project QA Sample	MS	1.00	12/16/08	12:00	EPA 8081A	Heptachlor	0.255	µg/L	=	0.008	0.01	0.3	PR 85.0		Batch Quality Assurance data from another project.	PR 24-124

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Non Project QA Sample	MS	2.00	12/16/08	12:00	EPA 8081A	Heptachlor epoxide	0.254	µg/L	=	0.007	0.01	0.3	PR 84.7	RPD 3.5	Batch Quality Assurance data from another project.	PR 58-109 RPD <25
Non Project QA Sample	MS	1.00	12/16/08	12:00	EPA 8081A	Heptachlor epoxide	0.263	µg/L	=	0.007	0.01	0.3	PR 87.7		Batch Quality Assurance data from another project.	PR 58-109
Laboratory QA Samples	LabBlank	1.00	01/01/50	00:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	5				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/25/08	00:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	85.9	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8321A	Diuron	0.26	µg/L	DNQ	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	80.9	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8321A	Tributylphosphate (Surrogate)	110	%	=	NA	NA	100			None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Tributylphosphate (Surrogate)	124	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 619	Tributylphosphate (Surrogate)	124	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Tributylphosphate (Surrogate)	81.8	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	105	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 619	Triphenyl phosphate (Surrogate)	105	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	79.2	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	11/14/08	00:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/17/08	00:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/17/08	00:00	EPA 8141A	Tributylphosphate (Surrogate)	91.8	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	11/17/08	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	98	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	65.6	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	5				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	50.5	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8321A	Tributylphosphate (Surrogate)	94.2	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8141A	Tributylphosphate (Surrogate)	127	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 619	Tributylphosphate (Surrogate)	127	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	113	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 619	Triphenyl phosphate (Surrogate)	113	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/08	00:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/08	00:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/08	00:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/08	00:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/08	00:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/08	00:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/08	00:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/08	00:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/08	00:00	EPA 8321A	Tributylphosphate (Surrogate)	82.7	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	106	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	5				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	82.6	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Tributylphosphate (Surrogate)	107	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 619	Tributylphosphate (Surrogate)	107	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Tributylphosphate (Surrogate)	67.8	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	102	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 619	Triphenyl phosphate (Surrogate)	102	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	69.2	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/22/08	00:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01				None	< RL

Adminsitrative Record
Page 17072

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	61.7	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	53.4	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	106	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	82.7	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 619	Tributylphosphate (Surrogate)	82.7	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	82.2	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	72.1	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	72.1	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	76	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	01/23/09	00:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	01/30/09	00:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	5				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07				None	< RL

Adminsitrative Record
Page 17074

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	33.1	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	5				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	30	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	69.3	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	78.2	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 619	Tributylphosphate (Surrogate)	78.2	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	88	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	79.6	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	79.6	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	84.4	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	98.7	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	68.4	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	100	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	117	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 619	Tributylphosphate (Surrogate)	117	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	88.4	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	03/20/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	88.4	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	03/22/09	00:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	5				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/23/09	00:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	03/23/09	00:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	03/23/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	145	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	03/23/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	115	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	04/27/09	00:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/27/09	00:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/27/09	00:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/27/09	00:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/27/09	00:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/27/09	00:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/27/09	00:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/27/09	00:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/27/09	00:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/27/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	104	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	04/27/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	87.6	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	04/27/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	92	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	72.4	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	68.8	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	85.2	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 619	Tributylphosphate (Surrogate)	85.2	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	85.8	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	85.8	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	04/30/09	00:00	EPA 547M	Glyphosate	<4	µg/L	ND	4	5				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/21/09	00:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/21/09	00:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/21/09	00:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/21/09	00:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/21/09	00:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/21/09	00:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/21/09	00:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/21/09	00:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/21/09	00:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/21/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	102	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	05/21/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	82.6	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	05/21/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	77.4	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	67.1	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 619	Tributylphosphate (Surrogate)	67.1	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	67.1	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	67.1	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	77.7	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 619	Tributylphosphate (Surrogate)	77.7	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 8141A	Trifluralin	<0.04	µg/L	ND	0.04	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	67.4	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	67.4	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	06/19/09	00:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/19/09	00:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/19/09	00:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/19/09	00:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/19/09	00:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/19/09	00:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/19/09	00:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/19/09	00:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/19/09	00:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	06/19/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	111	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	06/19/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	97	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	06/19/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	72.8	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	07/23/09	00:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/23/09	00:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/23/09	00:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/23/09	00:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/23/09	00:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	07/23/09	00:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/23/09	00:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/23/09	00:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/23/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	82.5	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	07/27/09	00:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/27/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	133	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	07/27/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	71.2	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	85.1	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	95.6	%	=	NA	NA	100			None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 619	Tributylphosphate (Surrogate)	95.6	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	88.2	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	07/28/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	88.2	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	08/21/09	00:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/21/09	00:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/21/09	00:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/21/09	00:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/21/09	00:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/21/09	00:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/21/09	00:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/21/09	00:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/21/09	00:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/21/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	91.1	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	08/21/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	86.4	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	08/21/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	87.2	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	89.3	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 619	Tributylphosphate (Surrogate)	89.3	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	91.9	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	91.9	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	09/28/09	00:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/28/09	00:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/28/09	00:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/28/09	00:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/28/09	00:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/28/09	00:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/28/09	00:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/28/09	00:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/28/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	82.5	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2				Surrogate recovery is outside of control limits.	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	88.8	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 619	Tributylphosphate (Surrogate)	88.8	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	167	%	=	NA	NA	100			Surrogate recovery is outside of control limits.	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	86.1	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	86.1	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	189	%	=	NA	NA	100			Surrogate recovery is outside of control limits.	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	93.6	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 619	Tributylphosphate (Surrogate)	93.6	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	101	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	10/26/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	101	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	10/27/09	00:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/27/09	00:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/27/09	00:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/27/09	00:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/27/09	00:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/27/09	00:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2				Surrogate recovery is outside of control limits.	< RL
Laboratory QA Samples	LabBlank	1.00	10/27/09	00:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/27/09	00:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	10/27/09	00:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4				None	< RL

Adminsitrative Record
Page 17088

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	10/27/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	105	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	10/27/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	59.8	%	=	NA	NA	100			Surrogate recovery is outside of control limits.	< RL
Laboratory QA Samples	LabBlank	1.00	10/27/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	89.4	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	98.8	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	86.2	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 619	Tributylphosphate (Surrogate)	86.2	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	98.8	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	92.6	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	92.6	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	109	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	Aldrin	<0.009	µg/L	ND	0.009	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 619	Atrazine	<0.07	µg/L	ND	0.07	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Azinphos methyl	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	Chlordane	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Chlorpyrifos	<0.0026	µg/L	ND	0.0026	0.015				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 619	Cyanazine	<0.09	µg/L	ND	0.09	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	DDD (p,p')	<0.003	µg/L	ND	0.003	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	DDE (p,p')	<0.004	µg/L	ND	0.004	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	DDT (p,p')	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	46.2	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Demeton-s	<0.01	µg/L	ND	0.01	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Diazinon	<0.004	µg/L	ND	0.004	0.02				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Dichlorvos	<0.02	µg/L	ND	0.02	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	Dicofol	<0.01	µg/L	ND	0.01	0.1				None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	Dieldrin	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Dimethoate	<0.08	µg/L	ND	0.08	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Disulfoton	<0.02	µg/L	ND	0.02	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	Endosulfan I	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	Endosulfan II	<0.004	µg/L	ND	0.004	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	Endrin	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	HCH, alpha	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	HCH, beta	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	HCH, delta	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	HCH, gamma	<0.005	µg/L	ND	0.005	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	Heptachlor	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	Heptachlor epoxide	<0.007	µg/L	ND	0.007	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Malathion	<0.05	µg/L	ND	0.05	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Methamidophos	<0.08	µg/L	ND	0.08	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Methidathion	<0.04	µg/L	ND	0.04	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	Methoxychlor	<0.008	µg/L	ND	0.008	0.01				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Parathion, Methyl	<0.075	µg/L	ND	0.075	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Phorate	<0.07	µg/L	ND	0.07	0.1				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Phosmet	<0.06	µg/L	ND	0.06	0.2				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 619	Simazine	<0.08	µg/L	ND	0.08	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	37	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8081A	Toxaphene	<0.38	µg/L	ND	0.38	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	80.6	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 619	Tributylphosphate (Surrogate)	80.6	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	99.4	%	=	NA	NA	100			None	< RL

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Trifluralin	<0.036	µg/L	ND	0.036	0.05				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	102	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	102	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/18/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	95.2	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/21/09	00:00	EPA 8321A	Aldicarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/21/09	00:00	EPA 8321A	Carbaryl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/21/09	00:00	EPA 8321A	Carbofuran	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/21/09	00:00	EPA 8321A	Diuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/21/09	00:00	EPA 8321A	Linuron	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/21/09	00:00	EPA 8321A	Methiocarb	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/21/09	00:00	EPA 8321A	Methomyl	<0.05	µg/L	ND	0.05	0.07				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/21/09	00:00	EPA 8321A	Oxamyl	<0.2	µg/L	ND	0.2	0.4				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/21/09	00:00	EPA 549.2M	Paraquat dichloride	<0.21	µg/L	ND	0.21	0.5				None	< RL
Laboratory QA Samples	LabBlank	1.00	12/21/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	89.5	%	=	NA	NA	100			None	< RL
Laboratory QA Samples	LabBlank	1.00	12/25/09	00:00	EPA 547M	Glyphosate	<2.8	µg/L	ND	2.8	5				None	< RL
Laboratory QA Samples	LCS	1.00	10/25/08	00:00	EPA 549.2M	Paraquat dichloride	7.95	µg/L	=	0.21	0.5	12	PR 66.3		None	PR 50-141
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8321A	Aldicarb	1.33	µg/L	=	0.2	0.4	1.07	PR 124	RPD 26.4	RPD exceeds laboratory control limit.	PR 31-133 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8321A	Aldicarb	1.02	µg/L	=	0.2	0.4	1.07	PR 95.3		RPD exceeds laboratory control limit.	PR 31-133
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	Aldrin	0.194	µg/L	=	0.009	0.01	0.3	PR 64.7		None	PR 11-138
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 619	Atrazine	2.6	µg/L	=	0.07	0.5	2.5	PR 104		None	PR 39-156
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 619	Atrazine	2.72	µg/L	=	0.07	0.5	2.5	PR 109	RPD 4.5	None	PR 39-156 RPD <25
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Azinphos methyl	3.03	µg/L	=	0.02	0.1	2.5	PR 121	RPD 1.7	None	PR 36-189 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Azinphos methyl	2.98	µg/L	=	0.02	0.1	2.5	PR 119		None	PR 36-189
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8321A	Carbaryl	1.23	µg/L	=	0.05	0.07	1.07	PR 115	RPD 21.7	None	PR 44-133 RPD <25

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8321A	Carbaryl	0.989	µg/L	=	0.05	0.07	1.07	PR 92.4		None	PR 44-133
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8321A	Carbofuran	1.23	µg/L	=	0.05	0.07	1.07	PR 115	RPD 10.3	None	PR 36-165 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8321A	Carbofuran	1.11	µg/L	=	0.05	0.07	1.07	PR 104		None	PR 36-165
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	Chlordane	0.57	µg/L	=	0.007	0.01	0.6	PR 95.0		None	PR 44-152
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Chlorpyrifos	6.01	µg/L	=	0.0026	0.015	5	PR 120		None	PR 61-125
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Chlorpyrifos	5.39	µg/L	=	0.0026	0.015	5	PR 108	RPD 10.9	None	PR 61-125 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 619	Cyanazine	3.14	µg/L	=	0.09	0.5	2.5	PR 126		None	PR 22-172
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 619	Cyanazine	3.37	µg/L	=	0.09	0.5	2.5	PR 135	RPD 7.1	None	PR 22-172 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	DDD (p,p')	0.297	µg/L	=	0.003	0.01	0.3	PR 99.0		None	PR 38-135
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	DDE (p,p')	0.297	µg/L	=	0.004	0.01	0.3	PR 99.0		None	PR 21-134
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	DDT (p,p')	0.302	µg/L	=	0.007	0.01	0.3	PR 101		None	PR 18-145
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	86.3	%	=	NA	NA	100			None	PR 16-146
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Demeton-s	0.835	µg/L	=	0.01	0.1	0.75	PR 111		None	PR 40-125
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Demeton-s	0.909	µg/L	=	0.01	0.1	0.75	PR 121	RPD 8.5	None	PR 40-125 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Diazinon	3.11	µg/L	=	0.004	0.02	2.5	PR 124		None	PR 57-130
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Diazinon	3.26	µg/L	=	0.004	0.02	2.5	PR 130	RPD 4.7	None	PR 57-130 RPD <25
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Dichlorvos	3.06	µg/L	=	0.02	0.1	2.5	PR 122	RPD 9.2	None	PR 10-175 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Dichlorvos	2.79	µg/L	=	0.02	0.1	2.5	PR 112		None	PR 10-175
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	Dicofol	0.153	µg/L	=	0.01	0.1	0.2	PR 76.5		None	PR 40-135
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	Dieldrin	0.31	µg/L	=	0.005	0.01	0.3	PR 103		None	PR 48-121
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Dimethoate	2.48	µg/L	=	0.08	0.1	2.5	PR 99.2	RPD 6.2	None	PR 68-202 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Dimethoate	2.33	µg/L	=	0.08	0.1	2.5	PR 93.2		None	PR 68-202
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Disulfoton	2.74	µg/L	=	0.02	0.05	2.5	PR 110		None	PR 47-117
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Disulfoton	2.66	µg/L	=	0.02	0.05	2.5	PR 106	RPD 3.0	None	PR 47-117 RPD <25
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8321A	Diuron	1.12	µg/L	=	0.2	0.4	1.07	PR 105	RPD 15.6	None	PR 52-136 RPD <25

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8321A	Diuron	0.958	µg/L	=	0.2	0.4	1.07	PR 89.5		None	PR 52-136
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	Endosulfan I	0.289	µg/L	=	0.005	0.01	0.3	PR 96.3		None	PR 50-131
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	Endosulfan II	0.293	µg/L	=	0.004	0.01	0.3	PR 97.7		None	PR 55-128
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	Endrin	0.288	µg/L	=	0.007	0.01	0.3	PR 96.0		None	PR 24-143
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	HCH, alpha	0.266	µg/L	=	0.005	0.01	0.3	PR 88.7		None	PR 33-111
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	HCH, beta	0.281	µg/L	=	0.008	0.01	0.3	PR 93.7		None	PR 49-119
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	HCH, delta	0.293	µg/L	=	0.005	0.01	0.3	PR 97.7		LCS is outside of acceptance limits.	PR 12-97
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	HCH, gamma	0.282	µg/L	=	0.005	0.01	0.3	PR 94.0		None	PR 40-114
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	Heptachlor	0.231	µg/L	=	0.008	0.01	0.3	PR 77.0		None	PR 24-124
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	Heptachlor epoxide	0.282	µg/L	=	0.007	0.01	0.3	PR 94.0		None	PR 58-109
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8321A	Linuron	1	µg/L	=	0.2	0.4	1.07	PR 93.5	RPD 7.3	None	PR 49-144 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8321A	Linuron	0.93	µg/L	=	0.2	0.4	1.07	PR 86.9		None	PR 49-144
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Malathion	2.78	µg/L	=	0.05	0.1	2.5	PR 111	RPD 4.0	None	PR 47-125 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Malathion	2.67	µg/L	=	0.05	0.1	2.5	PR 107		None	PR 47-125
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Methamidophos	0.347	µg/L	=	0.08	0.2	0.5	PR 69.4	RPD 1.4	None	PR 25-136 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Methamidophos	0.352	µg/L	=	0.08	0.2	0.5	PR 70.4		None	PR 25-136
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Methidathion	3.09	µg/L	=	0.04	0.1	2.5	PR 124	RPD 5.3	None	PR 50-150 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Methidathion	2.93	µg/L	=	0.04	0.1	2.5	PR 117		None	PR 50-150
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8321A	Methiocarb	1.15	µg/L	=	0.2	0.4	1.07	PR 107	RPD 14.5	None	PR 35-142 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8321A	Methiocarb	0.995	µg/L	=	0.2	0.4	1.07	PR 93.0		None	PR 35-142
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8321A	Methomyl	1.11	µg/L	=	0.05	0.07	1.07	PR 104	RPD 23.0	None	PR 23-152 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8321A	Methomyl	0.881	µg/L	=	0.05	0.07	1.07	PR 82.3		None	PR 23-152
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	Methoxychlor	0.282	µg/L	=	0.008	0.01	0.3	PR 94.0		None	PR 30-163
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8321A	Oxamyl	0.885	µg/L	=	0.2	0.4	1.07	PR 82.7	RPD 35.5	RPD exceeds laboratory control limit.	PR 10-117 RPD <25

Adminsitrative Record
Page 17094

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8321A	Oxamyl	0.618	µg/L	=	0.2	0.4	1.07	PR 57.8		RPD exceeds laboratory control limit.	PR 10-117
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Parathion, Methyl	3.26	µg/L	=	0.075	0.1	2.5	PR 130	RPD 6.7	None	PR 55-164 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Parathion, Methyl	3.05	µg/L	=	0.075	0.1	2.5	PR 122		None	PR 55-164
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Phorate	2.84	µg/L	=	0.07	0.1	2.5	PR 114		None	PR 44-117
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Phorate	2.77	µg/L	=	0.07	0.1	2.5	PR 111	RPD 2.5	None	PR 44-117 RPD <25
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Phosmet	2.64	µg/L	=	0.06	0.2	2.5	PR 106	RPD 3.1	None	PR 50-150 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Phosmet	2.56	µg/L	=	0.06	0.2	2.5	PR 102		None	PR 50-150
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 619	Simazine	2.4	µg/L	=	0.08	0.5	2.5	PR 96.0		None	PR 21-179
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 619	Simazine	2.46	µg/L	=	0.08	0.5	2.5	PR 98.4	RPD 2.5	None	PR 21-179 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	71.7	%	=	NA	NA	100			None	PR 15-98
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8321A	Tributylphosphate (Surrogate)	107	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8321A	Tributylphosphate (Surrogate)	105	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Tributylphosphate (Surrogate)	133	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Tributylphosphate (Surrogate)	125	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 619	Tributylphosphate (Surrogate)	125	%	=	NA	NA	100			None	PR 62-145
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 619	Tributylphosphate (Surrogate)	133	%	=	NA	NA	100			None	PR 62-145
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Tributylphosphate (Surrogate)	114	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Tributylphosphate (Surrogate)	101	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Trifluralin	2.77	µg/L	=	0.04	0.05	2.5	PR 111	RPD 9.1	None	PR 40-148 RPD <25
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Trifluralin	2.53	µg/L	=	0.04	0.05	2.5	PR 101		None	PR 40-148
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	118	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	123	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 619	Triphenyl phosphate (Surrogate)	123	%	=	NA	NA	100			None	PR 54-144
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 619	Triphenyl phosphate (Surrogate)	118	%	=	NA	NA	100			None	PR 54-144

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	2.00	10/28/08	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	114	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	101	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	10/29/08	00:00	EPA 547M	Glyphosate	47.97	µg/L	=	4	5	50	PR 95.9		None	PR 72-131
Laboratory QA Samples	LCS	2.00	10/29/08	00:00	EPA 547M	Glyphosate	48.93	µg/L	=	4	5	50	PR 97.9	RPD 2	None	PR 72-131 RPD <25
Laboratory QA Samples	LCS	1.00	11/14/08	00:00	EPA 549.2M	Paraquat dichloride	10.8	µg/L	=	0.21	0.5	12	PR 90.0		None	PR 50-141
Laboratory QA Samples	LCS	1.00	11/17/08	00:00	EPA 8141A	Methamidophos	0.208	µg/L	=	0.08	0.2	0.5	PR 41.6		None	PR 25-136
Laboratory QA Samples	LCS	1.00	11/17/08	00:00	EPA 8141A	Tributylphosphate (Surrogate)	84.4	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	11/17/08	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	80.8	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8321A	Aldicarb	0.937	µg/L	=	0.2	0.4	1.07	PR 87.6		None	PR 31-133
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	Aldrin	0.237	µg/L	=	0.009	0.01	0.3	PR 79.0		None	PR 11-138
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 619	Atrazine	2.7	µg/L	=	0.07	0.5	2.5	PR 108		None	PR 39-156
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8141A	Azinphos methyl	2.69	µg/L	=	0.02	0.1	2.5	PR 108		None	PR 36-189
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8321A	Carbaryl	0.83	µg/L	=	0.05	0.07	1.07	PR 77.6		None	PR 44-133
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8321A	Carbofuran	0.909	µg/L	=	0.05	0.07	1.07	PR 85.0		None	PR 36-165
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	Chlordane	0.609	µg/L	=	0.007	0.01	0.6	PR 102		None	PR 44-152
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8141A	Chlorpyrifos	5.61	µg/L	=	0.0026	0.015	5	PR 112		None	PR 61-125
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 619	Cyanazine	2.8	µg/L	=	0.09	0.5	2.5	PR 112		None	PR 22-172
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	DDD (p,p')	0.276	µg/L	=	0.003	0.01	0.3	PR 92.0		None	PR 38-135
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	DDE (p,p')	0.287	µg/L	=	0.004	0.01	0.3	PR 95.7		None	PR 21-134
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	DDT (p,p')	0.298	µg/L	=	0.007	0.01	0.3	PR 99.3		None	PR 18-145
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	63	%	=	NA	NA	100			None	PR 16-146
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8141A	Demeton-s	0.79	µg/L	=	0.01	0.1	1.5	PR 52.7		None	PR 40-125
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8141A	Diazinon	2.75	µg/L	=	0.004	0.02	2.5	PR 110		None	PR 57-130
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8141A	Dichlorvos	2.74	µg/L	=	0.02	0.1	2.5	PR 110		None	PR 10-175
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	Dicofol	0.128	µg/L	=	0.01	0.1	0.2	PR 64.0		None	PR 40-135

Adminsitrative Record
Page 17096

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	Dieldrin	0.326	µg/L	=	0.005	0.01	0.3	PR 109		None	PR 48-121
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8141A	Dimethoate	2.47	µg/L	=	0.08	0.1	2.5	PR 98.8		None	PR 68-202
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8141A	Disulfoton	2.74	µg/L	=	0.02	0.05	2.5	PR 110		None	PR 47-117
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8321A	Diuron	1.24	µg/L	=	0.2	0.4	1.07	PR 116		None	PR 52-136
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	Endosulfan I	0.308	µg/L	=	0.005	0.01	0.3	PR 103		None	PR 50-131
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	Endosulfan II	0.302	µg/L	=	0.004	0.01	0.3	PR 101		None	PR 55-128
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	Endrin	0.309	µg/L	=	0.007	0.01	0.3	PR 103		None	PR 24-143
Laboratory QA Samples	LCS	2.00	11/18/08	00:00	EPA 547M	Glyphosate	47.62	µg/L	=	4	5	50	PR 95.2	RPD 2.3	None	PR 72-131 RPD <25
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 547M	Glyphosate	48.71	µg/L	=	4	5	50	PR 97.4		None	PR 72-131
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	HCH, alpha	0.312	µg/L	=	0.005	0.01	0.3	PR 104		None	PR 33-111
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	HCH, beta	0.304	µg/L	=	0.008	0.01	0.3	PR 101		None	PR 49-119
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	HCH, delta	0.342	µg/L	=	0.005	0.01	0.3	PR 114		LCS is outside of acceptance limits.	PR 12-97
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	HCH, gamma	0.327	µg/L	=	0.005	0.01	0.3	PR 109		None	PR 40-114
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	Heptachlor	0.24	µg/L	=	0.008	0.01	0.3	PR 80.0		None	PR 24-124
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	Heptachlor epoxide	0.307	µg/L	=	0.007	0.01	0.3	PR 102		None	PR 58-109
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8321A	Linuron	1.21	µg/L	=	0.2	0.4	1.07	PR 113		None	PR 49-144
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8141A	Malathion	3.07	µg/L	=	0.05	0.1	2.5	PR 123		None	PR 47-125
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8141A	Methidathion	2.91	µg/L	=	0.04	0.1	2.5	PR 116		None	PR 50-150
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8321A	Methiocarb	0.937	µg/L	=	0.2	0.4	1.07	PR 87.6		None	PR 35-142
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8321A	Methomyl	0.775	µg/L	=	0.05	0.07	1.07	PR 72.4		None	PR 23-152
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	Methoxychlor	0.278	µg/L	=	0.008	0.01	0.3	PR 92.7		None	PR 30-163
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8321A	Oxamyl	0.626	µg/L	=	0.2	0.4	1.07	PR 58.5		None	PR 10-117
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8141A	Parathion, Methyl	2.93	µg/L	=	0.075	0.1	2.5	PR 117		None	PR 55-164
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8141A	Phorate	2.67	µg/L	=	0.07	0.1	2.5	PR 107		None	PR 44-117

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8141A	Phosmet	0.506	µg/L	=	0.06	0.2	2.5	PR 20.2		LCS is outside of acceptance limit but MS/MSD are within acceptance limits.	PR 50-150
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 619	Simazine	2.47	µg/L	=	0.08	0.5	2.5	PR 98.8		None	PR 21-179
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	59.3	%	=	NA	NA	100			None	PR 15-98
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8321A	Tributylphosphate (Surrogate)	125	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8141A	Tributylphosphate (Surrogate)	124	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 619	Tributylphosphate (Surrogate)	124	%	=	NA	NA	100			None	PR 62-145
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8141A	Trifluralin	2.21	µg/L	=	0.04	0.05	2.5	PR 88.4		None	PR 40-148
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	118	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 619	Triphenyl phosphate (Surrogate)	118	%	=	NA	NA	100			None	PR 54-144
Laboratory QA Samples	LCS	1.00	12/18/08	00:00	EPA 8321A	Aldicarb	0.836	µg/L	=	0.2	0.4	1.07	PR 78.1		None	PR 31-133
Laboratory QA Samples	LCS	1.00	12/18/08	00:00	EPA 8321A	Carbaryl	0.912	µg/L	=	0.05	0.07	1.07	PR 85.2		None	PR 44-133
Laboratory QA Samples	LCS	1.00	12/18/08	00:00	EPA 8321A	Carbofuran	0.938	µg/L	=	0.05	0.07	1.07	PR 87.7		None	PR 36-165
Laboratory QA Samples	LCS	1.00	12/18/08	00:00	EPA 8321A	Diuron	0.788	µg/L	=	0.2	0.4	1.07	PR 73.6		None	PR 52-136
Laboratory QA Samples	LCS	1.00	12/18/08	00:00	EPA 8321A	Linuron	0.975	µg/L	=	0.2	0.4	1.07	PR 91.1		None	PR 49-144
Laboratory QA Samples	LCS	1.00	12/18/08	00:00	EPA 8321A	Methiocarb	0.845	µg/L	=	0.2	0.4	1.07	PR 79.0		None	PR 35-142
Laboratory QA Samples	LCS	1.00	12/18/08	00:00	EPA 8321A	Methomyl	0.668	µg/L	=	0.05	0.07	1.07	PR 62.4		None	PR 23-152
Laboratory QA Samples	LCS	1.00	12/18/08	00:00	EPA 8321A	Oxamyl	0.614	µg/L	=	0.2	0.4	1.07	PR 57.4		None	PR 10-117
Laboratory QA Samples	LCS	1.00	12/18/08	00:00	EPA 8321A	Tributylphosphate (Surrogate)	81.2	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	Aldrin	0.252	µg/L	=	0.009	0.01	0.3	PR 84.0		None	PR 11-138
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 619	Atrazine	2.27	µg/L	=	0.07	0.5	2.5	PR 90.8		None	PR 39-156
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Azinphos methyl	2.35	µg/L	=	0.02	0.1	2.5	PR 94.0		None	PR 36-189
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	Chlordane	0.579	µg/L	=	0.007	0.01	0.6	PR 96.5		None	PR 44-152
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Chlorpyrifos	5.08	µg/L	=	0.0026	0.015	5	PR 102		None	PR 61-125
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 619	Cyanazine	2.39	µg/L	=	0.09	0.5	2.5	PR 95.6		None	PR 22-172

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	DDD (p,p')	0.283	µg/L	=	0.003	0.01	0.3	PR 94.3		None	PR 38-135
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	DDE (p,p')	0.302	µg/L	=	0.004	0.01	0.3	PR 101		None	PR 21-134
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	DDT (p,p')	0.329	µg/L	=	0.007	0.01	0.3	PR 110		None	PR 18-145
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	73.7	%	=	NA	NA	100			None	PR 16-146
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Demeton-s	0.757	µg/L	=	0.01	0.1	0.75	PR 101		None	PR 40-125
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Diazinon	2.53	µg/L	=	0.004	0.02	2.5	PR 101		None	PR 57-130
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Dichlorvos	1.87	µg/L	=	0.02	0.1	2.5	PR 74.8		None	PR 10-175
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	Dicofol	0.177	µg/L	=	0.01	0.1	0.2	PR 88.5		None	PR 40-135
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	Dieldrin	0.303	µg/L	=	0.005	0.01	0.3	PR 101		None	PR 48-121
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Dimethoate	2.17	µg/L	=	0.08	0.1	2.5	PR 86.8		None	PR 68-202
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Disulfoton	2.52	µg/L	=	0.02	0.05	2.5	PR 101		None	PR 47-117
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	Endosulfan I	0.285	µg/L	=	0.005	0.01	0.3	PR 95.0		None	PR 50-131
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	Endosulfan II	0.299	µg/L	=	0.004	0.01	0.3	PR 99.7		None	PR 55-128
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	Endrin	0.306	µg/L	=	0.007	0.01	0.3	PR 102		None	PR 24-143
Laboratory QA Samples	LCS	2.00	12/19/08	00:00	EPA 547M	Glyphosate	49.28	µg/L	=	4	5	50	PR 98.6	RPD 3	None	PR 72-131 RPD <25
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 547M	Glyphosate	47.81	µg/L	=	4	5	50	PR 95.6		None	PR 72-131
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	HCH, alpha	0.277	µg/L	=	0.005	0.01	0.3	PR 92.3		None	PR 33-111
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	HCH, beta	0.269	µg/L	=	0.008	0.01	0.3	PR 89.7		None	PR 49-119
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	HCH, delta	0.298	µg/L	=	0.005	0.01	0.3	PR 99.3		LCS is outside of acceptance limit but MS/MSD are within acceptance limits.	PR 12-97
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	HCH, gamma	0.273	µg/L	=	0.005	0.01	0.3	PR 91.0		None	PR 40-114
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	Heptachlor	0.24	µg/L	=	0.008	0.01	0.3	PR 80.0		None	PR 24-124
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	Heptachlor epoxide	0.277	µg/L	=	0.007	0.01	0.3	PR 92.3		None	PR 58-109
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Malathion	2.53	µg/L	=	0.05	0.1	2.5	PR 101		None	PR 47-125
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Methamidophos	0.339	µg/L	=	0.08	0.2	0.5	PR 67.8		None	PR 25-136

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Methidathion	2.68	µg/L	=	0.04	0.1	2.5	PR 107		None	PR 50-150
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	Methoxychlor	0.305	µg/L	=	0.008	0.01	0.3	PR 102		None	PR 30-163
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Parathion, Methyl	2.62	µg/L	=	0.075	0.1	2.5	PR 105		None	PR 55-164
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Phorate	2.46	µg/L	=	0.07	0.1	2.5	PR 98.4		None	PR 44-117
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Phosmet	2.58	µg/L	=	0.06	0.2	2.5	PR 103		None	PR 50-150
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 619	Simazine	2.12	µg/L	=	0.08	0.5	2.5	PR 84.8		None	PR 21-179
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	81.3	%	=	NA	NA	100			None	PR 15-98
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Tributylphosphate (Surrogate)	106	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 619	Tributylphosphate (Surrogate)	106	%	=	NA	NA	100			None	PR 62-145
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Tributylphosphate (Surrogate)	70.8	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Trifluralin	2.36	µg/L	=	0.04	0.05	2.5	PR 94.4		None	PR 40-148
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	101	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 619	Triphenyl phosphate (Surrogate)	101	%	=	NA	NA	100			None	PR 54-144
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	66.2	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	12/22/08	00:00	EPA 549.2M	Paraquat dichloride	11.7	µg/L	=	0.21	0.5	12	PR 97.5		None	PR 50-141
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8321A	Aldicarb	1.11	µg/L	=	0.2	0.4	1.07	PR 104		None	PR 31-133
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	Aldrin	0.203	µg/L	=	0.009	0.01	0.3	PR 67.7		None	PR 11-138
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 619	Atrazine	2.5	µg/L	=	0.07	0.5	2.5	PR 100		None	PR 39-156
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Azinphos methyl	2.46	µg/L	=	0.02	0.1	2.5	PR 98.4		None	PR 36-189
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8321A	Carbaryl	0.972	µg/L	=	0.05	0.07	1.07	PR 90.8		None	PR 44-133
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8321A	Carbofuran	1.12	µg/L	=	0.05	0.07	1.07	PR 105		None	PR 36-165
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	Chlordane	0.438	µg/L	=	0.007	0.01	0.6	PR 73.0		None	PR 44-152
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Chlorpyrifos	4.76	µg/L	=	0.0026	0.015	5	PR 95.2		None	PR 61-125
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 619	Cyanazine	2.39	µg/L	=	0.09	0.5	2.5	PR 95.6		None	PR 22-172
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	DDD (p,p')	0.242	µg/L	=	0.003	0.01	0.3	PR 80.7		None	PR 38-135

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	DDE (p,p')	0.222	µg/L	=	0.004	0.01	0.3	PR 74.0		None	PR 21-134
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	DDT (p,p')	0.234	µg/L	=	0.007	0.01	0.3	PR 78.0		None	PR 18-145
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	51	%	=	NA	NA	100			None	PR 16-146
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Demeton-s	2.34	µg/L	=	0.01	0.1	2.5	PR 93.6		None	PR 40-125
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Diazinon	2.5	µg/L	=	0.004	0.02	2.5	PR 100		None	PR 57-130
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Dichlorvos	2.12	µg/L	=	0.02	0.1	2.5	PR 84.8		None	PR 10-175
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	Dicofol	0.208	µg/L	=	0.01	0.1	0.2	PR 104		None	PR 40-135
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	Dieldrin	0.231	µg/L	=	0.005	0.01	0.3	PR 77.0		None	PR 48-121
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Dimethoate	2.35	µg/L	=	0.08	0.1	2.5	PR 94.0		None	PR 68-202
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Disulfoton	2.42	µg/L	=	0.02	0.05	2.5	PR 96.8		None	PR 47-117
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8321A	Diuron	1	µg/L	=	0.2	0.4	1.07	PR 93.5		None	PR 52-136
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	Endosulfan I	0.22	µg/L	=	0.005	0.01	0.3	PR 73.3		None	PR 50-131
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	Endosulfan II	0.233	µg/L	=	0.004	0.01	0.3	PR 77.7		None	PR 55-128
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	Endrin	0.229	µg/L	=	0.007	0.01	0.3	PR 76.3		None	PR 24-143
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	HCH, alpha	0.23	µg/L	=	0.005	0.01	0.3	PR 76.7		None	PR 33-111
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	HCH, beta	0.223	µg/L	=	0.008	0.01	0.3	PR 74.3		None	PR 49-119
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	HCH, delta	0.26	µg/L	=	0.005	0.01	0.3	PR 86.7		None	PR 12-97
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	HCH, gamma	0.229	µg/L	=	0.005	0.01	0.3	PR 76.3		None	PR 40-114
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	Heptachlor	0.216	µg/L	=	0.008	0.01	0.3	PR 72.0		None	PR 24-124
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	Heptachlor epoxide	0.224	µg/L	=	0.007	0.01	0.3	PR 74.7		None	PR 58-109
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8321A	Linuron	1.12	µg/L	=	0.2	0.4	1.07	PR 105		None	PR 49-144
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Malathion	2.6	µg/L	=	0.05	0.1	2.5	PR 104		None	PR 47-125
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Methamidophos	0.205	µg/L	=	0.08	0.2	0.5	PR 41.0		None	PR 25-136
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Methidathion	2.33	µg/L	=	0.04	0.1	2.5	PR 93.2		None	PR 50-150
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8321A	Methiocarb	1.06	µg/L	=	0.2	0.4	1.07	PR 99.1		None	PR 35-142

Adminsitrative Record
Page 17101

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8321A	Methomyl	1.01	µg/L	=	0.05	0.07	1.07	PR 94.4		None	PR 23-152
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	Methoxychlor	0.244	µg/L	=	0.008	0.01	0.3	PR 81.3		None	PR 30-163
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8321A	Oxamyl	1.02	µg/L	=	0.2	0.4	1.07	PR 95.3		None	PR 10-117
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Parathion, Methyl	2.29	µg/L	=	0.075	0.1	2.5	PR 91.6		None	PR 55-164
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Phorate	2.36	µg/L	=	0.07	0.1	2.5	PR 94.4		None	PR 44-117
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Phosmet	2.42	µg/L	=	0.06	0.2	2.5	PR 96.8		None	PR 50-150
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 619	Simazine	2.41	µg/L	=	0.08	0.5	2.5	PR 96.4		None	PR 21-179
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	58.3	%	=	NA	NA	100			None	PR 15-98
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	114	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	94.8	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 619	Tributylphosphate (Surrogate)	94.8	%	=	NA	NA	100			None	PR 62-145
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	65.2	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Trifluralin	2.35	µg/L	=	0.04	0.05	2.5	PR 94.0		None	PR 40-148
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	91.6	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	91.6	%	=	NA	NA	100			None	PR 54-144
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	72.6	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	01/23/09	00:00	EPA 549.2M	Paraquat dichloride	12.4	µg/L	=	0.21	0.5	12	PR 103		None	PR 50-141
Laboratory QA Samples	LCS	1.00	01/30/09	00:00	EPA 547M	Glyphosate	51.91	µg/L	=	4	5	50	PR 104		None	PR 72-131
Laboratory QA Samples	LCS	2.00	01/30/09	00:00	EPA 547M	Glyphosate	50.9	µg/L	=	4	5	50	PR 102	RPD 1.98	None	PR 72-131 RPD <25
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8321A	Aldicarb	1.09	µg/L	=	0.2	0.4	1.07	PR 102		None	PR 31-133
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	Aldrin	0.237	µg/L	=	0.009	0.01	0.3	PR 79.0		None	PR 11-138
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 619	Atrazine	2.2	µg/L	=	0.07	0.5	2.5	PR 88.0		None	PR 39-156
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Azinphos methyl	2.32	µg/L	=	0.02	0.1	2.5	PR 92.8		None	PR 36-189
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8321A	Carbaryl	0.991	µg/L	=	0.05	0.07	1.07	PR 92.6		None	PR 44-133
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8321A	Carbofuran	1.21	µg/L	=	0.05	0.07	1.07	PR 113		None	PR 36-165

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	Chlordane	0.544	µg/L	=	0.007	0.01	0.6	PR 90.7		None	PR 44-152
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Chlorpyrifos	4.2	µg/L	=	0.0026	0.015	5	PR 84.0		None	PR 61-125
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 619	Cyanazine	4.2	µg/L	=	0.09	0.5	2.5	PR 168		None	PR 22-172
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	DDD (p,p')	0.313	µg/L	=	0.003	0.01	0.3	PR 104		None	PR 38-135
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	DDE (p,p')	0.274	µg/L	=	0.004	0.01	0.3	PR 91.3		None	PR 21-134
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	DDT (p,p')	0.183	µg/L	=	0.007	0.01	0.3	PR 61.0		None	PR 18-145
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	81.7	%	=	NA	NA	100			None	PR 16-146
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Demeton-s	2.04	µg/L	=	0.01	0.1	2.5	PR 81.6		None	PR 40-125
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Diazinon	2.04	µg/L	=	0.004	0.02	2.5	PR 81.6		None	PR 57-130
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Dichlorvos	2.1	µg/L	=	0.02	0.1	2.5	PR 84.0		None	PR 10-175
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	Dicofol	0.0933	µg/L	=	0.01	0.1	0.2	PR 46.6		None	PR 40-135
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	Dieldrin	0.268	µg/L	=	0.005	0.01	0.3	PR 89.3		None	PR 48-121
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Dimethoate	2.07	µg/L	=	0.08	0.1	2.5	PR 82.8		None	PR 68-202
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Disulfoton	0.0545	µg/L	=	0.02	0.05	2.5	PR 2.2		LCS is outside of acceptance limit but MS/MSD are within acceptance limits.	PR 47-117
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8321A	Diuron	0.894	µg/L	=	0.2	0.4	1.07	PR 83.6		None	PR 52-136
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	Endosulfan I	0.277	µg/L	=	0.005	0.01	0.3	PR 92.3		None	PR 50-131
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	Endosulfan II	0.283	µg/L	=	0.004	0.01	0.3	PR 94.3		None	PR 55-128
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	Endrin	0.309	µg/L	=	0.007	0.01	0.3	PR 103		None	PR 24-143
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 547M	Glyphosate	50.54	µg/L	=	4	5	50	PR 101		None	PR 72-131
Laboratory QA Samples	LCS	2.00	02/13/09	00:00	EPA 547M	Glyphosate	50.84	µg/L	=	4	5	50	PR 102	RPD 0.6	None	PR 72-131 RPD <25
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	HCH, alpha	0.297	µg/L	=	0.005	0.01	0.3	PR 99.0		None	PR 33-111
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	HCH, beta	0.274	µg/L	=	0.008	0.01	0.3	PR 91.3		None	PR 49-119
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	HCH, delta	0.322	µg/L	=	0.005	0.01	0.3	PR 107		LCS is outside of acceptance limit but MS/MSD are within acceptance limits.	PR 12-97

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	HCH, gamma	0.303	µg/L	=	0.005	0.01	0.3	PR 101		None	PR 40-114
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	Heptachlor	0.252	µg/L	=	0.008	0.01	0.3	PR 84.0		None	PR 24-124
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	Heptachlor epoxide	0.28	µg/L	=	0.007	0.01	0.3	PR 93.3		None	PR 58-109
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8321A	Linuron	1.08	µg/L	=	0.2	0.4	1.07	PR 101		None	PR 49-144
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Malathion	2.67	µg/L	=	0.05	0.1	2.5	PR 107		None	PR 47-125
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Methamidophos	0.353	µg/L	=	0.08	0.2	0.5	PR 70.6		None	PR 25-136
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Methidathion	2.32	µg/L	=	0.04	0.1	2.5	PR 92.8		None	PR 50-150
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8321A	Methiocarb	1.24	µg/L	=	0.2	0.4	1.07	PR 116		None	PR 35-142
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8321A	Methomyl	0.916	µg/L	=	0.05	0.07	1.07	PR 85.6		None	PR 23-152
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	Methoxychlor	0.202	µg/L	=	0.008	0.01	0.3	PR 67.3		None	PR 30-163
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8321A	Oxamyl	0.706	µg/L	=	0.2	0.4	1.07	PR 66.0		None	PR 10-117
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 549.2M	Paraquat dichloride	12	µg/L	=	0.21	0.5	12	PR 100		None	PR 50-141
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Parathion, Methyl	2.23	µg/L	=	0.075	0.1	2.5	PR 89.2		None	PR 55-164
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Phorate	0.379	µg/L	=	0.07	0.1	2.5	PR 15.2		LCS is outside of acceptance limit but MS/MSD are within acceptance limits.	PR 44-117
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Phosmet	1.86	µg/L	=	0.06	0.2	2.5	PR 74.4		None	PR 50-150
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 619	Simazine	2.24	µg/L	=	0.08	0.5	2.5	PR 89.6		None	PR 21-179
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	75.7	%	=	NA	NA	100			None	PR 15-98
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	80.5	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	87.2	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 619	Tributylphosphate (Surrogate)	87.2	%	=	NA	NA	100			None	PR 62-145
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	110	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Trifluralin	1.7	µg/L	=	0.04	0.05	2.5	PR 68.0		None	PR 40-148
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	91.6	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	91.6	%	=	NA	NA	100			None	PR 54-144

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	115	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8321A	Aldicarb	0.713	µg/L	=	0.2	0.4	1.07	PR 66.6		None	PR 31-133
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	Aldrin	0.229	µg/L	=	0.009	0.01	0.3	PR 76.3		None	PR 11-138
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 619	Atrazine	1.9	µg/L	=	0.07	0.5	2.5	PR 76.0		None	PR 39-156
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8141A	Azinphos methyl	1.75	µg/L	=	0.02	0.1	2.5	PR 70.0		None	PR 36-189
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8321A	Carbaryl	0.963	µg/L	=	0.05	0.07	1.07	PR 90.0		None	PR 44-133
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8321A	Carbofuran	0.947	µg/L	=	0.05	0.07	1.07	PR 88.5		None	PR 36-165
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	Chlordane	0.273	µg/L	=	0.007	0.01	0.6	PR 45.5		None	PR 44-152
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8141A	Chlorpyrifos	4.03	µg/L	=	0.0026	0.015	5	PR 80.6		None	PR 61-125
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 619	Cyanazine	1.93	µg/L	=	0.09	0.5	2.5	PR 77.2		None	PR 22-172
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	DDD (p,p')	0.284	µg/L	=	0.003	0.01	0.3	PR 94.7		None	PR 38-135
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	DDE (p,p')	0.29	µg/L	=	0.004	0.01	0.3	PR 96.7		None	PR 21-134
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	DDT (p,p')	0.301	µg/L	=	0.007	0.01	0.3	PR 100		None	PR 18-145
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	70	%	=	NA	NA	100			None	PR 16-146
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8141A	Demeton-s	0.548	µg/L	=	0.01	0.1	0.75	PR 73.1		None	PR 40-125
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8141A	Diazinon	1.98	µg/L	=	0.004	0.02	2.5	PR 79.2		None	PR 57-130
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8141A	Dichlorvos	1.65	µg/L	=	0.02	0.1	2.5	PR 66.0		None	PR 10-175
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	Dicofol	0.207	µg/L	=	0.01	0.1	0.2	PR 103		None	PR 40-135
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	Dieldrin	0.292	µg/L	=	0.005	0.01	0.3	PR 97.3		None	PR 48-121
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8141A	Dimethoate	2.13	µg/L	=	0.08	0.1	2.5	PR 85.2		None	PR 68-202
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8141A	Disulfoton	1.85	µg/L	=	0.02	0.05	2.5	PR 74.0		None	PR 47-117
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8321A	Diuron	0.928	µg/L	=	0.2	0.4	1.07	PR 86.7		None	PR 52-136
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	Endosulfan I	0.28	µg/L	=	0.005	0.01	0.3	PR 93.3		None	PR 50-131
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	Endosulfan II	0.289	µg/L	=	0.004	0.01	0.3	PR 96.3		None	PR 55-128
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	Endrin	0.308	µg/L	=	0.007	0.01	0.3	PR 103		None	PR 24-143

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	HCH, alpha	0.293	µg/L	=	0.005	0.01	0.3	PR 97.7		None	PR 33-111
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	HCH, beta	0.277	µg/L	=	0.008	0.01	0.3	PR 92.3		None	PR 49-119
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	HCH, delta	0.286	µg/L	=	0.005	0.01	0.3	PR 95.3		None	PR 12-97
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	HCH, gamma	0.301	µg/L	=	0.005	0.01	0.3	PR 100		None	PR 40-114
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	Heptachlor	0.232	µg/L	=	0.008	0.01	0.3	PR 77.3		None	PR 24-124
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	Heptachlor epoxide	0.288	µg/L	=	0.007	0.01	0.3	PR 96.0		None	PR 58-109
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8321A	Linuron	0.939	µg/L	=	0.2	0.4	1.07	PR 87.8		None	PR 49-144
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8141A	Malathion	1.99	µg/L	=	0.05	0.1	2.5	PR 79.6		None	PR 47-125
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8141A	Methidathion	1.86	µg/L	=	0.04	0.1	2.5	PR 74.4		None	PR 50-150
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8321A	Methiocarb	0.812	µg/L	=	0.2	0.4	1.07	PR 75.9		None	PR 35-142
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8321A	Methomyl	0.689	µg/L	=	0.05	0.07	1.07	PR 64.4		None	PR 23-152
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	Methoxychlor	0.286	µg/L	=	0.008	0.01	0.3	PR 95.3		None	PR 30-163
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8321A	Oxamyl	0.638	µg/L	=	0.2	0.4	1.07	PR 59.6		None	PR 10-117
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8141A	Parathion, Methyl	1.94	µg/L	=	0.075	0.1	2.5	PR 77.6		None	PR 55-164
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8141A	Phorate	1.88	µg/L	=	0.07	0.1	2.5	PR 75.2		None	PR 44-117
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8141A	Phosmet	0.461	µg/L	=	0.06	0.2	2.5	PR 18.4		LCS is outside of acceptance limits.	PR 50-150
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 619	Simazine	1.89	µg/L	=	0.08	0.5	2.5	PR 75.6		None	PR 21-179
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	68.3	%	=	NA	NA	100			None	PR 15-98
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	90.2	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	84.4	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 619	Tributylphosphate (Surrogate)	84.4	%	=	NA	NA	100			None	PR 62-145
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8141A	Trifluralin	1.68	µg/L	=	0.04	0.05	2.5	PR 67.2		None	PR 40-148
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	80	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	03/20/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	80	%	=	NA	NA	100			None	PR 54-144
Laboratory QA Samples	LCS	2.00	03/22/09	00:00	EPA 547M	Glyphosate	53.56	µg/L	=	4	5	50	PR 107	RPD 0.66	None	PR 72-131 RPD <25

Adminsitrative Record
Page 17106

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	03/22/09	00:00	EPA 547M	Glyphosate	53.92	µg/L	=	4	5	50	PR 108		None	PR 72-131
Laboratory QA Samples	LCS	1.00	03/23/09	00:00	EPA 8141A	Methamidophos	0.308	µg/L	=	0.08	0.2	0.5	PR 61.6		None	PR 25-136
Laboratory QA Samples	LCS	1.00	03/23/09	00:00	EPA 549.2M	Paraquat dichloride	11.8	µg/L	=	0.21	0.5	12	PR 98.3		None	PR 50-141
Laboratory QA Samples	LCS	1.00	03/23/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	92	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	03/23/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	94.4	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	04/27/09	00:00	EPA 8321A	Aldicarb	0.984	µg/L	=	0.2	0.4	1.07	PR 92.0		None	PR 31-133
Laboratory QA Samples	LCS	1.00	04/27/09	00:00	EPA 8321A	Carbaryl	0.711	µg/L	=	0.05	0.07	1.07	PR 66.4		None	PR 44-133
Laboratory QA Samples	LCS	1.00	04/27/09	00:00	EPA 8321A	Carbofuran	1.06	µg/L	=	0.05	0.07	1.07	PR 99.1		None	PR 36-165
Laboratory QA Samples	LCS	1.00	04/27/09	00:00	EPA 8321A	Diuron	1.08	µg/L	=	0.2	0.4	1.07	PR 101		None	PR 52-136
Laboratory QA Samples	LCS	1.00	04/27/09	00:00	EPA 8321A	Linuron	1.19	µg/L	=	0.2	0.4	1.07	PR 111		None	PR 49-144
Laboratory QA Samples	LCS	1.00	04/27/09	00:00	EPA 8141A	Methamidophos	0.324	µg/L	=	0.08	0.2	0.5	PR 64.8		None	PR 25-136
Laboratory QA Samples	LCS	1.00	04/27/09	00:00	EPA 8321A	Methiocarb	0.686	µg/L	=	0.2	0.4	1.07	PR 64.1		None	PR 35-142
Laboratory QA Samples	LCS	1.00	04/27/09	00:00	EPA 8321A	Methomyl	1.09	µg/L	=	0.05	0.07	1.07	PR 102		None	PR 23-152
Laboratory QA Samples	LCS	1.00	04/27/09	00:00	EPA 8321A	Oxamyl	0.741	µg/L	=	0.2	0.4	1.07	PR 69.3		None	PR 10-117
Laboratory QA Samples	LCS	1.00	04/27/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	119	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	1.00	04/27/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	71.4	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	04/27/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	78.2	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	Aldrin	0.196	µg/L	=	0.009	0.01	0.3	PR 65.3		None	PR 11-138
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 619	Atrazine	2.08	µg/L	=	0.07	0.5	2.5	PR 83.2		None	PR 39-156
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8141A	Azinphos methyl	2.1	µg/L	=	0.02	0.1	2.5	PR 84.0		None	PR 36-189
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	Chlordane	0.274	µg/L	=	0.007	0.01	0.6	PR 45.7		None	PR 44-152
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8141A	Chlorpyrifos	4.45	µg/L	=	0.0026	0.015	5	PR 89.0		None	PR 61-125
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 619	Cyanazine	1.86	µg/L	=	0.09	0.5	2.5	PR 74.4		None	PR 22-172
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	DDD (p,p')	0.275	µg/L	=	0.003	0.01	0.3	PR 91.7		None	PR 38-135
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	DDE (p,p')	0.27	µg/L	=	0.004	0.01	0.3	PR 90.0		None	PR 21-134

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	DDT (p,p')	0.337	µg/L	=	0.007	0.01	0.3	PR 112		None	PR 18-145
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	80.3	%	=	NA	NA	100			None	PR 16-146
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8141A	Demeton-s	0.688	µg/L	=	0.01	0.1	0.75	PR 91.7		None	PR 40-125
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8141A	Diazinon	2.17	µg/L	=	0.004	0.02	2.5	PR 86.8		None	PR 57-130
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8141A	Dichlorvos	1.91	µg/L	=	0.02	0.1	2.5	PR 76.4		None	PR 10-175
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	Dicofol	0.154	µg/L	=	0.01	0.1	0.2	PR 77.0		None	PR 40-135
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	Dieldrin	0.281	µg/L	=	0.005	0.01	0.3	PR 93.7		None	PR 48-121
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8141A	Dimethoate	2.14	µg/L	=	0.08	0.1	2.5	PR 85.6		None	PR 68-202
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8141A	Disulfoton	2.05	µg/L	=	0.02	0.05	2.5	PR 82.0		None	PR 47-117
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	Endosulfan I	0.287	µg/L	=	0.005	0.01	0.3	PR 95.7		None	PR 50-131
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	Endosulfan II	0.292	µg/L	=	0.004	0.01	0.3	PR 97.3		None	PR 55-128
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	Endrin	0.297	µg/L	=	0.007	0.01	0.3	PR 99.0		None	PR 24-143
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	HCH, alpha	0.289	µg/L	=	0.005	0.01	0.3	PR 96.3		None	PR 33-111
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	HCH, beta	0.309	µg/L	=	0.008	0.01	0.3	PR 103		None	PR 49-119
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	HCH, delta	0.226	µg/L	=	0.005	0.01	0.3	PR 75.3		None	PR 12-97
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	HCH, gamma	0.301	µg/L	=	0.005	0.01	0.3	PR 100		None	PR 40-114
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	Heptachlor	0.219	µg/L	=	0.008	0.01	0.3	PR 73.0		None	PR 24-124
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	Heptachlor epoxide	0.289	µg/L	=	0.007	0.01	0.3	PR 96.3		None	PR 58-109
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8141A	Malathion	4.45	µg/L	=	0.05	0.1	5	PR 89.0		None	PR 47-125
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8141A	Methidathion	2.16	µg/L	=	0.04	0.1	2.5	PR 86.4		None	PR 50-150
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	Methoxychlor	0.365	µg/L	=	0.008	0.01	0.3	PR 122		None	PR 30-163
Laboratory QA Samples	LCS	2.00	04/28/09	00:00	EPA 549.2M	Paraquat dichloride	10.9	µg/L	=	0.21	0.5	12	PR 90.8	RPD 2.8	None	PR 50-141 RPD <25
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 549.2M	Paraquat dichloride	10.6	µg/L	=	0.21	0.5	12	PR 88.3		None	PR 50-141
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8141A	Parathion, Methyl	2.21	µg/L	=	0.075	0.1	2.5	PR 88.4		None	PR 55-164
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8141A	Phorate	2.3	µg/L	=	0.07	0.1	2.5	PR 92.0		None	PR 44-117

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8141A	Phosmet	1.44	µg/L	=	0.06	0.2	2.5	PR 57.6		None	PR 50-150
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 619	Simazine	1.8	µg/L	=	0.08	0.5	2.5	PR 72.0		None	PR 21-179
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	71.3	%	=	NA	NA	100			None	PR 15-98
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8081A	Toxaphene	0.882	µg/L	=	0.38	0.5	1	PR 88.2		None	PR 23-140
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	88.4	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 619	Tributylphosphate (Surrogate)	88.4	%	=	NA	NA	100			None	PR 62-145
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8141A	Trifluralin	1.98	µg/L	=	0.04	0.05	2.5	PR 79.2		None	PR 40-148
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	93.2	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	93.2	%	=	NA	NA	100			None	PR 54-144
Laboratory QA Samples	LCS	1.00	04/30/09	00:00	EPA 547M	Glyphosate	51.45	µg/L	=	4	5	50	PR 103		None	PR 72-131
Laboratory QA Samples	LCS	2.00	04/30/09	00:00	EPA 547M	Glyphosate	51.5	µg/L	=	4	5	50	PR 103	RPD 0.11	None	PR 72-131 RPD <25
Laboratory QA Samples	LCS	1.00	05/21/09	00:00	EPA 8321A	Aldicarb	0.817	µg/L	=	0.2	0.4	1.07	PR 76.4		None	PR 31-133
Laboratory QA Samples	LCS	1.00	05/21/09	00:00	EPA 8321A	Carbaryl	0.829	µg/L	=	0.05	0.07	1.07	PR 77.5		None	PR 44-133
Laboratory QA Samples	LCS	1.00	05/21/09	00:00	EPA 8321A	Carbofuran	0.976	µg/L	=	0.05	0.07	1.07	PR 91.2		None	PR 36-165
Laboratory QA Samples	LCS	1.00	05/21/09	00:00	EPA 8321A	Diuron	0.952	µg/L	=	0.2	0.4	1.07	PR 89.0		None	PR 52-136
Laboratory QA Samples	LCS	1.00	05/21/09	00:00	EPA 8321A	Linuron	0.975	µg/L	=	0.2	0.4	1.07	PR 91.1		None	PR 49-144
Laboratory QA Samples	LCS	1.00	05/21/09	00:00	EPA 8141A	Methamidophos	0.44	µg/L	=	0.08	0.2	0.5	PR 88.0		None	PR 25-136
Laboratory QA Samples	LCS	1.00	05/21/09	00:00	EPA 8321A	Methiocarb	0.843	µg/L	=	0.2	0.4	1.07	PR 78.8		None	PR 35-142
Laboratory QA Samples	LCS	1.00	05/21/09	00:00	EPA 8321A	Methomyl	0.801	µg/L	=	0.05	0.07	1.07	PR 74.9		None	PR 23-152
Laboratory QA Samples	LCS	1.00	05/21/09	00:00	EPA 8321A	Oxamyl	0.531	µg/L	=	0.2	0.4	1.07	PR 49.6		None	PR 10-117
Laboratory QA Samples	LCS	1.00	05/21/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	93.2	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	1.00	05/21/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	90	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	05/21/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	102	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 619	Atrazine	1.78	µg/L	=	0.07	0.5	2.5	PR 71.2		None	PR 39-156
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 8141A	Azinphos methyl	2.26	µg/L	=	0.02	0.1	2.5	PR 90.4		None	PR 36-189

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 8141A	Chlorpyrifos	3.83	µg/L	=	0.0026	0.015	5	PR 76.6		None	PR 61-125
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 619	Cyanazine	1.76	µg/L	=	0.09	0.5	2.5	PR 70.4		None	PR 22-172
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 8141A	Demeton-s	0.568	µg/L	=	0.01	0.1	0.75	PR 75.7		None	PR 40-125
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 8141A	Diazinon	2.07	µg/L	=	0.004	0.02	2.5	PR 82.8		None	PR 57-130
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 8141A	Dichlorvos	1.17	µg/L	=	0.02	0.1	2.5	PR 46.8		None	PR 10-175
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 8141A	Dimethoate	1.88	µg/L	=	0.08	0.1	2.5	PR 75.2		None	PR 68-202
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 8141A	Disulfoton	2.03	µg/L	=	0.02	0.05	2.5	PR 81.2		None	PR 47-117
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 8141A	Malathion	2.77	µg/L	=	0.05	0.1	2.5	PR 111		None	PR 47-125
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 8141A	Methidathion	2.4	µg/L	=	0.04	0.1	2.5	PR 96.0		None	PR 50-150
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 8141A	Parathion, Methyl	2.07	µg/L	=	0.075	0.1	2.5	PR 82.8		None	PR 55-164
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 8141A	Phorate	2.13	µg/L	=	0.07	0.1	2.5	PR 85.2		None	PR 44-117
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 8141A	Phosmet	1.64	µg/L	=	0.06	0.2	2.5	PR 65.6		None	PR 50-150
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 619	Simazine	1.8	µg/L	=	0.08	0.5	2.5	PR 72.0		None	PR 21-179
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	82.4	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 619	Tributylphosphate (Surrogate)	82.4	%	=	NA	NA	100			None	PR 62-145
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 8141A	Trifluralin	1.62	µg/L	=	0.04	0.05	2.5	PR 64.8		None	PR 40-148
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	78	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	78	%	=	NA	NA	100			None	PR 54-144
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 619	Atrazine	1.64	µg/L	=	0.07	0.5	2.5	PR 65.6		None	PR 39-156
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 8141A	Azinphos methyl	1.26	µg/L	=	0.02	0.1	2.5	PR 50.4		None	PR 36-189
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 8141A	Chlorpyrifos	3.36	µg/L	=	0.0026	0.015	5	PR 67.2		None	PR 61-125
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 619	Cyanazine	1.42	µg/L	=	0.09	0.5	2.5	PR 56.8		None	PR 22-172
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 8141A	Demeton-s	0.507	µg/L	=	0.01	0.1	0.75	PR 67.6		None	PR 40-125
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 8141A	Diazinon	1.68	µg/L	=	0.004	0.02	2.5	PR 67.2		None	PR 57-130
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 8141A	Dichlorvos	1.61	µg/L	=	0.02	0.1	2.5	PR 64.4		None	PR 10-175

Adminsitrative Record
Page 17110

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 8141A	Dimethoate	1.93	µg/L	=	0.08	0.1	2.5	PR 77.2		None	PR 68-202
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 8141A	Disulfoton	1.58	µg/L	=	0.02	0.05	2.5	PR 63.2		None	PR 47-117
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 8141A	Malathion	1.68	µg/L	=	0.05	0.1	2.5	PR 67.2		None	PR 47-125
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 8141A	Methidathion	1.58	µg/L	=	0.04	0.1	2.5	PR 63.2		None	PR 50-150
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 8141A	Parathion, Methyl	1.6	µg/L	=	0.075	0.1	2.5	PR 64.0		None	PR 55-164
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 8141A	Phorate	1.64	µg/L	=	0.07	0.1	2.5	PR 65.6		None	PR 44-117
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 8141A	Phosmet	1.54	µg/L	=	0.06	0.2	2.5	PR 61.6		None	PR 50-150
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 619	Simazine	1.6	µg/L	=	0.08	0.5	2.5	PR 64.0		None	PR 21-179
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	68.4	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 619	Tributylphosphate (Surrogate)	68.4	%	=	NA	NA	100			None	PR 62-145
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 8141A	Trifluralin	1.54	µg/L	=	0.04	0.05	2.5	PR 61.6		None	PR 40-148
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	59.6	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	59.6	%	=	NA	NA	100			None	PR 54-144
Laboratory QA Samples	LCS	1.00	06/19/09	00:00	EPA 8321A	Aldicarb	0.836	µg/L	=	0.2	0.4	1.07	PR 78.1		None	PR 31-133
Laboratory QA Samples	LCS	1.00	06/19/09	00:00	EPA 8321A	Carbaryl	0.809	µg/L	=	0.05	0.07	1.07	PR 75.6		None	PR 44-133
Laboratory QA Samples	LCS	1.00	06/19/09	00:00	EPA 8321A	Carbofuran	0.965	µg/L	=	0.05	0.07	1.07	PR 90.2		None	PR 36-165
Laboratory QA Samples	LCS	1.00	06/19/09	00:00	EPA 8321A	Diuron	0.926	µg/L	=	0.2	0.4	1.07	PR 86.5		None	PR 52-136
Laboratory QA Samples	LCS	1.00	06/19/09	00:00	EPA 8321A	Linuron	0.973	µg/L	=	0.2	0.4	1.07	PR 90.9		None	PR 49-144
Laboratory QA Samples	LCS	1.00	06/19/09	00:00	EPA 8141A	Methamidophos	0.612	µg/L	=	0.08	0.2	2	PR 30.6		Surrogate recovery is outside of control limits.	PR 25-136
Laboratory QA Samples	LCS	1.00	06/19/09	00:00	EPA 8321A	Methiocarb	0.801	µg/L	=	0.2	0.4	1.07	PR 74.9		None	PR 35-142
Laboratory QA Samples	LCS	1.00	06/19/09	00:00	EPA 8321A	Methomyl	0.72	µg/L	=	0.05	0.07	1.07	PR 67.3		None	PR 23-152
Laboratory QA Samples	LCS	1.00	06/19/09	00:00	EPA 8321A	Oxamyl	0.641	µg/L	=	0.2	0.4	1.07	PR 59.9		None	PR 10-117
Laboratory QA Samples	LCS	1.00	06/19/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	82.7	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	1.00	06/19/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	61.5	%	=	NA	NA	100			None	PR 60-150

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	06/19/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	55	%	=	NA	NA	100			Surrogate recovery is outside of control limits.	PR 56-129
Laboratory QA Samples	LCS	1.00	07/23/09	00:00	EPA 8321A	Aldicarb	0.764	µg/L	=	0.2	0.4	1.07	PR 71.4		None	PR 31-133
Laboratory QA Samples	LCS	1.00	07/23/09	00:00	EPA 8321A	Carbaryl	0.663	µg/L	=	0.05	0.07	1.07	PR 62.0		None	PR 44-133
Laboratory QA Samples	LCS	1.00	07/23/09	00:00	EPA 8321A	Carbofuran	0.816	µg/L	=	0.05	0.07	1.07	PR 76.3		None	PR 36-165
Laboratory QA Samples	LCS	1.00	07/23/09	00:00	EPA 8321A	Diuron	0.928	µg/L	=	0.2	0.4	1.07	PR 86.7		None	PR 52-136
Laboratory QA Samples	LCS	1.00	07/23/09	00:00	EPA 8321A	Linuron	0.917	µg/L	=	0.2	0.4	1.07	PR 85.7		None	PR 49-144
Laboratory QA Samples	LCS	1.00	07/23/09	00:00	EPA 8321A	Methiocarb	0.535	µg/L	=	0.2	0.4	1.07	PR 50.0		None	PR 35-142
Laboratory QA Samples	LCS	1.00	07/23/09	00:00	EPA 8321A	Methomyl	0.757	µg/L	=	0.05	0.07	1.07	PR 70.7		None	PR 23-152
Laboratory QA Samples	LCS	1.00	07/23/09	00:00	EPA 8321A	Oxamyl	0.461	µg/L	=	0.2	0.4	1.07	PR 43.1		None	PR 10-117
Laboratory QA Samples	LCS	1.00	07/23/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	83.5	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	1.00	07/27/09	00:00	EPA 8141A	Methamidophos	0.356	µg/L	=	0.08	0.2	0.5	PR 71.2		None	PR 25-136
Laboratory QA Samples	LCS	1.00	07/27/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	80	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	07/27/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	85	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 619	Atrazine	2.25	µg/L	=	0.07	0.5	2.5	PR 90.0		None	PR 39-156
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 8141A	Azinphos methyl	2.59	µg/L	=	0.02	0.1	2.5	PR 104		None	PR 36-189
Laboratory QA Samples	LCS	2.00	07/28/09	00:00	EPA 8321A	Carbofuran	0.968	µg/L	=	0.05	0.07	1.07	PR 90.5	RPD 0.52	None	PR 36-165 RPD <25
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 8321A	Carbofuran	0.973	µg/L	=	0.05	0.07	1.07	PR 90.9		None	PR 36-165
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 8141A	Chlorpyrifos	4.03	µg/L	=	0.0026	0.015	5	PR 80.6		None	PR 61-125
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 619	Cyanazine	2.24	µg/L	=	0.09	0.5	2.5	PR 89.6		None	PR 22-172
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 8141A	Demeton-s	0.658	µg/L	=	0.01	0.1	0.75	PR 87.7		None	PR 40-125
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 8141A	Diazinon	2.32	µg/L	=	0.004	0.02	2.5	PR 92.8		None	PR 57-130
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 8141A	Dichlorvos	1.83	µg/L	=	0.02	0.1	2.5	PR 73.2		None	PR 10-175
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 8141A	Dimethoate	2.32	µg/L	=	0.08	0.1	2.5	PR 92.8		None	PR 68-202
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 8141A	Disulfoton	2	µg/L	=	0.02	0.05	2.5	PR 80.0		None	PR 47-117

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 8141A	Malathion	2.32	µg/L	=	0.05	0.1	2.5	PR 92.8		None	PR 47-125
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 8141A	Methidathion	2.39	µg/L	=	0.04	0.1	2.5	PR 95.6		None	PR 50-150
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 8141A	Parathion, Methyl	2.51	µg/L	=	0.075	0.1	2.5	PR 100		None	PR 55-164
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 8141A	Phorate	2.13	µg/L	=	0.07	0.1	2.5	PR 85.2		None	PR 44-117
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 8141A	Phosmet	0.144	µg/L	=	0.06	0.2	0.25	PR 57.6		None	PR 50-150
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 619	Simazine	2.65	µg/L	=	0.08	0.5	2.5	PR 106		None	PR 21-179
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	94.7	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	2.00	07/28/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	92.5	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	96	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 619	Tributylphosphate (Surrogate)	96	%	=	NA	NA	100			None	PR 62-145
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 8141A	Trifluralin	1.85	µg/L	=	0.036	0.05	2.5	PR 74.0		None	PR 40-148
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	89.6	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	07/28/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	89.6	%	=	NA	NA	100			None	PR 54-144
Laboratory QA Samples	LCS	1.00	08/21/09	00:00	EPA 8321A	Aldicarb	0.835	µg/L	=	0.2	0.4	1.07	PR 78.0		None	PR 31-133
Laboratory QA Samples	LCS	1.00	08/21/09	00:00	EPA 8321A	Carbaryl	0.894	µg/L	=	0.05	0.07	1.07	PR 83.6		None	PR 44-133
Laboratory QA Samples	LCS	1.00	08/21/09	00:00	EPA 8321A	Carbofuran	1.15	µg/L	=	0.05	0.07	1.07	PR 107		None	PR 36-165
Laboratory QA Samples	LCS	1.00	08/21/09	00:00	EPA 8321A	Diuron	1.01	µg/L	=	0.2	0.4	1.07	PR 94.4		None	PR 52-136
Laboratory QA Samples	LCS	1.00	08/21/09	00:00	EPA 8321A	Linuron	0.982	µg/L	=	0.2	0.4	1.07	PR 91.8		None	PR 49-144
Laboratory QA Samples	LCS	1.00	08/21/09	00:00	EPA 8141A	Methamidophos	0.294	µg/L	=	0.08	0.2	0.5	PR 58.8		None	PR 25-136
Laboratory QA Samples	LCS	1.00	08/21/09	00:00	EPA 8321A	Methiocarb	0.856	µg/L	=	0.2	0.4	1.07	PR 80.0		None	PR 35-142
Laboratory QA Samples	LCS	1.00	08/21/09	00:00	EPA 8321A	Methomyl	0.817	µg/L	=	0.05	0.07	1.07	PR 76.4		None	PR 23-152
Laboratory QA Samples	LCS	1.00	08/21/09	00:00	EPA 8321A	Oxamyl	0.656	µg/L	=	0.2	0.4	1.07	PR 61.3		None	PR 10-117
Laboratory QA Samples	LCS	1.00	08/21/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	87.2	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	1.00	08/21/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	118	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	08/21/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	128	%	=	NA	NA	100			None	PR 56-129

Adminsitrative Record
Page 17113

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 619	Atrazine	2.36	µg/L	=	0.07	0.5	2.5	PR 94.4		None	PR 39-156
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 8141A	Azinphos methyl	2.2	µg/L	=	0.02	0.1	2.5	PR 88.0		None	PR 36-189
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 8141A	Chlorpyrifos	5.1	µg/L	=	0.0026	0.015	5	PR 102		None	PR 61-125
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 619	Cyanazine	2.89	µg/L	=	0.09	0.5	2.5	PR 116		None	PR 22-172
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 8141A	Demeton-s	0.434	µg/L	=	0.01	0.1	0.75	PR 57.9		None	PR 40-125
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 8141A	Diazinon	2.4	µg/L	=	0.004	0.02	2.5	PR 96.0		None	PR 57-130
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 8141A	Dichlorvos	2	µg/L	=	0.02	0.1	2.5	PR 80.0		None	PR 10-175
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 8141A	Dimethoate	2.18	µg/L	=	0.08	0.1	2.5	PR 87.2		None	PR 68-202
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 8141A	Disulfoton	1.62	µg/L	=	0.02	0.05	2.5	PR 64.8		None	PR 47-117
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 8141A	Malathion	2.46	µg/L	=	0.05	0.1	2.5	PR 98.4		None	PR 47-125
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 8141A	Methidathion	2.57	µg/L	=	0.04	0.1	2.5	PR 103		None	PR 50-150
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 8141A	Parathion, Methyl	2.3	µg/L	=	0.075	0.1	2.5	PR 92.0		None	PR 55-164
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 8141A	Phorate	2.16	µg/L	=	0.07	0.1	2.5	PR 86.4		None	PR 44-117
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 8141A	Phosmet	2.06	µg/L	=	0.06	0.2	2.5	PR 82.4		None	PR 50-150
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 619	Simazine	2.34	µg/L	=	0.08	0.5	2.5	PR 93.6		None	PR 21-179
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	98.8	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 619	Tributylphosphate (Surrogate)	98.8	%	=	NA	NA	100			None	PR 62-145
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 8141A	Trifluralin	1.79	µg/L	=	0.036	0.05	2.5	PR 71.6		None	PR 40-148
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	98.4	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	98.4	%	=	NA	NA	100			None	PR 54-144
Laboratory QA Samples	LCS	1.00	09/28/09	00:00	EPA 8321A	Aldicarb	0.742	µg/L	=	0.2	0.4	1.07	PR 69.3		None	PR 31-133
Laboratory QA Samples	LCS	1.00	09/28/09	00:00	EPA 8321A	Carbaryl	0.989	µg/L	=	0.05	0.07	1.07	PR 92.4		None	PR 44-133
Laboratory QA Samples	LCS	1.00	09/28/09	00:00	EPA 8321A	Carbofuran	0.888	µg/L	=	0.05	0.07	1.07	PR 83.0		None	PR 36-165
Laboratory QA Samples	LCS	1.00	09/28/09	00:00	EPA 8321A	Diuron	1.04	µg/L	=	0.2	0.4	1.07	PR 97.2		None	PR 52-136
Laboratory QA Samples	LCS	1.00	09/28/09	00:00	EPA 8321A	Linuron	0.945	µg/L	=	0.2	0.4	1.07	PR 88.3		None	PR 49-144

Adminsitrative Record
Page 17114

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	09/28/09	00:00	EPA 8321A	Methiocarb	0.9	µg/L	=	0.2	0.4	1.07	PR 84.1		None	PR 35-142
Laboratory QA Samples	LCS	1.00	09/28/09	00:00	EPA 8321A	Methomyl	0.821	µg/L	=	0.05	0.07	1.07	PR 76.7		None	PR 23-152
Laboratory QA Samples	LCS	1.00	09/28/09	00:00	EPA 8321A	Oxamyl	0.709	µg/L	=	0.2	0.4	1.07	PR 66.3		None	PR 10-117
Laboratory QA Samples	LCS	1.00	09/28/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	76.7	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 619	Atrazine	2.01	µg/L	=	0.07	0.5	2.5	PR 80.4		None	PR 39-156
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Azinphos methyl	2.2	µg/L	=	0.02	0.1	2.5	PR 88.0		None	PR 36-189
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Chlorpyrifos	5.03	µg/L	=	0.0026	0.015	5	PR 101		None	PR 61-125
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 619	Cyanazine	4.06	µg/L	=	0.09	0.5	2.5	PR 162		None	PR 22-172
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Demeton-s	0.63	µg/L	=	0.01	0.1	0.75	PR 84.0		None	PR 40-125
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Diazinon	2.46	µg/L	=	0.004	0.02	2.5	PR 98.4		None	PR 57-130
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Dichlorvos	1.66	µg/L	=	0.02	0.1	2.5	PR 66.4		None	PR 10-175
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Dimethoate	2	µg/L	=	0.08	0.1	2.5	PR 80.0		None	PR 68-202
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Disulfoton	2.06	µg/L	=	0.02	0.05	2.5	PR 82.4		None	PR 47-117
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Malathion	5.03	µg/L	=	0.05	0.1	5	PR 101		None	PR 47-125
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Methamidophos	0.304	µg/L	=	0.08	0.2	0.5	PR 60.8		None	PR 25-136
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Methidathion	2.57	µg/L	=	0.04	0.1	2.5	PR 103		None	PR 50-150
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Parathion, Methyl	2.2	µg/L	=	0.075	0.1	2.5	PR 88.0		None	PR 55-164
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Phorate	2.31	µg/L	=	0.07	0.1	2.5	PR 92.4		None	PR 44-117
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Phosmet	1.64	µg/L	=	0.06	0.2	2.5	PR 65.6		None	PR 50-150
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 619	Simazine	1.97	µg/L	=	0.08	0.5	2.5	PR 78.8		None	PR 21-179
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	103	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 619	Tributylphosphate (Surrogate)	103	%	=	NA	NA	100			None	PR 62-145
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	85.2	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Trifluralin	2.08	µg/L	=	0.036	0.05	2.5	PR 83.2		None	PR 40-148
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	104	%	=	NA	NA	100			None	PR 56-129

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	104	%	=	NA	NA	100			None	PR 54-144
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	102	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 619	Atrazine	1.93	µg/L	=	0.07	0.5	2.5	PR 77.2		None	PR 39-156
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 8141A	Azinphos methyl	1.98	µg/L	=	0.02	0.1	2.5	PR 79.2		None	PR 36-189
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 8141A	Chlorpyrifos	4.05	µg/L	=	0.0026	0.015	5	PR 81.0		None	PR 61-125
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 619	Cyanazine	2.29	µg/L	=	0.09	0.5	2.5	PR 91.6		None	PR 22-172
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 8141A	Demeton-s	0.528	µg/L	=	0.01	0.1	0.75	PR 70.4		None	PR 40-125
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 8141A	Diazinon	1.97	µg/L	=	0.004	0.02	2.5	PR 78.8		None	PR 57-130
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 8141A	Dichlorvos	1.65	µg/L	=	0.02	0.1	2.5	PR 66.0		None	PR 10-175
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 8141A	Dimethoate	2.13	µg/L	=	0.08	0.1	2.5	PR 85.2		None	PR 68-202
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 8141A	Disulfoton	1.8	µg/L	=	0.02	0.05	2.5	PR 72.0		None	PR 47-117
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 8141A	Malathion	2.11	µg/L	=	0.05	0.1	2.5	PR 84.4		None	PR 47-125
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 8141A	Methidathion	1.96	µg/L	=	0.04	0.1	2.5	PR 78.4		None	PR 50-150
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 8141A	Parathion, Methyl	2.11	µg/L	=	0.075	0.1	2.5	PR 84.4		None	PR 55-164
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 8141A	Phorate	1.7	µg/L	=	0.07	0.1	2.5	PR 68.0		None	PR 44-117
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 8141A	Phosmet	1.82	µg/L	=	0.06	0.2	2.5	PR 72.8		None	PR 50-150
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 619	Simazine	1.9	µg/L	=	0.08	0.5	2.5	PR 76.0		None	PR 21-179
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	78	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 619	Tributylphosphate (Surrogate)	78	%	=	NA	NA	100			None	PR 62-145
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 8141A	Trifluralin	1.71	µg/L	=	0.036	0.05	2.5	PR 68.4		None	PR 40-148
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	82.8	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	10/26/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	82.8	%	=	NA	NA	100			None	PR 54-144
Laboratory QA Samples	LCS	1.00	10/27/09	00:00	EPA 8321A	Aldicarb	0.92	µg/L	=	0.2	0.4	1.07	PR 86.0		None	PR 31-133
Laboratory QA Samples	LCS	1.00	10/27/09	00:00	EPA 8321A	Carbaryl	1.08	µg/L	=	0.05	0.07	1.07	PR 101		None	PR 44-133
Laboratory QA Samples	LCS	1.00	10/27/09	00:00	EPA 8321A	Carbofuran	1.23	µg/L	=	0.05	0.07	1.07	PR 115		None	PR 36-165

Adminsitrative Record
Page 17116

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	10/27/09	00:00	EPA 8321A	Diuron	1.2	µg/L	=	0.2	0.4	1.07	PR 112		None	PR 52-136
Laboratory QA Samples	LCS	1.00	10/27/09	00:00	EPA 8321A	Linuron	1.1	µg/L	=	0.2	0.4	1.07	PR 103		None	PR 49-144
Laboratory QA Samples	LCS	1.00	10/27/09	00:00	EPA 8141A	Methamidophos	0.377	µg/L	=	0.08	0.2	0.5	PR 75.4		None	PR 25-136
Laboratory QA Samples	LCS	1.00	10/27/09	00:00	EPA 8321A	Methiocarb	1.05	µg/L	=	0.2	0.4	1.07	PR 98.1		None	PR 35-142
Laboratory QA Samples	LCS	1.00	10/27/09	00:00	EPA 8321A	Methomyl	0.885	µg/L	=	0.05	0.07	1.07	PR 82.7		None	PR 23-152
Laboratory QA Samples	LCS	1.00	10/27/09	00:00	EPA 8321A	Oxamyl	1.22	µg/L	=	0.2	0.4	1.07	PR 114		None	PR 10-117
Laboratory QA Samples	LCS	1.00	10/27/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	103	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	1.00	10/27/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	70.6	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	10/27/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	81.8	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8321A	Aldicarb	1.01	µg/L	=	0.2	0.4	1.07	PR 94.4		None	PR 31-133
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 619	Atrazine	2.01	µg/L	=	0.07	0.5	2.5	PR 80.4		None	PR 39-156
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Azinphos methyl	2.12	µg/L	=	0.02	0.1	2.5	PR 84.8		None	PR 36-189
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8321A	Carbaryl	1.16	µg/L	=	0.05	0.07	1.07	PR 108		None	PR 44-133
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8321A	Carbofuran	1.2	µg/L	=	0.05	0.07	1.07	PR 112		None	PR 36-165
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Chlorpyrifos	4.18	µg/L	=	0.0026	0.015	5	PR 83.6		None	PR 61-125
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 619	Cyanazine	4.38	µg/L	=	0.09	0.5	5	PR 87.6		None	PR 22-172
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Demeton-s	0.657	µg/L	=	0.01	0.1	0.75	PR 87.6		None	PR 40-125
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Diazinon	2.05	µg/L	=	0.004	0.02	2.5	PR 82.0		None	PR 57-130
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Dichlorvos	2.1	µg/L	=	0.02	0.1	2.5	PR 84.0		None	PR 10-175
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Dimethoate	2.04	µg/L	=	0.08	0.1	2.5	PR 81.6		None	PR 68-202
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Disulfoton	1.98	µg/L	=	0.02	0.05	2.5	PR 79.2		None	PR 47-117
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8321A	Diuron	1.06	µg/L	=	0.2	0.4	1.07	PR 99.1		None	PR 52-136
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8321A	Linuron	1.12	µg/L	=	0.2	0.4	1.07	PR 105		None	PR 49-144
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Malathion	2.41	µg/L	=	0.05	0.1	2.5	PR 96.4		None	PR 47-125
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Methamidophos	0.362	µg/L	=	0.08	0.2	0.5	PR 72.4		None	PR 25-136

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Methidathion	2.23	µg/L	=	0.04	0.1	2.5	PR 89.2		None	PR 50-150
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8321A	Methiocarb	1.24	µg/L	=	0.2	0.4	1.07	PR 116		None	PR 35-142
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8321A	Methomyl	1.2	µg/L	=	0.05	0.07	1.07	PR 112		None	PR 23-152
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8321A	Oxamyl	1.01	µg/L	=	0.2	0.4	1.07	PR 94.4		None	PR 10-117
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Parathion, Methyl	2.03	µg/L	=	0.075	0.1	2.5	PR 81.2		None	PR 55-164
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Phorate	1.94	µg/L	=	0.07	0.1	2.5	PR 77.6		None	PR 44-117
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Phosmet	1.62	µg/L	=	0.06	0.2	2.5	PR 64.8		None	PR 50-150
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 619	Simazine	1.72	µg/L	=	0.08	0.5	2.5	PR 68.8		None	PR 21-179
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	109	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	84.8	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 619	Tributylphosphate (Surrogate)	84.8	%	=	NA	NA	100			None	PR 62-145
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	72.2	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Trifluralin	1.86	µg/L	=	0.036	0.05	2.5	PR 74.4		None	PR 40-148
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	93.2	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	93.2	%	=	NA	NA	100			None	PR 54-144
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	88.4	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	Aldrin	0.164	µg/L	=	0.009	0.01	0.3	PR 54.7		None	PR 11-138
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 619	Atrazine	2.14	µg/L	=	0.07	0.5	2.5	PR 85.6		None	PR 39-156
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Azinphos methyl	2.74	µg/L	=	0.02	0.1	2.5	PR 110		None	PR 36-189
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	Chlordane	0.418	µg/L	=	0.007	0.01	0.6	PR 69.7		None	PR 44-152
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Chlorpyrifos	5.06	µg/L	=	0.0026	0.015	5	PR 101		None	PR 61-125
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 619	Cyanazine	3.15	µg/L	=	0.09	0.5	5	PR 63.0		None	PR 22-172
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	DDD (p,p')	0.213	µg/L	=	0.003	0.01	0.3	PR 71.0		None	PR 38-135
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	DDE (p,p')	0.208	µg/L	=	0.004	0.01	0.3	PR 69.3		None	PR 21-134
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	DDT (p,p')	0.206	µg/L	=	0.007	0.01	0.3	PR 68.7		None	PR 18-145

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	Decachlorobiphenyl (Surrogate)	47	%	=	NA	NA	100			None	PR 16-146
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Demeton-s	0.876	µg/L	=	0.01	0.1	0.75	PR 117		None	PR 40-125
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Diazinon	2.42	µg/L	=	0.004	0.02	2.5	PR 96.8		None	PR 57-130
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Dichlorvos	2.42	µg/L	=	0.02	0.1	2.5	PR 96.8		None	PR 10-175
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	Dicofol	0.158	µg/L	=	0.01	0.1	0.2	PR 79.0		None	PR 40-135
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	Dieldrin	0.209	µg/L	=	0.005	0.01	0.3	PR 69.7		None	PR 48-121
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Dimethoate	2.64	µg/L	=	0.08	0.1	2.5	PR 106		None	PR 68-202
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Disulfoton	2.35	µg/L	=	0.02	0.05	2.5	PR 94.0		None	PR 47-117
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	Endosulfan I	0.223	µg/L	=	0.005	0.01	0.3	PR 74.3		None	PR 50-131
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	Endosulfan II	0.213	µg/L	=	0.004	0.01	0.3	PR 71.0		None	PR 55-128
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	Endrin	0.201	µg/L	=	0.007	0.01	0.3	PR 67.0		None	PR 24-143
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	HCH, alpha	0.209	µg/L	=	0.005	0.01	0.3	PR 69.7		None	PR 33-111
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	HCH, beta	0.223	µg/L	=	0.008	0.01	0.3	PR 74.3		None	PR 49-119
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	HCH, delta	0.216	µg/L	=	0.005	0.01	0.3	PR 72.0		None	PR 12-97
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	HCH, gamma	0.214	µg/L	=	0.005	0.01	0.3	PR 71.3		None	PR 40-114
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	Heptachlor	0.181	µg/L	=	0.008	0.01	0.3	PR 60.3		None	PR 24-124
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	Heptachlor epoxide	0.214	µg/L	=	0.007	0.01	0.3	PR 71.3		None	PR 58-109
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Malathion	5.06	µg/L	=	0.05	0.1	5	PR 101		None	PR 47-125
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Methamidophos	0.356	µg/L	=	0.08	0.2	0.5	PR 71.2		None	PR 25-136
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Methidathion	2.86	µg/L	=	0.04	0.1	2.5	PR 114		None	PR 50-150
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	Methoxychlor	0.209	µg/L	=	0.008	0.01	0.3	PR 69.7		None	PR 30-163
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Parathion, Methyl	2.54	µg/L	=	0.075	0.1	2.5	PR 102		None	PR 55-164
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Phorate	2.34	µg/L	=	0.07	0.1	2.5	PR 93.6		None	PR 44-117
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Phosmet	2.54	µg/L	=	0.06	0.2	2.5	PR 102		None	PR 50-150
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 619	Simazine	1.97	µg/L	=	0.08	0.5	2.5	PR 78.8		None	PR 21-179

Adminsitrative Record
Page 17119

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	Tetrachloro-m-xylene (Surrogate)	43.7	%	=	NA	NA	100			None	PR 15-98
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8081A	Toxaphene	0.887	µg/L	=	0.38	0.5	1	PR 88.7		None	PR 23-140
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	96.4	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 619	Tributylphosphate (Surrogate)	96.4	%	=	NA	NA	100			None	PR 62-145
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Tributylphosphate (Surrogate)	70.6	%	=	NA	NA	100			None	PR 60-150
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Trifluralin	2.28	µg/L	=	0.036	0.05	2.5	PR 91.2		None	PR 40-148
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	119	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 619	Triphenyl phosphate (Surrogate)	119	%	=	NA	NA	100			None	PR 54-144
Laboratory QA Samples	LCS	1.00	12/18/09	00:00	EPA 8141A	Triphenyl phosphate (Surrogate)	75.6	%	=	NA	NA	100			None	PR 56-129
Laboratory QA Samples	LCS	1.00	12/21/09	00:00	EPA 8321A	Aldicarb	1	µg/L	=	0.2	0.4	1.07	PR 93.5		None	PR 31-133
Laboratory QA Samples	LCS	1.00	12/21/09	00:00	EPA 8321A	Carbaryl	0.912	µg/L	=	0.05	0.07	1.07	PR 85.2		None	PR 44-133
Laboratory QA Samples	LCS	1.00	12/21/09	00:00	EPA 8321A	Carbofuran	1	µg/L	=	0.05	0.07	1.07	PR 93.5		None	PR 36-165
Laboratory QA Samples	LCS	1.00	12/21/09	00:00	EPA 8321A	Diuron	0.923	µg/L	=	0.2	0.4	1.07	PR 86.3		None	PR 52-136
Laboratory QA Samples	LCS	1.00	12/21/09	00:00	EPA 8321A	Linuron	0.882	µg/L	=	0.2	0.4	1.07	PR 82.4		None	PR 49-144
Laboratory QA Samples	LCS	1.00	12/21/09	00:00	EPA 8321A	Methiocarb	0.967	µg/L	=	0.2	0.4	1.07	PR 90.4		None	PR 35-142
Laboratory QA Samples	LCS	1.00	12/21/09	00:00	EPA 8321A	Methomyl	0.956	µg/L	=	0.05	0.07	1.07	PR 89.3		None	PR 23-152
Laboratory QA Samples	LCS	1.00	12/21/09	00:00	EPA 8321A	Oxamyl	0.657	µg/L	=	0.2	0.4	1.07	PR 61.4		None	PR 10-117
Laboratory QA Samples	LCS	1.00	12/21/09	00:00	EPA 549.2M	Paraquat dichloride	8.22	µg/L	=	0.21	0.5	12	PR 68.5		None	PR 50-141
Laboratory QA Samples	LCS	1.00	12/21/09	00:00	EPA 8321A	Tributylphosphate (Surrogate)	61.4	%	=	NA	NA	100			None	PR 36-140
Laboratory QA Samples	LCS	1.00	12/25/09	00:00	EPA 547M	Glyphosate	54	µg/L	=	2.8	5	50	PR 108		None	PR 72-131
Laboratory QA Samples	LCS	2.00	12/25/09	00:00	EPA 547M	Glyphosate	54	µg/L	=	2.8	5	50	PR 108	RPD 0.23	None	PR 72-131 RPD <25

Table III - 3. ESJWQC sample results including field blanks (FB), field duplicates (FD), equipment blanks (EB) and travel blanks (TB) for inorganic analysis including physical parameters, nutrients, metals and bacteria.

Expected values for field duplicates are the associated environmental sample result. Samples are sorted by station name, sample type code, sample date and analyte.

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	EB	1.00	1.00	12/16/08	12:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	EB	1.00	1.00	12/16/08	12:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	EB	1.00	1.00	12/16/08	12:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	0.25		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	EB	1.00	1.00	12/16/08	12:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	EB	1.00	1.00	12/16/08	12:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	EB	1.00	1.00	01/20/09	12:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	EB	1.00	1.00	01/20/09	12:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	EB	1.00	1.00	01/20/09	12:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	0.25		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	EB	1.00	1.00	01/20/09	12:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	EB	1.00	1.00	01/20/09	12:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	EB	1.00	1.00	12/15/09	12:30	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	EB	1.00	1.00	12/15/09	12:30	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	EB	1.00	1.00	12/15/09	12:30	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	0.25		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	EB	1.00	1.00	12/15/09	12:30	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	<RL	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	EB	1.00	1.00	12/15/09	12:30	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 200.8	Arsenic (T)	<0.008	µg/L	ND	0.008	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	SM 2340 C	Hardness as CaCO3	<1.7	mg/L	ND	1.7	5	<5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 200.8	Molybdenum (T)	<0.016	µg/L	ND	0.016	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 200.8	Nickel (T)	0.01	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 353.2	Nitrate + Nitrite as N	0.044	mg/L	DNQ	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 351.3	Nitrogen, Total Kjeldahl	<0.06	mg/L	ND	0.06	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 365.2	Phosphate as P	0.058	mg/L	=	0.01	0.01	<0.01		Analyte detected in method, trip, or equipment blank.	< RL or < (sample ÷ 5)	DF=1; Env sample = 0.27 (>1/5 env sample).
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3	<3		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 415.1	Total Organic Carbon	0.36	mg/L	DNQ	0.1	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/16/08	12:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 200.8	Arsenic (T)	0.008	µg/L	DNQ	0.008	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	SM 2340 C	Hardness as CaCO3	<1.7	mg/L	ND	1.7	5	<5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 200.8	Molybdenum (T)	<0.016	µg/L	ND	0.016	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 351.3	Nitrogen, Total Kjeldahl	<0.06	mg/L	ND	0.06	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 365.2	Phosphate as P	0.016	mg/L	=	0.01	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 2.7 (<1/5 env sample)
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3	<3		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 415.1	Total Organic Carbon	0.61	mg/L	=	0.1	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 36 (<1/5 env sample)
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	01/20/09	12:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 350.2	Ammonia as N	0.29	mg/L	=	0.06	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 15 (<1/5 env sample)
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 200.8	Arsenic (T)	<0.008	µg/L	ND	0.008	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 200.8	Boron (T)	3.1	µg/L	DNQ	0.47	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	SM 2340 C	Hardness as CaCO3 (D)	<1.7	mg/L	ND	1.7	5	<5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 200.8	Molybdenum (T)	0.04	µg/L	DNQ	0.016	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 365.2	Phosphate as P	<0.01	mg/L	ND	0.01	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3	<3		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 415.1	Total Organic Carbon	0.19	mg/L	DNQ	0.1	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 180.1	Turbidity	0.2	NTU	=	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 98 (<1/5 env sample)
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FB	1.00	1.00	12/15/09	12:30	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 350.2	Ammonia as N	0.52	mg/L	=	0.05	0.1	0.55	FD RPD 5.61	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 200.8	Arsenic (T)	8.4	µg/L	=	0.008	0.5	8.4	FD RPD 0	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 200.8	Boron (T)	36	µg/L	=	0.47	10	37	FD RPD 2.74	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.011	FD RPD NA	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 200.8	Cadmium (T)	0.02	µg/L	DNQ	0.011	0.1	0.02	FD RPD 0	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 200.8	Copper (D)	1.6	µg/L	=	0.06	0.5	1.5	FD RPD 6.45	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 200.8	Copper (T)	4.7	µg/L	=	0.06	0.5	4.8	FD RPD 2.11	None	RPD <25	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 160.1	Dissolved Solids	380	mg/L	=	4	10	360	FD RPD 5.41	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	2.00	12/16/08	12:00	SM 9223 B	E. coli	2000	MPN/ 100 mL	=	1	1	>2400	Rlog 0.079	None	Rlog <1.3	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1	1400		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	SM 2340 C	Hardness as CaCO3	160	mg/L	=	1.7	5	170	FD RPD 6.06	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	<0.071	FD RPD NA	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 200.8	Lead (T)	0.7	µg/L	=	0.071	0.25	0.72	FD RPD 2.82	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 200.8	Molybdenum (T)	5.5	µg/L	=	0.016	0.25	5.7	FD RPD 3.57	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 200.8	Nickel (D)	2	µg/L	=	0.01	0.5	1.9	FD RPD 5.13	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 200.8	Nickel (T)	4.6	µg/L	=	0.01	0.5	4.7	FD RPD 2.15	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 353.2	Nitrate + Nitrite as N	0.19	mg/L	=	0.02	0.05	0.22	FD RPD 14.63	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 351.3	Nitrogen, Total Kjeldahl	2	mg/L	=	0.06	0.1	2.2	FD RPD 9.52	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 365.2	OrthoPhosphate as P	0.089	mg/L	=	0.006	0.01	0.093	FD RPD 4.40	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 365.2	Phosphate as P	0.22	mg/L	=	0.01	0.01	0.27	FD RPD 20.41	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 200.8	Selenium (T)	0.16	µg/L	DNQ	0.06	1	0.16	FD RPD 0	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 160.2	Suspended Solids	35	mg/L	=	2	3	27	FD RPD 25.81	Field duplicate RPD above QC limit.	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 415.1	Total Organic Carbon	8.2	mg/L	=	0.1	0.5	8.2	FD RPD 0	None	RPD <25	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 180.1	Turbidity	9.5	NTU	=	0.02	0.05	44	FD RPD 129.43	Field duplicate RPD above QC limit.	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 200.8	Zinc (D)	1	µg/L	=	0.8	1	0.98	FD RPD 2.02	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/16/08	12:00	EPA 200.8	Zinc (T)	8	µg/L	=	0.8	1	8	FD RPD 0	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 350.2	Ammonia as N	5.4	mg/L	=	0.05	0.1	5.5	FD RPD 1.83	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 200.8	Arsenic (T)	18	µg/L	=	0.008	0.5	18	FD RPD 0	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 200.8	Boron (T)	36	µg/L	=	0.47	10	36	FD RPD 0	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.011	FD RPD NA	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 200.8	Cadmium (T)	0.06	µg/L	DNQ	0.011	0.1	0.1	FD RPD 50	Field duplicate RPD above QC limit.	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 200.8	Copper (D)	4.7	µg/L	=	0.06	0.5	4.3	FD RPD 8.88	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 200.8	Copper (T)	14	µg/L	=	0.06	0.5	17	FD RPD 19.35	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 160.1	Dissolved Solids	460	mg/L	=	8	20	470	FD RPD 2.15	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1	>2400		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	2.00	01/20/09	12:00	SM 9223 B	E. coli	1986.3	MPN/ 100 mL	=	1	1	>2400	Rlog 0.082	None	Rlog <1.3	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	SM 2340 C	Hardness as CaCO3	290	mg/L	=	3.4	10	290	FD RPD 0	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 200.8	Lead (D)	0.12	µg/L	DNQ	0.071	0.25	0.23	FD RPD 62.85	Field duplicate RPD above QC limit.	RPD <25	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 200.8	Lead (T)	0.8	µg/L	=	0.071	0.25	3.6	FD RPD 127.3	Field duplicate RPD above QC limit.	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 200.8	Molybdenum (T)	4.3	µg/L	=	0.016	0.25	4	FD RPD 7.23	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 200.8	Nickel (D)	2.9	µg/L	=	0.01	0.5	3	FD RPD 3.38	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 200.8	Nickel (T)	5.3	µg/L	=	0.01	0.5	8.2	FD RPD 42.96	Field duplicate RPD above QC limit.	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 353.2	Nitrate + Nitrite as N	0.08	mg/L	=	0.02	0.05	0.059	FD RPD 30.22	Field duplicate RPD above QC limit.	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 351.3	Nitrogen, Total Kjeldahl	7.7	mg/L	=	0.06	0.1	14	FD RPD 58.06	Field duplicate RPD above QC limit.	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 365.2	OrthoPhosphate as P	1	mg/L	=	0.06	0.1	1.2	FD RPD 18.18	Analyte analyzed at a secondary dilution.	RPD <25	DF=10
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 365.2	Phosphate as P	2.9	mg/L	=	0.05	0.05	2.7	FD RPD 7.14	Analyte analyzed at a secondary dilution.	RPD <25	DF=5
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 200.8	Selenium (T)	0.55	µg/L	DNQ	0.06	1	0.51	FD RPD 7.55	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 160.2	Suspended Solids	66	mg/L	=	4	6	86	FD RPD 26.32	Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.	RPD <25	DF=2
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 415.1	Total Organic Carbon	23	mg/L	=	0.1	0.5	36	FD RPD 44.06	Field duplicate RPD above QC limit.	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 180.1	Turbidity	51	NTU	=	0.1	0.2	61	FD RPD 17.86	Analyte analyzed at a secondary dilution.	RPD <25	DF=5

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 200.8	Zinc (D)	5	µg/L	=	0.8	1	5	FD RPD 0	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	01/20/09	12:00	EPA 200.8	Zinc (T)	32	µg/L	=	0.8	1	67	FD RPD 70.71	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 350.2	Ammonia as N	15	mg/L	=	0.06	0.1	15	FD RPD 0	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 200.8	Arsenic (T)	7.2	µg/L	=	0.008	0.5	7.6	FD RPD 5.41	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 200.8	Boron (T)	62	µg/L	=	0.47	10	67	FD RPD 7.75	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.011	FD RPD NA	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 200.8	Cadmium (T)	0.06	µg/L	DNQ	0.011	0.1	0.06	FD RPD 0	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 200.8	Copper (D)	2.7	µg/L	=	0.06	0.5	2.5	FD RPD 7.69	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 200.8	Copper (T)	10	µg/L	=	0.06	0.5	12	FD RPD 18.18	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 160.1	Dissolved Solids	610	mg/L	=	8	20	610	FD RPD 0	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	2.00	12/15/09	12:30	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1	<1	Rlog 0	None	Rlog <1.3	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1	>2400		None		DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	SM 2340 C	Hardness as CaCO3 (D)	350	mg/L	=	8.5	20	330	FD RPD 5.88	Analyte analyzed at a secondary dilution.	RPD <25	DF=5
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 200.8	Lead (D)	0.12	µg/L	DNQ	0.071	0.25	0.11	FD RPD 8.70	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 200.8	Lead (T)	0.73	µg/L	=	0.071	0.25	1	FD RPD 31.21	Field duplicate RPD above QC limit.	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 200.8	Molybdenum (T)	3	µg/L	=	0.016	0.25	3	FD RPD 0	None	RPD <25	DF=1

Adminsitrative Record
Page 17130

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 200.8	Nickel (D)	3.3	µg/L	=	0.01	0.5	3.3	FD RPD 0	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 200.8	Nickel (T)	5.6	µg/L	=	0.01	0.5	7	FD RPD 22.22	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 353.2	Nitrate + Nitrite as N	1.1	mg/L	=	0.02	0.05	0.96	FD RPD 13.59	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 365.2	Phosphate as P	3.9	mg/L	=	0.05	0.05	3.8	FD RPD 2.60	Analyte analyzed at a secondary dilution.	RPD <25	DF=5
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 200.8	Selenium (T)	0.66	µg/L	DNQ	0.06	1	0.65	FD RPD 1.53	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 160.2	Suspended Solids	150	mg/L	=	4	6	260	FD RPD 53.66	Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.	RPD <25	DF=2
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 415.1	Total Organic Carbon	27	mg/L	=	0.1	0.5	30	FD RPD 10.53	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 180.1	Turbidity	79	NTU	=	0.2	0.5	98	FD RPD 21.47	Analyte analyzed at a secondary dilution.	RPD <25	DF=10
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 200.8	Zinc (D)	5.3	µg/L	=	0.8	1	4.3	FD RPD 20.83	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	FD	2.00	1.00	12/15/09	12:30	EPA 200.8	Zinc (T)	25	µg/L	=	0.8	1	30	FD RPD 18.18	None	RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/16/08	12:00	EPA 200.8	Arsenic (T)	<0.008	µg/L	ND	0.008	0.5	<0.5		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/16/08	12:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10	<10		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/16/08	12:00	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/16/08	12:00	EPA 200.8	Copper (T)	0.07	µg/L	DNQ	0.06	0.5	<0.5		None	<RL	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/16/08	12:00	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25	0.25		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/16/08	12:00	EPA 200.8	Molybdenum (T)	<0.016	µg/L	ND	0.016	0.25	0.25		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/16/08	12:00	EPA 200.8	Nickel (T)	0.06	µg/L	DNQ	0.01	0.5	<0.5		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/16/08	12:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/16/08	12:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	01/20/09	12:00	EPA 200.8	Arsenic (T)	<0.008	µg/L	ND	0.008	0.5	<0.5		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	01/20/09	12:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10	<10		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	01/20/09	12:00	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	01/20/09	12:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	01/20/09	12:00	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25	0.25		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	01/20/09	12:00	EPA 200.8	Molybdenum (T)	<0.016	µg/L	ND	0.016	0.25	0.25		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	01/20/09	12:00	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	01/20/09	12:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	01/20/09	12:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/15/09	12:30	EPA 200.8	Arsenic (T)	<0.008	µg/L	ND	0.008	0.5	<0.5		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/15/09	12:30	EPA 200.8	Boron (T)	1.5	µg/L	DNQ	0.47	10	<10		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/15/09	12:30	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	<RL	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/15/09	12:30	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/15/09	12:30	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25	0.25		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/15/09	12:30	EPA 200.8	Molybdenum (T)	<0.016	µg/L	ND	0.016	0.25	0.25		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/15/09	12:30	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/15/09	12:30	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	<RL	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	TB	1.00	1.00	12/15/09	12:30	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 200.8	Arsenic (T)	0.008	µg/L	DNQ	0.008	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 200.8	Boron (T)	3	µg/L	DNQ	0.47	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	SM 2340 C	Hardness as CaCO3	<3	mg/L	ND	3	5	<5		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 200.8	Molybdenum (T)	0.02	µg/L	DNQ	0.016	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 200.8	Nickel (D)	0.05	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 200.8	Nickel (T)	0.03	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 353.2	Nitrate + Nitrite as N	<0.04	mg/L	ND	0.04	0.1	<0.1		Analyte analyzed at a secondary dilution.	< RL or < (sample ÷ 5)	DF=2
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 351.3	Nitrogen, Total Kjeldahl	<0.06	mg/L	ND	0.06	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 365.2	Phosphate as P	0.013	mg/L	=	0.01	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 0.069 (<1/5 env sample)
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3	<3		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 415.1	Total Organic Carbon	0.31	mg/L	DNQ	0.1	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 180.1	Turbidity	0.08	NTU	=	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 12 (<1/5 env sample)
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 200.8	Zinc (D)	0.9	µg/L	DNQ	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	10/21/08	10:40	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 200.8	Arsenic (T)	<0.008	µg/L	ND	0.008	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	SM 2340 C	Hardness as CaCO3	<3	mg/L	ND	3	5	<5		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 200.8	Molybdenum (T)	<0.016	µg/L	ND	0.016	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 200.8	Nickel (D)	0.05	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 353.2	Nitrate + Nitrite as N	0.07	mg/L	=	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 4.2 (<1/5 env sample)
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 351.3	Nitrogen, Total Kjeldahl	<0.06	mg/L	ND	0.06	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 365.2	Phosphate as P	0.016	mg/L	=	0.01	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 0.1 (<1/5 env sample)
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3	<3		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 415.1	Total Organic Carbon	0.32	mg/L	DNQ	0.1	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FB	1.00	1.00	11/11/08	11:10	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 350.2	Ammonia as N	0.055	mg/L	DNQ	0.05	0.1	0.088	FD RPD 46.15	Field duplicate RPD above QC limit.	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 200.8	Arsenic (T)	2	µg/L	=	0.008	0.5	1.9	FD RPD 5.13	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 200.8	Boron (T)	69	µg/L	=	0.47	10	67	FD RPD 2.94	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.011	FD RPD NA	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1	<0.011	FD RPD NA	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 200.8	Copper (D)	1.8	µg/L	=	0.06	0.5	1.7	FD RPD 5.71	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 200.8	Copper (T)	2.2	µg/L	=	0.06	0.5	2.1	FD RPD 4.65	None	RPD <25	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 160.1	Dissolved Solids	300	mg/L	=	4	10	300	FD RPD 0	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	SM 9223 B	E. coli	190	MPN/ 100 mL	=	1	1	280		None		DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	2.00	10/21/08	10:40	SM 9223 B	E. coli	170	MPN/ 100 mL	=	1	1	190	Rlog 0.048	None	Rlog <1.3	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	SM 2340 C	Hardness as CaCO3	110	mg/L	=	3	5	110	FD RPD 0	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	<0.071	FD RPD NA	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25	<0.071	FD RPD NA	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 200.8	Molybdenum (T)	1.4	µg/L	=	0.016	0.25	1.4	FD RPD 0	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 200.8	Nickel (D)	0.7	µg/L	=	0.01	0.5	0.6	FD RPD 15.38	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 200.8	Nickel (T)	0.7	µg/L	=	0.01	0.5	0.7	FD RPD 0	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 353.2	Nitrate + Nitrite as N	6.7	mg/L	=	0.1	0.25	7	FD RPD 4.38	Analyte analyzed at a secondary dilution.	RPD <25	DF=5
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 351.3	Nitrogen, Total Kjeldahl	0.83	mg/L	=	0.06	0.1	0.87	FD RPD 4.71	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 365.2	OrthoPhosphate as P	0.013	mg/L	=	0.006	0.01	0.016	FD RPD 20.69	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 365.2	Phosphate as P	0.09	mg/L	=	0.01	0.01	0.069	FD RPD 26.42	Field duplicate RPD above QC limit.	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 200.8	Selenium (T)	0.2	µg/L	DNQ	0.06	1	0.2	FD RPD 0	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 160.2	Suspended Solids	55	mg/L	=	2	3	68	FD RPD 21.14	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 415.1	Total Organic Carbon	5	mg/L	=	0.1	0.5	5	FD RPD 0	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 180.1	Turbidity	8.6	NTU	=	0.02	0.05	12	FD RPD 33.01	Field duplicate RPD above QC limit.	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 200.8	Zinc (D)	2	µg/L	=	0.8	1	<0.8	FD RPD NA	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	10/21/08	10:40	EPA 200.8	Zinc (T)	2	µg/L	=	0.8	1	2	FD RPD 0	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 350.2	Ammonia as N	0.57	mg/L	=	0.05	0.1	0.65	FD RPD 13.11	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 200.8	Arsenic (T)	4	µg/L	=	0.008	0.5	4.1	FD RPD 2.47	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 200.8	Boron (T)	62	µg/L	=	0.47	10	63	FD RPD 1.6	None	RPD <25	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.011	FD RPD NA	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1	0.02	FD RPD NA	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 200.8	Copper (D)	2.9	µg/L	=	0.06	0.5	3.1	FD RPD 6.67	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 200.8	Copper (T)	3.2	µg/L	=	0.06	0.5	3.3	FD RPD 3.08	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 160.1	Dissolved Solids	290	mg/L	=	4	10	290	FD RPD 0	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	SM 9223 B	E. coli	310	MPN/ 100 mL	=	1	1	370		None		DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	2.00	11/11/08	11:10	SM 9223 B	E. coli	250	MPN/ 100 mL	=	1	1	310	Rlog 0.093	None	Rlog <1.3	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	SM 2340 C	Hardness as CaCO3	100	mg/L	=	3	5	100	FD RPD 0	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	<0.071	FD RPD NA	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25	<0.071	FD RPD NA	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 200.8	Molybdenum (T)	2.4	µg/L	=	0.016	0.25	2.5	FD RPD 4.08	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 200.8	Nickel (D)	0.7	µg/L	=	0.01	0.5	0.7	FD RPD 0	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 200.8	Nickel (T)	0.6	µg/L	=	0.01	0.5	0.6	FD RPD 0	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 353.2	Nitrate + Nitrite as N	3.9	mg/L	=	0.02	0.05	4.2	FD RPD 15.63	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 351.3	Nitrogen, Total Kjeldahl	1.8	mg/L	=	0.06	0.1	1.7	FD RPD 5.71	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 365.2	OrthoPhosphate as P	0.029	mg/L	=	0.006	0.01	0.037	FD RPD 24.24	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 365.2	Phosphate as P	0.093	mg/L	=	0.01	0.01	0.1	FD RPD 7.25	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 200.8	Selenium (T)	0.22	µg/L	DNQ	0.06	1	0.21	FD RPD 4.65	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3	<2	FD RPD NA	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 415.1	Total Organic Carbon	9.5	mg/L	=	0.1	0.5	10	FD RPD 5.13	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 180.1	Turbidity	1.5	NTU	=	0.02	0.05	2.1	FD RPD 33.33	Field duplicate RPD above QC limit.	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 200.8	Zinc (D)	2	µg/L	=	0.8	1	2	FD RPD 0	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	FD	2.00	1.00	11/11/08	11:10	EPA 200.8	Zinc (T)	3	µg/L	=	0.8	1	3	FD RPD 0	None	RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	TB	1.00	1.00	10/21/08	10:40	EPA 200.8	Arsenic (T)	0.008	µg/L	DNQ	0.008	0.5	<0.5		None	<RL	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	TB	1.00	1.00	10/21/08	10:40	EPA 200.8	Boron (T)	2	µg/L	DNQ	0.47	10	<10		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	EB	1.00	1.00	10/21/08	10:40	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	TB	1.00	1.00	10/21/08	10:40	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	EB	1.00	1.00	10/21/08	10:40	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	TB	1.00	1.00	10/21/08	10:40	EPA 200.8	Copper (T)	0.09	µg/L	DNQ	0.06	0.5	<0.5		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	TB	1.00	1.00	10/21/08	10:40	SM 2340 C	Hardness as CaCO3	<3	mg/L	ND	3	5	<5		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	EB	1.00	1.00	10/21/08	10:40	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	0.25		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	TB	1.00	1.00	10/21/08	10:40	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25	0.25		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	TB	1.00	1.00	10/21/08	10:40	EPA 200.8	Molybdenum (T)	<0.016	µg/L	ND	0.016	0.25	0.25		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	EB	1.00	1.00	10/21/08	10:40	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	TB	1.00	1.00	10/21/08	10:40	EPA 200.8	Nickel (T)	0.06	µg/L	DNQ	0.01	0.5	<0.5		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	TB	1.00	1.00	10/21/08	10:40	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	EB	1.00	1.00	10/21/08	10:40	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	TB	1.00	1.00	10/21/08	10:40	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	EB	1.00	1.00	11/11/08	11:10	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	EB	1.00	1.00	11/11/08	11:10	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	TB	1.00	1.00	11/11/08	11:10	SM 2340 C	Hardness as CaCO3	<3	mg/L	ND	3	5	<5		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	EB	1.00	1.00	11/11/08	11:10	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	0.25		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	EB	1.00	1.00	11/11/08	11:10	EPA 200.8	Nickel (D)	0.02	µg/L	DNQ	0.01	0.5	<0.5		None	<RL	DF=1
Lateral 2 1/2 near Keys Rd	EB	1.00	1.00	11/11/08	11:10	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	02/07/09	08:40	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	02/07/09	08:40	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	02/07/09	08:40	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	0.25		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	02/07/09	08:40	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	02/07/09	08:40	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	EB	1.00	1.00	03/17/09	08:50	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	03/17/09	08:50	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	03/17/09	08:50	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	0.25		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	03/17/09	08:50	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	03/17/09	08:50	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	04/21/09	09:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	04/21/09	09:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	04/21/09	09:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	0.25		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	04/21/09	09:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	04/21/09	09:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	05/19/09	09:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	05/19/09	09:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	05/19/09	09:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	06/16/09	09:20	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	06/16/09	09:20	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	06/16/09	09:20	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	07/21/09	09:00	EPA 200.8	Copper (D)	0.18	µg/L	DNQ	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	07/21/09	09:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	07/21/09	09:00	EPA 200.8	Zinc (D)	0.97	µg/L	DNQ	0.8	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	08/18/09	09:30	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	08/18/09	09:30	EPA 200.8	Nickel (D)	0.01	µg/L	DNQ	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	08/18/09	09:30	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	09/22/09	09:30	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	09/22/09	09:30	EPA 200.8	Nickel (D)	0.01	µg/L	DNQ	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	09/22/09	09:30	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	EB	1.00	1.00	10/20/09	09:00	EPA 200.8	Copper (D)	0.12	µg/L	DNQ	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	10/20/09	09:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	10/20/09	09:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	11/17/09	09:30	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	11/17/09	09:30	EPA 200.8	Nickel (D)	0.02	µg/L	DNQ	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	EB	1.00	1.00	11/17/09	09:30	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 200.8	Arsenic (T)	<0.008	µg/L	ND	0.008	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	2.00	02/07/09	08:40	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10	<10	RPD 0	None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	SM 2340 C	Hardness as CaCO3	<1.7	mg/L	ND	1.7	5	<5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 200.8	Molybdenum (T)	<0.016	µg/L	ND	0.016	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 200.8	Nickel (D)	0.1	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 200.8	Nickel (T)	0.02	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 351.3	Nitrogen, Total Kjeldahl	0.13	mg/L	=	0.06	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 2.2 (<1/5 env sample)
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 365.2	Phosphate as P	0.013	mg/L	=	0.01	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 0.78 (<1/5 env sample)
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3	<3		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 415.1	Total Organic Carbon	0.86	mg/L	=	0.1	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 20 (<1/5 env sample)
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 180.1	Turbidity	0.04	NTU	DNQ	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	02/07/09	08:40	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 200.8	Arsenic (T)	0.03	µg/L	DNQ	0.008	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	SM 2340 C	Hardness as CaCO3	<1.7	mg/L	ND	1.7	5	<5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 200.8	Molybdenum (T)	0.08	µg/L	DNQ	0.016	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 200.8	Nickel (D)	0.07	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 200.8	Nickel (T)	0.01	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 351.3	Nitrogen, Total Kjeldahl	0.099	mg/L	DNQ	0.06	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 365.2	Phosphate as P	0.011	mg/L	=	0.01	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 2.2 (<1/5 env sample)
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3	<3		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 415.1	Total Organic Carbon	0.4	mg/L	DNQ	0.1	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	03/17/09	08:50	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 200.8	Arsenic (T)	0.01	µg/L	DNQ	0.008	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 200.8	Boron (T)	1.6	µg/L	DNQ	0.47	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	SM 2340 C	Hardness as CaCO3	<1.7	mg/L	ND	1.7	5	<5		None	< RL or < (sample ÷ 5)	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 200.8	Molybdenum (T)	0.03	µg/L	DNQ	0.016	0.25	<0.25		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 200.8	Nickel (D)	0.05	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 353.2	Nitrate + Nitrite as N	0.087	mg/L	=	0.02	0.05	<0.05		Analyte detected in method, trip, or equipment blank.	< RL or < (sample ÷ 5)	DF=1; Env sample = 0.062 (> 1/5 env sample)
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 351.3	Nitrogen, Total Kjeldahl	<0.06	mg/L	ND	0.06	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 365.2	Phosphate as P	<0.01	mg/L	ND	0.01	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3	<3		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 415.1	Total Organic Carbon	0.27	mg/L	DNQ	0.1	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	04/21/09	09:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	05/19/09	09:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	05/19/09	09:00	EPA 200.8	Boron (T)	1.5	µg/L	DNQ	0.47	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	05/19/09	09:00	EPA 200.8	Copper (D)	0.08	µg/L	DNQ	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	05/19/09	09:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	05/19/09	09:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	05/19/09	09:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	05/19/09	09:00	SM 2340 C	Hardness as CaCO3	<1.7	mg/L	ND	1.7	5	<5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	05/19/09	09:00	EPA 200.8	Nickel (D)	0.1	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	1.00	05/19/09	09:00	EPA 200.8	Nickel (T)	0.01	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	05/19/09	09:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	05/19/09	09:00	EPA 365.2	Phosphate as P	0.017	mg/L	=	0.01	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 2.2 (<1/5 env sample)
Mootz Drain @ Langworth Rd	FB	1.00	1.00	05/19/09	09:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	05/19/09	09:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3	<3		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	05/19/09	09:00	EPA 415.1	Total Organic Carbon	1.3	mg/L	=	0.1	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 16 (<1/5 env sample)
Mootz Drain @ Langworth Rd	FB	1.00	1.00	05/19/09	09:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	05/19/09	09:00	EPA 200.8	Zinc (D)	0.96	µg/L	DNQ	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	05/19/09	09:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	06/16/09	09:20	EPA 350.2	Ammonia as N	0.066	mg/L	DNQ	0.06	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	06/16/09	09:20	EPA 200.8	Boron (T)	2.1	µg/L	DNQ	0.47	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	06/16/09	09:20	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	06/16/09	09:20	EPA 200.8	Copper (T)	0.09	µg/L	DNQ	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	06/16/09	09:20	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	06/16/09	09:20	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	06/16/09	09:20	SM 2340 C	Hardness as CaCO3 (D)	<1.7	mg/L	ND	1.7	5	<5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	06/16/09	09:20	EPA 200.8	Nickel (D)	0.36	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	06/16/09	09:20	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	06/16/09	09:20	EPA 353.2	Nitrate + Nitrite as N	0.076	mg/L	=	0.02	0.05	<0.05		Analyte detected in method, trip, or equipment blank.	< RL or < (sample ÷ 5)	DF=1; Env sample = 0.22 (>1/5 env sample)
Mootz Drain @ Langworth Rd	FB	1.00	1.00	06/16/09	09:20	EPA 365.2	Phosphate as P	0.016	mg/L	=	0.01	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	06/16/09	09:20	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	< RL or < (sample ÷ 5)	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	1.00	06/16/09	09:20	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3	<3		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	06/16/09	09:20	EPA 415.1	Total Organic Carbon	0.25	mg/L	DNQ	0.1	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	06/16/09	09:20	EPA 180.1	Turbidity	0.31	NTU	=	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	06/16/09	09:20	EPA 200.8	Zinc (D)	1.1	µg/L	=	0.8	1	<1		Analyte detected in method, trip, or equipment blank.	< RL or < (sample ÷ 5)	DF=1; Env sample = 2.2 (>1/5 env sample)
Mootz Drain @ Langworth Rd	FB	1.00	1.00	06/16/09	09:20	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	07/21/09	09:00	EPA 350.2	Ammonia as N	0.088	mg/L	DNQ	0.06	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	07/21/09	09:00	EPA 200.8	Boron (T)	1.7	µg/L	DNQ	0.47	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	07/21/09	09:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	07/21/09	09:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	07/21/09	09:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	07/21/09	09:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	07/21/09	09:00	SM 2340 C	Hardness as CaCO3 (D)	<1.7	mg/L	ND	1.7	5	<5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	07/21/09	09:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	07/21/09	09:00	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	07/21/09	09:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	07/21/09	09:00	EPA 365.2	Phosphate as P	0.021	mg/L	=	0.01	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 1.3 (<1/5 env sample)
Mootz Drain @ Langworth Rd	FB	1.00	1.00	07/21/09	09:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	07/21/09	09:00	EPA 160.2	Suspended Solids	<1	mg/L	ND	1	3	<3		None	< RL or < (sample ÷ 5)	DF=0
Mootz Drain @ Langworth Rd	FB	1.00	1.00	07/21/09	09:00	EPA 415.1	Total Organic Carbon	<0.1	mg/L	ND	0.1	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	07/21/09	09:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	07/21/09	09:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	1.00	07/21/09	09:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	08/18/09	09:30	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	08/18/09	09:30	EPA 200.8	Boron (T)	2.3	µg/L	DNQ	0.47	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	08/18/09	09:30	EPA 200.8	Copper (D)	0.16	µg/L	DNQ	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	08/18/09	09:30	EPA 200.8	Copper (T)	0.18	µg/L	DNQ	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	08/18/09	09:30	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	08/18/09	09:30	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	08/18/09	09:30	SM 2340 C	Hardness as CaCO3 (D)	<1.7	mg/L	ND	1.7	5	<5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	08/18/09	09:30	EPA 200.8	Nickel (D)	0.05	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	08/18/09	09:30	EPA 200.8	Nickel (T)	0.02	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	08/18/09	09:30	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	08/18/09	09:30	EPA 365.2	Phosphate as P	0.018	mg/L	=	0.01	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 1.2 (<1/5 env sample)
Mootz Drain @ Langworth Rd	FB	1.00	1.00	08/18/09	09:30	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	08/18/09	09:30	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3	<3		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	08/18/09	09:30	EPA 415.1	Total Organic Carbon	0.29	mg/L	DNQ	0.1	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	08/18/09	09:30	EPA 180.1	Turbidity	0.03	NTU	DNQ	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	08/18/09	09:30	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	08/18/09	09:30	EPA 200.8	Zinc (T)	0.89	µg/L	DNQ	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	09/22/09	09:30	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	09/22/09	09:30	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	09/22/09	09:30	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	09/22/09	09:30	EPA 200.8	Copper (T)	0.24	µg/L	DNQ	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	09/22/09	09:30	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10	<10		None	< RL or < (sample ÷ 5)	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	1.00	09/22/09	09:30	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	09/22/09	09:30	SM 2340 C	Hardness as CaCO3 (D)	<1.7	mg/L	ND	1.7	5	<5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	09/22/09	09:30	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	09/22/09	09:30	EPA 200.8	Nickel (T)	0.02	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	09/22/09	09:30	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	09/22/09	09:30	EPA 365.2	Phosphate as P	0.025	mg/L	=	0.01	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 0.73 (<1/5 env sample)
Mootz Drain @ Langworth Rd	FB	1.00	1.00	09/22/09	09:30	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	09/22/09	09:30	EPA 160.2	Suspended Solids	<1	mg/L	ND	1	3	<3		None	< RL or < (sample ÷ 5)	DF=0
Mootz Drain @ Langworth Rd	FB	1.00	1.00	09/22/09	09:30	EPA 415.1	Total Organic Carbon	0.19	mg/L	DNQ	0.1	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	09/22/09	09:30	EPA 180.1	Turbidity	0.08	NTU	=	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 33 (<1/5 env sample)
Mootz Drain @ Langworth Rd	FB	1.00	1.00	09/22/09	09:30	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	09/22/09	09:30	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	10/20/09	09:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	10/20/09	09:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	10/20/09	09:00	EPA 200.8	Copper (D)	0.13	µg/L	DNQ	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	10/20/09	09:00	EPA 200.8	Copper (T)	0.15	µg/L	DNQ	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	10/20/09	09:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	10/20/09	09:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	10/20/09	09:00	SM 2340 C	Hardness as CaCO3 (D)	<1.7	mg/L	ND	1.7	5	<5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	10/20/09	09:00	EPA 200.8	Nickel (D)	0.01	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	10/20/09	09:00	EPA 200.8	Nickel (T)	0.05	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	1.00	10/20/09	09:00	EPA 353.2	Nitrate + Nitrite as N	0.12	mg/L	=	0.02	0.05	<0.05		Analyte detected in method, trip, or equipment blank.	< RL or < (sample ÷ 5)	DF=1; Env sample=0.17 (>1/5 env sample)
Mootz Drain @ Langworth Rd	FB	1.00	1.00	10/20/09	09:00	EPA 365.2	Phosphate as P	0.013	mg/L	=	0.01	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1; Env sample=1.9 (<1/5 env sample)
Mootz Drain @ Langworth Rd	FB	1.00	1.00	10/20/09	09:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	10/20/09	09:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3	<3		A holding time violation has occurred.	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	10/20/09	09:00	EPA 415.1	Total Organic Carbon	0.19	mg/L	DNQ	0.1	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	10/20/09	09:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	10/20/09	09:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	10/20/09	09:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	11/17/09	09:30	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1	<0.1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	11/17/09	09:30	EPA 200.8	Boron (T)	0.8	µg/L	DNQ	0.47	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	11/17/09	09:30	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	11/17/09	09:30	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	11/17/09	09:30	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10	<10		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	11/17/09	09:30	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	11/17/09	09:30	SM 2340 C	Hardness as CaCO3 (D)	<1.7	mg/L	ND	1.7	5	<5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	11/17/09	09:30	EPA 200.8	Nickel (D)	0.05	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	11/17/09	09:30	EPA 200.8	Nickel (T)	0.06	µg/L	DNQ	0.01	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	11/17/09	09:30	EPA 353.2	Nitrate + Nitrite as N	0.042	mg/L	DNQ	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	11/17/09	09:30	EPA 365.2	Phosphate as P	0.014	mg/L	=	0.01	0.01	<0.01		None	< RL or < (sample ÷ 5)	DF=1; Env sample=2.6 (<1/5 env sample)
Mootz Drain @ Langworth Rd	FB	1.00	1.00	11/17/09	09:30	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	< RL or < (sample ÷ 5)	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FB	1.00	1.00	11/17/09	09:30	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3	<3		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	11/17/09	09:30	EPA 415.1	Total Organic Carbon	0.17	mg/L	DNQ	0.1	0.5	<0.5		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	11/17/09	09:30	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05	<0.05		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	11/17/09	09:30	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1
Mootz Drain @ Langworth Rd	FB	1.00	1.00	11/17/09	09:30	EPA 200.8	Zinc (T)	1	µg/L	=	0.8	1	<1		None	< RL or < (sample ÷ 5)	DF=1; Env sample = 32 (<1/5 env sample)
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 350.2	Ammonia as N	0.3	mg/L	=	0.05	0.1	0.4	FD RPD 28.57	Field duplicate RPD above QC limit.	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 200.8	Arsenic (T)	5.4	µg/L	=	0.008	0.5	5.5	FD RPD 1.83	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 200.8	Boron (T)	40	µg/L	=	0.47	10	37	FD RPD 7.79	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.011	FD RPD NA	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 200.8	Cadmium (T)	0.02	µg/L	DNQ	0.011	0.1	0.02	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 200.8	Copper (D)	2.8	µg/L	=	0.06	0.5	3	FD RPD 6.90	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 200.8	Copper (T)	4.4	µg/L	=	0.06	0.5	4.2	FD RPD 4.65	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 160.1	Dissolved Solids	240	mg/L	=	4	10	270	FD RPD 11.76	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	2.00	02/07/09	08:40	SM 9223 B	E. coli	72.7	MPN/ 100 mL	=	1	1	64	Rlog 0.055	None	Rlog <1.3	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	SM 9223 B	E. coli	64	MPN/ 100 mL	=	1	1	74		None		DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	SM 2340 C	Hardness as CaCO3	170	mg/L	=	8.5	20	150	FD RPD 12.50	Analyte analyzed at a secondary dilution.	RPD <25	DF=5
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 200.8	Lead (D)	0.08	µg/L	DNQ	0.071	0.25	0.08	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 200.8	Lead (T)	0.59	µg/L	=	0.071	0.25	0.57	FD RPD 3.45	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 200.8	Molybdenum (T)	1.8	µg/L	=	0.016	0.25	1.8	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 200.8	Nickel (D)	3.1	µg/L	=	0.01	0.5	3.1	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 200.8	Nickel (T)	3.7	µg/L	=	0.01	0.5	3.6	FD RPD 2.74	None	RPD <25	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 353.2	Nitrate + Nitrite as N	0.073	mg/L	=	0.02	0.05	0.11	FD RPD 40.44	Field duplicate RPD above QC limit.	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 351.3	Nitrogen, Total Kjeldahl	2.7	mg/L	=	0.06	0.1	2.2	FD RPD 20.41	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 365.2	OrthoPhosphate as P	0.57	mg/L	=	0.006	0.01	0.64	FD RPD 11.57	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 365.2	Phosphate as P	0.83	mg/L	=	0.01	0.01	0.78	FD RPD 6.21	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 200.8	Selenium (T)	0.1	µg/L	DNQ	0.06	1	0.11	FD RPD 9.52	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 160.2	Suspended Solids	22	mg/L	=	4	6	8	FD RPD 93.33	Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 415.1	Total Organic Carbon	17	mg/L	=	0.1	0.5	20	FD RPD 16.22	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 180.1	Turbidity	17	NTU	=	0.02	0.05	9.5	FD RPD 56.60	Field duplicate RPD above QC limit.	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 200.8	Zinc (D)	1	µg/L	=	0.8	1	1	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	02/07/09	08:40	EPA 200.8	Zinc (T)	6	µg/L	=	0.8	1	5	FD RPD 18.18	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 350.2	Ammonia as N	0.66	mg/L	=	0.05	0.1	0.74	FD RPD 11.4	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 200.8	Arsenic (T)	7.4	µg/L	=	0.008	0.5	7.3	FD RPD 1.36	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 200.8	Boron (T)	64	µg/L	=	0.47	10	63	FD RPD 1.57	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1	<0.011	FD RPD NA	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 200.8	Cadmium (T)	0.04	µg/L	DNQ	0.011	0.1	0.04	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 200.8	Copper (D)	3.4	µg/L	=	0.06	0.5	3.5	FD RPD 2.89	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 200.8	Copper (T)	5.8	µg/L	=	0.06	0.5	5.8	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 160.1	Dissolved Solids	280	mg/L	=	8	20	290	FD RPD 3.5	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	SM 9223 B	E. coli	8.6	MPN/ 100 mL	=	1	1	44		None		DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	2.00	03/17/09	08:50	SM 9223 B	E. coli	14.8	MPN/ 100 mL	=	1	1	8.6	Rlog 0.236	None	Rlog <1.3	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	SM 2340 C	Hardness as CaCO3	130	mg/L	=	8.5	20	190	FD RPD 37.5	Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.	RPD <25	DF=5
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 200.8	Lead (D)	0.074	µg/L	DNQ	0.071	0.25	0.073	FD RPD 1.36	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 200.8	Lead (T)	1.8	µg/L	=	0.071	0.25	1.8	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 200.8	Molybdenum (T)	2.4	µg/L	=	0.016	0.25	2.7	FD RPD 11.7	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 200.8	Nickel (D)	6.4	µg/L	=	0.01	0.5	6.6	FD RPD 3.07	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 200.8	Nickel (T)	8.2	µg/L	=	0.01	0.5	8.1	FD RPD 1.23	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 353.2	Nitrate + Nitrite as N	0.06	mg/L	=	0.02	0.05	0.13	FD RPD 73.6	Field duplicate RPD above QC limit.	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 351.3	Nitrogen, Total Kjeldahl	8.3	mg/L	=	0.06	0.1	8.1	FD RPD 2.44	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 365.2	OrthoPhosphate as P	1	mg/L	=	0.03	0.05	1	FD RPD 0	Analyte analyzed at a secondary dilution.	RPD <25	DF=5
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 365.2	Phosphate as P	2.3	mg/L	=	0.02	0.02	2.2	FD RPD 4.44	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 200.8	Selenium (T)	0.26	µg/L	DNQ	0.06	1	0.28	FD RPD 7.41	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 160.2	Suspended Solids	49	mg/L	=	2	3	50	FD RPD 2.02	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 415.1	Total Organic Carbon	46	mg/L	=	0.1	0.5	45	FD RPD 2.19	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 180.1	Turbidity	35	NTU	=	0.04	0.1	37	FD RPD 5.55	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 200.8	Zinc (D)	1.2	µg/L	=	0.8	1	1.4	FD RPD 15.4	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	03/17/09	08:50	EPA 200.8	Zinc (T)	10	µg/L	=	0.8	1	11	FD RPD 9.52	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 350.2	Ammonia as N	0.32	mg/L	=	0.06	0.1	0.35	FD RPD 8.95	None	RPD <25	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 200.8	Arsenic (T)	1.5	µg/L	=	0.008	0.5	1.5	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 200.8	Boron (T)	31	µg/L	=	0.47	10	32	FD RPD 3.17	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 200.8	Cadmium (D)	0.02	µg/L	DNQ	0.011	0.1	0.02	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 200.8	Cadmium (T)	0.03	µg/L	DNQ	0.011	0.1	0.03	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 200.8	Copper (D)	3.4	µg/L	=	0.06	0.5	3.4	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 200.8	Copper (T)	4.2	µg/L	=	0.06	0.5	4.3	FD RPD 2.35	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 160.1	Dissolved Solids	130	mg/L	=	8	20	130	FD RPD 0	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1	>2400		None		DF=1
Mootz Drain @ Langworth Rd	FD	2.00	2.00	04/21/09	09:00	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1	>2400	Rlog 0	None	Rlog <1.3	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	SM 2340 C	Hardness as CaCO3	40	mg/L	=	8.5	20	66	FD RPD 49	Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.	RPD <25	DF=5
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 200.8	Lead (D)	0.17	µg/L	DNQ	0.071	0.25	0.17	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 200.8	Lead (T)	0.46	µg/L	=	0.071	0.25	0.48	FD RPD 4.25	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 200.8	Molybdenum (T)	1.1	µg/L	=	0.016	0.25	1.1	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 200.8	Nickel (D)	2	µg/L	=	0.01	0.5	1.9	FD RPD 5.13	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 200.8	Nickel (T)	2.1	µg/L	=	0.01	0.5	2.2	FD RPD 4.65	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 353.2	Nitrate + Nitrite as N	0.22	mg/L	=	0.02	0.05	0.062	FD RPD 112	Field duplicate RPD above QC limit.	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 351.3	Nitrogen, Total Kjeldahl	1.9	mg/L	=	0.06	0.1	2	FD RPD 5.12	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 365.2	OrthoPhosphate as P	1	mg/L	=	0.006	0.01	1.1	FD RPD 9.52	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 365.2	Phosphate as P	1.3	mg/L	=	0.01	0.01	1.3	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 200.8	Selenium (T)	0.1	µg/L	DNQ	0.06	1	0.09	FD RPD 10.5	None	RPD <25	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 160.2	Suspended Solids	8	mg/L	=	2	3	14	FD RPD 54.5	Field duplicate RPD above QC limit.	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 415.1	Total Organic Carbon	15	mg/L	=	0.1	0.5	15	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 180.1	Turbidity	12	NTU	=	0.04	0.1	11	FD RPD 8.69	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 200.8	Zinc (D)	4.9	µg/L	=	0.8	1	4.7	FD RPD 4.16	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	04/21/09	09:00	EPA 200.8	Zinc (T)	8.4	µg/L	=	0.8	1	9	FD RPD 6.89	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	05/19/09	09:00	EPA 350.2	Ammonia as N	0.088	mg/L	DNQ	0.06	0.1	0.13	FD RPD 38.5	Field duplicate RPD above QC limit.	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	05/19/09	09:00	EPA 200.8	Boron (T)	35	µg/L	=	0.47	10	35	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	05/19/09	09:00	EPA 200.8	Copper (D)	2.8	µg/L	=	0.06	0.5	2.8	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	05/19/09	09:00	EPA 200.8	Copper (T)	4.1	µg/L	=	0.06	0.5	4.1	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	05/19/09	09:00	EPA 160.1	Dissolved Solids	150	mg/L	=	8	20	150	FD RPD 0	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	FD	2.00	1.00	05/19/09	09:00	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1	>2400		None		DF=1
Mootz Drain @ Langworth Rd	FD	2.00	2.00	05/19/09	09:00	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1	>2400	Rlog 0	None	Rlog <1.3	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	05/19/09	09:00	SM 2340 C	Hardness as CaCO3	69	mg/L	=	3.4	10	88	FD RPD 24.2	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	FD	2.00	1.00	05/19/09	09:00	EPA 200.8	Nickel (D)	1.6	µg/L	=	0.01	0.5	1.6	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	05/19/09	09:00	EPA 200.8	Nickel (T)	2	µg/L	=	0.01	0.5	2.1	FD RPD 4.87	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	05/19/09	09:00	EPA 353.2	Nitrate + Nitrite as N	0.046	mg/L	DNQ	0.02	0.05	0.087	FD RPD 61.6	Field duplicate RPD above QC limit.	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	05/19/09	09:00	EPA 365.2	Phosphate as P	2	mg/L	=	0.01	0.01	2.2	FD RPD 9.5	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	05/19/09	09:00	EPA 200.8	Selenium (T)	0.08	µg/L	DNQ	0.06	1	0.09	FD RPD 11.7	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	05/19/09	09:00	EPA 160.2	Suspended Solids	27	mg/L	=	2	3	25	FD RPD 7.69	None	RPD <25	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	1.00	05/19/09	09:00	EPA 415.1	Total Organic Carbon	16	mg/L	=	0.1	0.5	16	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	05/19/09	09:00	EPA 180.1	Turbidity	18	NTU	=	0.1	0.2	21	FD RPD 15.4	Analyte analyzed at a secondary dilution.	RPD <25	DF=5
Mootz Drain @ Langworth Rd	FD	2.00	1.00	05/19/09	09:00	EPA 200.8	Zinc (D)	2.6	µg/L	=	0.8	1	2.5	FD RPD 3.92	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	05/19/09	09:00	EPA 200.8	Zinc (T)	8	µg/L	=	0.8	1	7.3	FD RPD 9.15	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	06/16/09	09:20	EPA 350.2	Ammonia as N	0.49	mg/L	=	0.06	0.1	0.45	FD RPD 8.51	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	06/16/09	09:20	EPA 200.8	Boron (T)	37	µg/L	=	0.47	10	38	FD RPD 2.67	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	06/16/09	09:20	EPA 200.8	Copper (D)	3.1	µg/L	=	0.06	0.5	3	FD RPD 3.28	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	06/16/09	09:20	EPA 200.8	Copper (T)	4	µg/L	=	0.06	0.5	3.9	FD RPD 2.53	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	06/16/09	09:20	EPA 160.1	Dissolved Solids	140	mg/L	=	8	20	160	FD RPD 13.33	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	FD	2.00	2.00	06/16/09	09:20	SM 9223 B	E. coli	280	MPN/ 100 mL	=	1	1	370	Rlog 0.121	None	Rlog <1.3	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	06/16/09	09:20	SM 9223 B	E. coli	370	MPN/ 100 mL	=	1	1	390		None		DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	06/16/09	09:20	SM 2340 C	Hardness as CaCO3 (D)	200	mg/L	=	8.5	20	68	FD RPD 98.51	Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.	RPD <25	DF=5
Mootz Drain @ Langworth Rd	FD	2.00	1.00	06/16/09	09:20	EPA 200.8	Nickel (D)	1.6	µg/L	=	0.01	0.5	1.6	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	06/16/09	09:20	EPA 200.8	Nickel (T)	1.9	µg/L	=	0.01	0.5	1.8	FD RPD 5.41	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	06/16/09	09:20	EPA 353.2	Nitrate + Nitrite as N	0.17	mg/L	=	0.02	0.05	0.22	FD RPD 25.64	Field duplicate RPD above QC limit.	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	06/16/09	09:20	EPA 365.2	Phosphate as P	1.9	mg/L	=	0.01	0.01	1.8	FD RPD 5.41	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	06/16/09	09:20	EPA 200.8	Selenium (T)	0.09	µg/L	DNQ	0.06	1	0.07	FD RPD 25.00	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	06/16/09	09:20	EPA 160.2	Suspended Solids	21	mg/L	=	2	3	10	FD RPD 70.97	Field duplicate RPD above QC limit.	RPD <25	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	1.00	06/16/09	09:20	EPA 415.1	Total Organic Carbon	14	mg/L	=	0.1	0.5	14	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	06/16/09	09:20	EPA 180.1	Turbidity	12	NTU	=	0.02	0.05	12	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	06/16/09	09:20	EPA 200.8	Zinc (D)	2.7	µg/L	=	0.8	1	2.2	FD RPD 20.41	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	06/16/09	09:20	EPA 200.8	Zinc (T)	5.5	µg/L	=	0.8	1	5.2	FD RPD 5.61	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	07/21/09	09:00	EPA 350.2	Ammonia as N	0.29	mg/L	=	0.06	0.1	0.33	FD RPD 12.90	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	07/21/09	09:00	EPA 200.8	Boron (T)	23	µg/L	=	0.47	10	24	FD RPD 4.26	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	07/21/09	09:00	EPA 200.8	Copper (D)	2.4	µg/L	=	0.06	0.5	2.5	FD RPD 4.08	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	07/21/09	09:00	EPA 200.8	Copper (T)	2.9	µg/L	=	0.06	0.5	2.9	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	07/21/09	09:00	EPA 160.1	Dissolved Solids	110	mg/L	=	8	20	120	FD RPD 8.70	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	FD	2.00	1.00	07/21/09	09:00	SM 9223 B	E. coli	1600	MPN/ 100 mL	=	1	1	2000		None		DF=1
Mootz Drain @ Langworth Rd	FD	2.00	2.00	07/21/09	09:00	SM 9223 B	E. coli	1700	MPN/ 100 mL	=	1	1	1600	Rlog 0.026	None	Rlog <1.3	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	07/21/09	09:00	SM 2340 C	Hardness as CaCO3 (D)	53	mg/L	=	1.7	5	54	FD RPD 1.87	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	07/21/09	09:00	EPA 200.8	Nickel (D)	1.5	µg/L	=	0.01	0.5	1.5	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	07/21/09	09:00	EPA 200.8	Nickel (T)	1.5	µg/L	=	0.01	0.5	1.5	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	07/21/09	09:00	EPA 353.2	Nitrate + Nitrite as N	0.15	mg/L	=	0.02	0.05	0.14	FD RPD 6.90	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	07/21/09	09:00	EPA 365.2	Phosphate as P	1.3	mg/L	=	0.01	0.01	1.3	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	07/21/09	09:00	EPA 200.8	Selenium (T)	0.07	µg/L	DNQ	0.06	1	0.07	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	07/21/09	09:00	EPA 160.2	Suspended Solids	17	mg/L	=	2	3	7	FD RPD 83.33	Field duplicate RPD above QC limit.	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	07/21/09	09:00	EPA 415.1	Total Organic Carbon	12	mg/L	=	0.1	0.5	12	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	07/21/09	09:00	EPA 180.1	Turbidity	7	NTU	=	0.02	0.05	6.2	FD RPD 12.12	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	07/21/09	09:00	EPA 200.8	Zinc (D)	3.8	µg/L	=	0.8	1	3.4	FD RPD 11.11	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	07/21/09	09:00	EPA 200.8	Zinc (T)	5.2	µg/L	=	0.8	1	5	FD RPD 3.92	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	08/18/09	09:30	EPA 350.2	Ammonia as N	0.32	mg/L	=	0.06	0.1	0.38	FD RPD 17.14	None	RPD <25	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	1.00	08/18/09	09:30	EPA 200.8	Boron (T)	21	µg/L	=	0.47	10	27	FD RPD 25	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	08/18/09	09:30	EPA 200.8	Copper (D)	2.1	µg/L	=	0.06	0.5	2.3	FD RPD 9.09	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	08/18/09	09:30	EPA 200.8	Copper (T)	3.5	µg/L	=	0.06	0.5	3.7	FD RPD 5.56	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	08/18/09	09:30	EPA 160.1	Dissolved Solids	150	mg/L	=	8	20	110	FD RPD 30.77	Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	FD	2.00	2.00	08/18/09	09:30	SM 9223 B	E. coli	2400	MPN/ 100 mL	=	1	1	>2400	Rlog 0	None	Rlog <1.3	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	08/18/09	09:30	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1	>2400		None		DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	08/18/09	09:30	SM 2340 C	Hardness as CaCO3 (D)	63	mg/L	=	8.5	20	66	FD RPD 4.65	Analyte analyzed at a secondary dilution.	RPD <25	DF=5
Mootz Drain @ Langworth Rd	FD	2.00	1.00	08/18/09	09:30	EPA 200.8	Nickel (D)	1.2	µg/L	=	0.01	0.5	1.3	FD RPD 8	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	08/18/09	09:30	EPA 200.8	Nickel (T)	1.8	µg/L	=	0.01	0.5	1.9	FD RPD 5.41	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	08/18/09	09:30	EPA 353.2	Nitrate + Nitrite as N	0.095	mg/L	=	0.02	0.05	0.064	FD RPD 38.99	Field duplicate RPD above QC limit.	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	08/18/09	09:30	EPA 365.2	Phosphate as P	1.2	mg/L	=	0.01	0.01	1.2	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	08/18/09	09:30	EPA 200.8	Selenium (T)	0.08	µg/L	DNQ	0.06	1	0.07	FD RPD 13.33	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	08/18/09	09:30	EPA 160.2	Suspended Solids	31	mg/L	=	2	3	33	FD RPD 6.25	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	08/18/09	09:30	EPA 415.1	Total Organic Carbon	13	mg/L	=	0.1	0.5	13	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	08/18/09	09:30	EPA 180.1	Turbidity	21	NTU	=	0.04	0.1	22	FD RPD 4.65	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	FD	2.00	1.00	08/18/09	09:30	EPA 200.8	Zinc (D)	2.6	µg/L	=	0.8	1	2.6	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	08/18/09	09:30	EPA 200.8	Zinc (T)	6.6	µg/L	=	0.8	1	7.5	FD RPD 12.77	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	09/22/09	09:30	EPA 350.2	Ammonia as N	0.32	mg/L	=	0.06	0.1	0.4	FD RPD 22.22	None	RPD <25	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	1.00	09/22/09	09:30	EPA 200.8	Boron (T)	16	µg/L	=	0.47	10	21	FD RPD 27.03	Field duplicate RPD above QC limit.	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	09/22/09	09:30	EPA 200.8	Copper (D)	1.8	µg/L	=	0.06	0.5	1.8	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	09/22/09	09:30	EPA 200.8	Copper (T)	3.9	µg/L	=	0.06	0.5	4.2	FD RPD 7.41	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	09/22/09	09:30	EPA 160.1	Dissolved Solids	120	mg/L	=	8	20	110	FD RPD 8.70	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	FD	2.00	2.00	09/22/09	09:30	SM 9223 B	E. coli	1300	MPN/ 100 mL	=	1	1	1700	Rlog 0.117	None	Rlog <1.3	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	09/22/09	09:30	SM 9223 B	E. coli	1700	MPN/ 100 mL	=	1	1	1700		None		DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	09/22/09	09:30	SM 2340 C	Hardness as CaCO3 (D)	54	mg/L	=	1.7	5	66	FD RPD 20	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	09/22/09	09:30	EPA 200.8	Nickel (D)	1.2	µg/L	=	0.01	0.5	1.3	FD RPD 8	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	09/22/09	09:30	EPA 200.8	Nickel (T)	2	µg/L	=	0.01	0.5	2.2	FD RPD 9.52	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	09/22/09	09:30	EPA 353.2	Nitrate + Nitrite as N	0.069	mg/L	=	0.02	0.05	0.11	FD RPD 45.81	Field duplicate RPD above QC limit.	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	09/22/09	09:30	EPA 365.2	Phosphate as P	0.75	mg/L	=	0.01	0.01	0.73	FD RPD 2.70	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	09/22/09	09:30	EPA 200.8	Selenium (T)	0.07	µg/L	DNQ	0.06	1	0.06	FD RPD 15.38	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	09/22/09	09:30	EPA 160.2	Suspended Solids	44	mg/L	=	1	3	42	FD RPD 4.65	None	RPD <25	DF=0
Mootz Drain @ Langworth Rd	FD	2.00	1.00	09/22/09	09:30	EPA 415.1	Total Organic Carbon	9.3	mg/L	=	0.1	0.5	9.5	FD RPD 2.13	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	09/22/09	09:30	EPA 180.1	Turbidity	32	NTU	=	1	0.1	33	FD RPD 3.08	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	FD	2.00	1.00	09/22/09	09:30	EPA 200.8	Zinc (D)	2.3	µg/L	=	1	1	3.6	FD RPD 44.07	Field duplicate RPD above QC limit.	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	09/22/09	09:30	EPA 200.8	Zinc (T)	9.2	µg/L	=	1	1	9.1	FD RPD 1.09	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	10/20/09	09:00	EPA 350.2	Ammonia as N	1.3	mg/L	=	0.06	0.1	1.2	FD RPD 8	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	10/20/09	09:00	EPA 200.8	Boron (T)	22	µg/L	=	0.47	10	23	FD RPD 4.44	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	10/20/09	09:00	EPA 200.8	Copper (D)	3.3	µg/L	=	0.06	0.5	3.1	FD RPD 6.25	None	RPD <25	DF=1

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Mootz Drain @ Langworth Rd	FD	2.00	1.00	10/20/09	09:00	EPA 200.8	Copper (T)	5.1	µg/L	=	0.06	0.5	6.2	FD RPD 19.47	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	10/20/09	09:00	EPA 160.1	Dissolved Solids	150	mg/L	=	8	20	150	FD RPD 0	Analyte analyzed at a secondary dilution.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	FD	2.00	2.00	10/20/09	09:00	SM 9223 B	E. coli	200	MPN/ 100 mL	=	1	1	220	Rlog 0.041	None	Rlog <1.3	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	10/20/09	09:00	SM 9223 B	E. coli	220	MPN/ 100 mL	=	1	1	240		None		DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	10/20/09	09:00	SM 2340 C	Hardness as CaCO3 (D)	120	mg/L	=	8.5	20	52	FD RPD 79.07	Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.	RPD <25	DF=5
Mootz Drain @ Langworth Rd	FD	2.00	1.00	10/20/09	09:00	EPA 200.8	Nickel (D)	3	µg/L	=	0.01	0.5	3.1	FD RPD 3.28	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	10/20/09	09:00	EPA 200.8	Nickel (T)	3.9	µg/L	=	0.01	0.5	4.5	FD RPD 14.29	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	10/20/09	09:00	EPA 353.2	Nitrate + Nitrite as N	0.16	mg/L	=	0.02	0.05	0.17	FD RPD 6.06	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	10/20/09	09:00	EPA 365.2	Phosphate as P	1.9	mg/L	=	0.01	0.01	1.9	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	10/20/09	09:00	EPA 200.8	Selenium (T)	0.11	µg/L	DNQ	0.06	1	0.11	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	10/20/09	09:00	EPA 160.2	Suspended Solids	540	mg/L	=	4	6	1500	FD RPD 94.12	Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.	RPD <25	DF=2
Mootz Drain @ Langworth Rd	FD	2.00	1.00	10/20/09	09:00	EPA 415.1	Total Organic Carbon	23	mg/L	=	0.1	0.5	23	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	10/20/09	09:00	EPA 180.1	Turbidity	230	NTU	=	0.5	1	460	FD RPD 66.67	Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.	RPD <25	DF=25
Mootz Drain @ Langworth Rd	FD	2.00	1.00	10/20/09	09:00	EPA 200.8	Zinc (D)	2.1	µg/L	=	0.8	1	1.5	FD RPD 33.33	Field duplicate RPD above QC limit.	RPD <25	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	1.00	10/20/09	09:00	EPA 200.8	Zinc (T)	8.7	µg/L	=	0.8	1	15	FD RPD 53.16	Field duplicate RPD above QC limit.	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	11/17/09	09:30	EPA 350.2	Ammonia as N	5	mg/L	=	0.06	0.1	2.1	FD RPD 81.69	Field duplicate RPD above QC limit.	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	11/17/09	09:30	EPA 200.8	Boron (T)	22	µg/L	=	0.47	10	22	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	11/17/09	09:30	EPA 200.8	Copper (D)	1.8	µg/L	=	0.06	0.5	1.9	FD RPD 5.41	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	11/17/09	09:30	EPA 200.8	Copper (T)	9	µg/L	=	0.06	0.5	8.4	FD RPD 6.90	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	11/17/09	09:30	EPA 160.1	Dissolved Solids	210	mg/L	=	16	40	170	FD RPD 21.05	Analyte analyzed at a secondary dilution.	RPD <25	DF=4
Mootz Drain @ Langworth Rd	FD	2.00	1.00	11/17/09	09:30	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1	>2400		None		DF=1
Mootz Drain @ Langworth Rd	FD	2.00	2.00	11/17/09	09:30	SM 9223 B	E. coli	>2400	MPN/ 100 mL	=	1	1	>2400	Rlog 0	None	Rlog <1.3	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	11/17/09	09:30	SM 2340 C	Hardness as CaCO3 (D)	100	mg/L	=	1.7	5	100	FD RPD 0	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	11/17/09	09:30	EPA 200.8	Nickel (D)	3	µg/L	=	0.01	0.5	3.4	FD RPD 12.5	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	11/17/09	09:30	EPA 200.8	Nickel (T)	6.5	µg/L	=	0.01	0.5	6.1	FD RPD 6.35	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	11/17/09	09:30	EPA 353.2	Nitrate + Nitrite as N	0.1	mg/L	=	0.02	0.05	0.062	FD RPD 46.91	Field duplicate RPD above QC limit.	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	11/17/09	09:30	EPA 365.2	Phosphate as P	9.1	mg/L	=	0.1	0.1	2.6	FD RPD 111.11	Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.	RPD <25	DF=10
Mootz Drain @ Langworth Rd	FD	2.00	1.00	11/17/09	09:30	EPA 200.8	Selenium (T)	0.18	µg/L	DNQ	0.06	1	0.22	FD RPD 20	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	11/17/09	09:30	EPA 160.2	Suspended Solids	12000	mg/L	=	8	10	960	FD RPD 170.37	Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.	RPD <25	DF=4

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	FD	2.00	1.00	11/17/09	09:30	EPA 415.1	Total Organic Carbon	31	mg/L	=	0.1	0.5	36	FD RPD 14.93	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	11/17/09	09:30	EPA 180.1	Turbidity	4100	NTU	=	10	20	600	FD RPD 148.94	Analyte analyzed at a secondary dilution; Field Duplicate RPD above QC limit.	RPD <25	DF=500
Mootz Drain @ Langworth Rd	FD	2.00	1.00	11/17/09	09:30	EPA 200.8	Zinc (D)	2.3	µg/L	=	0.8	1	2.5	FD RPD 8.33	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	FD	2.00	1.00	11/17/09	09:30	EPA 200.8	Zinc (T)	34	µg/L	=	0.8	1	32	FD RPD 6.06	None	RPD <25	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	02/07/09	08:40	EPA 200.8	Arsenic (T)	<0.008	µg/L	ND	0.008	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	02/07/09	08:40	EPA 200.8	Boron (T)	1	µg/L	DNQ	0.47	10	<10		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	02/07/09	08:40	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	02/07/09	08:40	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	02/07/09	08:40	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25	0.25		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	02/07/09	08:40	EPA 200.8	Molybdenum (T)	<0.016	µg/L	ND	0.016	0.25	0.25		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	02/07/09	08:40	EPA 200.8	Nickel (T)	0.04	µg/L	DNQ	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	02/07/09	08:40	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	02/07/09	08:40	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	03/17/09	08:50	EPA 200.8	Arsenic (T)	0.03	µg/L	DNQ	0.008	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	03/17/09	08:50	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10	<10		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	03/17/09	08:50	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	03/17/09	08:50	EPA 200.8	Copper (T)	0.09	µg/L	DNQ	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	03/17/09	08:50	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25	0.25		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	03/17/09	08:50	EPA 200.8	Molybdenum (T)	0.06	µg/L	DNQ	0.016	0.25	0.25		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	03/17/09	08:50	EPA 200.8	Nickel (T)	0.03	µg/L	DNQ	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	03/17/09	08:50	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	03/17/09	08:50	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	TB	1.00	1.00	04/21/09	09:00	EPA 200.8	Arsenic (T)	0.01	µg/L	DNQ	0.008	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	04/21/09	09:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10	<10		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	04/21/09	09:00	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1	<0.1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	04/21/09	09:00	EPA 200.8	Copper (T)	0.23	µg/L	DNQ	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	04/21/09	09:00	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25	0.25		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	04/21/09	09:00	EPA 200.8	Molybdenum (T)	0.04	µg/L	DNQ	0.016	0.25	0.25		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	04/21/09	09:00	EPA 200.8	Nickel (T)	0.04	µg/L	DNQ	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	04/21/09	09:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	04/21/09	09:00	EPA 200.8	Zinc (T)	1.1	µg/L	=	0.8	1	<1		None	<RL	DF=1; Env sample = 9.0 (<1/5/ env sample)
Mootz Drain @ Langworth Rd	TB	1.00	1.00	05/19/09	09:00	EPA 200.8	Boron (T)	1.1	µg/L	DNQ	0.47	10	<10		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	05/19/09	09:00	EPA 200.8	Copper (T)	0.3	µg/L	DNQ	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	05/19/09	09:00	EPA 200.8	Nickel (T)	0.12	µg/L	DNQ	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	05/19/09	09:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	05/19/09	09:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	06/16/09	09:20	EPA 200.8	Boron (T)	0.8	µg/L	DNQ	0.47	10	<10		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	06/16/09	09:20	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	06/16/09	09:20	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	06/16/09	09:20	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	06/16/09	09:20	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	07/21/09	09:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10	<10		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	07/21/09	09:00	EPA 200.8	Copper (T)	0.47	µg/L	DNQ	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	07/21/09	09:00	EPA 200.8	Nickel (T)	0.4	µg/L	DNQ	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	07/21/09	09:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	<RL	DF=1

Station Name	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	TB	1.00	1.00	07/21/09	09:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	08/18/09	09:30	EPA 200.8	Boron (T)	1.8	µg/L	DNQ	0.47	10	<10		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	08/18/09	09:30	EPA 200.8	Copper (T)	0.39	µg/L	DNQ	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	08/18/09	09:30	EPA 200.8	Nickel (T)	0.1	µg/L	DNQ	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	08/18/09	09:30	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	08/18/09	09:30	EPA 200.8	Zinc (T)	0.9	µg/L	DNQ	0.8	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	09/22/09	09:30	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10	<10		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	09/22/09	09:30	EPA 200.8	Copper (T)	0.25	µg/L	DNQ	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	09/22/09	09:30	EPA 200.8	Nickel (T)	0.04	µg/L	DNQ	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	09/22/09	09:30	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	09/22/09	09:30	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	10/20/09	09:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10	<10		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	10/20/09	09:00	EPA 200.8	Copper (T)	0.06	µg/L	DNQ	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	10/20/09	09:00	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	10/20/09	09:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	10/20/09	09:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	11/17/09	09:30	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10	<10		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	11/17/09	09:30	EPA 200.8	Copper (T)	0.36	µg/L	DNQ	0.06	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	11/17/09	09:30	EPA 200.8	Nickel (T)	0.05	µg/L	DNQ	0.01	0.5	<0.5		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	11/17/09	09:30	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1	<1		None	<RL	DF=1
Mootz Drain @ Langworth Rd	TB	1.00	1.00	11/17/09	09:30	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1	<1		None	<RL	DF=1

Table III - 4. ESJWQC laboratory quality assurance (LABQA) results for inorganic analysis including physical parameters, nutrients, metals and bacteria.

Results include blanks (Lab Blank), matrix spikes (MS), and laboratory control spikes (LCS) for inorganic analysis. LABQA was performed for samples collected from October 2008 through December 2009 and results are sorted by sample type, station name, sample date and analyte. For laboratory control samples, the sample date is equal to the extraction date or analysis date; some LABQA samples may appear to be duplicates due to multiple batches run on the same date. Non Ag Waiver QA samples are samples from other projects included to meet batch requirements.

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Cottonwood Creek @ Rd 20	MS	2.00	05/19/09	09:10	EPA 415.1	Total Organic Carbon	13.42	mg/L	=	0.1	0.5	13.5	PR 99	RPD 0.5	None	PR 80-120 RPD <25	DF=1
Cottonwood Creek @ Rd 20	MS	1.00	05/19/09	09:10	EPA 415.1	Total Organic Carbon	13.35	mg/L	=	0.1	0.5	13.5	PR 98		None	PR 80-120	DF=1
Cottonwood Creek @ Rd 20	MS	1.00	08/18/09	10:40	EPA 415.1	Total Organic Carbon	14.02	mg/L	=	0.1	0.5	14.2	PR 98		None	PR 80-120	DF=1
Cottonwood Creek @ Rd 20	MS	2.00	08/18/09	10:40	EPA 415.1	Total Organic Carbon	13.99	mg/L	=	0.1	0.5	14.2	PR 98	RPD 0.2	None	PR 80-120 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 350.2	Ammonia as N	5.6897	mg/L	=	0.05	0.1	5.55	PR 103	RPD 0	None	PR 80-120 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 350.2	Ammonia as N	5.6897	mg/L	=	0.05	0.1	5.55	PR 103		None	PR 80-120	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 200.8	Arsenic (T)	28.29	µg/L	=	0.008	0.5	28.4	PR 99		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 200.8	Arsenic (T)	27.86	µg/L	=	0.008	0.5	28.4	PR 97	RPD 1.5	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 200.8	Boron (T)	56.98	µg/L	=	0.47	10	57	PR 99		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 200.8	Boron (T)	56.81	µg/L	=	0.47	10	57	PR 98	RPD 0.3	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 200.8	Cadmium (D)	18.67	µg/L	=	0.011	0.1	20	PR 93	RPD 1.9	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 200.8	Cadmium (D)	18.31	µg/L	=	0.011	0.1	20	PR 92		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 200.8	Cadmium (T)	18.34	µg/L	=	0.011	0.1	20.02	PR 92	RPD 2.5	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 200.8	Cadmium (T)	18.81	µg/L	=	0.011	0.1	20.02	PR 94		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 200.8	Copper (D)	20.04	µg/L	=	0.06	0.5	21.5	PR 93		None	PR 75-125	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 200.8	Copper (D)	20.39	µg/L	=	0.06	0.5	21.5	PR 94	RPD 1.7	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 200.8	Copper (T)	23.87	µg/L	=	0.06	0.5	24.8	PR 96		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 200.8	Copper (T)	23.44	µg/L	=	0.06	0.5	24.8	PR 93	RPD 1.8	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	SM 2340 C	Hardness as CaCO3	670	mg/L	=	8.5	20	670	PR 100		Analyte analyzed at a secondary dilution.	PR 80-120	DF=5
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	SM 2340 C	Hardness as CaCO3	670	mg/L	=	8.5	20	670	PR 100	RPD 0	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=5
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 200.8	Lead (D)	19.88	µg/L	=	0.071	0.25	20	PR 99	RPD 0.9	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 200.8	Lead (D)	19.7	µg/L	=	0.071	0.25	20	PR 99		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 200.8	Lead (T)	20.84	µg/L	=	0.071	0.25	20.72	PR 101		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 200.8	Lead (T)	20.3	µg/L	=	0.071	0.25	20.72	PR 98	RPD 2.6	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 200.8	Molybdenum (T)	25.28	µg/L	=	0.016	0.25	25.7	PR 98	RPD 2.1	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 200.8	Molybdenum (T)	25.82	µg/L	=	0.016	0.25	25.7	PR 101		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 200.8	Nickel (D)	20.87	µg/L	=	0.01	0.5	21.9	PR 95	RPD 1.3	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 200.8	Nickel (D)	20.61	µg/L	=	0.01	0.5	21.9	PR 94		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 200.8	Nickel (T)	24.42	µg/L	=	0.01	0.5	24.7	PR 99	RPD 1.3	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 200.8	Nickel (T)	24.74	µg/L	=	0.01	0.5	24.7	PR 100		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 353.2	Nitrate + Nitrite as N	1.1024	mg/L	=	0.02	0.05	1.22	PR 88		Matrix spike recovery not within control limits.	PR 80-120	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 353.2	Nitrate + Nitrite as N	1.0992	mg/L	=	0.02	0.05	1.22	PR 88	RPD 0.3	Matrix spike recovery not within control limits.	PR 80-120 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 351.3	Nitrogen, Total Kjeldahl	6.9967	mg/L	=	0.06	0.1	7.2	PR 96	RPD 1.6	None	PR 80-120 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 351.3	Nitrogen, Total Kjeldahl	7.1065	mg/L	=	0.06	0.1	7.2	PR 98		None	PR 80-120	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 365.2	OrthoPhosphate as P	0.293	mg/L	=	0.006	0.01	0.293	PR 100		None	PR 80-120	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 365.2	OrthoPhosphate as P	0.29	mg/L	=	0.006	0.01	0.293	PR 98	RPD 1	None	PR 80-120 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 365.2	Phosphate as P	1.243	mg/L	=	0.01	0.01	1.27	PR 97	RPD 0.6	None	PR 80-120 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 365.2	Phosphate as P	1.236	mg/L	=	0.01	0.01	1.27	PR 97		None	PR 80-120	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 200.8	Selenium (T)	19.99	µg/L	=	0.06	1	20.16	PR 99	RPD 0.3	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 200.8	Selenium (T)	20.06	µg/L	=	0.06	1	20.16	PR 100		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 415.1	Total Organic Carbon	18.98	mg/L	=	0.1	0.5	18.2	PR 107		None	PR 80-120	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 415.1	Total Organic Carbon	19.07	mg/L	=	0.1	0.5	18.2	PR 108	RPD 0.5	None	PR 80-120 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 200.8	Zinc (D)	19.84	µg/L	=	0.8	1	21	PR 94		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 200.8	Zinc (D)	19.63	µg/L	=	0.8	1	21	PR 93	RPD 1.1	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/16/08	12:00	EPA 200.8	Zinc (T)	27.07	µg/L	=	0.8	1	28	PR 94	RPD 2	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/16/08	12:00	EPA 200.8	Zinc (T)	27.62	µg/L	=	0.8	1	28	PR 97		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 350.2	Ammonia as N	10.4127	mg/L	=	0.05	0.1	10.5	PR 98	RPD 1.6	None	PR 80-120 RPD <25	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 350.2	Ammonia as N	10.2479	mg/L	=	0.05	0.1	10.5	PR 95		None	PR 80-120	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 200.8	Arsenic (T)	37.55	µg/L	=	0.008	0.5	38	PR 97	RPD 3.3	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 200.8	Arsenic (T)	36.32	µg/L	=	0.008	0.5	38	PR 91		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 200.8	Boron (T)	55.55	µg/L	=	0.47	10	56	PR 97	RPD 1.7	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 200.8	Boron (T)	54.64	µg/L	=	0.47	10	56	PR 93		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 200.8	Cadmium (D)	18.67	µg/L	=	0.011	0.1	20	PR 93	RPD 0.2	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 200.8	Cadmium (D)	18.64	µg/L	=	0.011	0.1	20	PR 93		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 200.8	Cadmium (T)	19.51	µg/L	=	0.011	0.1	20.1	PR 97	RPD 1.8	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 200.8	Cadmium (T)	19.16	µg/L	=	0.011	0.1	20.1	PR 95		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 200.8	Copper (D)	22.86	µg/L	=	0.06	0.5	24.3	PR 93	RPD 1.8	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 200.8	Copper (D)	22.45	µg/L	=	0.06	0.5	24.3	PR 91		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 200.8	Copper (T)	36.02	µg/L	=	0.06	0.5	37	PR 97	RPD 3.5	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 200.8	Copper (T)	34.78	µg/L	=	0.06	0.5	37	PR 90		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	SM 2340 C	Hardness as CaCO3	455.9	mg/L	=	3.4	10	490	PR 81		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	SM 2340 C	Hardness as CaCO3	458.7	mg/L	=	3.4	10	490	PR 83	RPD 0.6	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 200.8	Lead (D)	20.06	µg/L	=	0.071	0.25	20.23	PR 99	RPD 0.5	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 200.8	Lead (D)	19.96	µg/L	=	0.071	0.25	20.23	PR 99		None	PR 75-125	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 200.8	Lead (T)	23.78	µg/L	=	0.071	0.25	23.6	PR 101		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 200.8	Lead (T)	24.07	µg/L	=	0.071	0.25	23.6	PR 102	RPD 1.2	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 200.8	Molybdenum (T)	23.13	µg/L	=	0.016	0.25	24	PR 95		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 200.8	Molybdenum (T)	23.95	µg/L	=	0.016	0.25	24	PR 100	RPD 3.5	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 200.8	Nickel (D)	21.23	µg/L	=	0.01	0.5	23	PR 91		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 200.8	Nickel (D)	21.64	µg/L	=	0.01	0.5	23	PR 93	RPD 1.9	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 200.8	Nickel (T)	28.39	µg/L	=	0.01	0.5	28.2	PR 101	RPD 2.4	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 200.8	Nickel (T)	27.72	µg/L	=	0.01	0.5	28.2	PR 98		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 353.2	Nitrate + Nitrite as N	2.0706	mg/L	=	0.04	0.1	2.059	PR 101		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 353.2	Nitrate + Nitrite as N	2.0636	mg/L	=	0.04	0.1	2.059	PR 100	RPD 0.3	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 351.3	Nitrogen, Total Kjeldahl	18.6725	mg/L	=	0.06	0.1	19	PR 95	RPD 4.7	None	PR 80-120 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 351.3	Nitrogen, Total Kjeldahl	17.8076	mg/L	=	0.06	0.1	19	PR 78		Matrix spike recovery not within control limits.	PR 80-120	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 365.2	OrthoPhosphate as P	3.12	mg/L	=	0.06	0.1	3.2	PR 98		Analyte analyzed at a secondary dilution.	PR 80-120	DF=10
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 365.2	OrthoPhosphate as P	3.14	mg/L	=	0.06	0.1	3.2	PR 99	RPD 0.6	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=10
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 365.2	Phosphate as P	3.652	mg/L	=	0.05	0.05	3.7	PR 92	RPD 2.6	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=5
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 365.2	Phosphate as P	3.747	mg/L	=	0.05	0.05	3.7	PR 101		Analyte analyzed at a secondary dilution.	PR 80-120	DF=5

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 200.8	Selenium (T)	19.47	µg/L	=	0.06	1	20.51	PR 95		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 200.8	Selenium (T)	22.36	µg/L	=	0.06	1	20.51	PR 109	RPD 14	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 415.1	Total Organic Carbon	47.4	mg/L	=	0.1	0.5	46	PR 113	RPD 1.2	None	PR 80-120 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 415.1	Total Organic Carbon	47.96	mg/L	=	0.1	0.5	46	PR 118		None	PR 80-120	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 200.8	Zinc (D)	23.21	µg/L	=	0.8	1	25	PR 92		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 200.8	Zinc (D)	23.34	µg/L	=	0.8	1	25	PR 93	RPD 0.6	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	01/20/09	12:00	EPA 200.8	Zinc (T)	82.77	µg/L	=	0.8	1	87	PR 78		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	01/20/09	12:00	EPA 200.8	Zinc (T)	86.07	µg/L	=	0.8	1	87	PR 94	RPD 3.9	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 350.2	Ammonia as N	19.4964	mg/L	=	0.06	0.1	20	PR 98		None	PR 80-120	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 200.8	Arsenic (T)	28.2	µg/L	=	0.008	0.5	27.6	PR 103		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 200.8	Arsenic (T)	27.1	µg/L	=	0.008	0.5	27.6	PR 97	RPD 4	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 200.8	Boron (T)	80.69	µg/L	=	0.47	10	87	PR 70	RPD 2.4	Matrix spike recovery not within control limits.	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 200.8	Boron (T)	82.65	µg/L	=	0.47	10	87	PR 80		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 200.8	Cadmium (D)	18.1	µg/L	=	0.011	0.1	20	PR 91		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 200.8	Cadmium (D)	18.23	µg/L	=	0.011	0.1	20	PR 91	RPD 0.7	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 200.8	Cadmium (T)	19.32	µg/L	=	0.011	0.1	20.06	PR 96	RPD 5.3	None	PR 75-125 RPD <25	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 200.8	Cadmium (T)	20.38	µg/L	=	0.011	0.1	20.06	PR 102		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 200.8	Copper (D)	20.4	µg/L	=	0.06	0.5	22.5	PR 90		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 200.8	Copper (D)	20.57	µg/L	=	0.06	0.5	22.5	PR 90	RPD 0.8	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 200.8	Copper (T)	32.89	µg/L	=	0.06	0.5	32	PR 105		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 200.8	Copper (T)	31.14	µg/L	=	0.06	0.5	32	PR 96	RPD 5.5	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	SM 2340 C	Hardness as CaCO3 (D)	806	mg/L	=	8.5	20	830	PR 95		Analyte analyzed at a secondary dilution.	PR 80-120	DF=5
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	SM 2340 C	Hardness as CaCO3 (D)	891.5	mg/L	=	8.5	20	830	PR 112	RPD 10	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=5
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 200.8	Lead (D)	19.39	µg/L	=	0.071	0.25	20.11	PR 96		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 200.8	Lead (D)	19.14	µg/L	=	0.071	0.25	20.11	PR 95	RPD 1.3	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 200.8	Lead (T)	20.74	µg/L	=	0.071	0.25	21	PR 99	RPD 4.8	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 200.8	Lead (T)	21.75	µg/L	=	0.071	0.25	21	PR 104		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 200.8	Molybdenum (T)	23.32	µg/L	=	0.016	0.25	23	PR 101	RPD 6.9	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 200.8	Molybdenum (T)	24.99	µg/L	=	0.016	0.25	23	PR 110		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 200.8	Nickel (D)	21.77	µg/L	=	0.01	0.5	23.3	PR 92		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 200.8	Nickel (D)	21.71	µg/L	=	0.01	0.5	23.3	PR 92	RPD 0.3	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 200.8	Nickel (T)	27.55	µg/L	=	0.01	0.5	27	PR 103	RPD 2.2	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 200.8	Nickel (T)	28.17	µg/L	=	0.01	0.5	27	PR 106		None	PR 75-125	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 353.2	Nitrate + Nitrite as N	2.7374	mg/L	=	0.04	0.08	2.96	PR 89		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 353.2	Nitrate + Nitrite as N	2.7142	mg/L	=	0.04	0.08	2.96	PR 88	RPD 0.9	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 365.2	Phosphate as P	4.839	mg/L	=	0.05	0.05	4.8	PR 101	RPD 0.8	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=5
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 365.2	Phosphate as P	4.879	mg/L	=	0.05	0.05	4.8	PR 105		Analyte analyzed at a secondary dilution.	PR 80-120	DF=5
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 200.8	Selenium (T)	18.94	µg/L	=	0.06	1	20.65	PR 91		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 200.8	Selenium (T)	18.61	µg/L	=	0.06	1	20.65	PR 90	RPD 1.8	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 415.1	Total Organic Carbon	40.53	mg/L	=	0.1	0.5	40	PR 101	RPD 2.2	None	PR 80-120 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 415.1	Total Organic Carbon	39.66	mg/L	=	0.1	0.5	40	PR 93		None	PR 80-120	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 200.8	Zinc (D)	21.74	µg/L	=	0.8	1	24.3	PR 87	RPD 0.6	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 200.8	Zinc (D)	21.86	µg/L	=	0.8	1	24.3	PR 88		None	PR 75-125	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	2.00	12/15/09	12:30	EPA 200.8	Zinc (T)	47.44	µg/L	=	0.8	1	50	PR 87	RPD 6.7	None	PR 75-125 RPD <25	DF=1
Deadman Creek (Dutchman) @ Gurr Rd	MS	1.00	12/15/09	12:30	EPA 200.8	Zinc (T)	50.75	µg/L	=	0.8	1	50	PR 104		None	PR 75-125	DF=1
Dry Creek @ Wellsford Rd	MS	2.00	12/16/08	09:20	EPA 415.1	Total Organic Carbon	15.08	mg/L	=	0.1	0.5	14.2	PR 109	RPD 0.7	None	PR 80-120 RPD <25	DF=1
Dry Creek @ Wellsford Rd	MS	1.00	12/16/08	09:20	EPA 415.1	Total Organic Carbon	14.97	mg/L	=	0.1	0.5	14.2	PR 108		None	PR 80-120	DF=1
Dry Creek @ Wellsford Rd	MS	2.00	01/20/09	09:10	EPA 365.2	OrthoPhosphate as P	0.203	mg/L	=	0.006	0.01	0.206	PR 99	RPD 5.6	None	PR 80-120 RPD <25	DF=1
Dry Creek @ Wellsford Rd	MS	1.00	01/20/09	09:10	EPA 365.2	OrthoPhosphate as P	0.192	mg/L	=	0.006	0.01	0.206	PR 93		None	PR 80-120	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 350.2	Ammonia as N	5.2393	mg/L	=	0.05	0.1	5.088	PR 103	RPD 0.2	None	PR 80-120 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 350.2	Ammonia as N	5.2503	mg/L	=	0.05	0.1	5.088	PR 103		None	PR 80-120	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 200.8	Arsenic (T)	22.3	µg/L	=	0.008	0.5	21.9	PR 102	RPD 0.5	None	PR 75-125 RPD <25	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 200.8	Arsenic (T)	22.18	µg/L	=	0.008	0.5	21.9	PR 101		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 200.8	Boron (T)	89.28	µg/L	=	0.47	10	87	PR 109	RPD 0.3	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 200.8	Boron (T)	89.02	µg/L	=	0.47	10	87	PR 108		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 200.8	Cadmium (D)	22.94	µg/L	=	0.011	0.1	20	PR 115	RPD 21	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 200.8	Cadmium (D)	18.56	µg/L	=	0.011	0.1	20	PR 93		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 200.8	Cadmium (T)	19.72	µg/L	=	0.011	0.1	20	PR 99	RPD 0.8	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 200.8	Cadmium (T)	19.56	µg/L	=	0.011	0.1	20	PR 98		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 200.8	Copper (D)	25.3	µg/L	=	0.06	0.5	21.7	PR 118	RPD 20	Matrix spike recovery not within control limits.	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 200.8	Copper (D)	20.68	µg/L	=	0.06	0.5	21.7	PR 95		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 200.8	Copper (T)	22.49	µg/L	=	0.06	0.5	22.1	PR 102	RPD 1.2	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 200.8	Copper (T)	22.22	µg/L	=	0.06	0.5	22.1	PR 101		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	SM 2340 C	Hardness as CaCO3	210	mg/L	=	3	5	210	PR 98	RPD 0.9	None	PR 80-120 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	SM 2340 C	Hardness as CaCO3	212	mg/L	=	3	5	210	PR 100		None	PR 80-120	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 200.8	Lead (D)	19.49	µg/L	=	0.071	0.25	20	PR 97		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 200.8	Lead (D)	23.9	µg/L	=	0.071	0.25	20	PR 120	RPD 20	Matrix spike recovery not within control limits.	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 200.8	Lead (T)	20.67	µg/L	=	0.071	0.25	20	PR 103		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 200.8	Lead (T)	20.73	µg/L	=	0.071	0.25	20	PR 104	RPD 0.3	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 200.8	Molybdenum (T)	21.69	µg/L	=	0.016	0.25	21.4	PR 101	RPD 0.6	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 200.8	Molybdenum (T)	21.82	µg/L	=	0.016	0.25	21.4	PR 102		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 200.8	Nickel (D)	24.12	µg/L	=	0.01	0.5	20.6	PR 118	RPD 22	Matrix spike recovery not within control limits.	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 200.8	Nickel (D)	19.4	µg/L	=	0.01	0.5	20.6	PR 94		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 200.8	Nickel (T)	21.06	µg/L	=	0.01	0.5	20.7	PR 102		None	PR 75-125	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 200.8	Nickel (T)	21.23	µg/L	=	0.01	0.5	20.7	PR 103	RPD 0.8	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 353.2	Nitrate + Nitrite as N	2.0286	mg/L	=	0.04	0.1	2	PR 101		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 353.2	Nitrate + Nitrite as N	2.0314	mg/L	=	0.04	0.1	2	PR 102	RPD 0.1	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 351.3	Nitrogen, Total Kjeldahl	5.6786	mg/L	=	0.06	0.1	5.87	PR 96	RPD 4.5	None	PR 80-120 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 351.3	Nitrogen, Total Kjeldahl	5.9423	mg/L	=	0.06	0.1	5.87	PR 101		None	PR 80-120	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 365.2	OrthoPhosphate as P	0.199	mg/L	=	0.006	0.01	0.216	PR 92	RPD 1	None	PR 80-120 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 365.2	OrthoPhosphate as P	0.201	mg/L	=	0.006	0.01	0.216	PR 93		None	PR 80-120	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 365.2	Phosphate as P	1.017	mg/L	=	0.01	0.01	1.069	PR 95	RPD 0	None	PR 80-120 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 365.2	Phosphate as P	1.017	mg/L	=	0.01	0.01	1.069	PR 95		None	PR 80-120	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 200.8	Selenium (T)	21.72	µg/L	=	0.06	1	20.2	PR 108	RPD 1.8	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 200.8	Selenium (T)	21.34	µg/L	=	0.06	1	20.2	PR 106		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 415.1	Total Organic Carbon	14.51	mg/L	=	0.1	0.5	15	PR 95		None	PR 80-120	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 415.1	Total Organic Carbon	14.63	mg/L	=	0.1	0.5	15	PR 96	RPD 0.8	None	PR 80-120 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 200.8	Zinc (D)	23.22	µg/L	=	0.8	1	20	PR 116	RPD 21	Matrix spike recovery not within control limits.	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 200.8	Zinc (D)	18.81	µg/L	=	0.8	1	20	PR 94		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	10/21/08	10:40	EPA 200.8	Zinc (T)	20.75	µg/L	=	0.8	1	22	PR 94	RPD 0.1	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	10/21/08	10:40	EPA 200.8	Zinc (T)	20.77	µg/L	=	0.8	1	22	PR 94		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 350.2	Ammonia as N	5.7445	mg/L	=	0.05	0.1	5.65	PR 102		None	PR 80-120	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 350.2	Ammonia as N	5.7555	mg/L	=	0.05	0.1	5.65	PR 102	RPD 0.2	None	PR 80-120 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 200.8	Arsenic (T)	24.25	µg/L	=	0.008	0.5	24.1	PR 101		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 200.8	Arsenic (T)	24.13	µg/L	=	0.008	0.5	24.1	PR 100	RPD 0.5	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 200.8	Boron (T)	84.04	µg/L	=	0.47	10	83	PR 104		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 200.8	Boron (T)	84.56	µg/L	=	0.47	10	83	PR 107	RPD 0.6	None	PR 75-125 RPD <25	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 200.8	Cadmium (D)	19.21	µg/L	=	0.011	0.1	20	PR 96	RPD 2.2	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 200.8	Cadmium (D)	18.8	µg/L	=	0.011	0.1	20	PR 94		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 200.8	Cadmium (T)	19.08	µg/L	=	0.011	0.1	20.02	PR 95	RPD 1.1	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 200.8	Cadmium (T)	19.29	µg/L	=	0.011	0.1	20.02	PR 96		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 200.8	Copper (D)	22.48	µg/L	=	0.06	0.5	23.1	PR 97		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 200.8	Copper (D)	22.4	µg/L	=	0.06	0.5	23.1	PR 97	RPD 0.4	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 200.8	Copper (T)	23.3	µg/L	=	0.06	0.5	23.3	PR 100	RPD 0.3	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 200.8	Copper (T)	23.38	µg/L	=	0.06	0.5	23.3	PR 100		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	SM 2340 C	Hardness as CaCO3	202	mg/L	=	3	5	200	PR 100	RPD 0	None	PR 80-120 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	SM 2340 C	Hardness as CaCO3	202	mg/L	=	3	5	200	PR 100		None	PR 80-120	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 200.8	Lead (D)	20.08	µg/L	=	0.071	0.25	20	PR 100	RPD 1.8	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 200.8	Lead (D)	19.72	µg/L	=	0.071	0.25	20	PR 99		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 200.8	Lead (T)	20.35	µg/L	=	0.071	0.25	20	PR 102	RPD 1.4	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 200.8	Lead (T)	20.63	µg/L	=	0.071	0.25	20	PR 103		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 200.8	Molybdenum (T)	23.63	µg/L	=	0.016	0.25	22.5	PR 105		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 200.8	Molybdenum (T)	23.44	µg/L	=	0.016	0.25	22.5	PR 104	RPD 0.8	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 200.8	Nickel (D)	20.54	µg/L	=	0.01	0.5	20.7	PR 99		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 200.8	Nickel (D)	20.43	µg/L	=	0.01	0.5	20.7	PR 99	RPD 0.5	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 200.8	Nickel (T)	20.79	µg/L	=	0.01	0.5	20.6	PR 101	RPD 0.4	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 200.8	Nickel (T)	20.88	µg/L	=	0.01	0.5	20.6	PR 101		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 351.3	Nitrogen, Total Kjeldahl	6.9308	mg/L	=	0.06	0.1	6.7	PR 104	RPD 0.8	None	PR 80-120 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 351.3	Nitrogen, Total Kjeldahl	6.8759	mg/L	=	0.06	0.1	6.7	PR 103		None	PR 80-120	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 365.2	OrthoPhosphate as P	0.218	mg/L	=	0.006	0.01	0.237	PR 91	RPD 0.5	None	PR 80-120 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 365.2	OrthoPhosphate as P	0.219	mg/L	=	0.006	0.01	0.237	PR 91		None	PR 80-120	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 365.2	Phosphate as P	1.039	mg/L	=	0.01	0.01	1.1	PR 94		None	PR 80-120	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 365.2	Phosphate as P	1.048	mg/L	=	0.01	0.01	1.1	PR 95	RPD 0.9	None	PR 80-120 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 200.8	Selenium (T)	18.79	µg/L	=	0.06	1	20.21	PR 93		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 200.8	Selenium (T)	19.04	µg/L	=	0.06	1	20.21	PR 94	RPD 1.3	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 415.1	Total Organic Carbon	18.96	mg/L	=	0.1	0.5	20	PR 90	RPD 0.2	None	PR 80-120 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 415.1	Total Organic Carbon	18.92	mg/L	=	0.1	0.5	20	PR 90		None	PR 80-120	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 200.8	Zinc (D)	21.31	µg/L	=	0.8	1	22	PR 96		None	PR 75-125	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 200.8	Zinc (D)	21.87	µg/L	=	0.8	1	22	PR 99	RPD 2.6	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	2.00	11/11/08	11:10	EPA 200.8	Zinc (T)	22.4	µg/L	=	0.8	1	23	PR 96	RPD 2.9	None	PR 75-125 RPD <25	DF=1
Lateral 2 1/2 near Keys Rd	MS	1.00	11/11/08	11:10	EPA 200.8	Zinc (T)	23.07	µg/L	=	0.8	1	23	PR 100		None	PR 75-125	DF=1
Merced River @ Santa Fe	MS	1.00	07/21/09	15:40	EPA 200.8	Boron (T)	28.49	µg/L	=	0.47	10	26.9	PR 108		None	PR 75-125	DF=1
Merced River @ Santa Fe	MS	2.00	07/21/09	15:40	EPA 200.8	Boron (T)	27.95	µg/L	=	0.47	10	26.9	PR 105	RPD 1.9	None	PR 75-125 RPD <25	DF=1
Merced River @ Santa Fe	MS	2.00	07/21/09	15:40	EPA 200.8	Copper (T)	21.92	µg/L	=	0.06	0.5	20.41	PR 108	RPD 0.1	None	PR 75-125 RPD <25	DF=1
Merced River @ Santa Fe	MS	1.00	07/21/09	15:40	EPA 200.8	Copper (T)	21.89	µg/L	=	0.06	0.5	20.41	PR 107		None	PR 75-125	DF=1
Merced River @ Santa Fe	MS	1.00	07/21/09	15:40	EPA 200.8	Nickel (T)	20.94	µg/L	=	0.01	0.5	20.35	PR 103		None	PR 75-125	DF=1
Merced River @ Santa Fe	MS	2.00	07/21/09	15:40	EPA 200.8	Nickel (T)	20.93	µg/L	=	0.01	0.5	20.35	PR 103	RPD 0	None	PR 75-125 RPD <25	DF=1
Merced River @ Santa Fe	MS	1.00	07/21/09	15:40	EPA 200.8	Selenium (T)	20.03	µg/L	=	0.06	1	20	PR 100		None	PR 75-125	DF=1
Merced River @ Santa Fe	MS	2.00	07/21/09	15:40	EPA 200.8	Selenium (T)	19.95	µg/L	=	0.06	1	20	PR 100	RPD 0.4	None	PR 75-125 RPD <25	DF=1
Merced River @ Santa Fe	MS	2.00	07/21/09	15:40	EPA 200.8	Zinc (T)	21.65	µg/L	=	0.8	1	22.5	PR 96	RPD 22	None	PR 75-125 RPD <25	DF=1
Merced River @ Santa Fe	MS	1.00	07/21/09	15:40	EPA 200.8	Zinc (T)	26.96	µg/L	=	0.8	1	22.5	PR 122		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 350.2	Ammonia as N	5.3381	mg/L	=	0.05	0.1	5.4	PR 99		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 350.2	Ammonia as N	5.3381	mg/L	=	0.05	0.1	5.4	PR 99	RPD 0	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 200.8	Arsenic (T)	24.53	µg/L	=	0.008	0.5	25.5	PR 95		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 200.8	Arsenic (T)	24.94	µg/L	=	0.008	0.5	25.5	PR 97	RPD 1.7	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 200.8	Boron (T)	59.45	µg/L	=	0.47	10	57	PR 110		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 200.8	Boron (T)	59.94	µg/L	=	0.47	10	57	PR 113	RPD 0.8	None	PR 75-125 RPD <25	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 200.8	Cadmium (D)	19.54	µg/L	=	0.011	0.1	20	PR 98	RPD 1	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 200.8	Cadmium (D)	19.35	µg/L	=	0.011	0.1	20	PR 97		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 200.8	Cadmium (T)	19.44	µg/L	=	0.011	0.1	20.02	PR 97		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 200.8	Cadmium (T)	19.92	µg/L	=	0.011	0.1	20.02	PR 100	RPD 2.4	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 200.8	Copper (D)	23.02	µg/L	=	0.06	0.5	23	PR 100	RPD 2.3	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 200.8	Copper (D)	22.5	µg/L	=	0.06	0.5	23	PR 98		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 200.8	Copper (T)	23.94	µg/L	=	0.06	0.5	24.2	PR 99		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 200.8	Copper (T)	24.44	µg/L	=	0.06	0.5	24.2	PR 101	RPD 2.1	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	SM 2340 C	Hardness as CaCO3	615.7	mg/L	=	8.5	20	650	PR 92		Analyte analyzed at a secondary dilution.	PR 80-120	DF=5
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	SM 2340 C	Hardness as CaCO3	620	mg/L	=	8.5	20	650	PR 93	RPD 0.7	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=5
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 200.8	Lead (D)	19.98	µg/L	=	0.071	0.25	20.08	PR 100		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 200.8	Lead (D)	20.02	µg/L	=	0.071	0.25	20.08	PR 100	RPD 0.2	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 200.8	Lead (T)	20.9	µg/L	=	0.071	0.25	20.57	PR 102	RPD 1.7	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 200.8	Lead (T)	20.55	µg/L	=	0.071	0.25	20.57	PR 100		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 200.8	Molybdenum (T)	23.47	µg/L	=	0.016	0.25	21.8	PR 108	RPD 2.6	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 200.8	Molybdenum (T)	22.87	µg/L	=	0.016	0.25	21.8	PR 105		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 200.8	Nickel (D)	22.7	µg/L	=	0.01	0.5	23.1	PR 98		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 200.8	Nickel (D)	23.4	µg/L	=	0.01	0.5	23.1	PR 101	RPD 3	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 200.8	Nickel (T)	24.33	µg/L	=	0.01	0.5	23.6	PR 104	RPD 2.3	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 200.8	Nickel (T)	23.77	µg/L	=	0.01	0.5	23.6	PR 101		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 353.2	Nitrate + Nitrite as N	2.064	mg/L	=	0.04	0.1	2.11	PR 98	RPD 1.3	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 353.2	Nitrate + Nitrite as N	2.0906	mg/L	=	0.04	0.1	2.11	PR 99		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 351.3	Nitrogen, Total Kjeldahl	7.1065	mg/L	=	0.06	0.1	7.2	PR 98		None	PR 80-120	DF=1

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Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 351.3	Nitrogen, Total Kjeldahl	7.0297	mg/L	=	0.06	0.1	7.2	PR 97	RPD 1.1	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 365.2	OrthoPhosphate as P	0.862	mg/L	=	0.006	0.01	0.84	PR 113	RPD 0	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 365.2	OrthoPhosphate as P	0.862	mg/L	=	0.006	0.01	0.84	PR 113		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 365.2	Phosphate as P	1.692	mg/L	=	0.01	0.01	1.78	PR 92		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 365.2	Phosphate as P	1.689	mg/L	=	0.01	0.01	1.78	PR 91	RPD 0.2	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 200.8	Selenium (T)	19.16	µg/L	=	0.06	1	20.11	PR 95	RPD 0.8	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 200.8	Selenium (T)	19.31	µg/L	=	0.06	1	20.11	PR 96		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 415.1	Total Organic Carbon	29.6	mg/L	=	0.1	0.5	30	PR 98		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 415.1	Total Organic Carbon	29.25	mg/L	=	0.1	0.5	30	PR 94	RPD 1.2	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 200.8	Zinc (D)	20.38	µg/L	=	0.8	1	21	PR 96	RPD 0.8	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 200.8	Zinc (D)	20.21	µg/L	=	0.8	1	21	PR 95		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	02/07/09	08:40	EPA 200.8	Zinc (T)	25.05	µg/L	=	0.8	1	25	PR 101	RPD 1.6	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	02/07/09	08:40	EPA 200.8	Zinc (T)	24.65	µg/L	=	0.8	1	25	PR 99		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 350.2	Ammonia as N	5.6567	mg/L	=	0.05	0.1	5.74	PR 98	RPD 1.8	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 350.2	Ammonia as N	5.5578	mg/L	=	0.05	0.1	5.74	PR 96		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 200.8	Arsenic (T)	27.41	µg/L	=	0.008	0.5	27.3	PR 101	RPD 0.2	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 200.8	Arsenic (T)	27.46	µg/L	=	0.008	0.5	27.3	PR 101		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 200.8	Boron (T)	93.41	µg/L	=	0.47	10	83	PR 154		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 200.8	Boron (T)	94.91	µg/L	=	0.47	10	83	PR 162	RPD 1.6	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 200.8	Cadmium (D)	18.57	µg/L	=	0.011	0.1	20	PR 93	RPD 0.2	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 200.8	Cadmium (D)	18.61	µg/L	=	0.011	0.1	20	PR 93		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 200.8	Cadmium (T)	19.47	µg/L	=	0.011	0.1	20.04	PR 97	RPD 0.7	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 200.8	Cadmium (T)	19.33	µg/L	=	0.011	0.1	20.04	PR 96		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 200.8	Copper (D)	21.84	µg/L	=	0.06	0.5	23.5	PR 92	RPD 0.2	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 200.8	Copper (D)	21.88	µg/L	=	0.06	0.5	23.5	PR 92		None	PR 75-125	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 200.8	Copper (T)	26.99	µg/L	=	0.06	0.5	25.8	PR 106	RPD 5.9	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 200.8	Copper (T)	25.45	µg/L	=	0.06	0.5	25.8	PR 98		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	SM 2340 C	Hardness as CaCO3	585.1	mg/L	=	8.5	20	690	PR 79		Analyte analyzed at a secondary dilution; Matrix spike recovery not within control limits.	PR 80-120	DF=5
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	SM 2340 C	Hardness as CaCO3	592.3	mg/L	=	8.5	20	690	PR 81	RPD 1.2	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=5
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 200.8	Lead (D)	20.34	µg/L	=	0.071	0.25	20.07	PR 101	RPD 0.5	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 200.8	Lead (D)	20.24	µg/L	=	0.071	0.25	20.07	PR 101		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 200.8	Lead (T)	22.47	µg/L	=	0.071	0.25	21.8	PR 103	RPD 0.5	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 200.8	Lead (T)	22.36	µg/L	=	0.071	0.25	21.8	PR 103		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 200.8	Molybdenum (T)	21.26	µg/L	=	0.016	0.25	22.7	PR 93		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 200.8	Molybdenum (T)	21.67	µg/L	=	0.016	0.25	22.7	PR 95	RPD 1.9	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 200.8	Nickel (D)	25.07	µg/L	=	0.01	0.5	26.6	PR 92	RPD 1	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 200.8	Nickel (D)	24.82	µg/L	=	0.01	0.5	26.6	PR 91		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 200.8	Nickel (T)	28.51	µg/L	=	0.01	0.5	28.1	PR 102	RPD 1.5	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 200.8	Nickel (T)	28.95	µg/L	=	0.01	0.5	28.1	PR 104		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 353.2	Nitrate + Nitrite as N	2.0688	mg/L	=	0.04	0.1	2.13	PR 97		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 353.2	Nitrate + Nitrite as N	2.079	mg/L	=	0.04	0.1	2.13	PR 97	RPD 0.5	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 351.3	Nitrogen, Total Kjeldahl	13.3124	mg/L	=	0.06	0.1	13.1	PR 103		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 351.3	Nitrogen, Total Kjeldahl	12.258	mg/L	=	0.06	0.1	13.1	PR 82	RPD 8.2	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 365.2	OrthoPhosphate as P	2.16	mg/L	=	0.03	0.05	2	PR 115	RPD 4.3	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=5
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 365.2	OrthoPhosphate as P	2.07	mg/L	=	0.03	0.05	2	PR 106		Analyte analyzed at a secondary dilution.	PR 80-120	DF=5

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 365.2	Phosphate as P	3.171	mg/L	=	0.02	0.02	3.2	PR 101	RPD 1	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 365.2	Phosphate as P	3.139	mg/L	=	0.02	0.02	3.2	PR 98		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 200.8	Selenium (T)	18.17	µg/L	=	0.06	1	20.28	PR 89		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 200.8	Selenium (T)	18.51	µg/L	=	0.06	1	20.28	PR 91	RPD 1.9	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 415.1	Total Organic Carbon	54.22	mg/L	=	0.1	0.5	55	PR 95	RPD 0.1	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 415.1	Total Organic Carbon	54.14	mg/L	=	0.1	0.5	55	PR 94		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 200.8	Zinc (D)	20.53	µg/L	=	0.8	1	21.4	PR 96		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 200.8	Zinc (D)	19.9	µg/L	=	0.8	1	21.4	PR 93	RPD 3.1	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	03/17/09	08:50	EPA 200.8	Zinc (T)	32.01	µg/L	=	0.8	1	31	PR 106		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	03/17/09	08:50	EPA 200.8	Zinc (T)	31.65	µg/L	=	0.8	1	31	PR 105	RPD 1.1	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 350.2	Ammonia as N	5.2503	mg/L	=	0.06	0.1	5.35	PR 98	RPD 1.3	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 350.2	Ammonia as N	5.1844	mg/L	=	0.06	0.1	5.35	PR 97		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 200.8	Arsenic (T)	21.84	µg/L	=	0.008	0.5	21.5	PR 102		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 200.8	Arsenic (T)	21.52	µg/L	=	0.008	0.5	21.5	PR 100	RPD 1.5	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 200.8	Boron (T)	51.6	µg/L	=	0.47	10	52	PR 98	RPD 8.5	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 200.8	Boron (T)	56.2	µg/L	=	0.47	10	52	PR 121		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 200.8	Cadmium (D)	19.11	µg/L	=	0.011	0.1	20.02	PR 95		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 200.8	Cadmium (D)	18.99	µg/L	=	0.011	0.1	20.02	PR 95	RPD 0.6	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 200.8	Cadmium (T)	19.87	µg/L	=	0.011	0.1	20.03	PR 99	RPD 2.6	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 200.8	Cadmium (T)	20.39	µg/L	=	0.011	0.1	20.03	PR 102		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 200.8	Copper (D)	22.38	µg/L	=	0.06	0.5	23.4	PR 95	RPD 0.7	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 200.8	Copper (D)	22.53	µg/L	=	0.06	0.5	23.4	PR 96		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 200.8	Copper (T)	24.49	µg/L	=	0.06	0.5	24.3	PR 101	RPD 3	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 200.8	Copper (T)	25.23	µg/L	=	0.06	0.5	24.3	PR 105		None	PR 75-125	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	SM 2340 C	Hardness as CaCO3	155.4	mg/L	=	1.7	5	166	PR 89		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	SM 2340 C	Hardness as CaCO3	155.4	mg/L	=	1.7	5	166	PR 89	RPD 0	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 200.8	Lead (D)	19.47	µg/L	=	0.071	0.25	20.17	PR 97	RPD 2.1	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 200.8	Lead (D)	19.88	µg/L	=	0.071	0.25	20.17	PR 99		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 200.8	Lead (T)	21.44	µg/L	=	0.071	0.25	20.48	PR 105		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 200.8	Lead (T)	21.02	µg/L	=	0.071	0.25	20.48	PR 103	RPD 2	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 200.8	Molybdenum (T)	21.46	µg/L	=	0.016	0.25	21.1	PR 102		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 200.8	Molybdenum (T)	20.89	µg/L	=	0.016	0.25	21.1	PR 99	RPD 2.7	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 200.8	Nickel (D)	20.95	µg/L	=	0.01	0.5	21.9	PR 95	RPD 0.7	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 200.8	Nickel (D)	21.1	µg/L	=	0.01	0.5	21.9	PR 96		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 200.8	Nickel (T)	23.4	µg/L	=	0.01	0.5	22.2	PR 106		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 200.8	Nickel (T)	22.62	µg/L	=	0.01	0.5	22.2	PR 102	RPD 3.4	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 353.2	Nitrate + Nitrite as N	2.1744	mg/L	=	0.04	0.1	2.062	PR 106		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 353.2	Nitrate + Nitrite as N	2.2606	mg/L	=	0.04	0.1	2.062	PR 110	RPD 3.9	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 351.3	Nitrogen, Total Kjeldahl	6.8759	mg/L	=	0.06	0.1	7	PR 98		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 351.3	Nitrogen, Total Kjeldahl	6.8759	mg/L	=	0.06	0.1	7	PR 98	RPD 0	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 365.2	OrthoPhosphate as P	1.554	mg/L	=	0.01	0.02	1.5	PR 110		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 365.2	OrthoPhosphate as P	1.514	mg/L	=	0.01	0.02	1.5	PR 100	RPD 2.6	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 365.2	Phosphate as P	1.96	mg/L	=	0.01	0.01	2.3	PR 62		Matrix spike recovery not within control limits.	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 365.2	Phosphate as P	1.953	mg/L	=	0.01	0.01	2.3	PR 61	RPD 0.4	Matrix spike recovery not within control limits.	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 200.8	Selenium (T)	18.29	µg/L	=	0.06	1	20.09	PR 91		None	PR 75-125	DF=1

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Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 200.8	Selenium (T)	17.95	µg/L	=	0.06	1	20.09	PR 89	RPD 1.9	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 415.1	Total Organic Carbon	24.42	mg/L	=	0.1	0.5	25	PR 96		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 415.1	Total Organic Carbon	24.49	mg/L	=	0.1	0.5	25	PR 96	RPD 0.3	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 200.8	Zinc (D)	24.1	µg/L	=	0.8	1	24.7	PR 97		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 200.8	Zinc (D)	23.62	µg/L	=	0.8	1	24.7	PR 95	RPD 2	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	04/21/09	09:00	EPA 200.8	Zinc (T)	29.49	µg/L	=	0.8	1	29	PR 102		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	04/21/09	09:00	EPA 200.8	Zinc (T)	28.93	µg/L	=	0.8	1	29	PR 100	RPD 1.9	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 350.2	Ammonia as N	5.0196	mg/L	=	0.06	0.1	5.13	PR 98	RPD 0	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 350.2	Ammonia as N	5.0196	mg/L	=	0.06	0.1	5.13	PR 98		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 200.8	Boron (T)	53.9	µg/L	=	0.47	10	55	PR 94	RPD 2.8	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 200.8	Boron (T)	55.44	µg/L	=	0.47	10	55	PR 101		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 200.8	Copper (D)	21.37	µg/L	=	0.06	0.5	22.8	PR 93	RPD 2.8	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 200.8	Copper (D)	21.98	µg/L	=	0.06	0.5	22.8	PR 96		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 200.8	Copper (T)	24.06	µg/L	=	0.06	0.5	24.1	PR 100	RPD 2.1	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 200.8	Copper (T)	24.56	µg/L	=	0.06	0.5	24.1	PR 102		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	SM 2340 C	Hardness as CaCO3	534.5	mg/L	=	8.5	20	588	PR 89	RPD 1.1	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=5
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	SM 2340 C	Hardness as CaCO3	540.3	mg/L	=	8.5	20	588	PR 90		Analyte analyzed at a secondary dilution.	PR 80-120	DF=5
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 200.8	Nickel (D)	20.55	µg/L	=	0.01	0.5	21.6	PR 95		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 200.8	Nickel (D)	20.45	µg/L	=	0.01	0.5	21.6	PR 94	RPD 0.5	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 200.8	Nickel (T)	22.15	µg/L	=	0.01	0.5	22.1	PR 100	RPD 3.7	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 200.8	Nickel (T)	22.99	µg/L	=	0.01	0.5	22.1	PR 105		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 353.2	Nitrate + Nitrite as N	2.045	mg/L	=	0.04	0.1	2.087	PR 98		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 353.2	Nitrate + Nitrite as N	2.0368	mg/L	=	0.04	0.1	2.087	PR 97	RPD 0.4	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 365.2	Phosphate as P	3.261	mg/L	=	0.05	0.05	3.2	PR 105	RPD 0	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=5
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 365.2	Phosphate as P	3.261	mg/L	=	0.05	0.05	3.2	PR 105		Analyte analyzed at a secondary dilution.	PR 80-120	DF=5
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 200.8	Selenium (T)	20.08	µg/L	=	0.06	1	20.09	PR 100		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 200.8	Selenium (T)	19.86	µg/L	=	0.06	1	20.09	PR 99	RPD 1.1	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 415.1	Total Organic Carbon	25.86	mg/L	=	0.1	0.5	26	PR 97	RPD 1	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 415.1	Total Organic Carbon	26.11	mg/L	=	0.1	0.5	26	PR 100		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 200.8	Zinc (D)	22.23	µg/L	=	0.8	1	22.5	PR 99		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 200.8	Zinc (D)	21.59	µg/L	=	0.8	1	22.5	PR 96	RPD 2.9	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	05/19/09	09:00	EPA 200.8	Zinc (T)	28.16	µg/L	=	0.8	1	27.3	PR 104		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	05/19/09	09:00	EPA 200.8	Zinc (T)	27.69	µg/L	=	0.8	1	27.3	PR 102	RPD 1.7	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 350.2	Ammonia as N	5.426	mg/L	=	0.06	0.1	5.45	PR 100		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 350.2	Ammonia as N	5.3491	mg/L	=	0.06	0.1	5.45	PR 98	RPD 1.4	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 200.8	Boron (T)	55.34	µg/L	=	0.47	10	58	PR 85	RPD 3.4	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 200.8	Boron (T)	57.27	µg/L	=	0.47	10	58	PR 95		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 200.8	Copper (D)	22.4	µg/L	=	0.06	0.5	23	PR 97		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 200.8	Copper (D)	22.46	µg/L	=	0.06	0.5	23	PR 97	RPD 0.3	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 200.8	Copper (T)	23.37	µg/L	=	0.06	0.5	23.9	PR 97		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 200.8	Copper (T)	23.19	µg/L	=	0.06	0.5	23.9	PR 96	RPD 0.8	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	SM 2340 C	Hardness as CaCO3 (D)	154.5	mg/L	=	1.7	5	168	PR 86	RPD 6.8	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	SM 2340 C	Hardness as CaCO3 (D)	144.3	mg/L	=	1.7	5	168	PR 76		Matrix spike recovery not within control limits.	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	SM 2340 C	Hardness as CaCO3 (D)	556.7	mg/L	=	8.5	20	700	PR 72		Analyte analyzed at a secondary dilution; Matrix spike recovery not within control limits.	PR 80-120	DF=5

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Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	SM 2340 C	Hardness as CaCO3 (D)	533.9	mg/L	=	8.5	20	700	PR 67	RPD 4.2	Analyte analyzed at a secondary dilution; Matrix spike recovery not within control limits.	PR 80-120 RPD <25	DF=5
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 200.8	Nickel (D)	21.08	µg/L	=	0.01	0.5	21.6	PR 97	RPD 0.2	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 200.8	Nickel (D)	21.13	µg/L	=	0.01	0.5	21.6	PR 98		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 200.8	Nickel (T)	21.68	µg/L	=	0.01	0.5	21.8	PR 99		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 200.8	Nickel (T)	21.37	µg/L	=	0.01	0.5	21.8	PR 98	RPD 1.4	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 353.2	Nitrate + Nitrite as N	1.9982	mg/L	=	0.04	0.08	2.22	PR 89	RPD 7.3	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 353.2	Nitrate + Nitrite as N	2.1486	mg/L	=	0.04	0.08	2.22	PR 96		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 365.2	Phosphate as P	2.885	mg/L	=	0.02	0.02	2.8	PR 105		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 365.2	Phosphate as P	2.86	mg/L	=	0.02	0.02	2.8	PR 102	RPD 0.9	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 200.8	Selenium (T)	19.84	µg/L	=	0.06	1	20.07	PR 99		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 200.8	Selenium (T)	19.66	µg/L	=	0.06	1	20.07	PR 98	RPD 0.9	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 415.1	Total Organic Carbon	24.32	mg/L	=	0.1	0.5	24	PR 102	RPD 0.9	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 415.1	Total Organic Carbon	24.11	mg/L	=	0.1	0.5	24	PR 100		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 200.8	Zinc (D)	22.38	µg/L	=	0.8	1	22.2	PR 101		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 200.8	Zinc (D)	22.59	µg/L	=	0.8	1	22.2	PR 102	RPD 0.9	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	06/16/09	09:20	EPA 200.8	Zinc (T)	25.23	µg/L	=	0.8	1	25.2	PR 100	RPD 3.3	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	06/16/09	09:20	EPA 200.8	Zinc (T)	26.08	µg/L	=	0.8	1	25.2	PR 105		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 350.2	Ammonia as N	5.2722	mg/L	=	0.06	0.1	5.33	PR 99	RPD 1.2	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 350.2	Ammonia as N	5.3381	mg/L	=	0.06	0.1	5.33	PR 100		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 200.8	Boron (T)	44.77	µg/L	=	0.47	10	44	PR 106		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 200.8	Boron (T)	43.56	µg/L	=	0.47	10	44	PR 100	RPD 2.7	None	PR 75-125 RPD <25	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 200.8	Copper (D)	22	µg/L	=	0.06	0.5	22.5	PR 98		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 200.8	Copper (D)	22.01	µg/L	=	0.06	0.5	22.5	PR 98	RPD 0	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 200.8	Copper (T)	23.37	µg/L	=	0.06	0.5	22.9	PR 103		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 200.8	Copper (T)	22.83	µg/L	=	0.06	0.5	22.9	PR 100	RPD 2.3	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	SM 2340 C	Hardness as CaCO3 (D)	143.4	mg/L	=	1.7	5	154	PR 90	RPD 1.7	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	SM 2340 C	Hardness as CaCO3 (D)	145.8	mg/L	=	1.7	5	154	PR 92		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 200.8	Nickel (D)	21.32	µg/L	=	0.01	0.5	21.5	PR 99	RPD 1	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 200.8	Nickel (D)	21.54	µg/L	=	0.01	0.5	21.5	PR 100		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 200.8	Nickel (T)	22.26	µg/L	=	0.01	0.5	21.5	PR 104		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 200.8	Nickel (T)	21.7	µg/L	=	0.01	0.5	21.5	PR 101	RPD 2.5	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 353.2	Nitrate + Nitrite as N	1.9898	mg/L	=	0.04	0.08	2.14	PR 92		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 353.2	Nitrate + Nitrite as N	1.9966	mg/L	=	0.04	0.08	2.14	PR 93	RPD 0.3	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 365.2	Phosphate as P	2.268	mg/L	=	0.05	0.05	2.3	PR 100		Analyte analyzed at a secondary dilution.	PR 80-120	DF=5
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 365.2	Phosphate as P	2.268	mg/L	=	0.05	0.05	2.3	PR 100	RPD 0	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=5
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 200.8	Selenium (T)	19.54	µg/L	=	0.06	1	20.07	PR 97	RPD 0	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 200.8	Selenium (T)	19.54	µg/L	=	0.06	1	20.07	PR 97		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 415.1	Total Organic Carbon	22.37	mg/L	=	0.1	0.5	22	PR 102		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 415.1	Total Organic Carbon	22.15	mg/L	=	0.1	0.5	22	PR 100	RPD 1	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 200.8	Zinc (D)	23.78	µg/L	=	0.8	1	23.4	PR 102		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 200.8	Zinc (D)	23.24	µg/L	=	0.8	1	23.4	PR 99	RPD 2.3	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	07/21/09	09:00	EPA 200.8	Zinc (T)	26.86	µg/L	=	0.8	1	25	PR 109		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	07/21/09	09:00	EPA 200.8	Zinc (T)	25.06	µg/L	=	0.8	1	25	PR 100	RPD 6.9	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 350.2	Ammonia as N	5.2722	mg/L	=	0.06	0.1	5.38	PR 98	RPD 0.4	None	PR 80-120 RPD <25	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 350.2	Ammonia as N	5.2503	mg/L	=	0.06	0.1	5.38	PR 97		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 200.8	Boron (T)	46.5	µg/L	=	0.47	10	47	PR 98		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 200.8	Boron (T)	41.25	µg/L	=	0.47	10	47	PR 72	RPD 12	Matrix spike recovery not within control limits.	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 200.8	Boron (T)	23.09	µg/L	=	0.47	10	22.3	PR 104	RPD 1.4	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 200.8	Boron (T)	22.76	µg/L	=	0.47	10	22.3	PR 103		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 200.8	Copper (D)	21.24	µg/L	=	0.06	0.5	22.3	PR 95		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 200.8	Copper (D)	21.04	µg/L	=	0.06	0.5	22.3	PR 94	RPD 0.9	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 200.8	Copper (T)	23.87	µg/L	=	0.06	0.5	23.7	PR 101		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 200.8	Copper (T)	24.06	µg/L	=	0.06	0.5	23.7	PR 102	RPD 0.8	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 200.8	Copper (T)	20.62	µg/L	=	0.06	0.5	20.18	PR 102	RPD 4.4	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 200.8	Copper (T)	19.74	µg/L	=	0.06	0.5	20.18	PR 98		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	SM 2340 C	Hardness as CaCO3 (D)	538.1	mg/L	=	8.5	20	566	PR 94	RPD 1.9	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=5
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	SM 2340 C	Hardness as CaCO3 (D)	527.8	mg/L	=	8.5	20	566	PR 92		Analyte analyzed at a secondary dilution.	PR 80-120	DF=5
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 200.8	Nickel (D)	20.24	µg/L	=	0.01	0.5	21.3	PR 95		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 200.8	Nickel (D)	20.02	µg/L	=	0.01	0.5	21.3	PR 94	RPD 1.1	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 200.8	Nickel (T)	22.74	µg/L	=	0.01	0.5	21.9	PR 104		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 200.8	Nickel (T)	23.07	µg/L	=	0.01	0.5	21.9	PR 106	RPD 1.4	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 200.8	Nickel (T)	20.06	µg/L	=	0.01	0.5	20.02	PR 100	RPD 1.8	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 200.8	Nickel (T)	19.7	µg/L	=	0.01	0.5	20.02	PR 98		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 353.2	Nitrate + Nitrite as N	1.9402	mg/L	=	0.04	0.08	2.064	PR 94		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 353.2	Nitrate + Nitrite as N	1.8924	mg/L	=	0.04	0.08	2.064	PR 91	RPD 2.5	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 365.2	Phosphate as P	2.175	mg/L	=	0.02	0.02	2.2	PR 94		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 365.2	Phosphate as P	2.186	mg/L	=	0.02	0.02	2.2	PR 95	RPD 0.5	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 200.8	Selenium (T)	20.19	µg/L	=	0.06	1	20.07	PR 101		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 200.8	Selenium (T)	20.34	µg/L	=	0.06	1	20.07	PR 101	RPD 0.7	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 200.8	Selenium (T)	19.9	µg/L	=	0.06	1	20	PR 100		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 200.8	Selenium (T)	20.19	µg/L	=	0.06	1	20	PR 101	RPD 1.4	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 415.1	Total Organic Carbon	22.88	mg/L	=	0.1	0.5	23	PR 99	RPD 2.1	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 415.1	Total Organic Carbon	23.36	mg/L	=	0.1	0.5	23	PR 104		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 200.8	Zinc (D)	24.18	µg/L	=	0.8	1	22.6	PR 108		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 200.8	Zinc (D)	22.18	µg/L	=	0.8	1	22.6	PR 98	RPD 8.6	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 200.8	Zinc (T)	28.59	µg/L	=	0.8	1	27.5	PR 105	RPD 1.4	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 200.8	Zinc (T)	28.98	µg/L	=	0.8	1	27.5	PR 107		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	08/18/09	09:30	EPA 200.8	Zinc (T)	21.71	µg/L	=	0.8	1	20.89	PR 104	RPD 4.9	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	08/18/09	09:30	EPA 200.8	Zinc (T)	20.68	µg/L	=	0.8	1	20.89	PR 99		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 350.2	Ammonia as N	5.3381	mg/L	=	0.06	0.1	5.4	PR 99	RPD 2.5	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 350.2	Ammonia as N	5.2063	mg/L	=	0.06	0.1	5.4	PR 96		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 200.8	Boron (T)	41.96	µg/L	=	0.47	10	41	PR 104	RPD 5.6	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 200.8	Boron (T)	44.37	µg/L	=	0.47	10	41	PR 116		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 200.8	Copper (D)	22.05	µg/L	=	0.06	0.5	21.8	PR 101	RPD 1	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 200.8	Copper (D)	21.82	µg/L	=	0.06	0.5	21.8	PR 100		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 200.8	Copper (T)	25.29	µg/L	=	0.06	0.5	24.2	PR 105		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 200.8	Copper (T)	25.23	µg/L	=	0.06	0.5	24.2	PR 105	RPD 0.2	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	SM 2340 C	Hardness as CaCO3 (D)	631.6	mg/L	=	8.5	20	566	PR 113	RPD 20	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=5

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	SM 2340 C	Hardness as CaCO3 (D)	517.1	mg/L	=	8.5	20	566	PR 90		Analyte analyzed at a secondary dilution.	PR 80-120	DF=5
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 200.8	Nickel (D)	20.95	µg/L	=	0.01	0.5	21.3	PR 98		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 200.8	Nickel (D)	21.5	µg/L	=	0.01	0.5	21.3	PR 101	RPD 2.6	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 200.8	Nickel (T)	23.84	µg/L	=	0.01	0.5	22.2	PR 108		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 200.8	Nickel (T)	24.25	µg/L	=	0.01	0.5	22.2	PR 110	RPD 1.7	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 353.2	Nitrate + Nitrite as N	2.0888	mg/L	=	0.04	0.08	2.11	PR 99	RPD 2.4	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 353.2	Nitrate + Nitrite as N	2.1388	mg/L	=	0.04	0.08	2.11	PR 102		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 365.2	Phosphate as P	1.692	mg/L	=	0.01	0.01	1.73	PR 96		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 365.2	Phosphate as P	1.71	mg/L	=	0.01	0.01	1.73	PR 98	RPD 1.1	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 200.8	Selenium (T)	20.04	µg/L	=	0.06	1	20.06	PR 100	RPD 2.9	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 200.8	Selenium (T)	19.46	µg/L	=	0.06	1	20.06	PR 97		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 415.1	Total Organic Carbon	19.54	mg/L	=	0.1	0.5	19.5	PR 100		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 415.1	Total Organic Carbon	19.69	mg/L	=	0.1	0.5	19.5	PR 101	RPD 0.8	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 200.8	Zinc (D)	22.4	µg/L	=	0.8	1	23.6	PR 94	RPD 1.8	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 200.8	Zinc (D)	22	µg/L	=	0.8	1	23.6	PR 92		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	09/22/09	09:30	EPA 200.8	Zinc (T)	31.41	µg/L	=	0.8	1	29.1	PR 112		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	09/22/09	09:30	EPA 200.8	Zinc (T)	30.67	µg/L	=	0.8	1	29.1	PR 108	RPD 2.4	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 350.2	Ammonia as N	6.1729	mg/L	=	0.06	0.1	6.2	PR 100	RPD 0	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 350.2	Ammonia as N	6.1729	mg/L	=	0.06	0.1	6.2	PR 100		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 200.8	Boron (T)	44.11	µg/L	=	0.47	10	43	PR 105		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 200.8	Boron (T)	47.1	µg/L	=	0.47	10	43	PR 120	RPD 6.6	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 200.8	Copper (D)	22.6	µg/L	=	0.06	0.5	23.1	PR 98	RPD 0.6	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 200.8	Copper (D)	22.73	µg/L	=	0.06	0.5	23.1	PR 98		None	PR 75-125	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 200.8	Copper (T)	27.25	µg/L	=	0.06	0.5	26.2	PR 105	RPD 6.9	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 200.8	Copper (T)	25.42	µg/L	=	0.06	0.5	26.2	PR 96		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	SM 2340 C	Hardness as CaCO3 (D)	573.7	mg/L	=	8.5	20	552	PR 104	RPD 1	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=5
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	SM 2340 C	Hardness as CaCO3 (D)	579.2	mg/L	=	8.5	20	552	PR 106		Analyte analyzed at a secondary dilution.	PR 80-120	DF=5
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 200.8	Nickel (D)	22.8	µg/L	=	0.01	0.5	23.1	PR 99		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 200.8	Nickel (D)	22.61	µg/L	=	0.01	0.5	23.1	PR 98	RPD 0.8	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 200.8	Nickel (T)	25.14	µg/L	=	0.01	0.5	24.5	PR 103		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 200.8	Nickel (T)	27.16	µg/L	=	0.01	0.5	24.5	PR 113	RPD 7.7	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 353.2	Nitrate + Nitrite as N	2.2006	mg/L	=	0.04	0.08	2.17	PR 102		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 353.2	Nitrate + Nitrite as N	2.2222	mg/L	=	0.04	0.08	2.17	PR 103	RPD 1	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 365.2	Phosphate as P	2.955	mg/L	=	0.05	0.05	2.9	PR 101		Analyte analyzed at a secondary dilution.	PR 80-120	DF=5
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 365.2	Phosphate as P	2.968	mg/L	=	0.05	0.05	2.9	PR 102	RPD 0.4	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=5
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 200.8	Selenium (T)	19.03	µg/L	=	0.06	1	20.11	PR 95		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 200.8	Selenium (T)	19.09	µg/L	=	0.06	1	20.11	PR 95	RPD 0.3	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 415.1	Total Organic Carbon	32.47	mg/L	=	0.1	0.5	33	PR 93		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 415.1	Total Organic Carbon	32.48	mg/L	=	0.1	0.5	33	PR 93	RPD 0	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 200.8	Zinc (D)	21.43	µg/L	=	0.8	1	21.5	PR 100		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 200.8	Zinc (D)	21.26	µg/L	=	0.8	1	21.5	PR 99	RPD 0.8	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	10/20/09	09:00	EPA 200.8	Zinc (T)	37.68	µg/L	=	0.8	1	35	PR 114	RPD 8.7	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	10/20/09	09:00	EPA 200.8	Zinc (T)	34.54	µg/L	=	0.8	1	35	PR 98		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 350.2	Ammonia as N	7.1175	mg/L	=	0.06	0.1	7.1	PR 101		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 350.2	Ammonia as N	6.6233	mg/L	=	0.06	0.1	7.1	PR 91	RPD 7.2	None	PR 80-120 RPD <25	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 200.8	Boron (T)	43.49	µg/L	=	0.47	10	42	PR 107	RPD 7.5	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 200.8	Boron (T)	40.35	µg/L	=	0.47	10	42	PR 92		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 200.8	Copper (D)	19.84	µg/L	=	0.06	0.5	21.9	PR 90		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 200.8	Copper (D)	19.89	µg/L	=	0.06	0.5	21.9	PR 90	RPD 0.3	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 200.8	Copper (T)	28.19	µg/L	=	0.06	0.5	28.4	PR 99	RPD 1.1	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 200.8	Copper (T)	28.5	µg/L	=	0.06	0.5	28.4	PR 101		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	SM 2340 C	Hardness as CaCO3 (D)	182.3	mg/L	=	1.7	5	200	PR 81	RPD 2	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	SM 2340 C	Hardness as CaCO3 (D)	185.9	mg/L	=	1.7	5	200	PR 84		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 200.8	Nickel (D)	21.4	µg/L	=	0.01	0.5	23.4	PR 90	RPD 0.8	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 200.8	Nickel (D)	21.24	µg/L	=	0.01	0.5	23.4	PR 89		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 200.8	Nickel (T)	28.44	µg/L	=	0.01	0.5	26.1	PR 112	RPD 1.1	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 200.8	Nickel (T)	28.76	µg/L	=	0.01	0.5	26.1	PR 113		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 353.2	Nitrate + Nitrite as N	2.0838	mg/L	=	0.04	0.08	2.062	PR 101		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 353.2	Nitrate + Nitrite as N	2.0612	mg/L	=	0.04	0.08	2.062	PR 100	RPD 1.1	Analyte analyzed at a secondary dilution.	PR 80-120 RPD <25	DF=2
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 365.2	Phosphate as P	3.339	mg/L	=	0.1	0.1	3.6	PR 70	RPD 1.6	Matrix spike recovery not within control limits.	PR 80-120 RPD <25	DF=10
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 365.2	Phosphate as P	3.286	mg/L	=	0.1	0.1	3.6	PR 65		Matrix spike recovery not within control limits.	PR 80-120	DF=10
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 200.8	Selenium (T)	19	µg/L	=	0.06	1	20.22	PR 94		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 200.8	Selenium (T)	18.99	µg/L	=	0.06	1	20.22	PR 94	RPD 0.1	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 415.1	Total Organic Carbon	45.9	mg/L	=	0.1	0.5	46	PR 97		None	PR 80-120	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 415.1	Total Organic Carbon	46.18	mg/L	=	0.1	0.5	46	PR 100	RPD 0.6	None	PR 80-120 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 200.8	Zinc (D)	20.99	µg/L	=	0.8	1	22.5	PR 92		None	PR 75-125	DF=1
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 200.8	Zinc (D)	21.39	µg/L	=	0.8	1	22.5	PR 94	RPD 1.9	None	PR 75-125 RPD <25	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	MS	2.00	11/17/09	09:30	EPA 200.8	Zinc (T)	55.38	µg/L	=	0.8	1	52	PR 117	RPD 2.5	None	PR 75-125 RPD <25	DF=1
Mootz Drain @ Langworth Rd	MS	1.00	11/17/09	09:30	EPA 200.8	Zinc (T)	56.81	µg/L	=	0.8	1	52	PR 124		None	PR 75-125	DF=1
Non Project QA Sample	MS	1.00	10/23/08	11:38	SM 2340 C	Hardness as CaCO3	860	mg/L	=	15	20	840	PR 104		Analyte analyzed at secondary dilution; Batch Quality Assurance data from another project.	PR 80-120	DF=5
Non Project QA Sample	MS	2.00	10/23/08	11:38	SM 2340 C	Hardness as CaCO3	840	mg/L	=	15	20	840	PR 100	RPD 2.4	Analyte analyzed at secondary dilution; Batch Quality Assurance data from another project.	PR 80-120 RPD <25	DF=5
Non Project QA Sample	MS	2.00	11/12/08	11:17	EPA 353.2	Nitrate + Nitrite as N	2.5112	mg/L	=	0.04	0.1	2.63	PR 94	RPD 2.6	Analyte analyzed at secondary dilution; Batch Quality Assurance data from another project.	PR 80-120 RPD <25	DF=2
Non Project QA Sample	MS	1.00	11/12/08	11:17	EPA 353.2	Nitrate + Nitrite as N	2.5776	mg/L	=	0.04	0.1	2.63	PR 98		Analyte analyzed at secondary dilution; Batch Quality Assurance data from another project.	PR 80-120	DF=2
Non Project QA Sample	MS	2.00	11/13/08	09:46	EPA 351.3	Nitrogen, Total Kjeldahl	5.9972	mg/L	=	0.06	0.1	6.1	PR 98	RPD 1.6	Batch Quality Assurance data from another project.	PR 80-120 RPD <25	DF=1
Non Project QA Sample	MS	1.00	11/13/08	09:46	EPA 351.3	Nitrogen, Total Kjeldahl	6.096	mg/L	=	0.06	0.1	6.1	PR 100		Batch Quality Assurance data from another project.	PR 80-120	DF=1
Non Project QA Sample	MS	2.00	12/19/08	08:05	EPA 353.2	Nitrate + Nitrite as N	2.4242	mg/L	=	0.04	0.1	2.63	PR 90	RPD 2.3	Analyte analyzed at secondary dilution; Batch Quality Assurance data from another project.	PR 80-120 RPD <25	DF=2
Non Project QA Sample	MS	1.00	12/19/08	08:05	EPA 353.2	Nitrate + Nitrite as N	2.369	mg/L	=	0.04	0.1	2.63	PR 87		Analyte analyzed at a secondary dilution; Batch Quality Assurance data from another project; Matrix spike recovery not within control limits.	PR 80-120	DF=2

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Non Project QA Sample	MS	1.00	12/22/08	11:35	EPA 350.2	Ammonia as N	5.2173	mg/L	=	0.05	0.1	5.27	PR 99		Batch Quality Assurance data from another project.	PR 80-120	DF=1
Non Project QA Sample	MS	2.00	12/22/08	11:35	EPA 350.2	Ammonia as N	5.2613	mg/L	=	0.05	0.1	5.27	PR 100	RPD 0.8	Batch Quality Assurance data from another project.	PR 80-120 RPD <25	DF=1
Non Project QA Sample	MS	1.00	02/10/09	06:50	EPA 350.2	Ammonia as N	5.0636	mg/L	=	0.05	0.1	5.099	PR 99		Batch Quality Assurance data from another project.	PR 80-120	DF=1
Non Project QA Sample	MS	2.00	02/10/09	06:50	EPA 350.2	Ammonia as N	5.1404	mg/L	=	0.05	0.1	5.099	PR 101	RPD 1.5	Batch Quality Assurance data from another project.	PR 80-120 RPD <25	DF=1
Non Project QA Sample	MS	1.00	02/10/09	10:40	SM 2340 C	Hardness as CaCO3	148.5	mg/L	=	1.7	5	152	PR 97		Batch Quality Assurance data from another project.	PR 80-120	DF=1
Non Project QA Sample	MS	2.00	02/10/09	10:40	SM 2340 C	Hardness as CaCO3	144.8	mg/L	=	1.7	5	152	PR 93	RPD 2.5	Batch Quality Assurance data from another project.	PR 80-120 RPD <25	DF=1
Non Project QA Sample	MS	1.00	02/10/09	06:50	EPA 351.3	Nitrogen, Total Kjeldahl	5.7995	mg/L	=	0.06	0.1	5.96	PR 97		Batch Quality Assurance data from another project.	PR 80-120	DF=1
Non Project QA Sample	MS	2.00	02/10/09	06:50	EPA 351.3	Nitrogen, Total Kjeldahl	5.0965	mg/L	=	0.06	0.1	5.96	PR 83	RPD 13	Batch Quality Assurance data from another project.	PR 80-120 RPD <25	DF=1
Non Project QA Sample	MS	2.00	03/10/09	08:10	SM 2340 C	Hardness as CaCO3	1018.3	mg/L	=	8.5	20	1140	PR 76	RPD 2.8	Analyte analyzed at a secondary dilution; Batch Quality Assurance data from another project; Matrix spike recovery not within control limits.	PR 80-120 RPD <25	DF=5
Non Project QA Sample	MS	1.00	03/10/09	08:10	SM 2340 C	Hardness as CaCO3	990.5	mg/L	=	8.5	20	1140	PR 70		Analyte analyzed at a secondary dilution; Batch Quality Assurance data from another project; Matrix spike recovery not within control limits.	PR 80-120	DF=5

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Non Project QA Sample	MS	1.00	04/21/09	11:05	EPA 350.2	Ammonia as N	4.8658	mg/L	=	0.06	0.1	5	PR 97		Batch Quality Assurance data from another project.	PR 80-120	DF=1
Non Project QA Sample	MS	2.00	04/21/09	11:05	EPA 350.2	Ammonia as N	4.9097	mg/L	=	0.06	0.1	5	PR 98	RPD 0.9	Batch Quality Assurance data from another project.	PR 80-120 RPD <25	DF=1
Non Project QA Sample	MS	2.00	04/22/09	08:14	EPA 351.3	Nitrogen, Total Kjeldahl	4.745	mg/L	=	0.06	0.1	5	PR 95	RPD 0.2	Batch Quality Assurance data from another project.	PR 80-120 RPD <25	DF=1
Non Project QA Sample	MS	1.00	04/22/09	08:14	EPA 351.3	Nitrogen, Total Kjeldahl	4.756	mg/L	=	0.06	0.1	5	PR 95		Batch Quality Assurance data from another project.	PR 80-120	DF=1
Non Project QA Sample	MS	1.00	06/16/09	12:45	EPA 200.8	Zinc (T)	27.73	µg/L	=	0.8	1	27.6	PR 101		Batch Quality Assurance data from another project.	PR 75-125	DF=1
Non Project QA Sample	MS	2.00	06/16/09	12:45	EPA 200.8	Zinc (T)	27.31	µg/L	=	0.8	1	27.6	PR 98	RPD 1.5	Batch Quality Assurance data from another project.	PR 75-125 RPD <25	DF=1
Non Project QA Sample	MS	1.00	07/22/09	09:27	EPA 350.2	Ammonia as N	5.0416	mg/L	=	0.06	0.1	5.099	PR 99		Batch Quality Assurance data from another project.	PR 80-120	DF=1
Non Project QA Sample	MS	2.00	07/22/09	09:27	EPA 350.2	Ammonia as N	4.9976	mg/L	=	0.06	0.1	5.099	PR 98	RPD 0.9	Batch Quality Assurance data from another project.	PR 80-120 RPD <25	DF=1
Non Project QA Sample	MS	1.00	08/19/09	09:45	EPA 350.2	Ammonia as N	8.853	mg/L	=	0.06	0.1	8.6	PR 104		Batch Quality Assurance data from another project.	PR 80-120	DF=1
Non Project QA Sample	MS	2.00	08/19/09	09:45	EPA 350.2	Ammonia as N	8.8969	mg/L	=	0.06	0.1	8.6	PR 105	RPD 0.5	Batch Quality Assurance data from another project.	PR 80-120 RPD <25	DF=1
Non Project QA Sample	MS	2.00	08/19/09	11:30	EPA 200.8	Copper (D)	19.42	µg/L	=	0.06	0.5	20.47	PR 95	RPD 0.2	Batch Quality Assurance data from another project.	PR 75-125 RPD <25	DF=1
Non Project QA Sample	MS	1.00	08/19/09	11:30	EPA 200.8	Copper (D)	19.38	µg/L	=	0.06	0.5	20.47	PR 95		Batch Quality Assurance data from another project.	PR 75-125	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Non Project QA Sample	MS	2.00	09/10/09	09:28	EPA 200.8	Copper (T)	16.5	µg/L	=	0.6	1	20	PR 83	RPD 11	Analyte analyzed at secondary dilution; Batch Quality Assurance data from another project.	PR 75-125 RPD <25	DF=10
Non Project QA Sample	MS	1.00	09/10/09	09:28	EPA 200.8	Copper (T)	18.37	µg/L	=	0.6	1	20	PR 92		Analyte analyzed at secondary dilution; Batch Quality Assurance data from another project.	PR 75-125	DF=10
Non Project QA Sample	MS	2.00	09/10/09	09:28	EPA 200.8	Zinc (T)	20.38	µg/L	=	8	10	28.1	PR 62	RPD 72	Analyte analyzed at a secondary dilution; Batch Quality Assurance data from another project; Matrix spike recovery not within control limits; RPD exceeds laboratory control limit.	PR 75-125 RPD <25	DF=10
Non Project QA Sample	MS	1.00	09/10/09	09:28	EPA 200.8	Zinc (T)	43.28	µg/L	=	8	10	28.1	PR 176		Analyte analyzed at a secondary dilution; Batch Quality Assurance data from another project; Matrix spike recovery not within control limits; RPD exceeds laboratory control limit.	PR 75-125	DF=10
Non Project QA Sample	MS	1.00	10/06/09	12:40	SM 2340 C	Hardness as CaCO3 (D)	150	mg/L	=	1.7	5	173	PR 77		Batch Quality Assurance data from another project; Matrix spike recoverey not within control limits.	PR 80-120	DF=1
Non Project QA Sample	MS	2.00	10/06/09	12:40	SM 2340 C	Hardness as CaCO3 (D)	148.6	mg/L	=	1.7	5	173	PR 75	RPD 0.9	Batch Quality Assurance data from another project; Matrix spike recoverey not within control limits.	PR 80-120 RPD <25	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Non Project QA Sample	MS	1.00	10/19/09	07:42	EPA 415.1	Total Organic Carbon	53.01	mg/L	=	0.1	0.5	52	PR 105		Batch Quality Assurance data from another project.	PR 80-120	DF=1
Non Project QA Sample	MS	2.00	10/19/09	07:42	EPA 415.1	Total Organic Carbon	52.73	mg/L	=	0.1	0.5	52	PR 103	RPD 0.5	Batch Quality Assurance data from another project.	PR 80-120 RPD <25	DF=1
Non Project QA Sample	MS	1.00	10/21/09	08:00	EPA 350.2	Ammonia as N	5.2283	mg/L	=	0.06	0.1	5.24	PR 100		Batch Quality Assurance data from another project.	PR 80-120	DF=1
Non Project QA Sample	MS	2.00	10/21/09	08:00	EPA 350.2	Ammonia as N	5.2832	mg/L	=	0.06	0.1	5.24	PR 101	RPD 1	Batch Quality Assurance data from another project.	PR 80-120 RPD <25	DF=1
Non Project QA Sample	MS	1.00	11/23/09	00:00	EPA 350.2	Ammonia as N	11.2476	mg/L	=	0.06	0.1	11.4	PR 97		Batch Quality Assurance data from another project.	PR 80-120	DF=1
Non Project QA Sample	MS	2.00	11/23/09	00:00	EPA 350.2	Ammonia as N	11.1377	mg/L	=	0.06	0.1	11.4	PR 95	RPD 1	Batch Quality Assurance data from another project.	PR 80-120 RPD <25	DF=1
Non Project QA Sample	MS	2.00	12/11/09	00:00	EPA 200.8	Zinc (T)	19.52	µg/L	=	0.8	1	20.8	PR 93	RPD 1.3	Batch Quality Assurance data from another project.	PR 75-125 RPD <25	DF=1
Non Project QA Sample	MS	1.00	12/11/09	00:00	EPA 200.8	Zinc (T)	19.26	µg/L	=	0.8	1	20.8	PR 92		Batch Quality Assurance data from another project.	PR 75-125	DF=1
Non Project QA Sample	MS	2.00	12/17/09	00:00	EPA 350.2	Ammonia as N	5.0196	mg/L	=	0.06	0.1	5.24	PR 96	RPD 2.4	Batch Quality Assurance data from another project.	PR 80-120 RPD <25	DF=1
Non Project QA Sample	MS	1.00	12/17/09	00:00	EPA 350.2	Ammonia as N	5.1404	mg/L	=	0.06	0.1	5.24	PR 98		Batch Quality Assurance data from another project.	PR 80-120	DF=1
Non Project QA Sample	MS	1.00	12/17/09	00:00	SM 2340 C	Hardness as CaCO3	838.2	mg/L	=	8.5	20	950	PR 77		Analyte analyzed at a secondary dilution; Batch Quality Assurance data from another project; Matrix spike recovery not within control limits.	PR 80-120	DF=5

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Non Project QA Sample	MS	2.00	12/17/09	00:00	SM 2340 C	Hardness as CaCO3	842.2	mg/L	=	8.5	20	950	PR 78	RPD 0.5	Analyte analyzed at a secondary dilution; Batch Quality Assurance data from another project; Matrix spike recovery not within control limits.	PR 80-120 RPD <25	DF=5
Non Project QA Sample	MS	2.00	12/17/09	00:00	EPA 415.1	Total Organic Carbon	28.22	mg/L	=	0.1	0.5	29	PR 88	RPD 0.4	Batch Quality Assurance data from another project.	PR 80-120 RPD <25	DF=1
Non Project QA Sample	MS	1.00	12/17/09	00:00	EPA 415.1	Total Organic Carbon	28.34	mg/L	=	0.1	0.5	29	PR 89		Batch Quality Assurance data from another project.	PR 80-120	DF=1
Prairie Flower Drain @ Crows Landing Rd	MS	1.00	11/11/08	13:30	EPA 353.2	Nitrate + Nitrite as N	39.555	mg/L	=	0.04	0.1	41	PR 29		Analyte analyzed at a secondary dilution; Matrix spike recovery not within control limits.	PR 80-120	DF=2
Prairie Flower Drain @ Crows Landing Rd	MS	2.00	11/11/08	13:30	EPA 353.2	Nitrate + Nitrite as N	40.4048	mg/L	=	0.04	0.1	41	PR 72	RPD 2.1	Analyte analyzed at a secondary dilution; Matrix spike recovery not within control limits.	PR 80-120 RPD <25	DF=2
Laboratory QA Samples	LabBlank	1.00	10/22/08	00:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/22/08	00:00	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/22/08	00:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/23/08	00:00	SM 2340 C	Hardness as CaCO3	<3	mg/L	ND	3	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/23/08	00:00	EPA 365.2	Phosphate as P	<0.01	mg/L	ND	0.01	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/23/08	00:00	EPA 415.1	Total Organic Carbon	0.24	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/24/08	00:00	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/24/08	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/24/08	00:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/27/08	00:00	SM 2340 C	Hardness as CaCO3	<3	mg/L	ND	3	5				None	<RL	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/28/08	00:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/30/08	00:00	EPA 200.8	Arsenic (T)	<0.008	µg/L	ND	0.008	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/30/08	00:00	EPA 200.8	Boron (T)	1	µg/L	DNQ	0.47	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/30/08	00:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/30/08	00:00	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/30/08	00:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/30/08	00:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/30/08	00:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/30/08	00:00	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/30/08	00:00	EPA 200.8	Molybdenum (T)	<0.016	µg/L	ND	0.016	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/30/08	00:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/30/08	00:00	EPA 200.8	Nickel (T)	0.03	µg/L	DNQ	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/30/08	00:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/30/08	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/07/08	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/12/08	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/12/08	00:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/12/08	00:00	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/12/08	00:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/13/08	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/13/08	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/13/08	00:00	EPA 415.1	Total Organic Carbon	0.32	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/14/08	00:00	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1				None	<RL	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LabBlank	1.00	11/14/08	00:00	SM 2340 C	Hardness as CaCO3	<3	mg/L	ND	3	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/14/08	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/14/08	00:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 200.8	Arsenic (T)	<0.008	µg/L	ND	0.008	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 200.8	Molybdenum (T)	<0.016	µg/L	ND	0.016	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 200.8	Nickel (T)	0.02	µg/L	DNQ	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 365.2	Phosphate as P	<0.01	mg/L	ND	0.01	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/18/08	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/20/08	00:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/20/08	00:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/20/08	00:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/20/08	00:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/20/08	00:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/20/08	00:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/03/08	00:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/08	00:00	EPA 200.8	Arsenic (T)	<0.008	µg/L	ND	0.008	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/08	00:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/08	00:00	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/08	00:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/08	00:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1				None	<RL	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LabBlank	1.00	12/17/08	00:00	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/08	00:00	EPA 200.8	Molybdenum (T)	<0.016	µg/L	ND	0.016	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/08	00:00	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/08	00:00	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/08	00:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/08	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/19/08	00:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/21/08	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/23/08	00:00	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/23/08	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/23/08	00:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/23/08	00:00	EPA 365.2	Phosphate as P	<0.01	mg/L	ND	0.01	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/30/08	00:00	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/30/08	00:00	SM 2340 C	Hardness as CaCO3	<1.7	mg/L	ND	1.7	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/30/08	00:00	EPA 415.1	Total Organic Carbon	0.13	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/31/08	00:00	EPA 415.1	Total Organic Carbon	0.15	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/02/09	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/06/09	00:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05				None	<RL	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LabBlank	1.00	01/21/09	00:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/21/09	00:00	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/21/09	00:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 200.8	Arsenic (T)	<0.008	µg/L	ND	0.008	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 200.8	Boron (T)	<0.5	µg/L	ND	0.5	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 200.8	Cadmium (D)	<0.01	µg/L	ND	0.01	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 200.8	Cadmium (T)	<0.01	µg/L	ND	0.01	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 200.8	Molybdenum (T)	<0.016	µg/L	ND	0.016	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 365.2	Phosphate as P	<0.01	mg/L	ND	0.01	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/22/09	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/23/09	00:00	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/23/09	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/24/09	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/26/09	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/27/09	00:00	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1				None	<RL	DF=1

Adminsitrative Record
Page 17198

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LabBlank	1.00	01/27/09	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	01/27/09	00:00	EPA 415.1	Total Organic Carbon	0.14	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/02/09	00:00	SM 2340 C	Hardness as CaCO3	<2	mg/L	ND	2	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/08/09	00:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/08/09	00:00	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/09/09	00:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/10/09	00:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/10/09	00:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/10/09	00:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/10/09	00:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/10/09	00:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/10/09	00:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/11/09	00:00	EPA 200.8	Arsenic (T)	<0.008	µg/L	ND	0.008	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/11/09	00:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/11/09	00:00	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/11/09	00:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/11/09	00:00	SM 2340 C	Hardness as CaCO3	<1.7	mg/L	ND	1.7	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/11/09	00:00	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/11/09	00:00	EPA 200.8	Molybdenum (T)	<0.016	µg/L	ND	0.016	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/11/09	00:00	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/11/09	00:00	EPA 365.2	Phosphate as P	<0.01	mg/L	ND	0.01	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/11/09	00:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/11/09	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/12/09	00:00	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1				None	<RL	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LabBlank	1.00	02/12/09	00:00	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/12/09	00:00	EPA 160.1	Dissolved Solids	4	mg/L	DNQ	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/12/09	00:00	EPA 415.1	Total Organic Carbon	0.43	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/13/09	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/18/09	00:00	SM 2340 C	Hardness as CaCO3	<1.7	mg/L	ND	1.7	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/19/09	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	02/19/09	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/18/09	00:00	EPA 200.8	Arsenic (T)	0.009	µg/L	DNQ	0.008	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/18/09	00:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/18/09	00:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/18/09	00:00	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/18/09	00:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/18/09	00:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/18/09	00:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/18/09	00:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/18/09	00:00	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/18/09	00:00	EPA 200.8	Molybdenum (T)	<0.016	µg/L	ND	0.016	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/18/09	00:00	EPA 200.8	Nickel (D)	0.04	µg/L	DNQ	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/18/09	00:00	EPA 200.8	Nickel (T)	0.03	µg/L	DNQ	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/18/09	00:00	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/18/09	00:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/18/09	00:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/18/09	00:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LabBlank	1.00	03/18/09	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/19/09	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/19/09	00:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/19/09	00:00	EPA 365.2	Phosphate as P	<0.01	mg/L	ND	0.01	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/19/09	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/19/09	00:00	EPA 415.1	Total Organic Carbon	0.14	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/25/09	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/26/09	00:00	EPA 350.2	Ammonia as N	<0.05	mg/L	ND	0.05	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	03/26/09	00:00	SM 2340 C	Hardness as CaCO3	<1.7	mg/L	ND	1.7	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/02/09	00:00	SM 2340 C	Hardness as CaCO3	<1.7	mg/L	ND	1.7	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/22/09	00:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/22/09	00:00	EPA 365.2	OrthoPhosphate as P	<0.006	mg/L	ND	0.006	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/23/09	00:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/24/09	00:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/24/09	00:00	EPA 200.8	Arsenic (T)	<0.008	µg/L	ND	0.008	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/24/09	00:00	EPA 200.8	Boron (T)	0.6	µg/L	DNQ	0.47	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/24/09	00:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/24/09	00:00	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/24/09	00:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/24/09	00:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/24/09	00:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/24/09	00:00	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/24/09	00:00	EPA 200.8	Molybdenum (T)	<0.016	µg/L	ND	0.016	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/24/09	00:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LabBlank	1.00	04/24/09	00:00	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/24/09	00:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/24/09	00:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/24/09	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/27/09	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/27/09	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/27/09	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/27/09	00:00	EPA 415.1	Total Organic Carbon	0.13	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 160.1	Dissolved Solids	10	mg/L	=	4	10				Analyte present in the instrument blank.	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/28/09	00:00	EPA 365.2	Phosphate as P	<0.01	mg/L	ND	0.01	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/29/09	00:00	SM 2340 C	Hardness as CaCO3	<1.7	mg/L	ND	1.7	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	04/29/09	15:00	Walkley -Black	Total Organic Carbon	<100	mg/Kg dw	ND	100	200				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/20/09	00:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/20/09	00:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/20/09	00:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/20/09	00:00	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/20/09	00:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/20/09	00:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/20/09	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/21/09	00:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/21/09	00:00	EPA 365.2	Phosphate as P	<0.01	mg/L	ND	0.01	0.01				None	<RL	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LabBlank	1.00	05/21/09	00:00	EPA 415.1	Total Organic Carbon	0.24	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/21/09	00:00	EPA 415.1	Total Organic Carbon	0.25	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/22/09	00:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/26/09	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/26/09	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/27/09	00:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/27/09	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	05/28/09	00:00	SM 2340 C	Hardness as CaCO3	<1.7	mg/L	ND	1.7	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/17/09	00:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/17/09	00:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 200.8	Boron (T)	0.7	µg/L	DNQ	0.47	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 365.2	Phosphate as P	<0.01	mg/L	ND	0.01	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 415.1	Total Organic Carbon	0.32	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/18/09	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1

Adminsitrative Record
Page 17203

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LabBlank	1.00	06/19/09	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/22/09	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/23/09	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/25/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	<1.7	mg/L	ND	1.7	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/29/09	00:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	06/30/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	<1.7	mg/L	ND	1.7	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/22/09	00:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/22/09	00:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/22/09	00:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/22/09	00:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/22/09	00:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/22/09	00:00	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/22/09	00:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/22/09	00:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/22/09	00:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/22/09	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/23/09	00:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/23/09	00:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/23/09	00:00	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/23/09	00:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/23/09	00:00	EPA 365.2	Phosphate as P	<0.01	mg/L	ND	0.01	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/23/09	00:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/23/09	00:00	EPA 415.1	Total Organic Carbon	<0.1	mg/L	ND	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/23/09	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LabBlank	1.00	07/24/09	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/25/09	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/27/09	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/29/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	<1.7	mg/L	ND	1.7	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/30/09	00:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	07/30/09	00:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/19/09	00:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/19/09	00:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/20/09	00:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/20/09	00:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/20/09	00:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/20/09	00:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/20/09	00:00	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/20/09	00:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/20/09	00:00	EPA 415.1	Total Organic Carbon	0.35	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/20/09	00:00	EPA 415.1	Total Organic Carbon	0.33	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/20/09	00:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/20/09	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 200.8	Copper (T)	0.15	µg/L	DNQ	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 200.8	Nickel (T)	0.06	µg/L	DNQ	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1

Adminsitrative Record
Page 17205

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LabBlank	1.00	08/24/09	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/25/09	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/25/09	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/25/09	00:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/26/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	<1.7	mg/L	ND	1.7	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/27/09	00:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	08/27/09	00:00	EPA 365.2	Phosphate as P	<0.01	mg/L	ND	0.01	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/01/09	00:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/11/09	00:00	Walkley -Black	Total Organic Carbon	<100	mg/Kg dw	ND	100	200				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/15/09	00:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/15/09	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/23/09	00:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/24/09	00:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/24/09	00:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/24/09	00:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/24/09	00:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/24/09	00:00	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/24/09	00:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/24/09	00:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/24/09	00:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/24/09	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/25/09	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/26/09	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/27/09	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1

Adminsitrative Record
Page 17206

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/29/09	00:00	EPA 365.2	Phosphate as P	<0.01	mg/L	ND	0.01	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	09/30/09	00:00	EPA 415.1	Total Organic Carbon	0.2	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/06/09	00:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/07/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	<1.7	mg/L	ND	1.7	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/09/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	<1.7	mg/L	ND	1.7	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/21/09	00:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/21/09	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/21/09	00:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/23/09	00:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/23/09	00:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/23/09	00:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/23/09	00:00	EPA 200.8	Nickel (D)	0.02	µg/L	DNQ	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/23/09	00:00	EPA 200.8	Nickel (T)	0.01	µg/L	DNQ	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/23/09	00:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/23/09	00:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/23/09	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/27/09	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/28/09	00:00	EPA 415.1	Total Organic Carbon	0.22	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/28/09	00:00	EPA 415.1	Total Organic Carbon	0.22	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/29/09	00:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/29/09	00:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/29/09	00:00	EPA 365.2	Phosphate as P	<0.01	mg/L	ND	0.01	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	10/30/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	<1.7	mg/L	ND	1.7	5				None	<RL	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LabBlank	1.00	11/02/09	00:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/18/09	00:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/18/09	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/18/09	00:00	EPA 415.1	Total Organic Carbon	0.22	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/18/09	00:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 200.8	Nickel (T)	0.02	µg/L	DNQ	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 365.2	Phosphate as P	<0.01	mg/L	ND	0.01	0.01				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/19/09	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/20/09	00:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/20/09	00:00	EPA 200.8	Nickel (D)	0.02	µg/L	DNQ	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/20/09	00:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/23/09	00:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/23/09	00:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/23/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	<1.7	mg/L	ND	1.7	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	11/24/09	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/11/09	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/16/09	00:00	SM 9223 B	E. coli	<1	MPN/ 100 mL	ND	1	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/16/09	00:00	EPA 180.1	Turbidity	<0.02	NTU	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	EPA 200.8	Arsenic (T)	<0.008	µg/L	ND	0.008	0.5				None	<RL	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	EPA 200.8	Boron (T)	<0.47	µg/L	ND	0.47	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	EPA 200.8	Cadmium (D)	<0.011	µg/L	ND	0.011	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	EPA 200.8	Cadmium (T)	<0.011	µg/L	ND	0.011	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	EPA 200.8	Copper (D)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	EPA 200.8	Copper (T)	<0.06	µg/L	ND	0.06	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	<1.7	mg/L	ND	1.7	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	EPA 200.8	Lead (D)	<0.071	µg/L	ND	0.071	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	EPA 200.8	Lead (T)	<0.071	µg/L	ND	0.071	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	EPA 200.8	Molybdenum (T)	<0.016	µg/L	ND	0.016	0.25				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	EPA 200.8	Nickel (D)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	EPA 200.8	Nickel (T)	<0.01	µg/L	ND	0.01	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	EPA 200.8	Selenium (T)	<0.06	µg/L	ND	0.06	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	EPA 160.2	Suspended Solids	<2	mg/L	ND	2	3				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	EPA 415.1	Total Organic Carbon	0.21	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	EPA 415.1	Total Organic Carbon	0.24	mg/L	DNQ	0.1	0.5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	EPA 200.8	Zinc (D)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/17/09	00:00	EPA 200.8	Zinc (T)	<0.8	µg/L	ND	0.8	1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/21/09	00:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/21/09	00:00	EPA 350.2	Ammonia as N	<0.06	mg/L	ND	0.06	0.1				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/21/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	<1.7	mg/L	ND	1.7	5				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/22/09	00:00	EPA 160.1	Dissolved Solids	<4	mg/L	ND	4	10				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/22/09	00:00	EPA 353.2	Nitrate + Nitrite as N	<0.02	mg/L	ND	0.02	0.05				None	<RL	DF=1
Laboratory QA Samples	LabBlank	1.00	12/22/09	00:00	EPA 365.2	Phosphate as P	<0.01	mg/L	ND	0.01	0.01				None	<RL	DF=1
Laboratory QA Samples	LCS	1.00	10/22/08	00:00	EPA 365.2	OrthoPhosphate as P	0.202	mg/L	=	0.006	0.01	0.2	PR 101		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	10/22/08	00:00	EPA 180.1	Turbidity	4.11	NTU	=	0.02	0.05	4	PR 103		None	PR 80-120	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LCS	1.00	10/23/08	00:00	SM 2340 C	Hardness as CaCO3	1020	mg/L	=	3	5	1000	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	10/23/08	00:00	EPA 365.2	Phosphate as P	0.989	mg/L	=	0.01	0.01	1	PR 99		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	10/23/08	00:00	EPA 415.1	Total Organic Carbon	10.15	mg/L	=	0.1	0.5	10	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	10/24/08	00:00	EPA 350.2	Ammonia as N	5.0855	mg/L	=	0.05	0.1	5	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	10/24/08	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	5.1514	mg/L	=	0.06	0.1	5	PR 103		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	10/24/08	00:00	EPA 200.8	Selenium (T)	21.59	µg/L	=	0.06	1	20	PR 108		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/27/08	00:00	SM 2340 C	Hardness as CaCO3	1020	mg/L	=	3	5	1000	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 160.1	Dissolved Solids	518	mg/L	=	8	20	500	PR 104		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	10/28/08	00:00	EPA 353.2	Nitrate + Nitrite as N	1.0016	mg/L	=	0.02	0.05	1	PR 100		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	10/30/08	00:00	EPA 200.8	Arsenic (T)	19.3	µg/L	=	0.008	0.5	20	PR 97		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/30/08	00:00	EPA 200.8	Boron (T)	22.12	µg/L	=	0.47	10	20	PR 111		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/30/08	00:00	EPA 200.8	Cadmium (D)	19.23	µg/L	=	0.011	0.1	20	PR 96		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/30/08	00:00	EPA 200.8	Cadmium (T)	18.99	µg/L	=	0.011	0.1	20	PR 95		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/30/08	00:00	EPA 200.8	Copper (D)	19.89	µg/L	=	0.06	0.5	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/30/08	00:00	EPA 200.8	Copper (T)	19.76	µg/L	=	0.06	0.5	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/30/08	00:00	EPA 200.8	Lead (D)	20.09	µg/L	=	0.071	0.25	20	PR 100		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/30/08	00:00	EPA 200.8	Lead (T)	20.33	µg/L	=	0.071	0.25	20	PR 102		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/30/08	00:00	EPA 200.8	Molybdenum (T)	18.78	µg/L	=	0.016	0.25	20	PR 94		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/30/08	00:00	EPA 200.8	Nickel (D)	19.82	µg/L	=	0.01	0.5	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/30/08	00:00	EPA 200.8	Nickel (T)	19.84	µg/L	=	0.01	0.5	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/30/08	00:00	EPA 200.8	Zinc (D)	19.26	µg/L	=	0.8	1	20	PR 96		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/30/08	00:00	EPA 200.8	Zinc (T)	19.12	µg/L	=	0.8	1	20	PR 96		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/07/08	00:00	EPA 160.2	Suspended Solids	482	mg/L	=	4	6	500	PR 96		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LCS	1.00	11/12/08	00:00	EPA 160.1	Dissolved Solids	500	mg/L	=	8	20	500	PR 100		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	11/12/08	00:00	EPA 365.2	OrthoPhosphate as P	0.201	mg/L	=	0.006	0.01	0.2	PR 101		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	11/12/08	00:00	EPA 180.1	Turbidity	4	NTU	=	0.02	0.05	4	PR 100		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	11/13/08	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	5.1185	mg/L	=	0.06	0.1	5	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	11/13/08	00:00	EPA 160.2	Suspended Solids	490	mg/L	=	4	6	500	PR 98		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	11/13/08	00:00	EPA 415.1	Total Organic Carbon	10.65	mg/L	=	0.1	0.5	10	PR 107		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	11/14/08	00:00	EPA 350.2	Ammonia as N	5.0525	mg/L	=	0.05	0.1	5	PR 101		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	11/14/08	00:00	SM 2340 C	Hardness as CaCO3	1020	mg/L	=	3	5	1000	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	11/14/08	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	4.9537	mg/L	=	0.06	0.1	5	PR 99		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	11/14/08	00:00	EPA 200.8	Selenium (T)	19.78	µg/L	=	0.06	1	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 200.8	Arsenic (T)	19.97	µg/L	=	0.008	0.5	20	PR 100		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 200.8	Boron (T)	19.71	µg/L	=	0.47	10	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 200.8	Cadmium (T)	19.72	µg/L	=	0.011	0.1	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 200.8	Copper (T)	20.27	µg/L	=	0.06	0.5	20	PR 101		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 200.8	Lead (T)	20.87	µg/L	=	0.071	0.25	20	PR 104		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 200.8	Molybdenum (T)	20.02	µg/L	=	0.016	0.25	20	PR 100		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 200.8	Nickel (T)	20.22	µg/L	=	0.01	0.5	20	PR 101		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 365.2	Phosphate as P	0.983	mg/L	=	0.01	0.01	1	PR 98		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	11/18/08	00:00	EPA 200.8	Zinc (T)	20.99	µg/L	=	0.8	1	20	PR 105		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/20/08	00:00	EPA 200.8	Cadmium (D)	19	µg/L	=	0.011	0.1	20	PR 95		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/20/08	00:00	EPA 200.8	Copper (D)	19.51	µg/L	=	0.06	0.5	20	PR 98		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/20/08	00:00	EPA 200.8	Lead (D)	19.76	µg/L	=	0.071	0.25	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/20/08	00:00	EPA 200.8	Nickel (D)	19.56	µg/L	=	0.01	0.5	20	PR 98		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/20/08	00:00	EPA 353.2	Nitrate + Nitrite as N	0.8965	mg/L	=	0.02	0.05	1	PR 90		None	PR 80-120	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LCS	1.00	11/20/08	00:00	EPA 200.8	Zinc (D)	19.53	µg/L	=	0.8	1	20	PR 98		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/03/08	00:00	EPA 353.2	Nitrate + Nitrite as N	0.9281	mg/L	=	0.02	0.05	1	PR 93		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	12/17/08	00:00	EPA 200.8	Arsenic (T)	19.72	µg/L	=	0.008	0.5	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/08	00:00	EPA 200.8	Boron (T)	18.8	µg/L	=	0.47	10	20	PR 94		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/08	00:00	EPA 200.8	Cadmium (T)	19.94	µg/L	=	0.011	0.1	20	PR 100		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/08	00:00	EPA 200.8	Copper (T)	19.37	µg/L	=	0.06	0.5	20	PR 97		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/08	00:00	EPA 200.8	Lead (T)	21.01	µg/L	=	0.071	0.25	20	PR 105		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/08	00:00	EPA 200.8	Molybdenum (T)	19.85	µg/L	=	0.016	0.25	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/08	00:00	EPA 200.8	Nickel (T)	19.58	µg/L	=	0.01	0.5	20	PR 98		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/08	00:00	EPA 365.2	OrthoPhosphate as P	0.208	mg/L	=	0.006	0.01	0.2	PR 104		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	12/17/08	00:00	EPA 180.1	Turbidity	4.17	NTU	=	0.02	0.05	4	PR 104		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	12/17/08	00:00	EPA 200.8	Zinc (T)	20.61	µg/L	=	0.8	1	20	PR 103		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 200.8	Cadmium (D)	19.2	µg/L	=	0.011	0.1	20	PR 96		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 200.8	Copper (D)	19.42	µg/L	=	0.06	0.5	20	PR 97		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 200.8	Lead (D)	20.69	µg/L	=	0.071	0.25	20	PR 103		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 200.8	Nickel (D)	19.69	µg/L	=	0.01	0.5	20	PR 98		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 200.8	Selenium (T)	20.78	µg/L	=	0.06	1	20	PR 104		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 160.2	Suspended Solids	430	mg/L	=	4	6	500	PR 86		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	12/19/08	00:00	EPA 200.8	Zinc (D)	19.66	µg/L	=	0.8	1	20	PR 98		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/21/08	00:00	EPA 160.1	Dissolved Solids	498	mg/L	=	8	20	500	PR 100		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	12/23/08	00:00	EPA 350.2	Ammonia as N	5.1405	mg/L	=	0.05	0.1	5	PR 103		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	12/23/08	00:00	EPA 160.1	Dissolved Solids	486	mg/L	=	8	20	500	PR 97		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	12/23/08	00:00	EPA 353.2	Nitrate + Nitrite as N	1.0445	mg/L	=	0.02	0.05	1	PR 104		None	PR 80-120	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LCS	1.00	12/23/08	00:00	EPA 365.2	Phosphate as P	1.011	mg/L	=	0.01	0.01	1	PR 101		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	12/30/08	00:00	EPA 350.2	Ammonia as N	5.2173	mg/L	=	0.05	0.1	5	PR 104		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	12/30/08	00:00	SM 2340 C	Hardness as CaCO3	1020	mg/L	=	1.7	5	1000	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	12/30/08	00:00	EPA 415.1	Total Organic Carbon	9.667	mg/L	=	0.1	0.5	10	PR 97		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	12/31/08	00:00	EPA 415.1	Total Organic Carbon	9.883	mg/L	=	0.1	0.5	10	PR 99		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	01/02/09	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	4.9317	mg/L	=	0.06	0.1	5	PR 99		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	01/06/09	00:00	EPA 353.2	Nitrate + Nitrite as N	1.0161	mg/L	=	0.02	0.05	1	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	01/21/09	00:00	EPA 365.2	OrthoPhosphate as P	0.209	mg/L	=	0.006	0.01	0.2	PR 105		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	01/21/09	00:00	EPA 180.1	Turbidity	4.19	NTU	=	0.02	0.05	4	PR 105		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 200.8	Arsenic (T)	19.44	µg/L	=	0.008	0.5	20	PR 97		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 200.8	Boron (T)	18.87	µg/L	=	0.5	10	20	PR 94		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 200.8	Cadmium (D)	19.61	µg/L	=	0.01	0.1	20	PR 98		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 200.8	Cadmium (T)	19.98	µg/L	=	0.01	0.1	20	PR 100		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 200.8	Copper (D)	19.12	µg/L	=	0.06	0.5	20	PR 96		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 200.8	Copper (T)	19.34	µg/L	=	0.06	0.5	20	PR 97		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 200.8	Lead (D)	20.86	µg/L	=	0.071	0.25	20	PR 104		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 200.8	Lead (T)	21.32	µg/L	=	0.071	0.25	20	PR 107		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 200.8	Molybdenum (T)	19.88	µg/L	=	0.016	0.25	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 200.8	Nickel (D)	19.19	µg/L	=	0.01	0.5	20	PR 96		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 200.8	Nickel (T)	19.41	µg/L	=	0.01	0.5	20	PR 97		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 353.2	Nitrate + Nitrite as N	0.9856	mg/L	=	0.02	0.05	1	PR 99		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 365.2	Phosphate as P	0.993	mg/L	=	0.01	0.01	1	PR 99		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 200.8	Selenium (T)	20.17	µg/L	=	0.06	1	20	PR 101		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 200.8	Zinc (D)	18.95	µg/L	=	0.8	1	20	PR 95		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	01/22/09	00:00	EPA 200.8	Zinc (T)	19.94	µg/L	=	0.8	1	20	PR 100		None	PR 75-125	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LCS	1.00	01/23/09	00:00	EPA 365.2	OrthoPhosphate as P	0.197	mg/L	=	0.006	0.01	0.2	PR 99		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	01/23/09	00:00	EPA 160.2	Suspended Solids	478	mg/L	=	4	6	500	PR 96		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	01/24/09	00:00	EPA 160.2	Suspended Solids	490	mg/L	=	4	6	500	PR 98		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	01/26/09	00:00	EPA 160.1	Dissolved Solids	452	mg/L	=	8	20	500	PR 90		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	01/27/09	00:00	EPA 350.2	Ammonia as N	4.8768	mg/L	=	0.05	0.1	5	PR 98		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	01/27/09	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	4.8004	mg/L	=	0.06	0.1	5	PR 96		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	01/27/09	00:00	EPA 415.1	Total Organic Carbon	10.18	mg/L	=	0.1	0.5	10	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	02/02/09	00:00	SM 2340 C	Hardness as CaCO3	102.3	mg/L	=	2	5	100	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	02/08/09	00:00	EPA 365.2	OrthoPhosphate as P	0.213	mg/L	=	0.006	0.01	0.2	PR 107		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	02/09/09	00:00	EPA 180.1	Turbidity	4.13	NTU	=	0.02	0.05	4	PR 103		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	02/10/09	00:00	EPA 200.8	Cadmium (D)	20.27	µg/L	=	0.011	0.1	20	PR 101		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	02/10/09	00:00	EPA 200.8	Copper (D)	20.08	µg/L	=	0.06	0.5	20	PR 100		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	02/10/09	00:00	EPA 200.8	Lead (D)	20.83	µg/L	=	0.071	0.25	20	PR 104		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	02/10/09	00:00	EPA 200.8	Nickel (D)	20.33	µg/L	=	0.01	0.5	20	PR 102		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	02/10/09	00:00	EPA 353.2	Nitrate + Nitrite as N	0.9669	mg/L	=	0.02	0.05	1	PR 97		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	02/10/09	00:00	EPA 200.8	Zinc (D)	20.95	µg/L	=	0.8	1	20	PR 105		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	02/11/09	00:00	EPA 200.8	Arsenic (T)	20.07	µg/L	=	0.008	0.5	20	PR 100		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	02/11/09	00:00	EPA 200.8	Boron (T)	20.69	µg/L	=	0.47	10	20	PR 103		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	02/11/09	00:00	EPA 200.8	Cadmium (T)	20.76	µg/L	=	0.011	0.1	20	PR 104		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	02/11/09	00:00	EPA 200.8	Copper (T)	20.42	µg/L	=	0.06	0.5	20	PR 102		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	02/11/09	00:00	SM 2340 C	Hardness as CaCO3	102.3	mg/L	=	1.7	5	100	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	02/11/09	00:00	EPA 200.8	Lead (T)	21.06	µg/L	=	0.071	0.25	20	PR 105		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	02/11/09	00:00	EPA 200.8	Molybdenum (T)	21.58	µg/L	=	0.016	0.25	20	PR 108		None	PR 75-125	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LCS	1.00	02/11/09	00:00	EPA 200.8	Nickel (T)	20.83	µg/L	=	0.01	0.5	20	PR 104		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	02/11/09	00:00	EPA 365.2	Phosphate as P	0.942	mg/L	=	0.01	0.01	1	PR 94		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	02/11/09	00:00	EPA 200.8	Selenium (T)	19.25	µg/L	=	0.06	1	20	PR 96		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	02/11/09	00:00	EPA 200.8	Zinc (T)	21.87	µg/L	=	0.8	1	20	PR 109		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	02/12/09	00:00	EPA 350.2	Ammonia as N	5.1185	mg/L	=	0.05	0.1	5	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	02/12/09	00:00	EPA 350.2	Ammonia as N	4.9867	mg/L	=	0.05	0.1	5	PR 100		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	02/12/09	00:00	EPA 160.1	Dissolved Solids	458	mg/L	=	8	20	500	PR 92		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	02/12/09	00:00	EPA 415.1	Total Organic Carbon	10.17	mg/L	=	0.1	0.5	10	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 160.1	Dissolved Solids	424	mg/L	=	8	20	500	PR 85		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	02/13/09	00:00	EPA 160.2	Suspended Solids	478	mg/L	=	4	6	500	PR 96		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	02/18/09	00:00	SM 2340 C	Hardness as CaCO3	102.8	mg/L	=	1.7	5	100	PR 103		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	02/19/09	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	5.0965	mg/L	=	0.06	0.1	5	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	02/19/09	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	4.8878	mg/L	=	0.06	0.1	5	PR 98		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	03/18/09	00:00	EPA 200.8	Arsenic (T)	19.72	µg/L	=	0.008	0.5	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	03/18/09	00:00	EPA 200.8	Boron (T)	19.17	µg/L	=	0.47	10	20	PR 96		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	03/18/09	00:00	EPA 200.8	Cadmium (D)	18.68	µg/L	=	0.011	0.1	20	PR 93		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	03/18/09	00:00	EPA 200.8	Cadmium (T)	19.21	µg/L	=	0.011	0.1	20	PR 96		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	03/18/09	00:00	EPA 200.8	Copper (D)	18.29	µg/L	=	0.06	0.5	20	PR 91		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	03/18/09	00:00	EPA 200.8	Copper (T)	18.73	µg/L	=	0.06	0.5	20	PR 94		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	03/18/09	00:00	EPA 200.8	Lead (D)	20.39	µg/L	=	0.071	0.25	20	PR 102		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	03/18/09	00:00	EPA 200.8	Lead (T)	20.76	µg/L	=	0.071	0.25	20	PR 104		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	03/18/09	00:00	EPA 200.8	Molybdenum (T)	17.73	µg/L	=	0.016	0.25	20	PR 89		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	03/18/09	00:00	EPA 200.8	Nickel (D)	18.38	µg/L	=	0.01	0.5	20	PR 92		None	PR 75-125	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LCS	1.00	03/18/09	00:00	EPA 200.8	Nickel (T)	18.95	µg/L	=	0.01	0.5	20	PR 95		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	03/18/09	00:00	EPA 365.2	OrthoPhosphate as P	0.193	mg/L	=	0.006	0.01	0.2	PR 97		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	03/18/09	00:00	EPA 200.8	Selenium (T)	17.89	µg/L	=	0.06	1	20	PR 89		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	03/18/09	00:00	EPA 180.1	Turbidity	4.07	NTU	=	0.02	0.05	4	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	03/18/09	00:00	EPA 200.8	Zinc (D)	19.16	µg/L	=	0.8	1	20	PR 96		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	03/18/09	00:00	EPA 200.8	Zinc (T)	20.13	µg/L	=	0.8	1	20	PR 101		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	03/19/09	00:00	EPA 160.1	Dissolved Solids	476	mg/L	=	8	20	500	PR 95		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	03/19/09	00:00	EPA 353.2	Nitrate + Nitrite as N	1.0168	mg/L	=	0.02	0.05	1	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	03/19/09	00:00	EPA 365.2	Phosphate as P	1.008	mg/L	=	0.01	0.01	1	PR 101		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	03/19/09	00:00	EPA 160.2	Suspended Solids	494	mg/L	=	4	6	500	PR 99		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	03/19/09	00:00	EPA 415.1	Total Organic Carbon	10.21	mg/L	=	0.1	0.5	10	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	03/25/09	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	5.0086	mg/L	=	0.06	0.1	5	PR 100		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	03/26/09	00:00	EPA 350.2	Ammonia as N	5.0196	mg/L	=	0.05	0.1	5	PR 100		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	03/26/09	00:00	SM 2340 C	Hardness as CaCO3	105.8	mg/L	=	1.7	5	100	PR 106		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	04/02/09	00:00	SM 2340 C	Hardness as CaCO3	102.3	mg/L	=	1.7	5	100	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	04/22/09	00:00	EPA 365.2	OrthoPhosphate as P	0.192	mg/L	=	0.006	0.01	0.2	PR 96		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	04/23/09	00:00	EPA 180.1	Turbidity	4.1	NTU	=	0.02	0.05	4	PR 103		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	04/24/09	00:00	EPA 350.2	Ammonia as N	4.8658	mg/L	=	0.06	0.1	5	PR 97		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	04/24/09	00:00	EPA 200.8	Arsenic (T)	19.6	µg/L	=	0.008	0.5	20	PR 98		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	04/24/09	00:00	EPA 200.8	Boron (T)	20.13	µg/L	=	0.47	10	20	PR 101		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	04/24/09	00:00	EPA 200.8	Cadmium (D)	18.73	µg/L	=	0.011	0.1	20	PR 94		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	04/24/09	00:00	EPA 200.8	Cadmium (T)	19.72	µg/L	=	0.011	0.1	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	04/24/09	00:00	EPA 200.8	Copper (D)	18.84	µg/L	=	0.06	0.5	20	PR 94		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	04/24/09	00:00	EPA 200.8	Copper (T)	19.64	µg/L	=	0.06	0.5	20	PR 98		None	PR 75-125	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LCS	1.00	04/24/09	00:00	EPA 200.8	Lead (D)	19.3	µg/L	=	0.071	0.25	20	PR 97		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	04/24/09	00:00	EPA 200.8	Lead (T)	20.52	µg/L	=	0.071	0.25	20	PR 103		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	04/24/09	00:00	EPA 200.8	Molybdenum (T)	18.95	µg/L	=	0.016	0.25	20	PR 95		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	04/24/09	00:00	EPA 200.8	Nickel (D)	18.77	µg/L	=	0.01	0.5	20	PR 94		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	04/24/09	00:00	EPA 200.8	Nickel (T)	19.86	µg/L	=	0.01	0.5	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	04/24/09	00:00	EPA 200.8	Selenium (T)	17.9	µg/L	=	0.06	1	20	PR 90		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	04/24/09	00:00	EPA 200.8	Zinc (D)	19.46	µg/L	=	0.8	1	20	PR 97		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	04/24/09	00:00	EPA 200.8	Zinc (T)	21.12	µg/L	=	0.8	1	20	PR 106		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	04/27/09	00:00	EPA 160.1	Dissolved Solids	460	mg/L	=	8	20	500	PR 92		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	04/27/09	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	4.8219	mg/L	=	0.06	0.1	5	PR 96		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	04/27/09	00:00	EPA 160.2	Suspended Solids	496	mg/L	=	4	6	500	PR 99		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	04/27/09	00:00	EPA 415.1	Total Organic Carbon	10.01	mg/L	=	0.1	0.5	10	PR 100		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 350.2	Ammonia as N	4.734	mg/L	=	0.06	0.1	5	PR 95		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 160.1	Dissolved Solids	516	mg/L	=	8	20	500	PR 103		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 353.2	Nitrate + Nitrite as N	0.9816	mg/L	=	0.02	0.05	1	PR 98		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 351.3	Nitrogen, Total Kjeldahl	4.734	mg/L	=	0.06	0.1	5	PR 95		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	04/28/09	00:00	EPA 365.2	Phosphate as P	1.033	mg/L	=	0.01	0.01	1	PR 103		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	04/29/09	00:00	SM 2340 C	Hardness as CaCO3	103.3	mg/L	=	1.7	5	100	PR 103		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	05/20/09	00:00	EPA 200.8	Boron (T)	22.42	µg/L	=	0.47	10	20	PR 112		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	05/20/09	00:00	EPA 200.8	Copper (T)	19.16	µg/L	=	0.06	0.5	20	PR 96		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	05/20/09	00:00	EPA 200.8	Nickel (T)	18.93	µg/L	=	0.01	0.5	20	PR 95		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	05/20/09	00:00	EPA 200.8	Selenium (T)	19.74	µg/L	=	0.06	1	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	05/20/09	00:00	EPA 180.1	Turbidity	3.97	NTU	=	0.02	0.05	4	PR 99		None	PR 80-120	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LCS	1.00	05/20/09	00:00	EPA 200.8	Zinc (T)	20.64	µg/L	=	0.8	1	20	PR 103		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	05/21/09	00:00	EPA 353.2	Nitrate + Nitrite as N	1.0071	mg/L	=	0.02	0.05	1	PR 101		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	05/21/09	00:00	EPA 365.2	Phosphate as P	1.058	mg/L	=	0.01	0.01	1	PR 106		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	05/21/09	00:00	EPA 415.1	Total Organic Carbon	10.4	mg/L	=	0.1	0.5	10	PR 104		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	05/21/09	00:00	EPA 415.1	Total Organic Carbon	10.22	mg/L	=	0.1	0.5	10	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 200.8	Copper (D)	18.78	µg/L	=	0.06	0.5	20	PR 94		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 200.8	Nickel (D)	18.75	µg/L	=	0.01	0.5	20	PR 94		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	05/22/09	00:00	EPA 200.8	Zinc (D)	19.75	µg/L	=	0.8	1	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	05/26/09	00:00	EPA 160.1	Dissolved Solids	478	mg/L	=	8	20	500	PR 96		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	05/26/09	00:00	EPA 160.2	Suspended Solids	245	mg/L	=	2	3	250	PR 98		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	05/27/09	00:00	EPA 350.2	Ammonia as N	4.7121	mg/L	=	0.06	0.1	5	PR 94		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	05/27/09	00:00	EPA 160.2	Suspended Solids	500	mg/L	=	4	6	500	PR 100		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	05/28/09	00:00	SM 2340 C	Hardness as CaCO3	100	mg/L	=	1.7	5	100	PR 100		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	06/17/09	00:00	EPA 180.1	Turbidity	4.11	NTU	=	0.02	0.05	4	PR 103		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 200.8	Boron (T)	19.44	µg/L	=	0.47	10	20	PR 97		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 200.8	Copper (D)	19.48	µg/L	=	0.06	0.5	20	PR 97		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 200.8	Copper (T)	19.91	µg/L	=	0.06	0.5	20	PR 100		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 200.8	Nickel (D)	19.71	µg/L	=	0.01	0.5	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 200.8	Nickel (T)	19.76	µg/L	=	0.01	0.5	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 353.2	Nitrate + Nitrite as N	0.9722	mg/L	=	0.02	0.05	1	PR 97		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 365.2	Phosphate as P	0.991	mg/L	=	0.01	0.01	1	PR 99		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 200.8	Selenium (T)	19.88	µg/L	=	0.06	1	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 160.2	Suspended Solids	488	mg/L	=	4	6	500	PR 98		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 415.1	Total Organic Carbon	10.01	mg/L	=	0.1	0.5	10	PR 100		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 200.8	Zinc (D)	20.02	µg/L	=	0.8	1	20	PR 100		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	06/18/09	00:00	EPA 200.8	Zinc (T)	20.58	µg/L	=	0.8	1	20	PR 103		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	06/19/09	00:00	EPA 200.8	Zinc (T)	20.46	µg/L	=	0.8	1	20	PR 102		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	06/22/09	00:00	EPA 160.1	Dissolved Solids	488	mg/L	=	8	20	500	PR 98		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	06/23/09	00:00	EPA 160.1	Dissolved Solids	504	mg/L	=	8	20	500	PR 101		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	06/25/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	100.3	mg/L	=	1.7	5	100	PR 100		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	06/29/09	00:00	EPA 350.2	Ammonia as N	4.9647	mg/L	=	0.06	0.1	5	PR 99		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	06/30/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	100.8	mg/L	=	1.7	5	100	PR 101		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	07/22/09	00:00	EPA 200.8	Boron (T)	20.62	µg/L	=	0.47	10	20	PR 103		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	07/22/09	00:00	EPA 200.8	Copper (D)	19.41	µg/L	=	0.06	0.5	20	PR 97		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	07/22/09	00:00	EPA 200.8	Copper (T)	19.58	µg/L	=	0.06	0.5	20	PR 98		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	07/22/09	00:00	EPA 200.8	Nickel (D)	19.61	µg/L	=	0.01	0.5	20	PR 98		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	07/22/09	00:00	EPA 200.8	Nickel (T)	20.03	µg/L	=	0.01	0.5	20	PR 100		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	07/22/09	00:00	EPA 200.8	Selenium (T)	19.78	µg/L	=	0.06	1	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	07/22/09	00:00	EPA 180.1	Turbidity	4.24	NTU	=	0.02	0.05	4	PR 106		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	07/22/09	00:00	EPA 200.8	Zinc (D)	20.59	µg/L	=	0.8	1	20	PR 103		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	07/22/09	00:00	EPA 200.8	Zinc (T)	20.63	µg/L	=	0.8	1	20	PR 103		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	07/23/09	00:00	EPA 200.8	Boron (T)	22.66	µg/L	=	0.47	10	20	PR 113		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	07/23/09	00:00	EPA 200.8	Copper (T)	20.58	µg/L	=	0.06	0.5	20	PR 103		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	07/23/09	00:00	EPA 200.8	Nickel (T)	20.33	µg/L	=	0.01	0.5	20	PR 102		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	07/23/09	00:00	EPA 353.2	Nitrate + Nitrite as N	0.9917	mg/L	=	0.02	0.05	1	PR 99		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	07/23/09	00:00	EPA 365.2	Phosphate as P	0.935	mg/L	=	0.01	0.01	1	PR 94		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	07/23/09	00:00	EPA 200.8	Selenium (T)	20.43	µg/L	=	0.06	1	20	PR 102		None	PR 75-125	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LCS	1.00	07/23/09	00:00	EPA 415.1	Total Organic Carbon	9.924	mg/L	=	0.1	0.5	10	PR 99		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	07/23/09	00:00	EPA 200.8	Zinc (T)	20.89	µg/L	=	0.8	1	20	PR 104		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	07/24/09	00:00	EPA 160.2	Suspended Solids	498	mg/L	=	4	6	500	PR 100		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	07/25/09	00:00	EPA 160.2	Suspended Solids	490	mg/L	=	4	6	500	PR 98		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	07/27/09	00:00	EPA 160.1	Dissolved Solids	492	mg/L	=	8	20	500	PR 98		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	07/29/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	103.6	mg/L	=	1.7	5	100	PR 104		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	07/30/09	00:00	EPA 350.2	Ammonia as N	5.1734	mg/L	=	0.06	0.1	5	PR 103		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	07/30/09	00:00	EPA 350.2	Ammonia as N	5.0306	mg/L	=	0.06	0.1	5	PR 101		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	08/19/09	00:00	EPA 180.1	Turbidity	4.15	NTU	=	0.02	0.05	4	PR 104		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	08/20/09	00:00	EPA 200.8	Boron (T)	21.45	µg/L	=	0.47	10	20	PR 107		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	08/20/09	00:00	EPA 200.8	Copper (D)	19.09	µg/L	=	0.06	0.5	20	PR 95		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	08/20/09	00:00	EPA 200.8	Copper (T)	20.4	µg/L	=	0.06	0.5	20	PR 102		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	08/20/09	00:00	EPA 200.8	Nickel (D)	19.22	µg/L	=	0.01	0.5	20	PR 96		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	08/20/09	00:00	EPA 200.8	Nickel (T)	20.08	µg/L	=	0.01	0.5	20	PR 100		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	08/20/09	00:00	EPA 200.8	Selenium (T)	20.54	µg/L	=	0.06	1	20	PR 103		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	08/20/09	00:00	EPA 415.1	Total Organic Carbon	10.4	mg/L	=	0.1	0.5	10	PR 104		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	08/20/09	00:00	EPA 415.1	Total Organic Carbon	10.29	mg/L	=	0.1	0.5	10	PR 103		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	08/20/09	00:00	EPA 200.8	Zinc (D)	20.23	µg/L	=	0.8	1	20	PR 101		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	08/20/09	00:00	EPA 200.8	Zinc (T)	21.08	µg/L	=	0.8	1	20	PR 105		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 200.8	Boron (T)	21.86	µg/L	=	0.47	10	20	PR 109		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 200.8	Copper (D)	18.72	µg/L	=	0.06	0.5	20	PR 94		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 200.8	Copper (T)	19.8	µg/L	=	0.06	0.5	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 200.8	Nickel (T)	19.72	µg/L	=	0.01	0.5	20	PR 99		None	PR 75-125	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 200.8	Selenium (T)	20.43	µg/L	=	0.06	1	20	PR 102		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 160.2	Suspended Solids	502	mg/L	=	4	6	500	PR 100		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	08/24/09	00:00	EPA 200.8	Zinc (T)	20.93	µg/L	=	0.8	1	20	PR 105		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	08/25/09	00:00	EPA 160.1	Dissolved Solids	484	mg/L	=	8	20	500	PR 97		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	08/25/09	00:00	EPA 160.1	Dissolved Solids	488	mg/L	=	8	20	500	PR 98		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	08/25/09	00:00	EPA 353.2	Nitrate + Nitrite as N	0.9992	mg/L	=	0.02	0.05	1	PR 100		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	08/26/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	102.2	mg/L	=	1.7	5	100	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	08/27/09	00:00	EPA 350.2	Ammonia as N	4.9098	mg/L	=	0.06	0.1	5	PR 98		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	08/27/09	00:00	EPA 365.2	Phosphate as P	1.011	mg/L	=	0.01	0.01	1	PR 101		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	09/01/09	00:00	EPA 350.2	Ammonia as N	4.9647	mg/L	=	0.06	0.1	5	PR 99		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	09/15/09	00:00	EPA 200.8	Copper (T)	20.12	µg/L	=	0.06	0.5	20	PR 101		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	09/15/09	00:00	EPA 200.8	Zinc (T)	21.35	µg/L	=	0.8	1	20	PR 107		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	09/24/09	00:00	EPA 200.8	Boron (T)	17.67	µg/L	=	0.47	10	20	PR 88		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	09/24/09	00:00	EPA 200.8	Copper (D)	19.97	µg/L	=	0.06	0.5	20	PR 100		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	09/24/09	00:00	EPA 200.8	Copper (T)	20.5	µg/L	=	0.06	0.5	20	PR 103		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	09/24/09	00:00	EPA 200.8	Nickel (D)	20.72	µg/L	=	0.01	0.5	20	PR 104		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	09/24/09	00:00	EPA 200.8	Nickel (T)	20.56	µg/L	=	0.01	0.5	20	PR 103		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	09/24/09	00:00	EPA 200.8	Selenium (T)	20.54	µg/L	=	0.06	1	20	PR 103		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	09/24/09	00:00	EPA 180.1	Turbidity	4.19	NTU	=	0.02	0.05	4	PR 105		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	09/24/09	00:00	EPA 200.8	Zinc (D)	20.99	µg/L	=	0.8	1	20	PR 105		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	09/24/09	00:00	EPA 200.8	Zinc (T)	20.85	µg/L	=	0.8	1	20	PR 104		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	09/25/09	00:00	EPA 160.1	Dissolved Solids	476	mg/L	=	8	20	500	PR 95		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2

Adminsitrative Record
Page 17221

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LCS	1.00	09/26/09	00:00	EPA 160.2	Suspended Solids	498	mg/L	=	4	6	500	PR 100		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	09/27/09	00:00	EPA 160.2	Suspended Solids	500	mg/L	=	4	6	500	PR 100		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 353.2	Nitrate + Nitrite as N	0.9893	mg/L	=	0.02	0.05	1	PR 99		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	09/29/09	00:00	EPA 365.2	Phosphate as P	0.96	mg/L	=	0.01	0.01	1	PR 96		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	09/30/09	00:00	EPA 415.1	Total Organic Carbon	9.676	mg/L	=	0.1	0.5	10	PR 97		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	10/06/09	00:00	EPA 350.2	Ammonia as N	4.8988	mg/L	=	0.06	0.1	5	PR 98		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	10/07/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	103.2	mg/L	=	1.7	5	100	PR 103		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	10/09/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	103.1	mg/L	=	1.7	5	100	PR 103		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	10/21/09	00:00	EPA 160.2	Suspended Solids	492	mg/L	=	4	6	500	PR 98		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	10/21/09	00:00	EPA 180.1	Turbidity	4.09	NTU	=	0.02	0.05	4	PR 102		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	10/23/09	00:00	EPA 200.8	Boron (T)	19.41	µg/L	=	0.47	10	20	PR 97		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/23/09	00:00	EPA 200.8	Copper (D)	19.13	µg/L	=	0.06	0.5	20	PR 96		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/23/09	00:00	EPA 200.8	Copper (T)	19.21	µg/L	=	0.06	0.5	20	PR 96		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/23/09	00:00	EPA 200.8	Nickel (D)	19.39	µg/L	=	0.01	0.5	20	PR 97		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/23/09	00:00	EPA 200.8	Nickel (T)	19.6	µg/L	=	0.01	0.5	20	PR 98		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/23/09	00:00	EPA 200.8	Selenium (T)	19.45	µg/L	=	0.06	1	20	PR 97		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/23/09	00:00	EPA 200.8	Zinc (D)	20.19	µg/L	=	0.8	1	20	PR 101		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/23/09	00:00	EPA 200.8	Zinc (T)	20.08	µg/L	=	0.8	1	20	PR 100		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	10/27/09	00:00	EPA 160.1	Dissolved Solids	472	mg/L	=	8	20	500	PR 94		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	10/28/09	00:00	EPA 415.1	Total Organic Carbon	10.32	mg/L	=	0.1	0.5	10	PR 103		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	10/28/09	00:00	EPA 415.1	Total Organic Carbon	10.3	mg/L	=	0.1	0.5	10	PR 103		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	10/29/09	00:00	EPA 350.2	Ammonia as N	4.9976	mg/L	=	0.06	0.1	5	PR 100		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	10/29/09	00:00	EPA 353.2	Nitrate + Nitrite as N	1.0559	mg/L	=	0.02	0.05	1	PR 106		None	PR 80-120	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LCS	1.00	10/29/09	00:00	EPA 365.2	Phosphate as P	0.997	mg/L	=	0.01	0.01	1	PR 100		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	10/30/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	103.7	mg/L	=	1.7	5	100	PR 104		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	11/02/09	00:00	EPA 350.2	Ammonia as N	5.0196	mg/L	=	0.06	0.1	5	PR 100		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	11/18/09	00:00	EPA 160.2	Suspended Solids	498	mg/L	=	4	6	500	PR 100		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	11/18/09	00:00	EPA 415.1	Total Organic Carbon	9.947	mg/L	=	0.1	0.5	10	PR 99		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	11/18/09	00:00	EPA 180.1	Turbidity	4.15	NTU	=	0.02	0.05	4	PR 104		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 200.8	Boron (T)	20.26	µg/L	=	0.47	10	20	PR 101		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 200.8	Copper (T)	18.83	µg/L	=	0.06	0.5	20	PR 94		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 200.8	Nickel (T)	18.86	µg/L	=	0.01	0.5	20	PR 94		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 353.2	Nitrate + Nitrite as N	0.9795	mg/L	=	0.02	0.05	1	PR 98		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 365.2	Phosphate as P	0.98	mg/L	=	0.01	0.01	1	PR 98		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 200.8	Selenium (T)	21.57	µg/L	=	0.06	1	20	PR 108		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 160.2	Suspended Solids	498	mg/L	=	4	6	500	PR 100		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	11/19/09	00:00	EPA 200.8	Zinc (T)	20.3	µg/L	=	0.8	1	20	PR 102		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/20/09	00:00	EPA 200.8	Copper (D)	18.09	µg/L	=	0.06	0.5	20	PR 90		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/20/09	00:00	EPA 200.8	Nickel (D)	18.16	µg/L	=	0.01	0.5	20	PR 91		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/20/09	00:00	EPA 200.8	Zinc (D)	18.74	µg/L	=	0.8	1	20	PR 94		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	11/23/09	00:00	EPA 350.2	Ammonia as N	4.9537	mg/L	=	0.06	0.1	5	PR 99		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	11/23/09	00:00	EPA 350.2	Ammonia as N	4.9319	mg/L	=	0.06	0.1	5	PR 99		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	11/23/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	104.5	mg/L	=	1.7	5	100	PR 105		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	11/24/09	00:00	EPA 160.1	Dissolved Solids	502	mg/L	=	8	20	500	PR 100		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	12/11/09	00:00	EPA 200.8	Zinc (T)	19.44	µg/L	=	0.8	1	20	PR 97		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/16/09	00:00	EPA 180.1	Turbidity	3.94	NTU	=	0.02	0.05	4	PR 99		None	PR 80-120	DF=1

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	EPA 200.8	Arsenic (T)	19.78	µg/L	=	0.008	0.5	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	EPA 200.8	Boron (T)	21.49	µg/L	=	0.47	10	20	PR 107		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	EPA 200.8	Cadmium (D)	19.52	µg/L	=	0.011	0.1	20	PR 98		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	EPA 200.8	Cadmium (T)	19.84	µg/L	=	0.011	0.1	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	EPA 200.8	Copper (D)	18.62	µg/L	=	0.06	0.5	20	PR 93		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	EPA 200.8	Copper (T)	18.85	µg/L	=	0.06	0.5	20	PR 94		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	105	mg/L	=	1.7	5	100	PR 105		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	EPA 200.8	Lead (D)	20.52	µg/L	=	0.071	0.25	20	PR 103		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	EPA 200.8	Lead (T)	20.56	µg/L	=	0.071	0.25	20	PR 103		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	EPA 200.8	Molybdenum (T)	19.99	µg/L	=	0.016	0.25	20	PR 100		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	EPA 200.8	Nickel (D)	18.83	µg/L	=	0.01	0.5	20	PR 94		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	EPA 200.8	Nickel (T)	19.08	µg/L	=	0.01	0.5	20	PR 95		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	EPA 200.8	Selenium (T)	19.7	µg/L	=	0.06	1	20	PR 99		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	EPA 160.2	Suspended Solids	492	mg/L	=	4	6	500	PR 98		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	EPA 415.1	Total Organic Carbon	10.08	mg/L	=	0.1	0.5	10	PR 101		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	EPA 415.1	Total Organic Carbon	9.937	mg/L	=	0.1	0.5	10	PR 99		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	EPA 200.8	Zinc (D)	19.45	µg/L	=	0.8	1	20	PR 97		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/17/09	00:00	EPA 200.8	Zinc (T)	19.58	µg/L	=	0.8	1	20	PR 98		None	PR 75-125	DF=1
Laboratory QA Samples	LCS	1.00	12/21/09	00:00	EPA 350.2	Ammonia as N	5.0306	mg/L	=	0.06	0.1	5	PR 101		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	12/21/09	00:00	EPA 350.2	Ammonia as N	5.0197	mg/L	=	0.06	0.1	5	PR 100		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	12/21/09	00:00	SM 2340 C	Hardness as CaCO3 (D)	103.9	mg/L	=	1.7	5	100	PR 104		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	12/22/09	00:00	EPA 160.1	Dissolved Solids	488	mg/L	=	8	20	500	PR 98		Analyte analyzed at a secondary dilution.	PR 80-120	DF=2
Laboratory QA Samples	LCS	1.00	12/22/09	00:00	EPA 353.2	Nitrate + Nitrite as N	1.0932	mg/L	=	0.02	0.05	1	PR 109		None	PR 80-120	DF=1
Laboratory QA Samples	LCS	1.00	12/22/09	00:00	EPA 365.2	Phosphate as P	1.018	mg/L	=	0.01	0.01	1	PR 102		None	PR 80-120	DF=1

Table III - 5. ESJWQC sample results for field duplicates (FD) for inorganic sediment analysis including grain size and TOC.

For samples with an RPD (*) please refer to the Precision and Accuracy section of the AMR for a more detailed analysis. Samples are sorted by station name, sample date, analyte and fraction.

StationName	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Fraction Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	SED FD	2.00	2.00	04/21/09	09:00	ASTM D422	None	Clay <0.005 mm	2.57	%	=	0.01	0.01	4.08	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	1.00	04/21/09	09:00	ASTM D422	None	Clay <0.005 mm	4.08	%	=	0.01	0.01	5.15	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	1.00	04/21/09	09:00	ASTM D422	None	Gravel 4.75 to <75 mm	<0.01	%	ND	0.01	0.01	<0.01	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	2.00	04/21/09	09:00	ASTM D422	None	Gravel 4.75 to <75 mm	<0.01	%	ND	0.01	0.01	<0.01	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	1.00	04/21/09	09:00	ASTM D422	Coarse 2.0 to <4.75 mm	Sand 0.075 to <4.75 mm	<0.01	%	ND	0.01	0.01	<0.01	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	2.00	04/21/09	09:00	ASTM D422	Coarse 2.0 to <4.75 mm	Sand 0.075 to <4.75 mm	<0.01	%	ND	0.01	0.01	<0.01	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	1.00	04/21/09	09:00	ASTM D422	Fine 0.075 to <0.425 mm	Sand 0.075 to <4.75 mm	37.94	%	=	0.01	0.01	34.96	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	2.00	04/21/09	09:00	ASTM D422	Fine 0.075 to <0.425 mm	Sand 0.075 to <4.75 mm	42.78	%	=	0.01	0.01	37.94	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	1.00	04/21/09	09:00	ASTM D422	Medium 0.425 to <2.0 mm	Sand 0.075 to <4.75 mm	34.47	%	=	0.01	0.01	30.98	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	2.00	04/21/09	09:00	ASTM D422	Medium 0.425 to <2.0 mm	Sand 0.075 to <4.75 mm	37.05	%	=	0.01	0.01	34.47	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	1.00	04/21/09	09:00	ASTM D422	None	Silt 0.005 to <0.075 mm	23.51	%	=	0.01	0.01	28.92	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	2.00	04/21/09	09:00	ASTM D422	None	Silt 0.005 to <0.075 mm	17.6	%	=	0.01	0.01	23.51	*	None	RSD <20	DF=1

Adminsitrative Record
Page 17225

StationName	Sample Type Code	Sample Replicate	Lab Replicate	Sample Date	Sample Time	Method Name	Fraction Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	RPD	Quality Assurance	Data Acceptability Criteria	Lab Comments
Mootz Drain @ Langworth Rd	SED FD	2.00	1.00	04/21/09	09:00	Walkley-Black	None	Total Organic Carbon	8500	mg/Kg dw	=	100	200	11100	FD RPD 26.53	Field duplicate RPD above QC limit	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	2.00	04/21/09	09:00	Walkley-Black	None	Total Organic Carbon	8450	mg/Kg dw	=	100	200	8500	RPD 0.1	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	1.00	08/18/09	09:30	ASTM D422	None	Clay <0.005 mm	7.04	%	=	0.01	0.01	10.52	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	1.00	08/18/09	09:30	ASTM D422	None	Gravel 4.75 to <75 mm	<0.01	%	ND	0.01	0.01	<0.01	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	1.00	08/18/09	09:30	ASTM D422	Coarse 2.0 to <4.75 mm	Sand 0.075 to <4.75 mm	<0.01	%	ND	0.01	0.01	<0.01	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	1.00	08/18/09	09:30	ASTM D422	Fine 0.075 to <0.425 mm	Sand 0.075 to <4.75 mm	28.66	%	=	0.01	0.01	24.31	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	1.00	08/18/09	09:30	ASTM D422	Medium 0.425 to <2.0 mm	Sand 0.075 to <4.75 mm	46.55	%	=	0.01	0.01	46.26	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	1.00	08/18/09	09:30	ASTM D422	None	Silt 0.005 to <0.075 mm	17.75	%	=	0.01	0.01	18.91	*	None	RSD <20	DF=1
Mootz Drain @ Langworth Rd	SED FD	2.00	1.00	08/18/09	09:30	Walkley-Black	None	Total Organic Carbon	4050	mg/Kg dw	=	100	200	3750	FD RPD 7.69	None	RSD <20	DF=1

Table III - 6. ESJWQC laboratory quality assurance (LABQA) results for inorganic sediment analysis.

Samples are sorted by station name, sample date and analyte.

Station Name	Sample Type Code	Lab Replicate	Sample Date	Sample Time	Method Name	Analyte	Result	Unit	Qualifier Code	MDL	RL	Expected Value	PR	Quality Assurance	Data Acceptability Criteria	Lab Comments
Laboratory QA Samples	CRM	1.00	04/29/09	15:00	Walkley-Black	Total Organic Carbon	4820	mg/Kg dw	=	100	200	3400	PR 142	None - No QA Qualifier	PR 21-199	DF=1
Laboratory QA Samples	LabBlank	1.00	04/29/09	15:00	Walkley-Black	Total Organic Carbon	<100	mg/Kg dw	ND	100	200			None - No QA Qualifier	<RL	DF=1
Laboratory QA Samples	CRM	1.00	09/11/09	00:00	Walkley-Black	Total Organic Carbon	2940	mg/Kg dw	=	100	200	3240	PR 91	None - No QA Qualifier	PR 21-199	DF=1
Laboratory QA Samples	LabBlank	1.00	09/11/09	00:00	Walkley-Black	Total Organic Carbon	<100	mg/Kg dw	ND	100	200			None - No QA Qualifier	<RL	DF=1

Table III - 7. ESJWQC calculated unionized ammonia field duplicate (FD) results.

Samples are sorted by station name and sample date. Please refer to the Precision and Accuracy section of the AMR for a more detailed description of the unionized ammonia calculation.

Station Name	Sample Type Code	Sample Date	Sample Time	Analyte	pH, none	Temperature °C	Ammonia as N Result	Unit	Calculated Unionized Ammonia Result
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	Ammonia as N	7.86	8.26	0.52	mg/L	0.006048
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	Ammonia as N	7.85	10.28	5.4	mg/L	0.071840
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	Ammonia as N	8	11.7	15	mg/L	0.312420
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	Ammonia as N	9.57	19.31	0.055	mg/L	0.032113
Lateral 2 1/2 near Keys Rd	FD	11/11/08	11:10	Ammonia as N	9.09	10.2	0.57	mg/L	0.107656
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	Ammonia as N	8.03	12.18	0.3	mg/L	0.006932
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	Ammonia as N	7.97	13.73	0.66	mg/L	0.014968
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	Ammonia as N	6.89	18.56	0.32	mg/L	0.000885
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	Ammonia as N	7.32	19.29	0.088	mg/L	0.000688
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	Ammonia as N	7.13	19.8	0.49	mg/L	0.002574
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	Ammonia as N	6.64	21.33	0.29	mg/L	0.000553
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	Ammonia as N	7.13	20.53	0.32	mg/L	0.001772
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	Ammonia as N	6.76	20.02	0.32	mg/L	0.000731
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	Ammonia as N	8.28	15	1.3	mg/L	0.064470
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	Ammonia as N	7.19	8.1	5	mg/L	0.012389

Table III - 8. ESJWQC water toxicity testing results.

Results are for *Ceriodaphnia dubia, Pimephales promelas and Selenastrum capricornutum* field duplicates (FD) samples collected from October 2008 through December 2009. Samples are sorted by station name, species and sample date. Data acceptability criteria is RPD <25.

Station Name	Sample Type Code	Sample Date	Sample Time	Matrix	Toxicity Start Date	Species	Toxicity End Point	Control Mean	Sample Mean	Percent Control	Toxicity Significance	Data Acceptability Criteria	Toxicity Test Comments
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	water	12/17/08	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	water	01/21/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	water	12/16/09	*Ceriodaphnia dubia*	Survival (%)	100	95	95	NSG	RPD <25	FD RPD 5.13
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	water	12/17/08	*Pimephales promelas*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	water	01/21/09	*Pimephales promelas*	Survival (%)	100	97.5	97.5	NSG	RPD <25	FD RPD 10.8
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	water	12/16/09	*Pimephales promelas*	Survival (%)	100	57.5	57.5	SL	RPD <25	FD RPD 26.4
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/16/08	12:00	water	12/17/08	*Selenastrum capricornutum*	Total Cell Count	1116745	3471194	311	NSG	RPD <25	FD RPD 2.9
Deadman Creek (Dutchman) @ Gurr Rd	FD	01/20/09	12:00	water	01/21/09	*Selenastrum capricornutum*	Total Cell Count	546857	1422856	260	NSG	RPD <25	FD RPD 7.35
Deadman Creek (Dutchman) @ Gurr Rd	FD	12/15/09	12:30	water	12/16/09	*Selenastrum capricornutum*	Total Cell Count	468701	1670350	356	NSG	RPD <25	FD RPD 3.77
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	water	10/22/08	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Lateral 2 1/2 near Keys Rd	FD	11/11/08	11:10	water	11/12/08	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	water	10/22/08	*Pimephales promelas*	Survival (%)	97.5	87.5	90	NSG	RPD <25	FD RPD 5.6
Lateral 2 1/2 near Keys Rd	FD	11/11/08	11:10	water	11/12/08	*Pimephales promelas*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Lateral 2 1/2 near Keys Rd	FD	10/21/08	10:40	water	10/22/08	*Selenastrum capricornutum*	Total Cell Count	667348	1908074	286	NSG	RPD <25	FD RPD 2.1
Lateral 2 1/2 near Keys Rd	FD	11/11/08	11:10	water	11/12/08	*Selenastrum capricornutum*	Total Cell Count	540344	3236726	599	NSG	RPD <25	FD RPD 1.0
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	water	02/08/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	water	03/18/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	water	04/22/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	water	05/20/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	water	06/17/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	water	07/22/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	water	08/19/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	water	09/23/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	water	10/21/09	*Ceriodaphnia dubia*	Survival (%)	100	95	95	NSG	RPD <25	FD RPD 0

Station Name	Sample Type Code	Sample Date	Sample Time	Matrix	Toxicity Start Date	Species	Toxicity End Point	Control Mean	Sample Mean	Percent Control	Toxicity Significance	Data Acceptability Criteria	Toxicity Test Comments
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	water	11/18/09	*Ceriodaphnia dubia*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	water	02/08/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	water	03/18/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	water	04/22/09	*Pimephales promelas*	Survival (%)	100	97.5	97.5	NSG	RPD <25	FD RPD 2.5
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	water	05/20/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	water	06/17/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	water	07/22/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	water	08/19/09	*Pimephales promelas*	Survival (%)	100	97.5	98	NSG	RPD <25	FD RPD 2.53
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	water	09/23/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	water	10/21/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 0
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	water	11/18/09	*Pimephales promelas*	Survival (%)	100	100	100	NSG	RPD <25	FD RPD 2.53
Mootz Drain @ Langworth Rd	FD	02/07/09	08:40	water	02/08/09	*Selenastrum capricornutum*	Total Cell Count	852968	615244	72	SL	RPD <25	FD RPD 0.8
Mootz Drain @ Langworth Rd	FD	03/17/09	08:50	water	03/18/09	*Selenastrum capricornutum*	Total Cell Count	585935	1572655	268	NSG	RPD <25	FD RPD 14.4
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	water	04/22/09	*Selenastrum capricornutum*	Total Cell Count	722708	5727949	793	NSG	RPD <25	FD RPD 0.3
Mootz Drain @ Langworth Rd	FD	05/19/09	09:00	water	05/20/09	*Selenastrum capricornutum*	Total Cell Count	892046	6584408	738	NSG	RPD <25	FD RPD 4.50
Mootz Drain @ Langworth Rd	FD	06/16/09	09:20	water	06/17/09	*Selenastrum capricornutum*	Total Cell Count	191899	6623486	3452	NSG	RPD <25	FD RPD 0.64
Mootz Drain @ Langworth Rd	FD	07/21/09	09:00	water	07/22/09	*Selenastrum capricornutum*	Total Cell Count	211438	5050597	2389	NSG	RPD <25	FD RPD 0.71
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	water	08/19/09	*Selenastrum capricornutum*	Total Cell Count	563140	6721181	1194	NSG	RPD <25	FDRPD 2.75
Mootz Drain @ Langworth Rd	FD	09/22/09	09:30	water	09/23/09	*Selenastrum capricornutum*	Total Cell Count	641296	4028056	628	NSG	RPD <25	FD RPD 8.69
Mootz Drain @ Langworth Rd	FD	10/20/09	09:00	water	10/21/09	*Selenastrum capricornutum*	Total Cell Count	374263	3972695	1061	NSG	RPD <25	FD RPD 18.50
Mootz Drain @ Langworth Rd	FD	11/17/09	09:30	water	11/18/09	*Selenastrum capricornutum*	Total Cell Count	524062	5102701	974	NSG	RPD <25	FD RPD 4.64

Table III - 9. ESJWQC sediment toxicity testing results.

Results are for *Hyalella azteca* field duplicates (FD) samples collected during the 2009 irrigation season. Samples are sorted by station name and sample date. Data acceptability criteria is RPD <25.

Station Name	Sample Type Code	Sample Date	Sample Time	Matrix	Toxicity Start Date	Species	Toxicity End Point	Control Mean	Sample Mean	Percent Control	Toxicity Significance	Toxicity Test Comments
Mootz Drain @ Langworth Rd	FD	04/21/09	09:00	sediment	04/28/09	*Hyalella azteca*	Survival (%)	82	79	96	NSG	FD RPD 2.56
Mootz Drain @ Langworth Rd	FD	08/18/09	09:30	sediment	08/25/09	*Hyalella azteca*	Survival (%)	98	98	100	NSG	FD RPD 2.06

Adminsitrative Record
Page 17231

Appendix IV
Pesticide Use Reports

Adminsitrative Record
Page 17232

Table of Contents

Ash Slough @ Ave 21 6

Pesticide Use Reports for metal exceedance in the water column 6

Deadman Creek @ Gurr Road 8

Pesticide Use Reports for water column toxicity. 8

Storm 2 (12/15/09) – *Pimephales promelas* toxicity. 21

Dry Creek @ Wellsford Rd 22

Pesticide Use Reports for pesticide exceedance in the water column. 22

Duck Slough @ Gurr Rd 24

Pesticide Use Reports for metal exceedance in the water column. 24

Highline Canal @ Hwy 99 (Merced and Stanislaus Counties) 27

Pesticide Use Reports for pesticide exceedance in the water column. 27

Howard Lateral @ Hwy 140 30

Pesticide Use Reports for water column toxicity. 30

Pesticide Use Reports for metal exceedance in the water column 34

Fall 1 (10/20/09) – copper exceedance 34

Lateral 2 ½ near Keyes Rd 35

Pesticide Use Reports for water column toxicity. 35

Pesticide Use Reports for pesticide exceedance in the water column. 110

Merced River @ Santa Fe 115

Pesticide Use Reports for pesticide exceedance in the water column. 115

Miles Creek @ Reilly Rd 117

Pesticide Use Reports for pesticide exceedance in the water column. 117

Mootz Drain @ Langworth Rd. 119

Pesticide Use Reports for pesticide exceedance in the water column. 119

Fall 3 (12/16/08) – chlorpyrifos exceedance. 119

Storm 1 (02/07/09) – diuron exceedance. 119

Adminsitrative Record
Page 17233

Irrigation 3 (6/16/09) – chlorpyrifos exceedance. 119
Pesticide Use Reports for water column toxicity. 120
Mustang Creek @ East Ave. 122
Pesticide Use Reports for metal exceedance in the water column. 122
Fall 1 (10/20/09) – copper exceedance. 124
Storm 2 (12/15/09) – copper exceedance. 124
Prairie Flower Drain @ Crows Landing Rd 125
Pesticide Use Reports for water column toxicity. 125

Adminsitrative Record
Page 17234

List of Tables

Table 1. Irrigation 2 (5/19/09) – copper exceedance 6
Table 2. Winter 1 (1/20/09) - *Pimephales promelas* toxicity..... 8
Table 3. Storm 1 (2/7/09) – *Ceriodaphnia dubia* toxicity. 11
Table 4. Storm 1 (2/7/09) – *Pimephales promelas* toxicity. 13
Table 5. Storm 1 (2/7/09) – *Selenastrum capricornutum* toxicity. 15
Table 6. Winter 2 (03/17/09) – *Ceriodaphnia dubia* toxicity. 18
Table 7. Irrigation 5 (8/18/09) – chlorpyrifos exceedance. 22
Table 8. Irrigation 2 (5/19/09) – copper exceedance. 24
Table 9. Irrigation 4 (7/21/09) – chlorpyrifos exceedance. 27
Table 10. Irrigation 2 (5/19/09) – Selenastrum capricornutum toxicity..... 30
Table 11. Irrigation 1-Storm Sediment (4/21/09) – Hyalella azteca toxicity. 35
Table 12. Irrigation 2 (5/19/09) – *Selenastrum capricornutum* toxicity. 77
Table 13. Irrigation 4 (7/21/09) – chlorpyrifos exceedance. 110
Table 14. Fall 2 (11/11/08) – chlorpyrifos exceedance. 115
Table 15. Irrigation 4 (7/21/09) – chlorpyrifos exceedance. 117
Table 16. Storm 1 (02/07/09) – *Selenastrum capricornutum* toxicity. 120
Table 17. Storm 1 (02/07/09) – copper exceedance. 122
Table 18. Irrigation 2 (5/19/09) – *Selenastrum capricornutum* toxicity. 125

Adminsitrative Record
Page 17235

List of Figures

Figure 1. Location of copper use for Ash Slough @ Ave 21-Irrigation 2, NM. 7

Figure 2. Location of pesticide use associate with *Pimephales promelas* toxicity for Deadman Creek @ Gurr Rd - Winter 1, NM. 10

Figure 3. Location of pesticide use associated with *Ceriodaphnia dubia* toxicity for Deadman Creek @ Gurr Rd - Storm 1, MPM..... 12

Figure 4. Location of pesticide use associated with *Pimephales promelas* toxicity for Deadman Creek @ Gurr Rd - Storm 1, MPM..... 14

Figure 5. Location of pesticide use associated with *Selenastrum capricornutum* toxicity for Deadman Creek @ Gurr Rd – Storm 1, MPM. 17

Figure 6. Location of pesticide use associated with *Ceriodaphnia dubia* toxicity for Deadman Creek @ Gurr Rd – Winter 2, MPM. 20

Figure 7. Location of pesticide use associated with Selenastrum capricornutum toxicity for Howard Lateral @ Hwy 140 – Irrigation 2, NM. 33

Figure 8. Location of pesticide use associated with *Selenastrum capricornutum* toxicity for Lateral 2 ½ near Keyes Rd–Irrigation 2, NM. 109

Figure 9. Location of chlorpyrifos use for Lateral 2 ½ near Keyes Rd – Irrigation 4, NM. 114

Figure 10. Location of chlorpyrifos use for Merced River @ Santa Fe– Fall 2, NM. 116

Figure 11. Location of chlorpyrifos use for Miles Creek @ Reilly Rd– Irrigation 4, MPM. 118

Adminsitrative Record
Page 17236

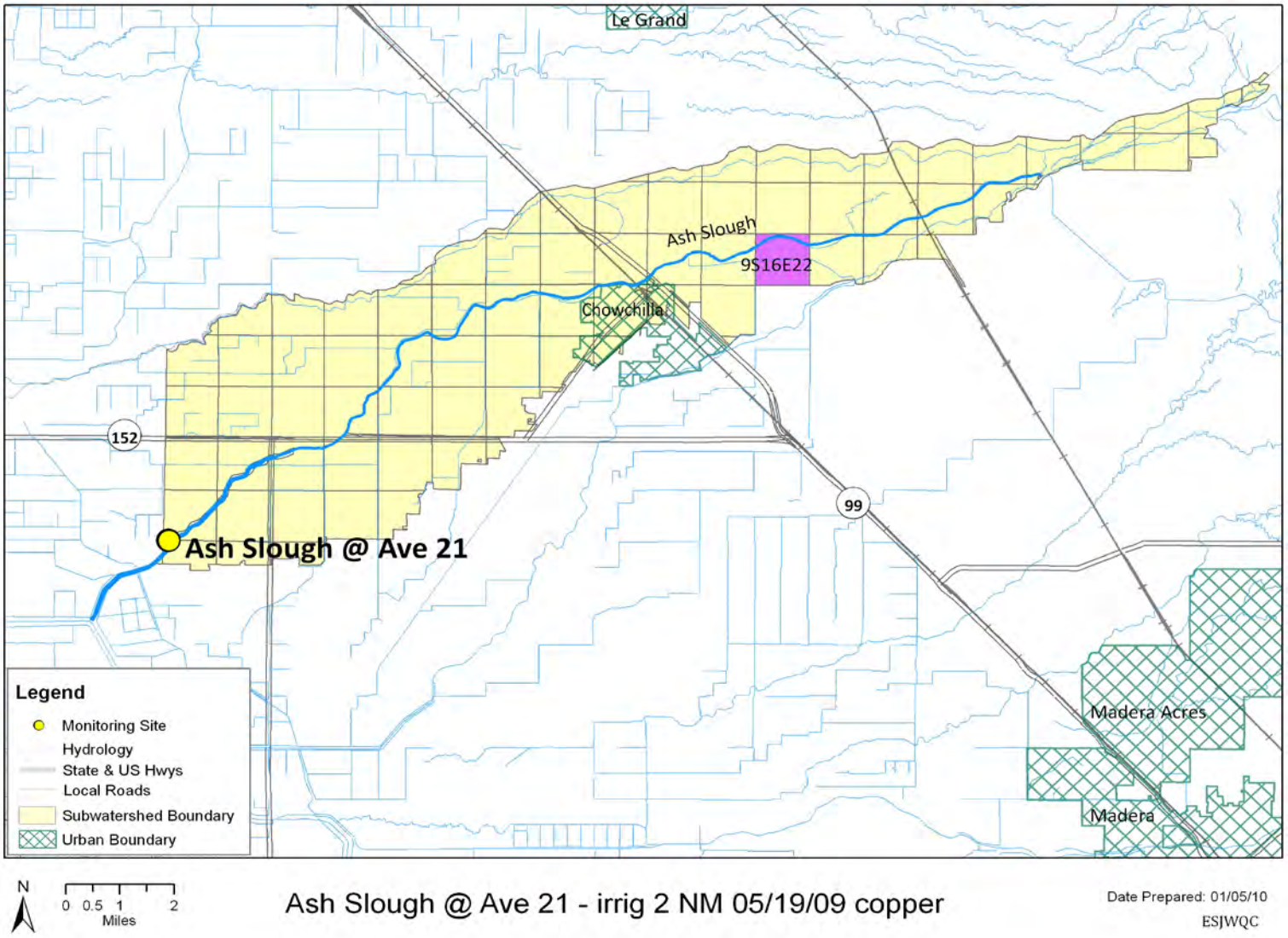
Ash Slough @ Ave 21

Pesticide Use Reports for metal exceedance in the water column

Table 1. Irrigation 2 (5/19/09) – copper exceedance

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	1/27/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	58.75	GA	60	9S16E22	FUNGICIDE, ALGAECIDE
ALMOND	1/27/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	19.58	GA	20	9S16E22	FUNGICIDE, ALGAECIDE
ALMOND	1/29/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	93.02	GA	95	9S16E22	FUNGICIDE, ALGAECIDE

Figure 1. Location of copper use for Ash Slough @ Ave 21-Irrigation 2, NM.



Adminsitrative Record
Page 17238

Deadman Creek @ Gurr Road

Pesticide Use Reports for water column toxicity.

Table 2. Winter 1 (1/20/09) - *Pimephales promelas* toxicity.

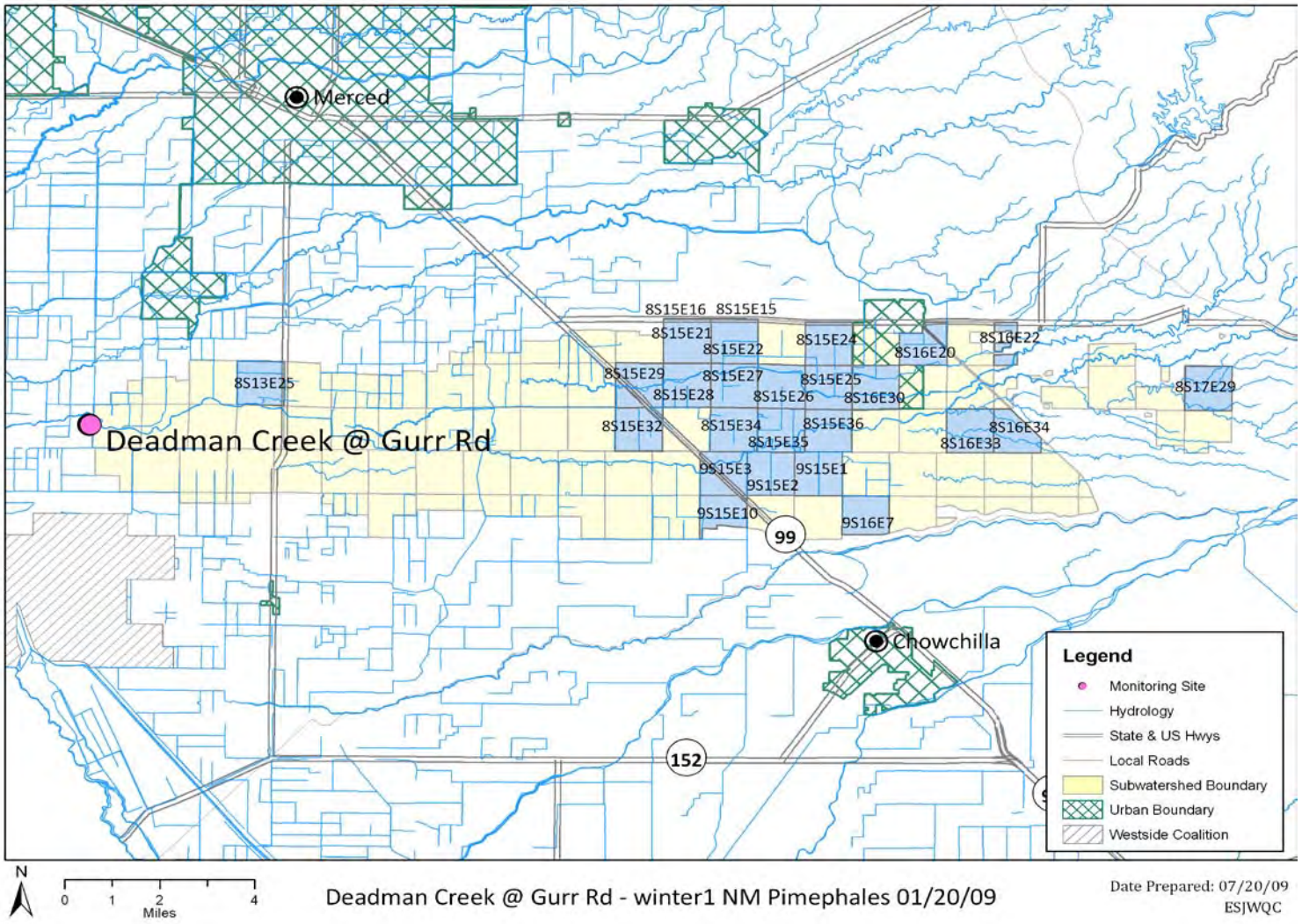
Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
CORN FOR/FOD	8/13/2008	BIFENTURE	BIFENTHRIN	A	0.23	GA	5	9S13E14	INSECTICIDE, MITICIDE
CORN FOR/FOD	8/13/2008	BIFENTURE	BIFENTHRIN	A	0.92	GA	20	9S13E14	INSECTICIDE, MITICIDE
CORN FOR/FOD	8/13/2008	BIFENTURE	BIFENTHRIN	A	1.84	GA	40	9S13E14	INSECTICIDE, MITICIDE
PISTACHIO	8/24/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	8	GA	80	9S15E15	INSECTICIDE, MITICIDE
PISTACHIO	8/26/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	14.9	GA	149	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	8/26/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	16.5	GA	165	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	8/26/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	4	GA	40	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	8/27/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	5.6	GA	56	9S15E15	INSECTICIDE, MITICIDE
PISTACHIO	8/27/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	4	GA	40	9S15E15	INSECTICIDE, MITICIDE
PISTACHIO	9/1/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	8.7	GA	87	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	9/1/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	8	GA	80	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	9/1/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	5	GA	50	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	9/13/2008	PERMETHRIN 3.2 EC INSECTICIDE	PERMETHRIN	A	8	GA	80	9S15E15	INSECTICIDE, MITICIDE
PISTACHIO	9/13/2008	PERM-UP 3.2 EC INSECTICIDE	PERMETHRIN	A	14.11	GA	112.9	9S15E16	INSECTICIDE, MITICIDE

Adminsitrative Record
Page 17239

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	11/28/2008	CAPTURE 2 EC-CAL	BIFENTHRIN	G	16	OZ	2.5	9S15E20	INSECTICIDE, MITICIDE
ALMOND	11/28/2008	CAPTURE 2 EC-CAL	BIFENTHRIN	G	19.2	OZ	3	9S15E20	INSECTICIDE, MITICIDE
ALMOND	1/16/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	2.8	OZ	29.6	9S15E21	INSECTICIDE
ALMOND	1/16/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	2.8	OZ	5.4	9S15E21	INSECTICIDE
ALMOND	1/16/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	2.8	OZ	24.4	9S15E21	INSECTICIDE
ALFALFA	1/20/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	18.75	GA	75	9S13E15	HERBICIDE

Adminsitrative Record
Page 17240

Figure 2. Location of pesticide use associate with *Pimephales promelas* toxicity for Deadman Creek @ Gurr Rd - Winter 1, NM.



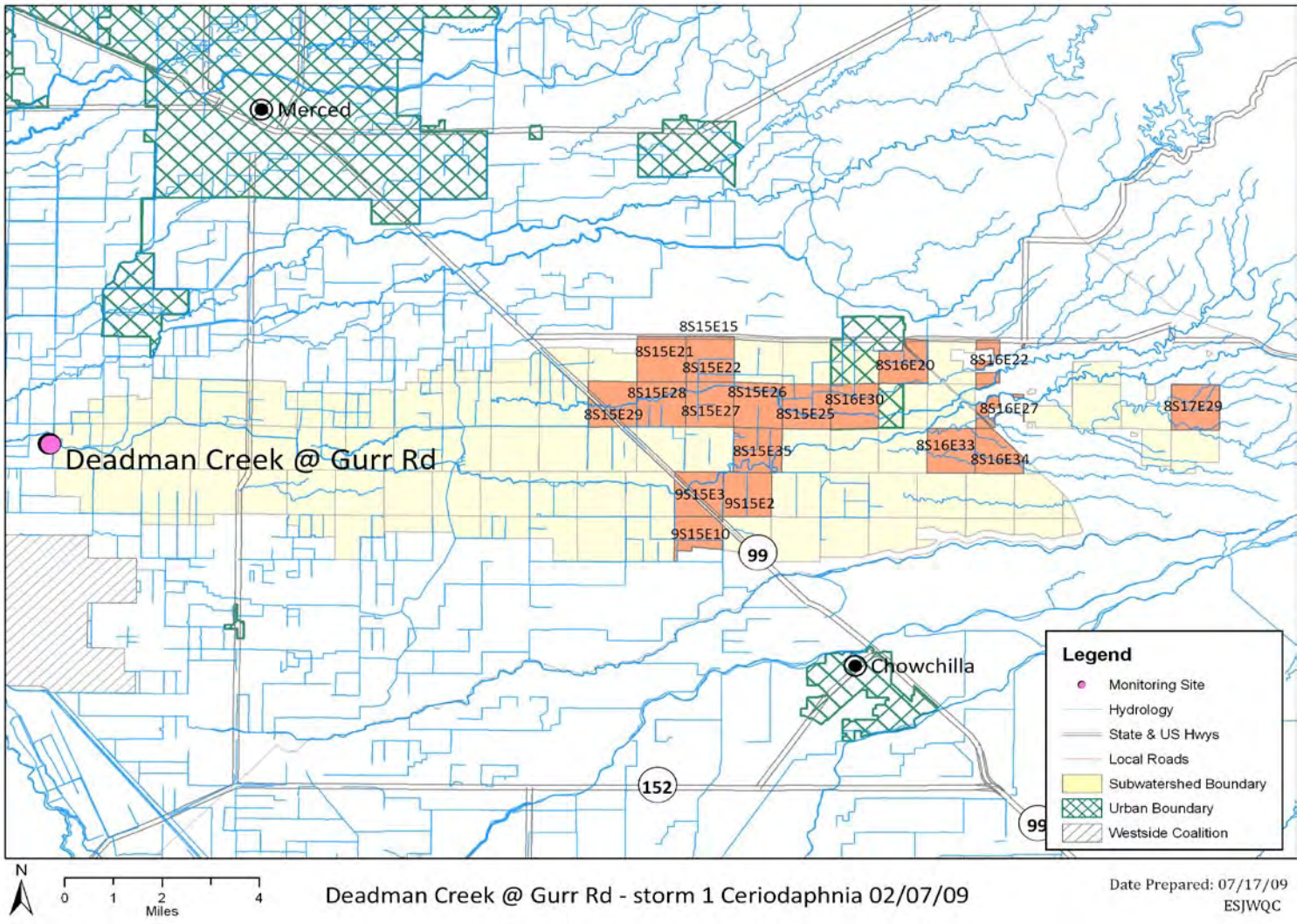
Adminsitrative Record
Page 17241

Table 3. Storm 1 (2/7/09) – *Ceriodaphnia dubia* toxicity.

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
PISTACHIO	8/24/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	8	GA	80	9S15E15	INSECTICIDE, MITICIDE
PISTACHIO	8/26/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	14.9	GA	149	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	8/26/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	16.5	GA	165	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	8/26/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	4	GA	40	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	8/27/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	4	GA	40	9S15E15	INSECTICIDE, MITICIDE
PISTACHIO	8/27/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	5.6	GA	56	9S15E15	INSECTICIDE, MITICIDE
PISTACHIO	9/1/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	8.7	GA	87	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	9/1/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	5	GA	50	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	9/1/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	8	GA	80	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	9/13/2008	PERMETHRIN 3.2 EC INSECTICIDE	PERMETHRIN	A	8	GA	80	9S15E15	INSECTICIDE, MITICIDE
PISTACHIO	9/13/2008	PERM-UP 3.2 EC INSECTICIDE	PERMETHRIN	A	14.11	GA	112.9	9S15E16	INSECTICIDE, MITICIDE
ALMOND	11/28/2008	CAPTURE 2 EC-CAL	BIFENTHRIN	G	16	OZ	2.5	9S15E20	INSECTICIDE, MITICIDE
ALMOND	11/28/2008	CAPTURE 2 EC-CAL	BIFENTHRIN	G	19.2	OZ	3	9S15E20	INSECTICIDE, MITICIDE
ALMOND	1/16/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	4.5	LB	29.6	9S15E21	FUNGICIDE, ALGAECIDE
ALMOND	1/16/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	4.5	LB	5.4	9S15E21	FUNGICIDE, ALGAECIDE
ALMOND	1/16/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	4.5	LB	24.4	9S15E21	FUNGICIDE, ALGAECIDE
ALMOND	1/17/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	390	LB	75	9S14E14	FUNGICIDE, ALGAECIDE
ALFALFA	1/20/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	18.75	GA	75	9S13E15	HERBICIDE

Adminsitrative Record
Page 17242

Figure 3. Location of pesticide use associated with *Ceriodaphnia dubia* toxicity for Deadman Creek @ Gurr Rd - Storm 1, MPM.



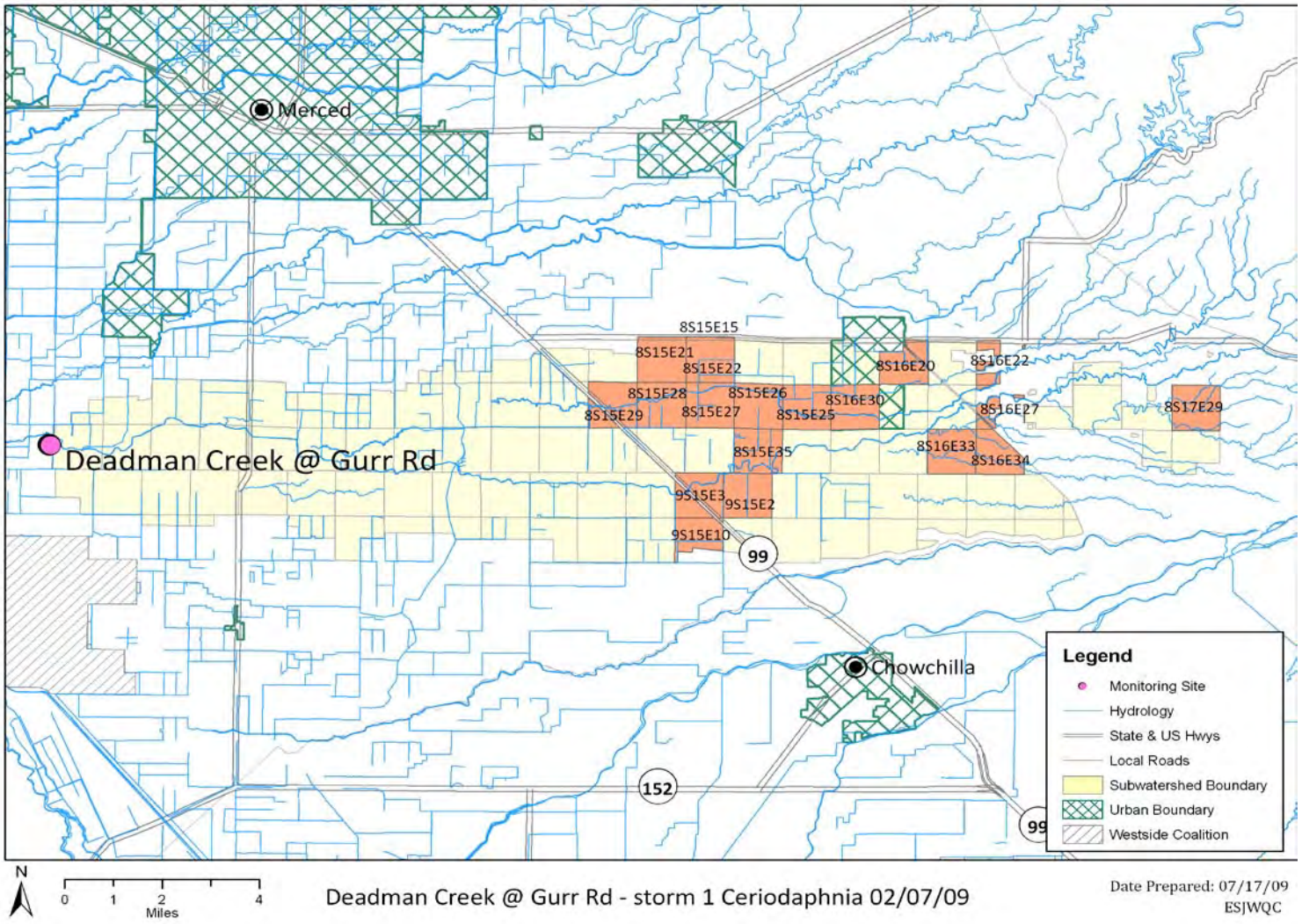
Adminsitrative Record
Page 17243

Table 4. Storm 1 (2/7/09) – *Pimephales promelas* toxicity.

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
PISTACHIO	8/24/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	8	GA	80	9S15E15	INSECTICIDE, MITICIDE
PISTACHIO	8/26/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	14.9	GA	149	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	8/26/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	16.5	GA	165	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	8/26/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	4	GA	40	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	8/27/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	5.6	GA	56	9S15E15	INSECTICIDE, MITICIDE
PISTACHIO	8/27/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	4	GA	40	9S15E15	INSECTICIDE, MITICIDE
PISTACHIO	9/1/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	8.7	GA	87	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	9/1/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	8	GA	80	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	9/1/2008	PERMETHRIN 3.2 AG	PERMETHRIN	G	5	GA	50	9S15E16	INSECTICIDE, MITICIDE
PISTACHIO	9/13/2008	PERMETHRIN 3.2 EC INSECTICIDE	PERMETHRIN	A	8	GA	80	9S15E15	INSECTICIDE, MITICIDE
PISTACHIO	9/13/2008	PERM-UP 3.2 EC INSECTICIDE	PERMETHRIN	A	14.11	GA	112.9	9S15E16	INSECTICIDE, MITICIDE
ALMOND	11/28/2008	CAPTURE 2 EC-CAL	BIFENTHRIN	G	16	OZ	2.5	9S15E20	INSECTICIDE, MITICIDE
ALMOND	11/28/2008	CAPTURE 2 EC-CAL	BIFENTHRIN	G	19.2	OZ	3	9S15E20	INSECTICIDE, MITICIDE
ALMOND	1/16/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	2.8	OZ	29.6	9S15E21	INSECTICIDE
ALMOND	1/16/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	2.8	OZ	5.4	9S15E21	INSECTICIDE
ALMOND	1/16/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	2.8	OZ	24.4	9S15E21	INSECTICIDE
ALFALFA	1/20/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	18.75	GA	75	9S13E15	HERBICIDE

Adminsitrative Record
Page 17244

Figure 4. Location of pesticide use associated with *Pimephales promelas* toxicity for Deadman Creek @ Gurr Rd - Storm 1, MPM.



Adminsitrative Record
Page 17245

Table 5. Storm 1 (2/7/09) – *Selenastrum capricornutum* toxicity.

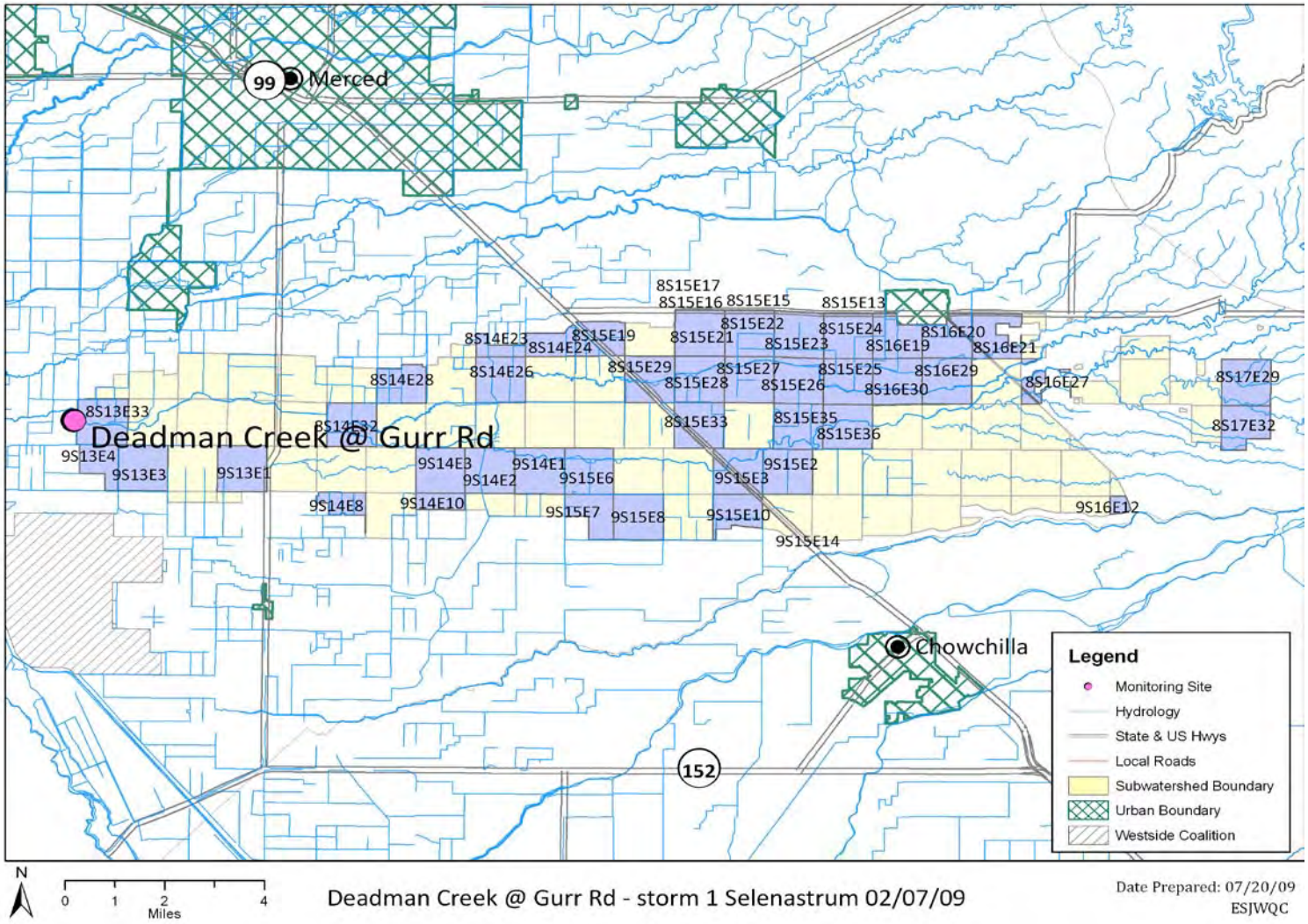
Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	1/16/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	4.5	LB	29.6	9S15E21	FUNGICIDE, ALGAECIDE
ALMOND	1/16/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	4.5	LB	5.4	9S15E21	FUNGICIDE, ALGAECIDE
ALMOND	1/16/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	4.5	LB	24.4	9S15E21	FUNGICIDE, ALGAECIDE
ALMOND	1/17/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	390	LB	75	9S14E14	FUNGICIDE, ALGAECIDE
ALFALFA	1/20/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	18.75	GA	75	9S13E15	HERBICIDE
WHEAT FOR/FOD	1/20/2009	RIVERDALE MCPA-4 AMINE	MCPA, DIMETHYLAMINE SALT	A	8.43	GA	78	9S14E22	HERBICIDE
WHEAT FOR/FOD	1/20/2009	RIVERDALE MCPA-4 AMINE	MCPA, DIMETHYLAMINE SALT	A	7.89	GA	73	9S14E22	HERBICIDE
WHEAT FOR/FOD	1/20/2009	RIVERDALE MCPA-4 AMINE	MCPA, DIMETHYLAMINE SALT	A	8.21	GA	76	9S14E23	HERBICIDE
WHEAT FOR/FOD	1/20/2009	RIVERDALE MCPA-4 AMINE	MCPA, DIMETHYLAMINE SALT	A	8	GA	74	9S14E23	HERBICIDE
WHEAT	1/26/2009	BANVEL	DICAMBA, DIMETHYLAMINE SALT	A	1.76	GA	56.3	8S13E29	HERBICIDE
WHEAT	1/26/2009	BANVEL	DICAMBA, DIMETHYLAMINE SALT	A	1.52	GA	48.7	8S13E29	HERBICIDE
WHEAT	1/26/2009	BANVEL	DICAMBA, DIMETHYLAMINE SALT	G	1.1	GA	35.2	8S13E29	HERBICIDE
WHEAT	1/26/2009	RIVERDALE MCPA-4 AMINE	MCPA, DIMETHYLAMINE SALT	A	5.28	GA	56.3	8S13E29	HERBICIDE
WHEAT	1/26/2009	RIVERDALE MCPA-4 AMINE	MCPA, DIMETHYLAMINE SALT	A	4.57	GA	48.7	8S13E29	HERBICIDE
WHEAT	1/26/2009	RIVERDALE MCPA-4 AMINE	MCPA, DIMETHYLAMINE SALT	G	3.3	GA	35.2	8S13E29	HERBICIDE
WHEAT FOR/FOD	1/27/2009	RIVERDALE MCPA-4 AMINE	MCPA, DIMETHYLAMINE SALT	A	5.1	GA	49	9S14E14	HERBICIDE
WHEAT FOR/FOD	1/27/2009	RIVERDALE MCPA-4 AMINE	MCPA, DIMETHYLAMINE SALT	A	8.21	GA	76	9S14E22	HERBICIDE
WHEAT FOR/FOD	1/27/2009	RIVERDALE MCPA-4 AMINE	MCPA, DIMETHYLAMINE SALT	A	8.21	GA	76	9S14E23	HERBICIDE
WHEAT FOR/FOD	1/27/2009	RIVERDALE MCPA-4 AMINE	MCPA, DIMETHYLAMINE SALT	A	17.58	GA	145	9S15E17	HERBICIDE

Adminsitrative Record
Page 17246

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
N-OUTDOOR PLANT	1/29/2009	BUCCANEER GLYPHOSATE HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	A	15	GA	60	9S15E21	HERBICIDE
PISTACHIO	1/30/2009	BUCCANEER GLYPHOSATE HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	5	GA	26.67	9S15E16	HERBICIDE
PISTACHIO	1/30/2009	BUCCANEER GLYPHOSATE HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	5.44	GA	29	9S15E16	HERBICIDE
PISTACHIO	1/31/2009	BUCCANEER GLYPHOSATE HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	3.13	GA	16.67	9S15E16	HERBICIDE
ALFALFA	2/2/2009	BUCTRIL HERBICIDE	BROMOXYNIL OCTANOATE	G	192	OZ	58	9S13E14	HERBICIDE
ALFALFA	2/2/2009	ARROW 2 EC HERBICIDE	CLETHODIM	G	108	OZ	58	9S13E14	HERBICIDE
ALFALFA	2/3/2009	BUTYRAC 200	4-(2,4-DB), DIMETHYLAMINE SALT	G	16	PT	8	9S13E15	HERBICIDE
ALFALFA	2/3/2009	BUTYRAC 200	4-(2,4-DB), DIMETHYLAMINE SALT	G	16	PT	8	9S13E15	HERBICIDE
ALFALFA	2/3/2009	BUTYRAC 200	4-(2,4-DB), DIMETHYLAMINE SALT	G	16	PT	8	9S13E15	HERBICIDE
ALFALFA	2/3/2009	ARROW 2 EC HERBICIDE	CLETHODIM	G	72	OZ	8	9S13E15	HERBICIDE
ALFALFA	2/3/2009	ARROW 2 EC HERBICIDE	CLETHODIM	G	72	OZ	8	9S13E15	HERBICIDE
ALFALFA	2/3/2009	ARROW 2 EC HERBICIDE	CLETHODIM	G	72	OZ	8	9S13E15	HERBICIDE
ALFALFA	2/3/2009	BUTYRAC 200	4-(2,4-DB), DIMETHYLAMINE SALT	G	16	PT	8	9S13E24	HERBICIDE
ALFALFA	2/3/2009	ARROW 2 EC HERBICIDE	CLETHODIM	G	72	OZ	8	9S13E24	HERBICIDE
ALFALFA	2/6/2009	DU PONT VELPAR L HERBICIDE	HEXAZINONE	G	30	PT	30	9S14E22	HERBICIDE
ALFALFA	2/7/2009	DUPONT KARMEX XP HERBICIDE	DIURON	G	76	LB	38	9S14E24	HERBICIDE
ALFALFA	2/7/2009	DU PONT VELPAR L HERBICIDE	HEXAZINONE	G	38	PT	38	9S14E24	HERBICIDE

Adminsitrative Record
Page 17247

Figure 5. Location of pesticide use associated with *Selenastrum capricornutum* toxicity for Deadman Creek @ Gurr Rd – Storm 1, MPM.



Adminsitrative Record
Page 17248

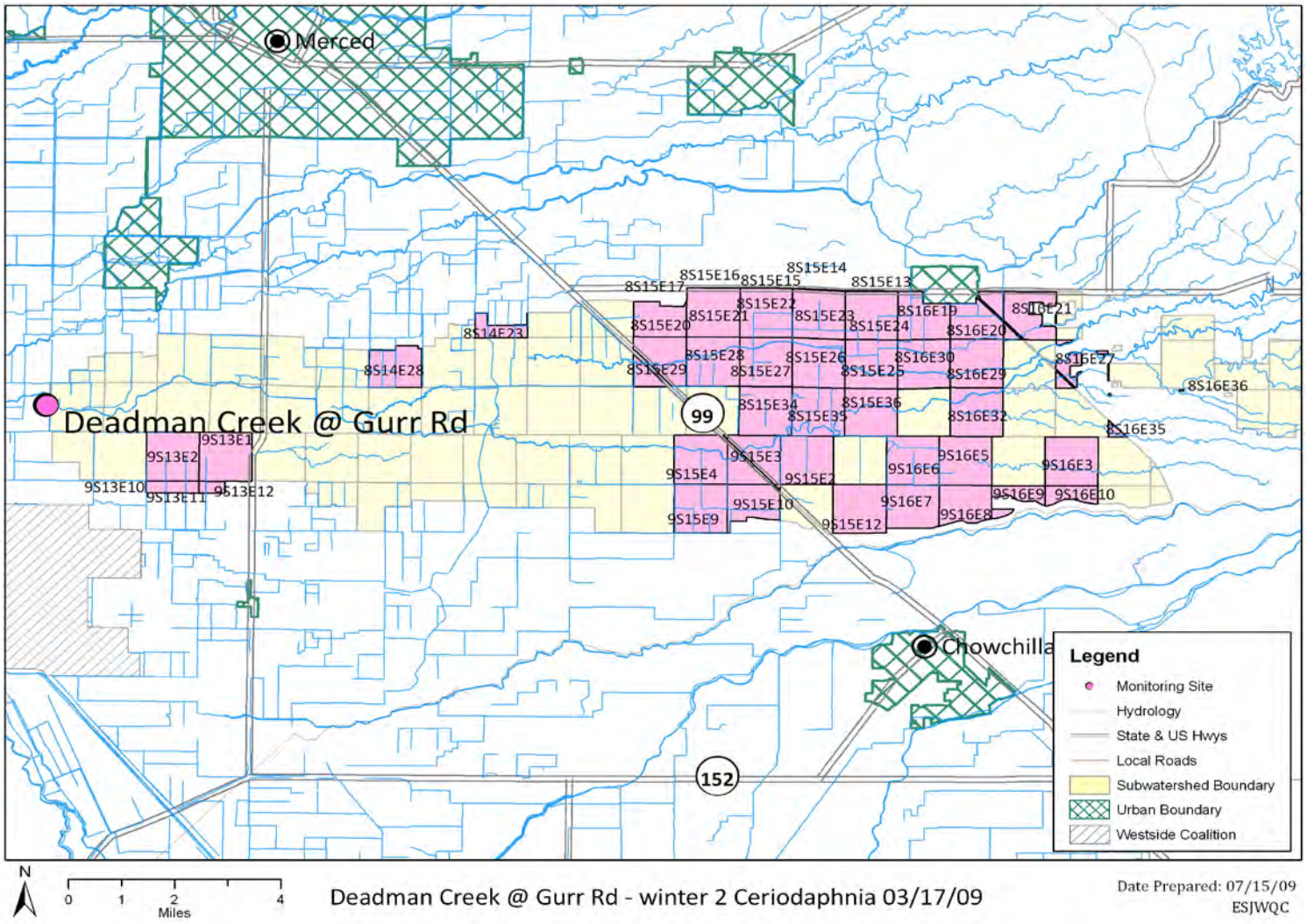
Table 6. Winter 2 (03/17/09) – *Ceriodaphnia dubia* toxicity.

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	11/28/2008	CAPTURE 2 EC-CAL	BIFENTHRIN	G	16	OZ	2.5	9S15E20	INSECTICIDE, MITICIDE
ALMOND	11/28/2008	CAPTURE 2 EC-CAL	BIFENTHRIN	G	19.2	OZ	3	9S15E20	INSECTICIDE, MITICIDE
ALMOND	1/16/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	4.5	LB	29.6	9S15E21	FUNGICIDE, ALGAECIDE
ALMOND	1/16/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	4.5	LB	5.4	9S15E21	FUNGICIDE, ALGAECIDE
ALMOND	1/16/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	4.5	LB	24.4	9S15E21	FUNGICIDE, ALGAECIDE
ALMOND	1/17/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	390	LB	75	9S14E14	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	VANGARD WG	CYPRODINIL	A	7.73	LB	25	9S14E22	FUNGICIDE
ALMOND	2/24/2009	VANGARD WG	CYPRODINIL	A	15.16	LB	49	9S14E22	FUNGICIDE
ALMOND	2/24/2009	DIMILIN 2L	DIFLUBENZURON	A	1.65	GA	25	9S14E22	INSECTICIDE, ALGAECIDE
ALMOND	2/24/2009	DIMILIN 2L	DIFLUBENZURON	A	3.23	GA	49	9S14E22	INSECTICIDE, ALGAECIDE
ALMOND	2/27/2009	ROVRAL BRAND 4 FLOWABLE FUNGICIDE	IPRODIONE	G	0.68	GA	5.4	9S15E21	FUNGICIDE
ALMOND	2/27/2009	ROVRAL BRAND 4 FLOWABLE FUNGICIDE	IPRODIONE	G	3.05	GA	24.4	9S15E21	FUNGICIDE
ALMOND	2/27/2009	ROVRAL BRAND 4 FLOWABLE FUNGICIDE	IPRODIONE	G	3.7	GA	29.6	9S15E21	FUNGICIDE
ALMOND	2/28/2009	VANGARD WG	CYPRODINIL	G	375	OZ	75	9S14E14	FUNGICIDE
ALMOND	3/1/2009	VANGARD WG	CYPRODINIL	G	155	OZ	31	9S15E20	FUNGICIDE
ALMOND	3/1/2009	VANGARD WG	CYPRODINIL	G	265	OZ	53	9S15E20	FUNGICIDE
ALMOND	3/1/2009	VANGARD WG	CYPRODINIL	G	310	OZ	62	9S15E20	FUNGICIDE
ALMOND	3/10/2009	ROVRAL BRAND 4 FLOWABLE FUNGICIDE	IPRODIONE	G	31	PT	31	9S15E20	FUNGICIDE
ALMOND	3/10/2009	ROVRAL BRAND 4 FLOWABLE FUNGICIDE	IPRODIONE	G	53	PT	53	9S15E20	FUNGICIDE
ALMOND	3/10/2009	ROVRAL BRAND 4 FLOWABLE FUNGICIDE	IPRODIONE	G	62	PT	62	9S15E20	FUNGICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	3/12/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	12.2	GA	49	9S14E22	HERBICIDE
ALFALFA	3/16/2009	MALATHION 8EC	MALATHION	A	4.69	GA	37.53	9S14E16	INSECTICIDE, MITICIDE
ALFALFA	3/16/2009	MALATHION 8EC	MALATHION	A	8.29	GA	66.32	9S14E16	INSECTICIDE, MITICIDE
ALFALFA	3/16/2009	MALATHION 8EC	MALATHION	A	4.97	GA	39.73	9S14E17	INSECTICIDE, MITICIDE
ALFALFA	3/16/2009	MALATHION 8EC	MALATHION	A	9.4	GA	75.23	9S14E18	INSECTICIDE, MITICIDE
ALFALFA	3/16/2009	MALATHION 8EC	MALATHION	G	7.3	GA	58.39	9S14E20	INSECTICIDE, MITICIDE
ALFALFA	3/16/2009	MALATHION 8EC	MALATHION	A	4.63	GA	37	9S14E21	INSECTICIDE, MITICIDE
ALFALFA	3/16/2009	MALATHION 8EC	MALATHION	A	9.64	GA	77.15	9S14E21	INSECTICIDE, MITICIDE
ALMOND	3/16/2009	VANGARD WG	CYPRODINIL	G	1.69	LB	5.4	9S15E21	FUNGICIDE
ALMOND	3/16/2009	VANGARD WG	CYPRODINIL	G	7.62	LB	24.4	9S15E21	FUNGICIDE
ALMOND	3/16/2009	VANGARD WG	CYPRODINIL	G	9.25	LB	29.6	9S15E21	FUNGICIDE
ALMOND	3/16/2009	ZIRAM 76 DF	ZIRAM	G	43.2	LB	5.4	9S15E21	FUNGICIDE
ALMOND	3/16/2009	ZIRAM 76 DF	ZIRAM	G	195.2	LB	24.4	9S15E21	FUNGICIDE
ALMOND	3/16/2009	ZIRAM 76 DF	ZIRAM	G	236.8	LB	29.6	9S15E21	FUNGICIDE

Adminsitrative Record
Page 17250

Figure 6. Location of pesticide use associated with *Ceriodaphnia dubia* toxicity for Deadman Creek @ Gurr Rd – Winter 2, MPM.



Adminsitrative Record
Page 17251

Storm 2 (12/15/09) – *Pimephales promelas* toxicity.

No PUR data is currently available for this exceedance. An amended report will be sent as an addendum to the AMR on June 30, 2010 when information concerning this exceedance is made available for review.

Adminsitrative Record
Page 17252

Dry Creek @ Wellsford Rd

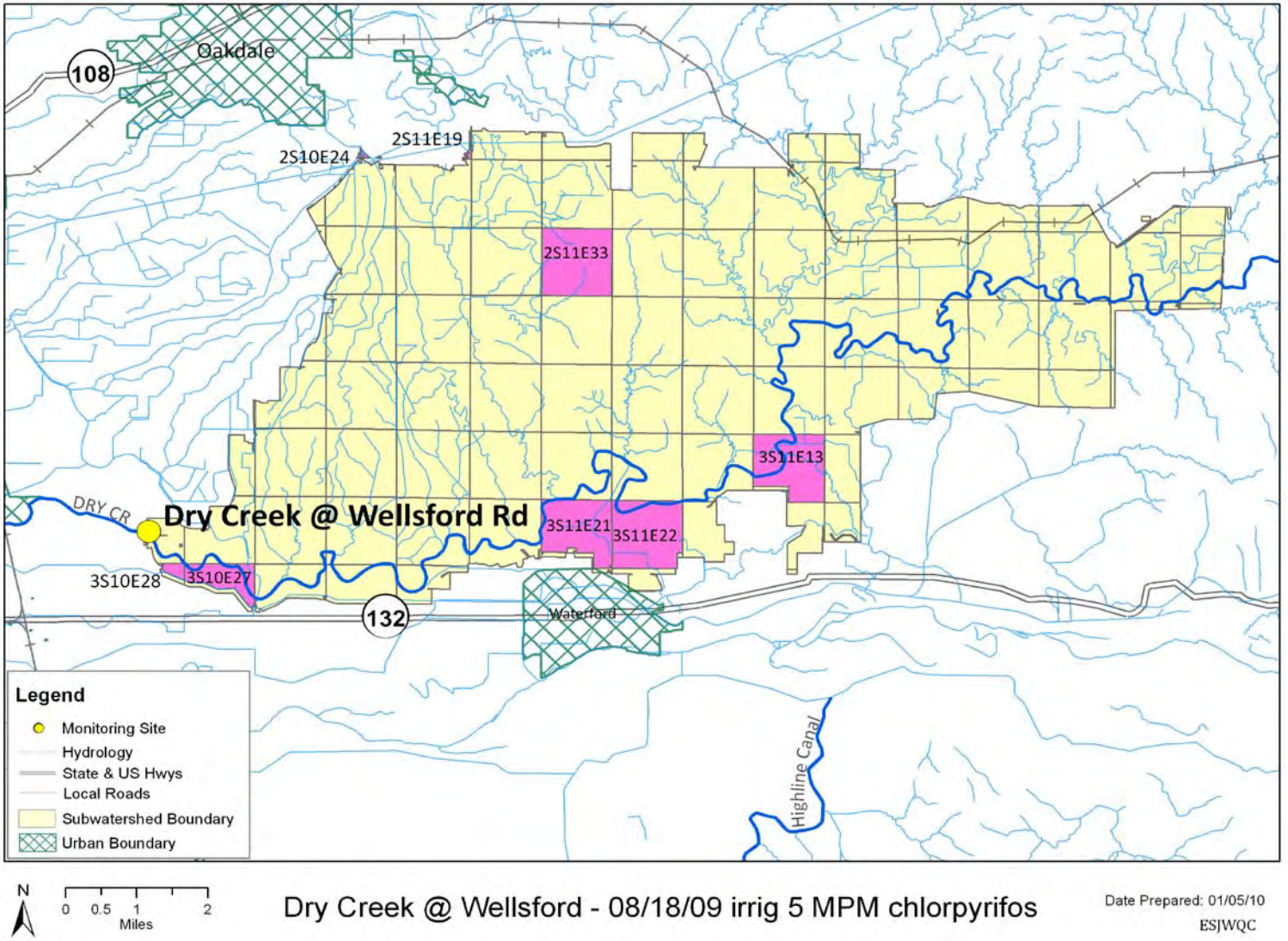
Pesticide Use Reports for pesticide exceedance in the water column.

Table 7. Irrigation 5 (8/18/09) – chlorpyrifos exceedance.

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	7/22/2009	NUFOS 4E	CHLORPYRIFOS	G	8.5	GA	17	3S11E21	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/22/2009	NUFOS 4E	CHLORPYRIFOS	G	5	GA	10	3S11E21	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/27/2009	LORSBAN-4E	CHLORPYRIFOS	G	7	GA	14	2S11E19	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/27/2009	LORSBAN 4E-HF	CHLORPYRIFOS	G	1	QT	0.75	3S10E27	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/28/2009	LORSBAN 4E-HF	CHLORPYRIFOS	G	7.5	GA	20	2S10E24	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/28/2009	LORSBAN 4E-HF	CHLORPYRIFOS	G	7	GA	14	2S11E19	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/31/2009	LORSBAN-4E	CHLORPYRIFOS	G	32	PT	8	3S11E22	INSECTICIDE, FUNGICIDE, MITICIDE
CORN FOR/FOD	8/3/2009	WARHAWK	CHLORPYRIFOS	A	37.35	PT	45	3S11E13	INSECTICIDE, FUNGICIDE, MITICIDE
CORN FOR/FOD	8/3/2009	WARHAWK	CHLORPYRIFOS	A	62.25	PT	75	3S11E13	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	8/3/2009	LORSBAN 4E-HF	CHLORPYRIFOS	G	10	PT	5	3S11E21	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	8/7/2009	LORSBAN ADVANCED	CHLORPYRIFOS	G	100	PT	25	3S10E28	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	8/13/2009	LORSBAN 4E-HF	CHLORPYRIFOS	G	1	QT	0.75	3S10E27	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	8/18/2009	LORSBAN ADVANCED	CHLORPYRIFOS	G	29	GA	58	2S11E33	INSECTICIDE, FUNGICIDE, MITICIDE

Adminsitrative Record
Page 17253

Figure 7. Location of chlorpyrifos use for Dry Creek @ Wellsford Rd – Irrigation 5, MPM.



Adminsitrative Record
Page 17254

Duck Slough @ Gurr Rd

Pesticide Use Reports for metal exceedance in the water column.

Table 8. Irrigation 2 (5/19/09) – copper exceedance.

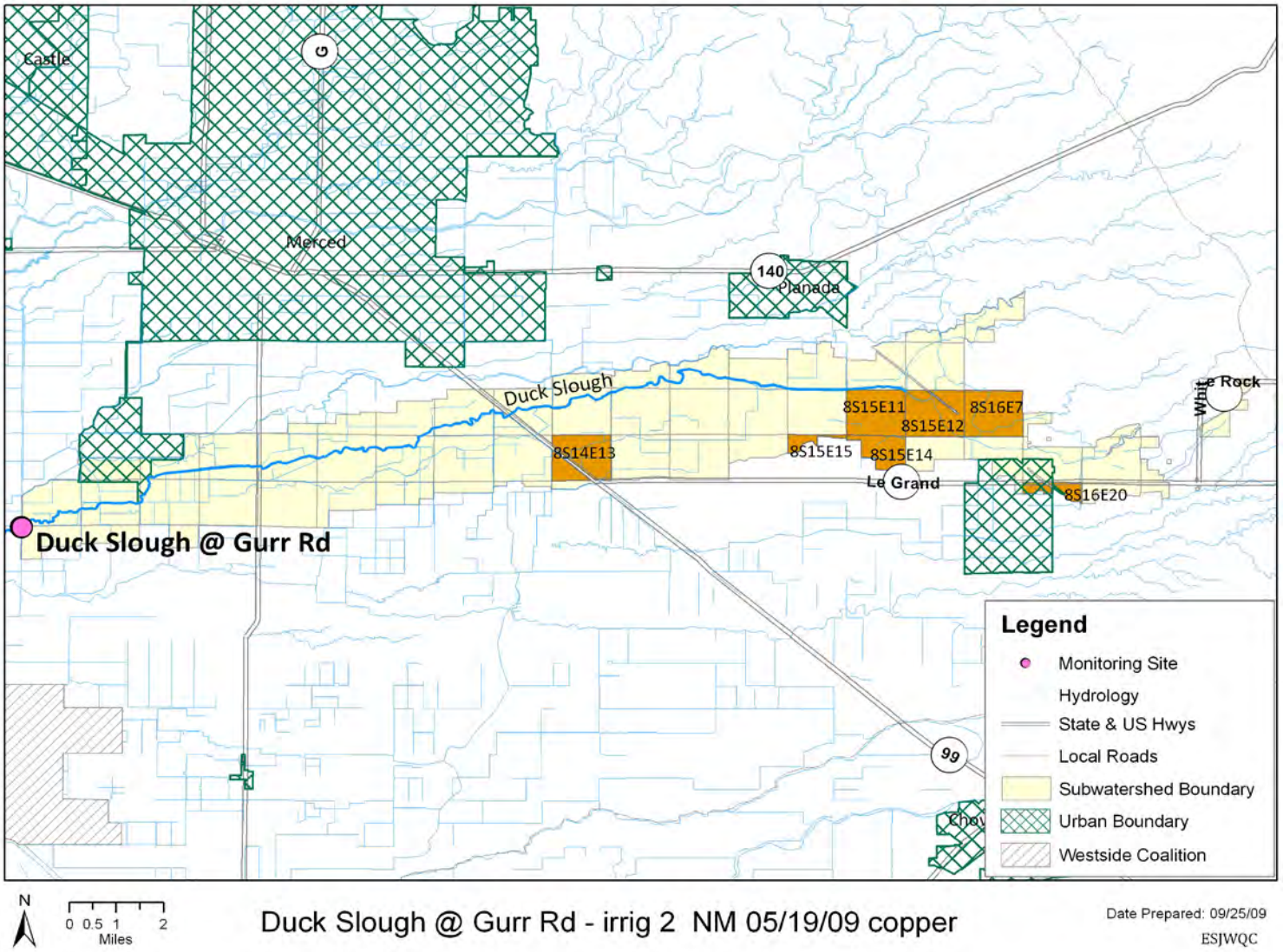
Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
WALNUT	4/4/2009	DUPONT GX-569 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	72	LB	18	8S15E12	FUNGICIDE, ALGAECIDE
WALNUT	4/4/2009	DUPONT GX-569 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	50	LB	12.5	8S15E15	FUNGICIDE, ALGAECIDE
WALNUT	4/6/2009	DUPONT GX-569 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	120	LB	30	8S15E12	FUNGICIDE, ALGAECIDE
WALNUT	4/7/2009	DUPONT GX-569 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	40	LB	10	8S15E15	FUNGICIDE, ALGAECIDE
TOMATO PROCESSING	4/25/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	26.25	LB	15	8S15E14	FUNGICIDE, ALGAECIDE
WALNUT	4/30/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	90	LB	18	8S14E13	FUNGICIDE, ALGAECIDE
WALNUT	4/30/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	A	256	LB	32	8S15E11	FUNGICIDE, ALGAECIDE
WALNUT	4/30/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	A	232	LB	58	8S15E12	FUNGICIDE, ALGAECIDE
WALNUT	4/30/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	A	144	LB	36	8S15E12	FUNGICIDE, ALGAECIDE
WALNUT	4/30/2009	DUPONT GX-569 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	100	LB	25	8S15E15	FUNGICIDE, ALGAECIDE
WALNUT	4/30/2009	DUPONT GX-569 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	80	LB	20	8S15E15	FUNGICIDE, ALGAECIDE
TOMATO	4/30/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	40	LB	20	8S16E20	FUNGICIDE, ALGAECIDE
TOMATO	5/1/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	54.25	LB	31	8S14E13	FUNGICIDE, ALGAECIDE
WALNUT	5/4/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	122.5	LB	35	8S15E12	FUNGICIDE, ALGAECIDE
WALNUT	5/4/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	122.5	LB	35	8S15E12	FUNGICIDE, ALGAECIDE

Adminsitrative Record
Page 17255

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
WALNUT	5/5/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	270	LB	45	8S16E7	FUNGICIDE, ALGAECIDE
TOMATO PROCESSING	5/7/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	17	LB	9.5	8S15E14	FUNGICIDE, ALGAECIDE
TOMATO PROCESSING	5/8/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	26.25	LB	15	8S15E14	FUNGICIDE, ALGAECIDE

Adminsitrative Record
Page 17256

Figure 8. Location of copper use for Duck Slough @ Gurr Rd– Irrigation 2, NM.



Adminsitrative Record
Page 17257

Highline Canal @ Hwy 99 (Merced and Stanislaus Counties)

Pesticide Use Reports for pesticide exceedance in the water column.

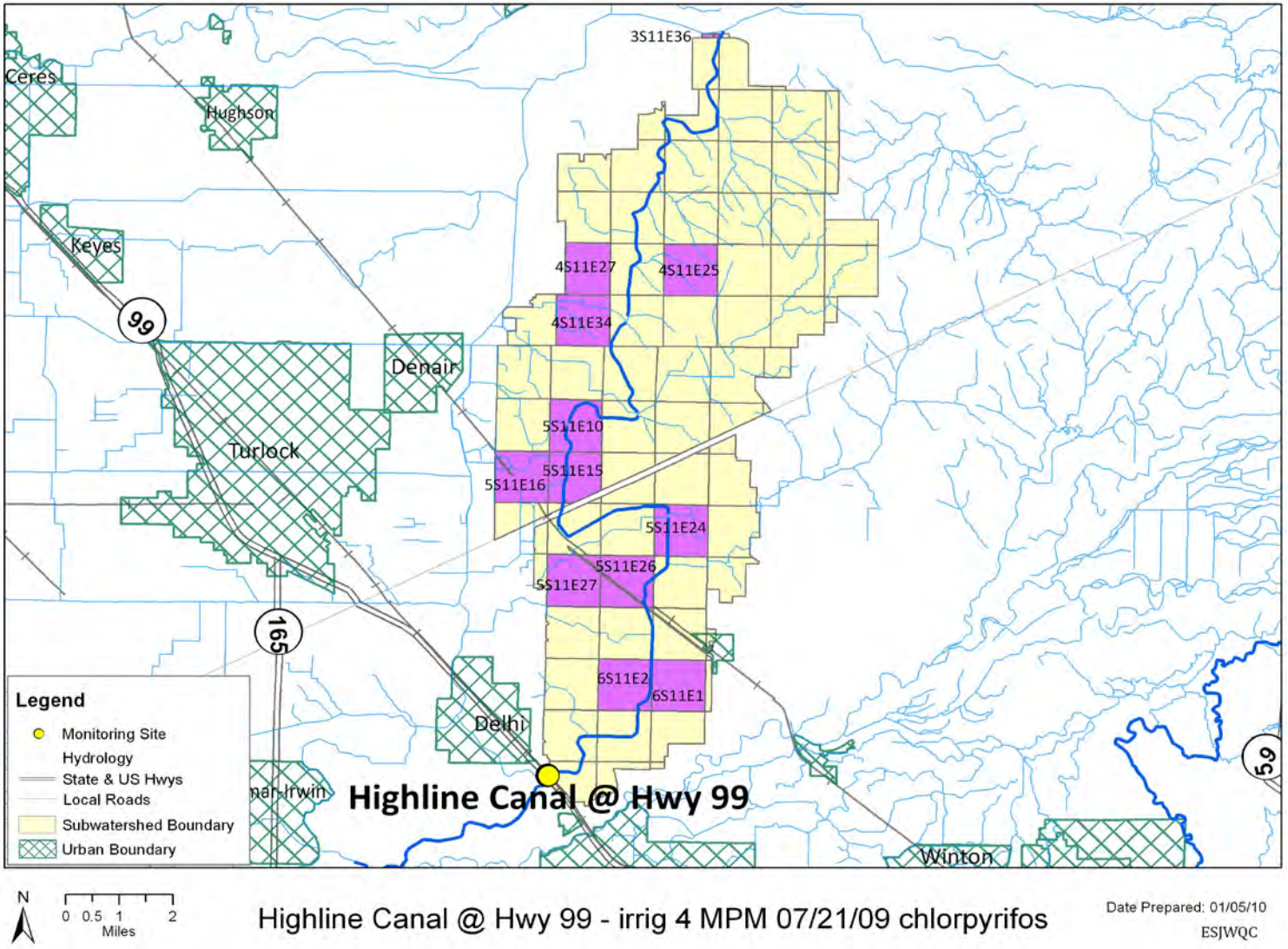
Table 9. Irrigation 4 (7/21/09) – chlorpyrifos exceedance.

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
WALNUT	6/23/2009	NUFOS 4E	CHLORPYRIFOS	G	200	PT	50	4S11E25	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	6/25/2009	LORSBAN-4E	CHLORPYRIFOS	G	640	OZ	15	6S11E2	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/3/2009	NUFOS 4E	CHLORPYRIFOS	G	16	GA	32	3S11E36	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/3/2009	NUFOS 4E	CHLORPYRIFOS	G	8	GA	16	3S11E36	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/5/2009	LORSBAN-4E	CHLORPYRIFOS	G	40	QT	20	3S11E36	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/5/2009	LORSBAN-4E	CHLORPYRIFOS	G	50	QT	25	3S11E36	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/5/2009	LORSBAN-4E	CHLORPYRIFOS	G	112	QT	56	3S11E36	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/6/2009	NUFOS 4E	CHLORPYRIFOS	G	15	GA	30	3S11E36	INSECTICIDE, FUNGICIDE, MITICIDE
CORN FOR/FOD	7/9/2009	WARHAWK	CHLORPYRIFOS	G	57.5	GA	230	5S11E16	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/10/2009	GOVERN 4E INSECTICIDE	CHLORPYRIFOS	G	60	PT	50	5S11E26	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/13/2009	NUFOS 4E	CHLORPYRIFOS	G	148	QT	74	5S11E24	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/13/2009	NUFOS 4E	CHLORPYRIFOS	G	5	QT	5	5S11E27	INSECTICIDE, FUNGICIDE, MITICIDE
CORN FOR/FOD	7/15/2009	LORSBAN-4E	CHLORPYRIFOS	G	5.75	GA	46	5S11E10	INSECTICIDE, FUNGICIDE, MITICIDE
CORN FOR/FOD	7/15/2009	LORSBAN-4E	CHLORPYRIFOS	G	8.75	GA	70	5S11E15	INSECTICIDE, FUNGICIDE, MITICIDE
CORN FOR/FOD	7/15/2009	LORSBAN-4E	CHLORPYRIFOS	G	3.88	GA	31	5S11E16	INSECTICIDE, FUNGICIDE, MITICIDE

Adminsitrative Record
Page 17258

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
CORN FOR/FOD	7/15/2009	LORSBAN-4E	CHLORPYRIFOS	G	13.75	GA	110	5S11E16	INSECTICIDE, FUNGICIDE, MITICIDE
CORN FOR/FOD	7/16/2009	LORSBAN ADVANCED	CHLORPYRIFOS	G	90	PT	45	4S11E27	INSECTICIDE, FUNGICIDE, MITICIDE
CORN FOR/FOD	7/16/2009	LORSBAN ADVANCED	CHLORPYRIFOS	A	187	PT	93.5	4S11E34	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/17/2009	LORSBAN-4E	CHLORPYRIFOS	G	34	QT	32	6S11E1	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/17/2009	LORSBAN-4E	CHLORPYRIFOS	G	24	QT	32	6S11E1	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/17/2009	LORSBAN-4E	CHLORPYRIFOS	G	15	QT	18	6S11E1	INSECTICIDE, FUNGICIDE, MITICIDE

Figure 9. Location of chlorpyrifos use for Highline Canal @ Hwy 99 (Merced)– Irrigation 4, MPM.



Adminsitrative Record
Page 17260

Howard Lateral @ Hwy 140

Pesticide Use Reports for water column toxicity.

Table 10. Irrigation 2 (5/19/09) – Selenastrum capricornutum toxicity.

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	4/21/2009	ORCHARDMASTER CA BROADLEAF HERBICIDE	2,4-D, DIMETHYLAMINE SALT	G	40	AC	41	7S11E3	HERBICIDE
ALMOND	4/21/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	40	AC	41	7S11E3	HERBICIDE
ALMOND	4/21/2009	GLY-4 PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	35	AC	38	7S11E10	HERBICIDE
SWEET POTATO	4/23/2009	VAPAM HL SOIL FUMIGANT	METAM-SODIUM	F1490	6.5	AC	6.5	7S11E2	INSECTICIDE, HERBICIDE, FUNGICIDE, NEMATICIDE
SWEET POTATO	4/23/2009	SECTAGON 42	METAM-SODIUM	F1490	32	AC	34	7S11E2	INSECTICIDE, HERBICIDE, FUNGICIDE, NEMATICIDE
ALMOND	4/23/2009	BUCCANEER GLYPHOSATE HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	5	AC	38	7S11E3	HERBICIDE
ALMOND	4/23/2009	GOAL 2XL	OXYFLUORFEN	G	5	AC	38	7S11E3	HERBICIDE
SWEET POTATO	4/23/2009	VAPAM HL SOIL FUMIGANT	METAM-SODIUM	F1490	2.5	AC	2.5	7S11E3	INSECTICIDE, HERBICIDE, FUNGICIDE, NEMATICIDE
SWEET POTATO	4/23/2009	VAPAM HL SOIL FUMIGANT	METAM-SODIUM	F1490	11	AC	11	7S11E9	INSECTICIDE, HERBICIDE, FUNGICIDE, NEMATICIDE
ALMOND	4/23/2009	AMINE 4 2,4-D WEED KILLER	2,4-D, DIMETHYLAMINE SALT	G	18	AC	36	7S11E11	HERBICIDE
ALMOND	4/23/2009	BUCCANEER PLUS GLYPHOSATE HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	18	AC	36	7S11E11	HERBICIDE
SWEET POTATO	4/24/2009	VAPAM HL SOIL FUMIGANT	METAM-SODIUM	F1490	14	AC	14	7S11E4	INSECTICIDE, HERBICIDE, FUNGICIDE, NEMATICIDE
ALMOND	4/24/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	18	AC	18	7S11E4	HERBICIDE
ALMOND	4/24/2009	GOAL 2XL	OXYFLUORFEN	G	18	AC	18	7S11E4	HERBICIDE
SWEET POTATO	4/25/2009	VAPAM HL SOIL FUMIGANT	METAM-SODIUM	F1490	10.5	AC	11	7S11E9	INSECTICIDE, HERBICIDE, FUNGICIDE, NEMATICIDE
SWEET POTATO	4/25/2009	VAPAM HL SOIL FUMIGANT	METAM-SODIUM	F1490	22	AC	24	7S11E9	INSECTICIDE, HERBICIDE, FUNGICIDE, NEMATICIDE
ALMOND	4/26/2009	GOAL 2XL	OXYFLUORFEN	G	15	AC	30	7S11E2	HERBICIDE

Adminsitrative Record
Page 17261

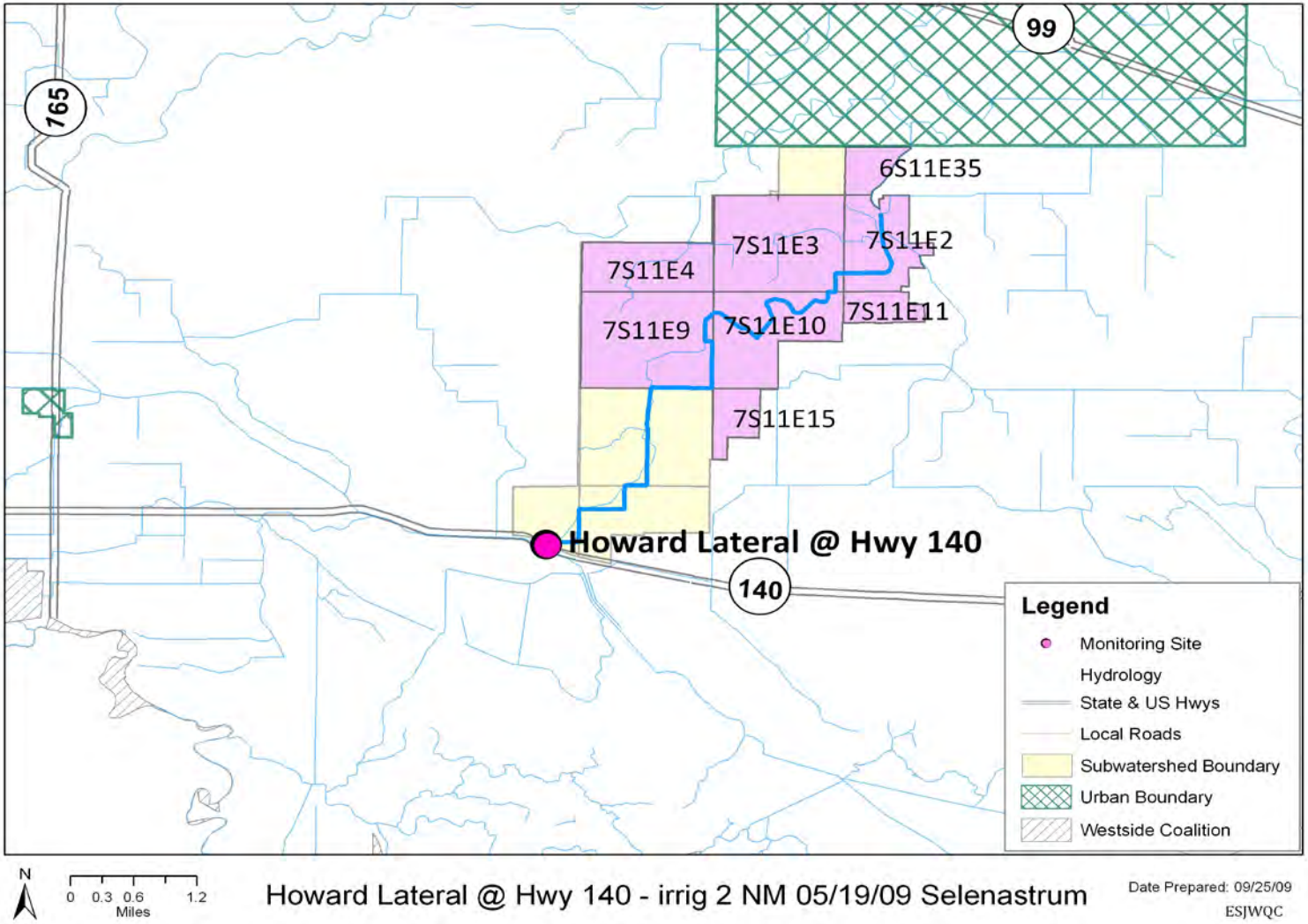
Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	4/26/2009	NUFARM CREDIT SYSTEMIC HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	15	AC	30	7S11E2	HERBICIDE
ALMOND	4/26/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	14	AC	27	7S11E10	HERBICIDE
ALMOND	4/27/2009	ORCHARDMASTER CA BROADLEAF HERBICIDE	2,4-D, DIMETHYLAMINE SALT	G	30	AC	30	7S11E8	HERBICIDE
ALMOND	4/27/2009	GOAL 2XL	OXYFLUORFEN	G	30	AC	30	7S11E8	HERBICIDE
ALMOND	4/27/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	30	AC	30	7S11E8	HERBICIDE
SWEET POTATO	4/27/2009	VAPAM HL SOIL FUMIGANT	METAM-SODIUM	F1490	3	AC	3	7S11E9	INSECTICIDE, HERBICIDE, FUNGICIDE, NEMATICIDE
ALMOND	4/28/2009	GOAL 2XL	OXYFLUORFEN	G	30	AC	32	7S11E10	HERBICIDE
ALMOND	4/28/2009	WEEDAXE HERBICIDE	2,4-D, DIMETHYLAMINE SALT	G	30	AC	32	7S11E10	HERBICIDE
ALMOND	4/28/2009	NUFARM CREDIT SYSTEMIC HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	30	AC	32	7S11E10	HERBICIDE
ALMOND	4/28/2009	GLY STAR PLUS	GLYPHOSATE, ISOPROPYLAMINE SALT	G	19	AC	19	7S11E15	HERBICIDE
ALMOND	4/28/2009	GOAL 2XL	OXYFLUORFEN	G	19	AC	19	7S11E15	HERBICIDE
ALMOND	4/28/2009	GLY STAR PLUS	GLYPHOSATE, ISOPROPYLAMINE SALT	G	17	AC	17	7S11E15	HERBICIDE
ALMOND	4/28/2009	GOAL 2XL	OXYFLUORFEN	G	17	AC	17	7S11E15	HERBICIDE
SWEET POTATO	4/29/2009	SECTAGON 42	METAM-SODIUM	F1412	9	AC	9	6S11E35	INSECTICIDE, HERBICIDE, FUNGICIDE, NEMATICIDE
ALMOND	4/29/2009	ROUNDUP ORIGINAL HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	24	AC	24	7S11E3	HERBICIDE
ALMOND	4/29/2009	2, 4-D AMINE 4 HERBICIDE	2,4-D, DIMETHYLAMINE SALT	G	24	AC	24	7S11E3	HERBICIDE
ALMOND	4/29/2009	ROUNDUP ORIGINAL HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	115	AC	120	7S11E15	HERBICIDE
ALMOND	4/29/2009	2, 4-D AMINE 4 HERBICIDE	2,4-D, DIMETHYLAMINE SALT	G	115	AC	120	7S11E15	HERBICIDE
ALMOND	4/30/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	9	AC	25.5	7S11E2	HERBICIDE
ALMOND	4/30/2009	NUFARM CREDIT SYSTEMIC EXTRA HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	9	AC	25.5	7S11E2	HERBICIDE
ALMOND	4/30/2009	CROPSMART GLYPHOSATE 41 PLUS	GLYPHOSATE, ISOPROPYLAMINE SALT	G	32	AC	32	7S11E11	HERBICIDE
GRAPE WINE	5/1/2009	GLYSUPREME PLUS	GLYPHOSATE, ISOPROPYLAMINE SALT	G	26.6	AC	70.9	7S11E4	HERBICIDE
ALMOND	5/2/2009	HONCHO PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	9.5	AC	20	7S11E2	HERBICIDE
ALMOND	5/2/2009	CHATEAU HERBICIDE SW	FLUMIOXAZIN	G	9.5	AC	20	7S11E2	HERBICIDE

Adminsitrative Record
Page 17262

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
SWEET POTATO	5/10/2009	VAPAM HL SOIL FUMIGANT	METAM-SODIUM	F1402	37.5	AC	37.5	7S11E15	INSECTICIDE, HERBICIDE, FUNGICIDE, NEMATICIDE
ALMOND	5/13/2009	GOAL 2XL	OXYFLUORFEN	G	38	AC	38	7S11E2	HERBICIDE
ALMOND	5/13/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	38	AC	38	7S11E2	HERBICIDE
PEACH	5/19/2009	RIVERDALE DRI-CLEAN HERBICIDE	2,4-D, DIMETHYLAMINE SALT	G	15	AC	30	6S11E35	HERBICIDE

Adminsitrative Record
Page 17263

Figure 7. Location of pesticide use associated with Selenastrum capricornutum toxicity for Howard Lateral @ Hwy 140 – Irrigation 2, NM.



Adminsitrative Record
Page 17264

Pesticide Use Reports for metal exceedance in the water column

Fall 1 (10/20/09) – copper exceedance

No applications of copper were made after January 2009.

Adminsitrative Record
Page 17265

Lateral 2 ½ near Keyes Rd

Pesticide Use Reports for water column toxicity.

Table 11. Irrigation 1-Storm Sediment (4/21/09) – Hyalella azteca toxicity.

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
PEACH PROCESSNG	1/6/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	208	OZ	26	4S11E4	INSECTICIDE
ALMOND	1/6/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	25.6	OZ	8	4S10E21	INSECTICIDE
ALMOND	1/8/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	104	OZ	13	4S11E9	INSECTICIDE
ALMOND	1/8/2009	PERM-UP 3.2 EC INSECTICIDE	PERMETHRIN	G	702	OZ	117	4S8E27	INSECTICIDE, MITICIDE
ALMOND	1/9/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	163	OZ	17	4S11E19	INSECTICIDE
PEACH PROCESSNG	1/10/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	112	OZ	14	4S10E8	INSECTICIDE
PEACH PROCESSNG	1/10/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	240	OZ	30	4S11E9	INSECTICIDE
ALMOND	1/10/2009	PERM-UP 3.2 EC INSECTICIDE	PERMETHRIN	G	450	OZ	75	4S8E28	INSECTICIDE, MITICIDE
PEACH PROCESSNG	1/11/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	460	OZ	46	4S9E28	INSECTICIDE
PEACH PROCESSNG	1/11/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	480	OZ	48	4S9E31	INSECTICIDE
PEACH PROCESSNG	1/12/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	120	OZ	15	4S10E3	INSECTICIDE
NECTARINE	1/12/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	12.8	OZ	1	4S10E16	INSECTICIDE
ALMOND	1/14/2009	LAMBDA-CY EC INSECTICIDE-RUP	LAMBDA-CYHALOTHRIN	G	848	OZ	265	4S11E1	INSECTICIDE
ALMOND	1/14/2009	LAMBDA-CY EC INSECTICIDE-RUP	LAMBDA-CYHALOTHRIN	G	192	OZ	60	4S11E1	INSECTICIDE
ALMOND	1/14/2009	LAMBDA-CY EC INSECTICIDE-RUP	LAMBDA-CYHALOTHRIN	G	128	OZ	40	4S11E1	INSECTICIDE
ALMOND	1/14/2009	LAMBDA-CY EC INSECTICIDE-RUP	LAMBDA-CYHALOTHRIN	G	80	OZ	25	4S12E5	INSECTICIDE
ALMOND	1/14/2009	LAMBDA-CY EC INSECTICIDE-RUP	LAMBDA-CYHALOTHRIN	G	128	OZ	40	4S12E5	INSECTICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	1/14/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	2.15	GA	25	4S10E12	INSECTICIDE
ALMOND	1/14/2009	PERM-UP 3.2 EC INSECTICIDE	PERMETHRIN	G	912	OZ	152	4S9E30	INSECTICIDE, MITICIDE
ALMOND	1/14/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	3.44	GA	40	4S10E35	INSECTICIDE
PEACH PROCESSNG	1/15/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	566.4	OZ	59	4S10E12	INSECTICIDE
PEACH PROCESSNG	1/16/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	192	OZ	20	4S10E11	INSECTICIDE
PEACH PROCESSNG	1/17/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	176	OZ	22	4S10E27	INSECTICIDE
PEACH PROCESSNG	1/18/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	184	OZ	23	4S10E22	INSECTICIDE
PEACH PROCESSNG	1/20/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	179.2	OZ	14	4S10E16	INSECTICIDE
PEACH	1/20/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	6.4	OZ	0.5	4S10E16	INSECTICIDE
PEACH PROCESSNG	1/21/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	50	OZ	5	4S11E17	INSECTICIDE
PEACH PROCESSNG	1/21/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	430	OZ	43	4S11E18	INSECTICIDE
ALMOND	1/21/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	160	OZ	20	4S10E18	INSECTICIDE
PEACH PROCESSNG	1/21/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	112	OZ	14	4S10E27	INSECTICIDE
PEACH	1/23/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	80	OZ	8	4S11E17	INSECTICIDE
PEACH	1/23/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	320	OZ	32	4S11E19	INSECTICIDE
PEACH PROCESSNG	1/24/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	170	OZ	17	4S11E3	INSECTICIDE
PEACH PROCESSNG	1/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	90	LB	18	4S10E7	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	1/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	50	LB	10	4S10E7	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	1/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	82.2	LB	16.44	4S10E7	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	1/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	84	LB	16.8	4S10E7	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	1/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	87.5	LB	17.5	4S10E7	FUNGICIDE, ALGAECIDE

Adminsitrative Record
Page 17267

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
PEACH PROCESSNG	1/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	133.8	LB	26.76	4S10E7	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	1/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	92.5	LB	18.5	4S10E7	FUNGICIDE, ALGAECIDE
WALNUT	1/27/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	16	PT	8	4S10E7	HERBICIDE
PEACH PROCESSNG	1/28/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	1.65	GA	8.25	4S10E7	HERBICIDE
PEACH PROCESSNG	1/28/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	1	GA	5	4S10E7	HERBICIDE
PEACH PROCESSNG	1/28/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.15	GA	0.75	4S10E7	HERBICIDE
PEACH PROCESSNG	1/28/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	1.55	GA	7.75	4S10E7	HERBICIDE
PEACH PROCESSNG	1/28/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.9	GA	4.5	4S10E7	HERBICIDE
PEACH PROCESSNG	1/28/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	1.35	GA	6.75	4S10E7	HERBICIDE
ALMOND	1/28/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	585	OZ	45	4S10E22	INSECTICIDE
ALMOND	1/28/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	270	LB	45	4S10E22	FUNGICIDE, ALGAECIDE
ALMOND	1/29/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	60.95	GA	243.81	4S12E6	HERBICIDE
PEACH PROCESSNG	1/29/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	1.5	GA	7.5	4S10E7	HERBICIDE
ALMOND	1/29/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	237.5	LB	38	4S8E34	FUNGICIDE, ALGAECIDE
ALMOND	1/29/2009	LORSBAN-4E	CHLORPYRIFOS	G	19	GA	38	4S8E34	INSECTICIDE, FUNGICIDE, MITICIDE
PEACH PROCESSNG	1/30/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	110	LB	11	4S10E3	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	1/30/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	100	LB	10	4S10E4	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	1/30/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	102	LB	8.5	4S10E4	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	1/30/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	72	LB	6	4S10E4	FUNGICIDE, ALGAECIDE
OT-VINE	1/30/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	302	OZ	18	4S10E5	HERBICIDE
PEACH PROCESSNG	1/30/2009	ADJOURN INSECTICIDE	ESFENVALERATE	G	256	OZ	20	4S10E7	INSECTICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
PEACH PROCESSNG	1/30/2009	ADJOURN INSECTICIDE	ESFENVALERATE	G	256	OZ	20	4S10E7	INSECTICIDE
PEACH PROCESSNG	1/30/2009	ADJOURN INSECTICIDE	ESFENVALERATE	G	256	OZ	20	4S10E7	INSECTICIDE
ALMOND	1/30/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	96	LB	12	4S11E7	FUNGICIDE, ALGAECIDE
ALMOND	1/30/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	12	PT	12	4S11E7	HERBICIDE
ALMOND	1/30/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	40	LB	5	4S11E7	FUNGICIDE, ALGAECIDE
ALMOND	1/30/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	5	PT	5	4S11E7	HERBICIDE
ALMOND	1/30/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	48	LB	6	4S11E7	FUNGICIDE, ALGAECIDE
ALMOND	1/30/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	6	PT	6	4S11E7	HERBICIDE
ALMOND	1/30/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	10	PT	10	4S11E7	HERBICIDE
ALMOND	1/30/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	50	PT	50	4S11E7	HERBICIDE
ALMOND	1/30/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	3.64	GA	7.27	4S11E7	HERBICIDE
ALMOND	1/30/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	160	LB	20	4S11E8	FUNGICIDE, ALGAECIDE
ALMOND	1/30/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	20	PT	20	4S11E8	HERBICIDE
N-GRNHS PLANT	1/30/2009	3336 WP TURF	THIOPHANATE-METHYL	G	795	GR	0.05	4S10E8	FUNGICIDE
ALMOND	1/30/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	30	PT	30	4S10E10	HERBICIDE
PEACH PROCESSNG	1/30/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	50	LB	5	4S10E13	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	1/30/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	50	LB	5	4S10E13	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	1/30/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	240	LB	20	4S10E15	FUNGICIDE, ALGAECIDE
ALMOND	1/30/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	2.92	QT	7	4S10E17	HERBICIDE
ALMOND	1/30/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	3.75	QT	9	4S10E17	HERBICIDE
ALMOND	1/30/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	15.42	QT	37	4S10E18	HERBICIDE
PEACH PROCESSNG	1/30/2009	ADJOURN INSECTICIDE	ESFENVALERATE	G	128	OZ	10	4S10E20	INSECTICIDE

Adminsitrative Record
Page 17269

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	1/30/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	75	LB	15	4S10E20	FUNGICIDE, ALGAECIDE
ALMOND	1/30/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	0.6	GA	30	4S8E25	INSECTICIDE
ALMOND	1/30/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	120	LB	30	4S8E25	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	1/30/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	50	LB	5	4S10E27	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	1/30/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	75	LB	7.5	4S10E27	FUNGICIDE, ALGAECIDE
ALFALFA	1/30/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	2.23	GA	8.1	4S10E30	HERBICIDE
ALMOND	1/31/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	200	LB	40	4S12E4	FUNGICIDE, ALGAECIDE
ALMOND	1/31/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	0.13	GA	5	4S9E13	INSECTICIDE
ALMOND	1/31/2009	KOCIDE DF	COPPER HYDROXIDE	G	50	LB	5	4S9E13	FUNGICIDE, ALGAECIDE
PEACH	1/31/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	27.2	LB	4	4S10E17	FUNGICIDE, ALGAECIDE
ALMOND	1/31/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	100	LB	10	4S11E17	FUNGICIDE, ALGAECIDE
NECTARINE	1/31/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	75	LB	7.5	4S11E17	FUNGICIDE, ALGAECIDE
PEACH	1/31/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	75	LB	7.5	4S11E17	FUNGICIDE, ALGAECIDE
PLUM	1/31/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	7.5	LB	0.75	4S11E17	FUNGICIDE, ALGAECIDE
PEACH	1/31/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	68	LB	10	4S10E20	FUNGICIDE, ALGAECIDE
ALMOND	1/31/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	0.8	GA	40	4S8E26	INSECTICIDE
ALMOND	1/31/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	160	LB	40	4S8E26	FUNGICIDE, ALGAECIDE
OT-VINE	2/2/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	60	OZ	1.5	4S10E5	HERBICIDE
N-GRNHS PLANT	2/2/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	3934.28	GR	0.39	4S10E8	FUNGICIDE, ALGAECIDE
WALNUT	2/3/2009	METHYL BROMIDE 98%	METHYL BROMIDE	G	58	LB	58	4S11E6	INSECTICIDE, HERBICIDE, FUNGICIDE, NEMATICIDE
N-GRNHS PLANT	2/3/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	3934.28	GR	0.34	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	2/3/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	25	PT	20	4S10E23	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	2/3/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	47.5	PT	38	4S10E23	HERBICIDE
ALMOND	2/3/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	22.5	PT	18	4S10E23	HERBICIDE
PEACH	2/3/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	2.55	GA	20.36	3S12E33	HERBICIDE
ALMOND	2/3/2009	TRIANGLE BRAND COPPER SULFATE INSTANT POWDER	COPPER SULFATE (PENTAHYDRATE)	G	50	LB	9	4S10E35	INSECTICIDE, HERBICIDE, FUNGICIDE, NEMATICIDE, ALG
ALMOND	2/4/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	10	GA	40	4S11E8	HERBICIDE
N-GRNHS PLANT	2/4/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	2950.71	GR	0.26	4S10E8	FUNGICIDE, ALGAECIDE
WALNUT	2/4/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.83	GA	3.33	4S10E22	HERBICIDE
WALNUT	2/4/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	9.34	PT	4.67	4S10E22	HERBICIDE
N-GRNHS PLANT	2/5/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	2950.71	GR	0.26	4S10E8	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	2/6/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	8852.13	GR	0.56	4S10E8	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	2/7/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	1967.14	GR	0.19	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	2/9/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	36	QT	18	4S10E4	FUNGICIDE, ALGAECIDE
ALMOND	2/9/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	9	PT	3	4S11E7	HERBICIDE
N-GRNHS PLANT	2/9/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	6884.99	GR	0.53	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	2/9/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	6.3	QT	16	4S11E20	HERBICIDE
ALMOND	2/9/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	50	PT	25	4S10E20	HERBICIDE
ALMOND	2/9/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	1.86	GA	14.85	3S12E33	HERBICIDE
OP-DEC. TREE	2/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.75	GA	6	4S12E3	HERBICIDE
OT-DEC. TREE	2/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.0001	GA	0.8	4S12E3	HERBICIDE
ALMOND	2/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.0004	GA	0.34	4S12E3	HERBICIDE
ALMOND	2/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.42	GA	3	4S12E3	HERBICIDE
CHESTNUT	2/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.0001	GA	0.09	4S12E3	HERBICIDE

Adminsitrative Record
Page 17271

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
PEAR	2/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.0002	GA	0.09	4S12E3	HERBICIDE
APRICOT	2/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.0012	GA	0.93	4S12E3	HERBICIDE
CHERRY	2/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.81	GA	3.32	4S12E3	HERBICIDE
NECTARINE	2/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.39	GA	3.14	4S12E3	HERBICIDE
N-GRNHS PLANT	2/10/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	5901.42	GR	0.48	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	2/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	520	OZ	13	4S10E9	HERBICIDE
ALMOND	2/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	16	PT	8	4S10E20	HERBICIDE
GRAPE, WINE	2/10/2009	LORSBAN ADVANCED	CHLORPYRIFOS	G	8.5	GA	17	4S9E28	INSECTICIDE, FUNGICIDE, MITICIDE
CHERRY	2/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.14	GA	1.11	3S12E34	HERBICIDE
PEACH	2/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	1.34	GA	10.69	3S12E34	HERBICIDE
OT-DEC. TREE	2/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.75	GA	6	3S12E34	HERBICIDE
GRAPE, WINE	2/10/2009	LORSBAN ADVANCED	CHLORPYRIFOS	G	33.5	GA	67	4S9E34	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	2/11/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	240	OZ	6	4S10E9	HERBICIDE
ALMOND	2/11/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	60	OZ	1.5	4S10E9	HERBICIDE
ALMOND	2/11/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	3.75	PT	1.5	4S9E13	INSECTICIDE
ALMOND	2/11/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	7.48	QT	19	4S11E19	HERBICIDE
ALMOND	2/13/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	2	PT	8	4S10E29	HERBICIDE
ALMOND	2/14/2009	NU-COP 50 WP	COPPER HYDROXIDE	G	34	LB	17	4S11E19	FUNGICIDE, ALGAECIDE
ALMOND	2/15/2009	DUPONT KOCIDE DF FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	90	LB	45	3S12E30	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	2/16/2009	NORDOX	COPPER OXIDE (OUS)	G	6884.99	GR	0.5	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	2/16/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	44	LB	11	4S10E15	FUNGICIDE, ALGAECIDE
ALMOND, ORGANIC	2/16/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	40	LB	10	4S10E15	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	2/17/2009	NORDOX	COPPER OXIDE (OUS)	G	8852.13	GR	0.61	4S10E8	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
N-GRNHS PLANT	2/17/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	2950.71	GR	0.37	4S10E8	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	2/18/2009	NORDOX	COPPER OXIDE (OUS)	G	8852.13	GR	0.9	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	2/18/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	7.5	PT	3	4S9E13	INSECTICIDE
ALMOND	2/18/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	37	LB	9.25	4S10E22	FUNGICIDE, ALGAECIDE
ALMOND	2/19/2009	NU-COP 50DF	COPPER HYDROXIDE	G	70	LB	35	4S11E5	FUNGICIDE, ALGAECIDE
ALMOND	2/19/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	4	GA	15	4S11E8	HERBICIDE
N-GRNHS PLANT	2/19/2009	NORDOX	COPPER OXIDE (OUS)	G	8852.13	GR	0.93	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	2/19/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	140	LB	36	4S10E12	FUNGICIDE, ALGAECIDE
ALMOND	2/19/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	160	LB	40	4S10E12	FUNGICIDE, ALGAECIDE
ALMOND	2/19/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	14	LB	8	4S10E17	FUNGICIDE, ALGAECIDE
ALMOND	2/19/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	10	PT	4	4S9E23	INSECTICIDE
ALMOND	2/19/2009	NU-COP 50 WP	COPPER HYDROXIDE	G	56	LB	28	4S10E26	FUNGICIDE, ALGAECIDE
ALMOND	2/19/2009	NU-COP 50 WP	COPPER HYDROXIDE	G	120	LB	60	4S10E28	FUNGICIDE, ALGAECIDE
ALMOND	2/19/2009	TOPSIN M WSB	THIOPHANATE-METHYL	G	18.5	LB	18.5	4S9E30	FUNGICIDE
ALMOND	2/19/2009	TOPSIN M WSB	THIOPHANATE-METHYL	G	19	LB	19	4S9E30	FUNGICIDE
ALMOND	2/19/2009	TOPSIN M WSB	THIOPHANATE-METHYL	G	18.5	LB	18.5	4S9E30	FUNGICIDE
WALNUT	2/19/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.29	GA	2.33	3S12E34	HERBICIDE
WALNUT	2/19/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.83	GA	6.66	3S12E34	HERBICIDE
WALNUT	2/19/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.78	GA	6.21	3S12E34	HERBICIDE
WALNUT	2/19/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	0.28	GA	2.24	3S12E34	HERBICIDE
ALMOND	2/19/2009	TOPSIN M WSB	THIOPHANATE-METHYL	G	38	LB	38	4S8E34	FUNGICIDE
ALMOND	2/19/2009	TOPSIN M WSB	THIOPHANATE-METHYL	G	20	LB	20	4S9E35	FUNGICIDE
ALMOND	2/20/2009	NU-COP 50DF	COPPER HYDROXIDE	G	530	LB	265	4S11E1	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	2/20/2009	NU-COP 50DF	COPPER HYDROXIDE	G	80	LB	40	4S11E1	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	2/20/2009	NORDOX	COPPER OXIDE (OUS)	G	4917.85	GR	0.29	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	2/20/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	40	PT	20	4S11E16	FUNGICIDE, ALGAECIDE
ALMOND	2/20/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	94	LB	47	4S11E19	FUNGICIDE, ALGAECIDE
ALMOND	2/20/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	40	PT	20	4S11E20	FUNGICIDE, ALGAECIDE
ALMOND	2/20/2009	NU-COP 50 WP	COPPER HYDROXIDE	G	20	LB	10	4S10E24	FUNGICIDE, ALGAECIDE
ALMOND	2/20/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	80	LB	40	4S10E29	FUNGICIDE, ALGAECIDE
ALMOND	2/20/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	40	LB	10	4S10E29	FUNGICIDE, ALGAECIDE
ALMOND	2/20/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	4.81	GA	19.25	4S8E34	HERBICIDE
ALMOND	2/20/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	7.86	GA	29	4S8E35	HERBICIDE
ALMOND	2/20/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	2	PT	2.45	4S8E35	HERBICIDE
ALMOND	2/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	7.5	LB	11	3S11E36	FUNGICIDE
ALMOND	2/20/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	5	GA	11	3S11E36	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	NU-COP 50DF	COPPER HYDROXIDE	G	60	LB	30	4S11E1	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	A	40	LB	40	4S11E3	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	THIOPHANATE-METHYL 85 WDG	THIOPHANATE-METHYL	G	7.95	LB	7.5	4S11E4	FUNGICIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	20	LB	10	4S10E4	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	NU-COP 50DF	COPPER HYDROXIDE	G	25	LB	12.5	4S12E5	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	NU-COP 50DF	COPPER HYDROXIDE	G	40	LB	20	4S12E5	FUNGICIDE, ALGAECIDE
OT-VINE	2/21/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	43.2	OZ	3.24	4S10E5	HERBICIDE
OT-VINE	2/21/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	64.9	OZ	4.34	4S10E5	HERBICIDE
OT-VINE	2/21/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	107	OZ	5.83	4S10E5	HERBICIDE
OT-VINE	2/21/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	129	OZ	6.12	4S10E5	HERBICIDE
ALMOND	2/21/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	10	QT	5	4S10E6	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	2/21/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	6	QT	3	4S10E6	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	10	LB	5	4S11E7	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	40	LB	20	4S10E7	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	30	LB	15	4S10E7	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	32	LB	8	4S11E7	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	26	LB	13	4S11E8	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	2/21/2009	NORDOX	COPPER OXIDE (OUS)	G	2950.71	GR	0.18	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	4.5	LB	9	4S11E9	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	10	LB	5	4S10E10	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	40	LB	20	4S10E11	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	60	LB	15	4S10E11	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	28	LB	7	4S10E17	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	60	LB	30	4S11E17	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	38	LB	19	4S10E17	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	68	LB	34	4S10E17	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	148	LB	37	4S10E18	FUNGICIDE, ALGAECIDE
PEACH	2/21/2009	MBC CONCENTRATE SOIL FUMIGANT	METHYL BROMIDE	G	786	LB	2.9	4S10E20	INSECTICIDE, HERBICIDE, FUNGICIDE, NEMATICIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	40	LB	20	4S10E22	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	140	OZ	28	4S10E23	FUNGICIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	40	LB	20	4S10E24	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	16	QT	8	4S9E26	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	40	QT	20	4S9E26	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	72	LB	18	4S10E29	FUNGICIDE, ALGAECIDE
ALMOND	2/21/2009	NU-COP 50 WP	COPPER HYDROXIDE	G	40	LB	20	4S11E30	FUNGICIDE, ALGAECIDE

Adminsitrative Record
Page 17275

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	2/22/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	40	QT	20	4S10E4	FUNGICIDE, ALGAECIDE
ALMOND	2/22/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	20	QT	10	4S10E4	FUNGICIDE, ALGAECIDE
ALMOND	2/22/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	30	QT	15	4S10E4	FUNGICIDE, ALGAECIDE
ALMOND	2/22/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	12	QT	6	4S10E4	FUNGICIDE, ALGAECIDE
ALMOND	2/22/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	6	QT	6	4S11E4	FUNGICIDE, ALGAECIDE
ALMOND	2/22/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	12	QT	12	4S11E7	FUNGICIDE, ALGAECIDE
ALMOND	2/22/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	5	QT	5	4S11E7	FUNGICIDE, ALGAECIDE
ALMOND	2/22/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	6	QT	6	4S11E7	FUNGICIDE, ALGAECIDE
ALMOND	2/22/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	10	QT	10	4S11E7	FUNGICIDE, ALGAECIDE
ALMOND	2/22/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	50	QT	50	4S11E7	FUNGICIDE, ALGAECIDE
ALMOND	2/22/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	20	QT	20	4S11E8	FUNGICIDE, ALGAECIDE
ALMOND	2/22/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	5	QT	5	4S10E9	FUNGICIDE, ALGAECIDE
ALMOND	2/22/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	15	QT	15	4S10E9	FUNGICIDE, ALGAECIDE
ALMOND	2/22/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	30	QT	30	4S10E10	FUNGICIDE, ALGAECIDE
ALMOND	2/22/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	20	QT	20	4S10E11	FUNGICIDE, ALGAECIDE
ALMOND	2/22/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	76	LB	35	4S10E12	FUNGICIDE, ALGAECIDE
ALMOND	2/22/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	30	QT	30	4S10E14	FUNGICIDE, ALGAECIDE
ALMOND	2/22/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	40.02	LB	6	4S10E28	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	2/23/2009	NORDOX	COPPER OXIDE (OUS)	G	6884.99	GR	0.16	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	2/23/2009	NU-COP 50DF	COPPER HYDROXIDE	G	18.75	LB	18.75	4S11E18	FUNGICIDE, ALGAECIDE
ALMOND	2/23/2009	NU-COP 50DF	COPPER HYDROXIDE	G	18	LB	18	4S10E35	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	CHAMP WG	COPPER HYDROXIDE	G	80	LB	40	4S11E7	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	2/24/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	6884.99	GR	0.48	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	18	QT	18	4S10E9	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	2/24/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	20	QT	20	4S10E9	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	CHAMP WG	COPPER HYDROXIDE	G	124	LB	62	4S11E9	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	140	OZ	14	4S10E13	FUNGICIDE
ALMOND	2/24/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	58	LB	29	4S10E15	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	NU-COP 50DF	COPPER HYDROXIDE	G	19	LB	19	4S11E18	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	NU-COP 50DF	COPPER HYDROXIDE	G	40	LB	20	4S10E28	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	A	76	LB	38	4S9E29	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	40	LB	10	4S10E29	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	CHAMP WG	COPPER HYDROXIDE	G	80	LB	40	3S11E34	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	158	LB	79	4S11E2	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	27.5	LB	22	4S11E3	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	47.5	LB	38	4S11E4	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	DUPONT KOCIDE DF FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	1.5	LB	1.5	4S10E4	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	7.5	LB	10	4S10E5	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	120	OZ	12	4S10E6	FUNGICIDE
ALMOND	2/25/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	7.5	LB	8	4S10E6	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMP WG	COPPER HYDROXIDE	G	28	LB	14	4S11E7	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	60	LB	30	4S11E8	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	2/25/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	6884.99	GR	0.56	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	4	QT	4	4S10E11	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMP WG	COPPER HYDROXIDE	G	50	LB	25	4S10E11	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMP WG	COPPER HYDROXIDE	G	160	LB	80	4S10E11	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	6	QT	6	4S10E12	FUNGICIDE, ALGAECIDE

Adminsitrative Record
Page 17277

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	2/25/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	18	LB	9	4S10E15	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	32	LB	8	4S11E17	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	17	QT	17	4S10E17	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	100	OZ	20	4S11E20	FUNGICIDE
ALMOND	2/25/2009	TOPSIN M 70WP	THIOPHANATE-METHYL	G	19.8	LB	18	4S10E20	FUNGICIDE
ALMOND	2/25/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	19.98	LB	8.5	4S10E21	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	NU-COP 50 WP	COPPER HYDROXIDE	G	40	LB	20	4S10E24	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	2/25/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	34.5	QT	23	4S9E28	HERBICIDE
ALMOND	2/25/2009	TOPSIN M 70WP	THIOPHANATE-METHYL	G	10	LB	10	4S10E28	FUNGICIDE
ALMOND	2/25/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	36	QT	18	4S11E30	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	2/25/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	36	QT	24	4S9E31	HERBICIDE
ALMOND	2/25/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	25	LB	20	3S12E33	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	92	LB	46	3S11E34	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	54	LB	27	3S11E36	FUNGICIDE, ALGAECIDE
ALMOND	2/26/2009	NU-COP 50DF	COPPER HYDROXIDE	G	30	LB	30	4S11E1	FUNGICIDE, ALGAECIDE
ALMOND	2/26/2009	NU-COP 50DF	COPPER HYDROXIDE	G	12.5	LB	12.5	4S12E5	FUNGICIDE, ALGAECIDE
ALMOND	2/26/2009	NU-COP 50DF	COPPER HYDROXIDE	G	20	LB	20	4S12E5	FUNGICIDE, ALGAECIDE
ALMOND	2/26/2009	PARAZONE 3SL	PARAQUAT DICHLORIDE	G	1	QT	35	4S11E5	HERBICIDE
ALMOND	2/26/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	150	OZ	15	4S10E7	FUNGICIDE
N-GRNHS PLANT	2/26/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	8852.13	GR	0.64	4S10E8	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	2/26/2009	3336 WP TURF	THIOPHANATE-METHYL	G	5902	GR	0.3	4S10E8	FUNGICIDE
ALMOND	2/26/2009	CHAMP WG	COPPER HYDROXIDE	G	116	LB	58	4S11E8	FUNGICIDE, ALGAECIDE
ALMOND	2/26/2009	CHAMP WG	COPPER HYDROXIDE	G	40	LB	20	4S10E11	FUNGICIDE, ALGAECIDE

Adminsitrative Record
Page 17278

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	2/26/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	7.5	LB	12	4S10E14	FUNGICIDE
ALMOND	2/26/2009	DUPONT KOCIDE DF FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	18.5	LB	18.5	4S10E17	FUNGICIDE, ALGAECIDE
ALMOND	2/26/2009	TOPSIN M 70WP	THIOPHANATE-METHYL	G	9.5	LB	9.5	4S10E18	FUNGICIDE
ALMOND	2/26/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	104	OZ	26	4S9E23	FUNGICIDE
ALMOND	2/26/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	26	LB	26	4S9E23	FUNGICIDE, ALGAECIDE
ALMOND	2/26/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	11.16	LB	17	4S9E24	FUNGICIDE
ALMOND	2/26/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	15	LB	14	4S9E25	FUNGICIDE, ALGAECIDE
ALMOND	2/26/2009	METHYL BROMIDE 98%	METHYL BROMIDE	G	67	LB	67	4S9E26	INSECTICIDE, HERBICIDE, FUNGICIDE, NEMATICIDE
ALMOND	2/26/2009	METHYL BROMIDE 98%	METHYL BROMIDE	G	125	LB	125	4S9E26	INSECTICIDE, HERBICIDE, FUNGICIDE, NEMATICIDE
ALMOND	2/26/2009	CHAMP WG	COPPER HYDROXIDE	G	36	LB	18	4S10E27	FUNGICIDE, ALGAECIDE
APPLE	2/26/2009	LORSBAN-4E	CHLORPYRIFOS	G	37	GA	74	4S9E30	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	19.98	LB	8.5	4S10E5	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	20	LB	19	4S10E7	FUNGICIDE, ALGAECIDE
ALMOND	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	A	18	LB	9	4S11E7	FUNGICIDE, ALGAECIDE
ALMOND	2/27/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	228	OZ	19	4S10E8	FUNGICIDE
N-GRNHS PLANT	2/27/2009	3336 WP TURF	THIOPHANATE-METHYL	G	1816	GR	0.1	4S10E8	FUNGICIDE
ALMOND	2/27/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	50	OZ	5	4S10E13	FUNGICIDE
ALMOND	2/27/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	175	OZ	17.5	4S10E13	FUNGICIDE
ALMOND	2/27/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	100	OZ	10	4S10E17	FUNGICIDE
ALMOND	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	40	LB	20	4S11E17	FUNGICIDE, ALGAECIDE
ALMOND	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	70	LB	35	4S11E17	FUNGICIDE, ALGAECIDE
ALMOND	2/27/2009	KOCIDE DF	COPPER HYDROXIDE	G	10.5	LB	10.5	4S11E17	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	59.94	LB	18	4S10E21	FUNGICIDE, ALGAECIDE
ALMOND	2/27/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	30.4	LB	38	4S9E27	FUNGICIDE
ALMOND	2/27/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	26.25	LB	35	3S12E30	FUNGICIDE
APPLE	2/27/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	10.97	OZ	4.57	3S12E33	FUNGICIDE
PEAR	2/27/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	4.73	OZ	1.97	3S12E33	FUNGICIDE
QUINCE	2/27/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	0.0012	OZ	0.05	3S12E33	FUNGICIDE
ALMOND	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	40	LB	20	3S11E35	FUNGICIDE, ALGAECIDE
ALMOND	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	70	LB	35	3S11E35	FUNGICIDE, ALGAECIDE
ALMOND	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	80	LB	40	3S11E36	FUNGICIDE, ALGAECIDE
WALNUT	2/28/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	15.36	PT	24	4S10E3	HERBICIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	126	LB	63	4S11E4	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	54	LB	27	4S11E4	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	30	QT	30	4S11E6	HERBICIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	11	LB	5.5	4S10E7	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	89	LB	44.5	4S10E7	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	4	LB	2	4S10E7	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	9	LB	4.5	4S10E7	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	12	LB	6	4S10E7	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	38	LB	19	4S10E7	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	14	LB	7	4S10E7	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	16	LB	8	4S10E7	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	2/28/2009	BRIGADE WSB INSECTICIDE/MITICIDE	BIFENTHRIN	G	75	GR	0.3	4S10E8	INSECTICIDE, MITICIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	60	LB	19	4S10E11	FUNGICIDE, ALGAECIDE

Adminsitrative Record
Page 17280

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
PEACH PROCESSNG	2/28/2009	KOCIDE 2000	COPPER HYDROXIDE	G	67.2	LB	33.58	4S10E12	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	40	LB	10	4S10E17	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	2/28/2009	HYDROX	COPPER HYDROXIDE	G	5	LB	9	4S11E19	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	27.5	LB	40	4S10E19	FUNGICIDE
ALMOND	2/28/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	34	QT	17	4S11E19	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	10	QT	10	4S11E20	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	BASIC COPPER 53	COPPER SULFATE (BASIC)	G	145	LB	29	4S10E20	INSECTICIDE, FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	DUPONT KOCIDE DF FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	6	LB	10	4S10E26	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	A	4	LB	10	4S10E26	FUNGICIDE
ALMOND	2/28/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	32	LB	40	4S9E27	FUNGICIDE
ALMOND	2/28/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	12.5	PT	5	4S8E27	INSECTICIDE
OT-VINE	3/2/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	172	OZ	8	4S10E5	HERBICIDE
N-GRNHS PLANT	3/2/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
N-GRNHS PLANT	3/2/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	3934.28	GR	0.42	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	3/2/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	360	OZ	30	4S11E20	FUNGICIDE
ALMOND	3/2/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	396	OZ	33	4S11E21	FUNGICIDE
PEACH PROCESSNG	3/3/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	60	OZ	6	4S11E8	FUNGICIDE
N-GRNHS PLANT	3/3/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
N-GRNHS PLANT	3/3/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	6884.99	GR	0.53	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	3/3/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	120	OZ	10	4S9E13	FUNGICIDE
ALMOND	3/3/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	120	OZ	10	4S10E18	FUNGICIDE
ALMOND	3/3/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	144	OZ	12	4S10E19	FUNGICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	3/3/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	368	OZ	32	4S10E20	FUNGICIDE
ALMOND	3/4/2009	NU-COP 50DF	COPPER HYDROXIDE	G	132	LB	132	4S11E1	FUNGICIDE, ALGAECIDE
ALMOND	3/4/2009	NU-COP 50DF	COPPER HYDROXIDE	G	20	LB	20	4S11E1	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	3/4/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
N-GRNHS PLANT	3/4/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	5901.42	GR	0.45	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	18.785	LB	25	4S10E12	FUNGICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	125	OZ	12.5	4S10E13	FUNGICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	176	OZ	16	4S11E16	FUNGICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	225	OZ	22.5	4S10E17	FUNGICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	330	OZ	30	4S11E19	FUNGICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	96	OZ	12	4S10E20	FUNGICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	396	OZ	30	4S11E21	FUNGICIDE
ALMOND	3/4/2009	KOCIDE DF	COPPER HYDROXIDE	G	10	LB	10	4S10E22	FUNGICIDE, ALGAECIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	7.5	LB	10	4S10E22	FUNGICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	99	OZ	9	4S10E24	FUNGICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	132	OZ	12	4S10E24	FUNGICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	440	OZ	40	4S10E24	FUNGICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	40.6	LB	65	4S9E25	FUNGICIDE
ALFALFA	3/4/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	0.54	GA	18	4S10E26	INSECTICIDE
ALFALFA	3/4/2009	NUFOS 4E	CHLORPYRIFOS	G	2.25	GA	18	4S10E26	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	10.5	LB	16	4S9E27	FUNGICIDE
ALMOND	3/4/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	1	QT	1	4S10E27	FUNGICIDE, ALGAECIDE
ALMOND	3/4/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	39.6	PT	18	4S9E29	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	3/4/2009	GEM 500 SC FUNGICIDE	TRIFLOXYSTROBIN	G	16	OZ	5	4S10E29	FUNGICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	14.8	LB	18.5	4S9E30	FUNGICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	15.2	LB	19	4S9E30	FUNGICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	14.8	LB	18.5	4S9E30	FUNGICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	253	OZ	23	3S12E32	FUNGICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	242	OZ	22	3S12E32	FUNGICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	231	OZ	21	3S12E32	FUNGICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	30	LB	40	4S10E35	FUNGICIDE
ALFALFA	3/4/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	0.54	GA	18	4S10E35	INSECTICIDE
ALFALFA	3/4/2009	NUFOS 4E	CHLORPYRIFOS	G	2.25	GA	18	4S10E35	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	3/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	15	LB	20	4S9E35	FUNGICIDE
ALFALFA	3/4/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	0.54	GA	18	4S10E36	INSECTICIDE
ALFALFA	3/4/2009	NUFOS 4E	CHLORPYRIFOS	G	2.25	GA	18	4S10E36	INSECTICIDE, FUNGICIDE, MITICIDE
ALFALFA	3/4/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	1.11	GA	37	4S10E36	INSECTICIDE
ALFALFA	3/4/2009	NUFOS 4E	CHLORPYRIFOS	G	4.63	GA	37	4S10E36	INSECTICIDE, FUNGICIDE, MITICIDE
ALFALFA	3/4/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	0.9	GA	30	4S10E36	INSECTICIDE
ALFALFA	3/4/2009	NUFOS 4E	CHLORPYRIFOS	G	3.75	GA	30	4S10E36	INSECTICIDE, FUNGICIDE, MITICIDE
ALFALFA	3/4/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	0.3	GA	10	4S10E36	INSECTICIDE
ALFALFA	3/4/2009	NUFOS 4E	CHLORPYRIFOS	G	1.25	GA	10	4S10E36	INSECTICIDE, FUNGICIDE, MITICIDE
ALFALFA	3/4/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	0.69	GA	23	4S10E36	INSECTICIDE
ALFALFA	3/4/2009	NUFOS 4E	CHLORPYRIFOS	G	2.88	GA	23	4S10E36	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	473	OZ	43	4S10E1	FUNGICIDE
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	110	OZ	10	4S10E3	FUNGICIDE

Adminsitrative Record
Page 17283

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	220	OZ	20	4S10E4	FUNGICIDE
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	A	2700	OZ	225	4S12E5	FUNGICIDE
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	100	OZ	10	4S11E7	FUNGICIDE
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	420	OZ	40	4S11E8	FUNGICIDE
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	367.5	OZ	35	4S11E8	FUNGICIDE
N-GRNHS PLANT	3/5/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
N-GRNHS PLANT	3/5/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	6884.99	GR	0.4	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	200	OZ	20	4S10E13	FUNGICIDE
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	462	OZ	42	4S10E15	FUNGICIDE
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	25	OZ	2.5	4S10E16	FUNGICIDE
PLUM	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	9	OZ	0.75	4S11E17	FUNGICIDE
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	66	OZ	8	4S10E17	FUNGICIDE
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	175	OZ	17.5	4S10E21	FUNGICIDE
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	180	OZ	18	4S9E26	FUNGICIDE
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	480	OZ	40	4S10E29	FUNGICIDE
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	440	OZ	40	4S10E29	FUNGICIDE
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	26.25	LB	38	4S10E30	FUNGICIDE
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	190	OZ	19	4S9E34	FUNGICIDE
ALMOND	3/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	475	OZ	38	4S8E34	FUNGICIDE
ALMOND	3/6/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	288	OZ	24	4S11E7	FUNGICIDE
N-GRNHS PLANT	3/6/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
N-GRNHS PLANT	3/6/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	5901.42	GR	0.37	4S10E8	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	3/6/2009	BRAVO 720	CHLOROTHALONIL	G	65	ML	0.3	4S10E8	FUNGICIDE, ALGAECIDE

Adminsitrative Record
Page 17284

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
N-GRNHS PLANT	3/6/2009	BRAVO 720	CHLOROTHALONIL	G	130	ML	0.6	4S10E8	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	3/6/2009	BRAVO 720	CHLOROTHALONIL	G	260	ML	0.6	4S10E8	FUNGICIDE, ALGAECIDE
OT-DEC. TREE	3/6/2009	BRAVO 720	CHLOROTHALONIL	G	260	ML	0.7	4S10E8	FUNGICIDE, ALGAECIDE
OT-DEC. TREE	3/6/2009	BRAVO 720	CHLOROTHALONIL	G	325	ML	2	4S10E8	FUNGICIDE, ALGAECIDE
OT-DEC. TREE	3/6/2009	BRAVO 720	CHLOROTHALONIL	G	390	ML	1.6	4S10E8	FUNGICIDE, ALGAECIDE
OT-DEC. TREE	3/6/2009	BRAVO 720	CHLOROTHALONIL	G	455	ML	2	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	3/6/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	66	OZ	6	4S10E15	FUNGICIDE
ALMOND	3/6/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	420	OZ	35	4S11E18	FUNGICIDE
ALMOND	3/6/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	132	OZ	11	4S11E19	FUNGICIDE
ALMOND	3/6/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	15.75	LB	24	4S11E20	FUNGICIDE
ALMOND	3/6/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	200	OZ	20	4S10E20	FUNGICIDE
ALMOND	3/6/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	450	OZ	45	4S10E22	FUNGICIDE
ALMOND	3/6/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	15.75	LB	24	4S9E25	FUNGICIDE
ALFALFA	3/6/2009	LAMBDA-CY EC INSECTICIDE-RUP	LAMBDA-CYHALOTHRIN	G	29	OZ	9	4S10E26	INSECTICIDE
ALFALFA	3/6/2009	LAMBDA-CY EC INSECTICIDE-RUP	LAMBDA-CYHALOTHRIN	G	0.5	GA	17.5	4S10E26	INSECTICIDE
ALMOND	3/6/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	390	OZ	39	4S9E28	FUNGICIDE
ALMOND	3/6/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	6	LB	8	4S11E30	FUNGICIDE, ALGAECIDE
ALMOND	3/6/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	756	OZ	14	4S9E31	HERBICIDE
ALMOND	3/6/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	950	OZ	190	4S9E35	FUNGICIDE
ALFALFA	3/6/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	2.06	GA	70	4S8E36	INSECTICIDE
ALFALFA	3/6/2009	NUFOS 4E	CHLORPYRIFOS	G	8.75	GA	70	4S8E36	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	3/7/2009	NU-COP 50DF	COPPER HYDROXIDE	G	60	LB	60	4S11E1	FUNGICIDE, ALGAECIDE
ALMOND	3/7/2009	EQUUS 720 SST	CHLOROTHALONIL	G	3840	OZ	60	4S11E1	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	3/7/2009	EQUUS 720 SST	CHLOROTHALONIL	G	7.5	GA	15	4S10E3	FUNGICIDE, ALGAECIDE
ALMOND	3/7/2009	ECHO 720 AGRICULTURAL FUNGICIDE	CHLOROTHALONIL	A	80	PT	40	4S11E3	FUNGICIDE, ALGAECIDE
ALMOND	3/7/2009	NU-COP 50DF	COPPER HYDROXIDE	G	25	LB	25	4S12E5	FUNGICIDE, ALGAECIDE
ALMOND	3/7/2009	NU-COP 50DF	COPPER HYDROXIDE	G	40	LB	40	4S12E5	FUNGICIDE, ALGAECIDE
ALMOND	3/7/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	20	QT	20	4S11E6	HERBICIDE
N-GRNHS PLANT	3/7/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
N-GRNHS PLANT	3/7/2009	BRAVO 720	CHLOROTHALONIL	G	195	ML	0.9	4S10E8	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	3/7/2009	BRAVO 720	CHLOROTHALONIL	G	390	ML	1.7	4S10E8	FUNGICIDE, ALGAECIDE
OT-DEC. TREE	3/7/2009	BRAVO 720	CHLOROTHALONIL	G	195	ML	1	4S10E8	FUNGICIDE, ALGAECIDE
OT-DEC. TREE	3/7/2009	BRAVO 720	CHLOROTHALONIL	G	325	ML	1.8	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	3/7/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	10.43	PT	8	4S10E13	HERBICIDE
ALMOND	3/7/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	120	OZ	10	4S11E17	FUNGICIDE
ALMOND	3/7/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	280	OZ	20	4S9E23	FUNGICIDE
ALFALFA	3/7/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	34	OZ	9	4S9E25	INSECTICIDE
ALMOND	3/7/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	154	OZ	14	4S10E25	FUNGICIDE
ALMOND	3/7/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	99	OZ	9	4S10E25	FUNGICIDE
ALFALFA	3/7/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	0.25	GA	9	4S11E30	INSECTICIDE
ALMOND	3/7/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	2.05	GA	8.18	4S10E31	HERBICIDE
ALMOND	3/7/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	52.5	LB	80	4S9E34	FUNGICIDE
ALFALFA	3/7/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	0.49	GA	18	4S10E35	INSECTICIDE
ALFALFA	3/8/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	140.6	OZ	37	4S8E26	INSECTICIDE
ALMOND	3/8/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	140	OZ	14	4S10E29	FUNGICIDE

Adminsitrative Record
Page 17286

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALFALFA	3/8/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	228	OZ	60	4S8E36	INSECTICIDE
N-GRNHS PLANT	3/9/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
N-GRNHS PLANT	3/9/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	8852.13	GR	0.82	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	3/9/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	99	OZ	9	4S11E17	FUNGICIDE
ALMOND	3/9/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	216	OZ	18	4S11E20	FUNGICIDE
ALMOND	3/9/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	600	OZ	50	4S11E30	FUNGICIDE
ALMOND	3/9/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	48	OZ	4	4S11E30	FUNGICIDE
ALMOND	3/9/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	10.5	OZ	70	4S9E34	FUNGICIDE
ALMOND	3/9/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	600	OZ	50	4S9E35	FUNGICIDE
ALFALFA	3/9/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	0.54	GA	18	4S9E35	INSECTICIDE
ALFALFA	3/9/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	0.54	GA	18	4S9E35	INSECTICIDE
ALMOND	3/9/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	100	OZ	10	4S10E36	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	13.12	LB	20	4S10E1	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	790	OZ	79	4S11E2	FUNGICIDE
CHERRY	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	36	OZ	3	4S12E4	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	50	OZ	5	4S11E7	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	130	OZ	13	4S11E8	FUNGICIDE
N-GRNHS PLANT	3/10/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
N-GRNHS PLANT	3/10/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	2950.71	GR	0.13	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	10.4	LB	26	4S10E9	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	4.2	LB	10.5	4S10E9	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	200	OZ	20	4S10E11	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	80	OZ	8	4S10E14	FUNGICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	100	OZ	10	4S10E14	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	294	OZ	28	4S10E14	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	220	OZ	20	4S11E16	FUNGICIDE
PEACH	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	90	OZ	7.5	4S11E17	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	200	OZ	20	4S11E17	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	350	OZ	35	4S11E17	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	96	OZ	8	4S10E18	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	240	OZ	20	4S10E18	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	180	OZ	15	4S10E19	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	517	OZ	47	4S11E19	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	220	OZ	20	4S11E20	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	324	OZ	27	4S10E20	FUNGICIDE
ALMOND	3/10/2009	GEM 500 SC FUNGICIDE	TRIFLOXYSTROBIN	G	29.6	OZ	9.25	4S10E22	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	165	OZ	15	4S10E24	FUNGICIDE
ALMOND	3/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	45.71	PT	40	4S10E29	HERBICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	450	OZ	36	4S9E29	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	460	OZ	46	3S11E34	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	200	OZ	20	3S11E35	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	350	OZ	35	3S11E35	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	400	OZ	40	3S11E36	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	270	OZ	27	3S11E36	FUNGICIDE
ALMOND	3/10/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	140	OZ	14	3S11E36	FUNGICIDE
ALFALFA	3/11/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	1.3	GA	48.4	4S11E2	INSECTICIDE
ALMOND	3/11/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	12	PT	4	4S11E7	HERBICIDE

Adminsitrative Record
Page 17288

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
N-GRNHS PLANT	3/11/2009	3336 WP TURF	THIOPHANATE-METHYL	G	1248	GR	0.05	4S10E8	FUNGICIDE
N-GRNHS PLANT	3/11/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
ALFALFA	3/11/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	1.9	GA	69.9	4S11E9	INSECTICIDE
WALNUT	3/11/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	140	OZ	3.5	4S10E9	HERBICIDE
ALFALFA	3/11/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	1.14	GA	38	4S10E14	INSECTICIDE
ALFALFA	3/11/2009	NUFOS 4E	CHLORPYRIFOS	G	4.75	GA	38	4S10E14	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	3/11/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	9.4	LB	15	4S9E25	FUNGICIDE
ALFALFA	3/11/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	152	OZ	40	4S8E26	INSECTICIDE
ALFALFA	3/11/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	76	OZ	20	4S8E26	INSECTICIDE
ALFALFA	3/11/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	0.24	GA	9	4S9E28	INSECTICIDE
ALFALFA	3/11/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	0.33	GA	12	4S9E29	INSECTICIDE
ALFALFA	3/11/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	63	OZ	17.9	3S11E35	INSECTICIDE
ALFALFA	3/12/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	1.6	GA	56.7	4S11E2	INSECTICIDE
ALFALFA	3/12/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	2.2	GA	79.8	4S12E2	INSECTICIDE
ALMOND	3/12/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	735	OZ	70	4S10E4	FUNGICIDE
ALMOND	3/12/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	12.33	QT	37	4S11E8	HERBICIDE
N-GRNHS PLANT	3/12/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
ALFALFA	3/12/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	A	0.52	GA	19	4S9E13	INSECTICIDE
ALFALFA	3/12/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	A	0.22	GA	8	4S9E13	INSECTICIDE
ALFALFA	3/12/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	1.15	GA	40	4S10E19	INSECTICIDE
ALMOND	3/12/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	176	OZ	16	4S10E24	FUNGICIDE
ALFALFA	3/12/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	0.23	GA	8	4S9E24	INSECTICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALFALFA	3/12/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	0.66	GA	24	4S8E25	INSECTICIDE
ALMOND	3/12/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	16.88	LB	22.5	4S9E25	FUNGICIDE
GRAPE, WINE	3/12/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	16	LB	8	4S10E26	FUNGICIDE, ALGAECIDE
ALFALFA	3/12/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	1.07	GA	39	4S8E27	INSECTICIDE
ALMOND	3/12/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	165	OZ	15	4S11E30	FUNGICIDE
ALFALFA	3/12/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	0.22	GA	8.1	4S10E30	INSECTICIDE
ALFALFA	3/12/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	69	OZ	19.7	3S11E34	INSECTICIDE
ALFALFA	3/12/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	4.2	GA	152.9	3S11E35	INSECTICIDE
ALFALFA	3/12/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	1.23	GA	45	4S8E35	INSECTICIDE
CHERRY	3/13/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	0.31	LB	1.11	4S12E3	FUNGICIDE
PEACH PROCESSNG	3/13/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	192	OZ	24	4S10E6	INSECTICIDE
ALMOND	3/13/2009	GEM 500 SC FUNGICIDE	TRIFLOXYSTROBIN	G	83.2	OZ	26	4S11E7	FUNGICIDE
ALMOND	3/13/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	500	OZ	40	4S10E7	FUNGICIDE
PEACH PROCESSNG	3/13/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	60	OZ	6	4S11E8	FUNGICIDE
N-GRNHS PLANT	3/13/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
PEACH PROCESSNG	3/13/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	23.1	LB	33.58	4S10E12	FUNGICIDE
PEACH PROCESSNG	3/13/2009	PERMETHRIN 3.2EC	PERMETHRIN	G	2.1	GA	33.58	4S10E12	INSECTICIDE, MITICIDE
ALFALFA	3/13/2009	LAMBDA-CY EC INSECTICIDE-RUP	LAMBDA-CYHALOTHRIN	G	38.4	OZ	10	4S10E22	INSECTICIDE
ALFALFA	3/13/2009	LAMBDA-CY EC INSECTICIDE-RUP	LAMBDA-CYHALOTHRIN	G	38.4	OZ	10	4S10E22	INSECTICIDE
ALMOND	3/13/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	280	OZ	28	4S10E23	FUNGICIDE
ALMOND	3/13/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	25	LB	25	4S9E23	FUNGICIDE, ALGAECIDE
ALMOND	3/13/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	10	OZ	10	4S9E25	FUNGICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	3/13/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	15	LB	15	4S9E25	FUNGICIDE, ALGAECIDE
ALFALFA	3/13/2009	LAMBDA-CY EC INSECTICIDE-RUP	LAMBDA-CYHALOTHRIN	G	72.96	OZ	19	4S10E26	INSECTICIDE
ALFALFA	3/13/2009	LAMBDA-CY EC INSECTICIDE-RUP	LAMBDA-CYHALOTHRIN	G	15.36	OZ	4	4S10E26	INSECTICIDE
WALNUT	3/13/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	5.74	GA	17.01	4S8E26	HERBICIDE
ALFALFA	3/13/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	0.6	GA	20	4S9E34	INSECTICIDE
CHERRY	3/13/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	0.1	LB	1.11	3S12E34	FUNGICIDE
CHERRY	3/13/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	0.13	LB	1.41	3S12E34	FUNGICIDE
ALMOND	3/14/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	630	OZ	63	4S11E4	FUNGICIDE
ALMOND	3/14/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	270	OZ	27	4S11E4	FUNGICIDE
N-GRNHS PLANT	3/14/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
ALMOND	3/14/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	50	OZ	5	4S10E9	FUNGICIDE
ALMOND	3/14/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	150	OZ	15	4S10E9	FUNGICIDE
ALMOND	3/14/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	200	OZ	20	4S10E11	FUNGICIDE
ALMOND	3/14/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	380	OZ	35	4S10E12	FUNGICIDE
ALMOND	3/14/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	300	OZ	30	4S10E14	FUNGICIDE
ALMOND	3/14/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	70	OZ	7	4S10E17	FUNGICIDE
ALMOND	3/14/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	100	OZ	10	4S10E17	FUNGICIDE
ALMOND	3/14/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	370	OZ	37	4S10E18	FUNGICIDE
PEACH PROCESSNG	3/14/2009	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	G	8	OZ	9	4S11E19	INSECTICIDE
ALFALFA	3/14/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	0.27	GA	9	4S10E19	INSECTICIDE
ALFALFA	3/14/2009	SILENCER	LAMBDA-CYHALOTHRIN	G	0.12	GA	4	4S10E19	INSECTICIDE
ALMOND	3/14/2009	GEM 500 SC FUNGICIDE	TRIFLOXYSTROBIN	G	28.8	OZ	9	4S10E27	FUNGICIDE
ALFALFA	3/14/2009	LORSBAN 4E-HF	CHLORPYRIFOS	A	50	PT	50	3S11E36	INSECTICIDE, FUNGICIDE, MITICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALFALFA	3/14/2009	SILENCER	LAMBDA-CYHALOTHRIN	A	100	OZ	50	3S11E36	INSECTICIDE
ALMOND	3/15/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	4	GA	10	4S10E13	HERBICIDE
ALFALFA	3/15/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	140.6	OZ	37	4S9E29	INSECTICIDE
ALFALFA	3/15/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	140.6	OZ	37	4S9E29	INSECTICIDE
N-GRNHS PLANT	3/16/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
ALMOND	3/16/2009	GEM 500 SC FUNGICIDE	TRIFLOXYSTROBIN	G	25.6	OZ	8	4S10E11	FUNGICIDE
ALFALFA	3/16/2009	MUSTANG INSECTICIDE	(S)-CYPERMETHRIN	G	1.3	GA	40	4S8E27	INSECTICIDE
ALFALFA	3/16/2009	MUSTANG INSECTICIDE	(S)-CYPERMETHRIN	G	2.5	QT	20	4S8E27	INSECTICIDE
ALFALFA	3/16/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	140.6	OZ	37	4S9E29	INSECTICIDE
ALFALFA	3/16/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	68.4	OZ	18	4S9E29	INSECTICIDE
APPLE	3/17/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	0.002	OZ	0.01	4S12E3	FUNGICIDE
PEAR	3/17/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	0.29	OZ	0.12	4S12E3	FUNGICIDE
WALNUT	3/17/2009	PARAZONE 3SL	PARAQUAT DICHLORIDE	G	1	QT	40	4S11E5	HERBICIDE
N-GRNHS PLANT	3/17/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
ALMOND	3/17/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	80	OZ	8	4S11E17	FUNGICIDE
ALMOND	3/17/2009	BRAVO 720	CHLOROTHALONIL	G	2	QT	35	4S11E19	FUNGICIDE, ALGAECIDE
ALMOND	3/17/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	756	OZ	63	4S11E19	FUNGICIDE
ALMOND	3/17/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	216	OZ	18	4S11E20	FUNGICIDE
ALMOND	3/17/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	9.84	LB	15	4S10E23	FUNGICIDE
APPLE	3/17/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	10.97	OZ	4.57	3S12E33	FUNGICIDE
PEAR	3/17/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	4.73	OZ	1.97	3S12E33	FUNGICIDE
QUINCE	3/17/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	0.0012	OZ	0.05	3S12E33	FUNGICIDE
QUINCE	3/17/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	0.12	OZ	0.05	3S12E33	FUNGICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
CHERRY	3/18/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	175	OZ	15	4S12E4	FUNGICIDE
CHERRY	3/18/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	40	OZ	3.5	4S12E4	FUNGICIDE
ALMOND	3/18/2009	BRAVO 720	CHLOROTHALONIL	G	2	QT	40	4S11E8	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	3/18/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
PEACH PROCESSNG	3/18/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	145	OZ	29	4S10E19	FUNGICIDE
ALMOND	3/18/2009	CHLORONIL 720	CHLOROTHALONIL	G	52	PT	13	4S11E20	FUNGICIDE, ALGAECIDE
ALMOND	3/18/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	10	GA	24	4S10E23	HERBICIDE
PEACH PROCESSNG	3/19/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	150	OZ	12.55	4S10E6	FUNGICIDE
PEACH PROCESSNG	3/19/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	300	OZ	25	4S10E6	FUNGICIDE
ALMOND	3/19/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	96	OZ	8	4S10E6	FUNGICIDE
ALMOND	3/19/2009	BRAVO 720	CHLOROTHALONIL	G	192	PT	48	4S11E7	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	3/19/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
N-GRNHS PLANT	3/19/2009	QUALI-PRO BIFENTHRIN GOLF & NURSERY 7.9F	BIFENTHRIN	G	118	ML	0.3	4S10E8	INSECTICIDE, MITICIDE
ALMOND	3/19/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	11.61	LB	16	4S10E11	FUNGICIDE
ALMOND	3/19/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	3.87	LB	5	4S10E11	FUNGICIDE
ALMOND	3/19/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	260	OZ	26	4S10E11	FUNGICIDE
PEACH PROCESSNG	3/19/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	75	OZ	7.5	4S10E13	FUNGICIDE
ALMOND	3/19/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	12	PT	4	4S10E13	HERBICIDE
ALMOND	3/19/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	400	OZ	40	4S10E16	FUNGICIDE
PEACH PROCESSNG	3/19/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	165	OZ	33	4S10E16	FUNGICIDE
PEACH PROCESSNG	3/19/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	95	OZ	19	4S10E16	FUNGICIDE
ALMOND	3/19/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	30	OZ	6	4S10E17	FUNGICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
PEACH PROCESSNG	3/19/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	100	OZ	20	4S10E17	FUNGICIDE
ALMOND	3/19/2009	BRAVO WEATHER STIK	CHLOROTHALONIL	G	280	PT	70	4S11E18	FUNGICIDE, ALGAECIDE
ALMOND	3/19/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	15	LB	18.5	4S11E18	FUNGICIDE
ALMOND	3/19/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	15	LB	19	4S11E18	FUNGICIDE
ALMOND	3/19/2009	CHLORONIL 720	CHLOROTHALONIL	G	38	PT	9.5	4S10E18	FUNGICIDE, ALGAECIDE
ALMOND	3/19/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	A	8	PT	4	4S10E19	HERBICIDE
PEACH PROCESSNG	3/19/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	192	OZ	16	4S11E19	FUNGICIDE
ALMOND	3/19/2009	BRAVO 720	CHLOROTHALONIL	G	2	QT	130	4S10E24	FUNGICIDE, ALGAECIDE
ALMOND	3/19/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	16.88	GA	50	4S9E24	HERBICIDE
ALMOND	3/19/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	10.13	GA	30	4S9E24	HERBICIDE
ALMOND	3/19/2009	GRAMOXONE MAX	PARAQUAT DICHLORIDE	G	13	QT	10	4S9E25	HERBICIDE
WALNUT	3/19/2009	GRAMOXONE MAX	PARAQUAT DICHLORIDE	G	19.5	QT	15	4S9E25	HERBICIDE
ALMOND	3/19/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	84	OZ	7	4S10E25	FUNGICIDE
ALMOND	3/19/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	1.18	GA	3.5	4S9E25	HERBICIDE
ALMOND	3/19/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	1.86	GA	5.5	4S9E30	HERBICIDE
OP-DEC. TREE	3/19/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	7.2	OZ	12	3S12E33	FUNGICIDE
ALMOND	3/19/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	360	OZ	36	4S8E35	FUNGICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	210	LB	320	4S12E1	FUNGICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	170	OZ	17	4S10E1	FUNGICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	13.13	LB	20	4S10E1	FUNGICIDE
PEACH PROCESSNG	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	120	OZ	10	4S10E3	FUNGICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	13	LB	20	4S11E3	FUNGICIDE
ALMOND	3/20/2009	CHLORONIL 720	CHLOROTHALONIL	G	108	PT	27	4S11E3	FUNGICIDE, ALGAECIDE

Adminsitrative Record
Page 17294

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
PEACH PROCESSNG	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	120	OZ	10	4S10E4	FUNGICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	100	OZ	10	4S10E4	FUNGICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	13.5	LB	27	4S10E5	FUNGICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	250	OZ	25	4S11E7	FUNGICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	19.25	LB	28	4S10E7	FUNGICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	4.81	LB	7	4S10E7	FUNGICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	5.5	LB	8	4S10E7	FUNGICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	316.25	OZ	37.5	4S11E8	FUNGICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	391	OZ	34	4S11E8	FUNGICIDE
N-GRNHS PLANT	3/20/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	1200	OZ	160	4S12E11	FUNGICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	180	OZ	15	4S10E11	FUNGICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	13.125	LB	18	4S10E13	FUNGICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	70	OZ	70	4S10E16	FUNGICIDE
ALMOND	3/20/2009	CHLORONIL 720	CHLOROTHALONIL	G	200	PT	50	4S11E18	FUNGICIDE, ALGAECIDE
ALMOND	3/20/2009	CHLORONIL 720	CHLOROTHALONIL	G	58	PT	14.5	4S10E18	FUNGICIDE, ALGAECIDE
ALMOND	3/20/2009	CHLORONIL 720	CHLOROTHALONIL	G	34	PT	8.5	4S10E18	FUNGICIDE, ALGAECIDE
ALMOND	3/20/2009	CHLORONIL 720	CHLOROTHALONIL	G	28	PT	7	4S10E18	FUNGICIDE, ALGAECIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	270	OZ	27	4S10E19	FUNGICIDE
PEACH PROCESSNG	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	648	OZ	54	4S10E19	FUNGICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	13	LB	17	4S11E19	FUNGICIDE
ALMOND	3/20/2009	NU-COP 50DF	COPPER HYDROXIDE	G	17	LB	17	4S11E19	FUNGICIDE, ALGAECIDE
ALMOND	3/20/2009	CHLORONIL 720	CHLOROTHALONIL	G	72	PT	18	4S10E20	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	3/20/2009	GRAMOXONE MAX	PARAQUAT DICHLORIDE	G	19.5	QT	15	4S9E23	HERBICIDE
ALMOND	3/20/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	5	GA	20	4S8E26	HERBICIDE
ALMOND	3/20/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	6.75	GA	20	4S8E26	HERBICIDE
ALMOND	3/20/2009	CHLORONIL 720	CHLOROTHALONIL	G	40	PT	10	4S9E27	FUNGICIDE, ALGAECIDE
ALMOND	3/20/2009	CHLORONIL 720	CHLOROTHALONIL	G	65	PT	25	4S9E27	FUNGICIDE, ALGAECIDE
ALMOND	3/20/2009	CHLORONIL 720	CHLOROTHALONIL	G	160	PT	40	4S10E28	FUNGICIDE, ALGAECIDE
ALMOND	3/20/2009	GEM 500 SC FUNGICIDE	TRIFLOXYSTROBIN	G	0.68	GA	27	4S8E28	FUNGICIDE
ALMOND	3/20/2009	CHLORONIL 720	CHLOROTHALONIL	G	60	PT	15	4S10E28	FUNGICIDE, ALGAECIDE
ALMOND	3/20/2009	CHLORONIL 720	CHLOROTHALONIL	G	512	OZ	8	4S10E28	FUNGICIDE, ALGAECIDE
ALMOND	3/20/2009	CHLORONIL 720	CHLOROTHALONIL	G	1088	OZ	17	4S10E28	FUNGICIDE, ALGAECIDE
WALNUT	3/20/2009	DUPONT MANEX FUNGICIDE	MANEB	G	9.06	GA	20	3S12E30	FUNGICIDE
WALNUT	3/20/2009	NU-COP 50DF	COPPER HYDROXIDE	G	120	LB	20	3S12E30	FUNGICIDE, ALGAECIDE
WALNUT	3/20/2009	PARAZONE 3SL	PARAQUAT DICHLORIDE	G	1.44	GA	4.25	3S12E32	HERBICIDE
WALNUT	3/20/2009	PARAZONE 3SL	PARAQUAT DICHLORIDE	G	5.23	GA	15.5	3S12E32	HERBICIDE
ALMOND	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	61	LB	200	3S11E34	FUNGICIDE
PEACH PROCESSNG	3/20/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	13.12	LB	20	4S9E34	FUNGICIDE
WALNUT	3/20/2009	NU-COP 50DF	COPPER HYDROXIDE	G	150	LB	15	3S11E36	FUNGICIDE, ALGAECIDE
ALMOND	3/21/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	1200	OZ	160	4S12E1	FUNGICIDE
ALMOND	3/21/2009	EQUUS 720 SST	CHLOROTHALONIL	G	16960	OZ	265	4S11E1	FUNGICIDE, ALGAECIDE
ALMOND	3/21/2009	EQUUS 720 SST	CHLOROTHALONIL	G	2560	OZ	40	4S11E1	FUNGICIDE, ALGAECIDE
ALMOND	3/21/2009	EQUUS 720 SST	CHLOROTHALONIL	G	1600	OZ	25	4S12E5	FUNGICIDE, ALGAECIDE
ALMOND	3/21/2009	EQUUS 720 SST	CHLOROTHALONIL	G	2560	OZ	40	4S12E5	FUNGICIDE, ALGAECIDE
ALMOND	3/21/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	805	OZ	70	4S11E8	FUNGICIDE
ALMOND	3/21/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	316.25	OZ	27.5	4S11E8	FUNGICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	3/21/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	210	LB	320	4S12E11	FUNGICIDE
ALMOND	3/21/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	60	OZ	5	4S10E11	FUNGICIDE
PEACH PROCESSNG	3/21/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	204	OZ	17	4S10E11	FUNGICIDE
ALMOND	3/21/2009	GEM 500 SC FUNGICIDE	TRIFLOXYSTROBIN	G	0.95	GA	38	4S9E27	FUNGICIDE
PEACH PROCESSNG	3/21/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	39.37	LB	60	4S9E35	FUNGICIDE
WALNUT	3/22/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	320	OZ	20	4S11E20	HERBICIDE
PRUNE	3/23/2009	ECHO 720 AGRICULTURAL FUNGICIDE	CHLOROTHALONIL	G	92	PT	23	4S10E4	FUNGICIDE, ALGAECIDE
ALMOND	3/23/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	218.5	OZ	19	4S11E9	FUNGICIDE
PEACH PROCESSNG	3/23/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	168	OZ	14	4S10E16	FUNGICIDE
PEACH	3/23/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	6	OZ	0.5	4S10E16	FUNGICIDE
ALMOND	3/23/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	36.6	LB	471	4S11E21	FUNGICIDE
ALFALFA	3/23/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	0.14	GA	5	4S9E26	INSECTICIDE
ALMOND	3/24/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	20	QT	20	4S12E3	HERBICIDE
ALMOND	3/24/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	690	OZ	60	4S11E8	FUNGICIDE
ALMOND	3/24/2009	EQUUS 720 SST	CHLOROTHALONIL	G	1200	OZ	18.75	4S11E18	FUNGICIDE, ALGAECIDE
ALMOND	3/24/2009	EQUUS 720 SST	CHLOROTHALONIL	G	1216	OZ	19	4S11E18	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	3/24/2009	PARAZONE 3SL	PARAQUAT DICHLORIDE	G	2.72	GA	8.06	4S10E27	HERBICIDE
PEACH PROCESSNG	3/24/2009	ECHO 720 AGRICULTURAL FUNGICIDE	CHLOROTHALONIL	G	10	GA	20	4S9E34	FUNGICIDE, ALGAECIDE
ALMOND	3/25/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	456	OZ	38	4S11E3	FUNGICIDE
ALMOND	3/25/2009	CHLORONIL 720	CHLOROTHALONIL	G	212	PT	53	4S10E6	FUNGICIDE, ALGAECIDE
ALMOND	3/25/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	3314	LB	404	4S11E16	FUNGICIDE
ALMOND	3/25/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	2.5	QT	5	4S10E17	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
PEACH PROCESSNG	3/25/2009	ECHO 720 AGRICULTURAL FUNGICIDE	CHLOROTHALONIL	G	30	GA	60	4S9E35	FUNGICIDE, ALGAECIDE
ALMOND	3/26/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	1032	OZ	86	4S11E3	FUNGICIDE
N-GRNHS PLANT	3/26/2009	QUALI-PRO BIFENTHRIN GOLF & NURSERY 7.9F	BIFENTHRIN	G	236	ML	1.7	4S10E8	INSECTICIDE, MITICIDE
ALMOND	3/26/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	1.2	LB	3	4S10E9	FUNGICIDE
ALMOND	3/26/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	11	QT	11	4S11E9	HERBICIDE
WALNUT	3/26/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	6	QT	6	4S10E10	HERBICIDE
WALNUT	3/26/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	7	QT	7	4S10E11	HERBICIDE
ALFALFA	3/26/2009	LAMBDA-CY EC INSECTICIDE-RUP	LAMBDA-CYHALOTHRIN	G	38.4	OZ	10	4S10E18	INSECTICIDE
ALFALFA	3/26/2009	LAMBDA-CY EC INSECTICIDE-RUP	LAMBDA-CYHALOTHRIN	G	38.4	OZ	10	4S9E24	INSECTICIDE
WALNUT	3/26/2009	DUPONT MANEX FUNGICIDE	MANEB	G	15.86	GA	35	4S9E34	FUNGICIDE
WALNUT	3/26/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	175	LB	35	4S9E34	FUNGICIDE, ALGAECIDE
ALMOND	3/27/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	72	OZ	38	4S11E3	FUNGICIDE
APPLE	3/27/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	0.0002	OZ	0.01	4S12E3	FUNGICIDE
PEAR	3/27/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	0.0029	OZ	0.12	4S12E3	FUNGICIDE
N-GRNHS PLANT	3/27/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
OT-DEC. TREE	3/27/2009	QUALI-PRO BIFENTHRIN GOLF & NURSERY 7.9F	BIFENTHRIN	G	118	ML	0.3	4S10E8	INSECTICIDE, MITICIDE
OT-DEC. TREE	3/27/2009	QUALI-PRO BIFENTHRIN GOLF & NURSERY 7.9F	BIFENTHRIN	G	295	ML	1.7	4S10E8	INSECTICIDE, MITICIDE
OT-DEC. TREE	3/27/2009	QUALI-PRO BIFENTHRIN GOLF & NURSERY 7.9F	BIFENTHRIN	G	413	ML	2	4S10E8	INSECTICIDE, MITICIDE
OT-DEC. TREE	3/27/2009	QUALI-PRO BIFENTHRIN GOLF & NURSERY 7.9F	BIFENTHRIN	G	590	ML	1.7	4S10E8	INSECTICIDE, MITICIDE
ALFALFA	3/27/2009	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	G	0.48	GA	16	4S9E27	INSECTICIDE
ALFALFA	3/27/2009	NUFOS 4E	CHLORPYRIFOS	G	2	GA	16	4S9E27	INSECTICIDE, FUNGICIDE, MITICIDE
APPLE	3/27/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	10.97	OZ	4.57	3S12E33	FUNGICIDE

Adminsitrative Record
Page 17298

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
PEAR	3/27/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	4.73	OZ	1.97	3S12E33	FUNGICIDE
ALMOND	3/27/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	80	PT	40	4S8E34	HERBICIDE
PEACH PROCESSNG	3/28/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	99	OZ	9	4S10E4	FUNGICIDE
PEACH PROCESSNG	3/28/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	55	OZ	5	4S10E4	FUNGICIDE
PEACH PROCESSNG	3/28/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	66	OZ	6	4S10E4	FUNGICIDE
N-GRNHS PLANT	3/28/2009	3336 WP TURF	THIOPHANATE-METHYL	G	2496	GR	0.1	4S10E8	FUNGICIDE
PEACH PROCESSNG	3/28/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	429	OZ	39	4S10E15	FUNGICIDE
ALMOND	3/28/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	322	OZ	28	4S10E17	FUNGICIDE
PEACH PROCESSNG	3/28/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	55	OZ	5	4S11E18	FUNGICIDE
ALMOND	3/28/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	5.45	QT	19	4S11E18	HERBICIDE
PEACH PROCESSNG	3/28/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	66	OZ	6	4S11E19	FUNGICIDE
ALMOND	4/2/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	1920	OZ	160	4S12E11	FUNGICIDE
ALMOND	4/2/2009	CHLORONIL 720	CHLOROTHALONIL	G	10	QT	5	4S10E18	FUNGICIDE, ALGAECIDE
ALMOND	4/2/2009	CHLORONIL 720	CHLOROTHALONIL	G	20	QT	10	4S10E18	FUNGICIDE, ALGAECIDE
WALNUT	4/2/2009	DUPONT MANEX FUNGICIDE	MANEB	G	22.66	GA	50	3S12E30	FUNGICIDE
WALNUT	4/2/2009	NU-COP 50DF	COPPER HYDROXIDE	G	400	LB	50	3S12E30	FUNGICIDE, ALGAECIDE
WALNUT	4/2/2009	DUPONT MANEX FUNGICIDE	MANEB	G	27.19	GA	60	3S12E32	FUNGICIDE
WALNUT	4/2/2009	NU-COP 50DF	COPPER HYDROXIDE	G	480	LB	60	3S12E32	FUNGICIDE, ALGAECIDE
OP-DEC. TREE	4/2/2009	DECATHLON 20WP GREENHOUSE AND NURSERY INSECTICIDE	CYFLUTHRIN	G	2625	GR	35	3S12E33	INSECTICIDE
WALNUT	4/2/2009	DUPONT MANEX FUNGICIDE	MANEB	G	2900	OZ	50	3S12E33	FUNGICIDE
WALNUT	4/2/2009	NU-COP 50 WP	COPPER HYDROXIDE	G	500	LB	50	3S12E33	FUNGICIDE, ALGAECIDE
WALNUT	4/2/2009	DUPONT MANEX FUNGICIDE	MANEB	G	18.13	GA	40	3S11E36	FUNGICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
WALNUT	4/2/2009	NU-COP 50DF	COPPER HYDROXIDE	G	320	LB	40	3S11E36	FUNGICIDE, ALGAECIDE
WALNUT	4/2/2009	DUPONT MANEX FUNGICIDE	MANEB	G	4.53	GA	10	3S11E36	FUNGICIDE
WALNUT	4/2/2009	NU-COP 50DF	COPPER HYDROXIDE	G	80	LB	10	3S11E36	FUNGICIDE, ALGAECIDE
WALNUT	4/3/2009	DUPONT MANEX FUNGICIDE	MANEB	G	6.8	GA	15	4S10E10	FUNGICIDE
WALNUT	4/3/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	90	LB	15	4S10E10	FUNGICIDE, ALGAECIDE
WALNUT	4/3/2009	DUPONT MANEX FUNGICIDE	MANEB	G	15.86	GA	35	4S10E11	FUNGICIDE
WALNUT	4/3/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	210	LB	35	4S10E11	FUNGICIDE, ALGAECIDE
CHERRY	4/3/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	636	OZ	53	4S10E23	FUNGICIDE
WALNUT	4/3/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	19	GA	38	4S10E24	FUNGICIDE, ALGAECIDE
ALMOND	4/3/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	9.5	GA	38	4S9E27	HERBICIDE
CHERRY	4/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	0.31	LB	3.32	4S12E3	FUNGICIDE
ALMOND	4/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	7.5	LB	13	4S11E6	FUNGICIDE
WALNUT	4/4/2009	DUPONT MANEX FUNGICIDE	MANEB	G	377	OZ	6.5	4S10E8	FUNGICIDE
WALNUT	4/4/2009	KOCIDE 2000	COPPER HYDROXIDE	G	39	LB	6.5	4S10E8	FUNGICIDE, ALGAECIDE
WALNUT	4/4/2009	DUPONT MANEX FUNGICIDE	MANEB	G	1044	OZ	18	4S10E8	FUNGICIDE
WALNUT	4/4/2009	KOCIDE 2000	COPPER HYDROXIDE	G	108	LB	18	4S10E8	FUNGICIDE, ALGAECIDE
CHERRY	4/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	216	OZ	18	4S10E11	FUNGICIDE
CHERRY	4/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	216	OZ	18	4S10E11	FUNGICIDE
WALNUT	4/4/2009	DUPONT MANEX FUNGICIDE	MANEB	G	812	OZ	14	4S10E17	FUNGICIDE
WALNUT	4/4/2009	KOCIDE 2000	COPPER HYDROXIDE	G	84	LB	14	4S10E17	FUNGICIDE, ALGAECIDE
WALNUT	4/4/2009	DUPONT MANEX FUNGICIDE	MANEB	G	290	OZ	5	4S10E18	FUNGICIDE
WALNUT	4/4/2009	KOCIDE 2000	COPPER HYDROXIDE	G	30	LB	5	4S10E18	FUNGICIDE, ALGAECIDE
WALNUT	4/4/2009	DUPONT MANEX FUNGICIDE	MANEB	G	4.38	GA	10	4S8E26	FUNGICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
WALNUT	4/4/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	60	LB	10	4S8E26	FUNGICIDE, ALGAECIDE
CHERRY	4/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	0.1	LB	1.11	3S12E34	FUNGICIDE
CHERRY	4/4/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	0.13	LB	1.41	3S12E34	FUNGICIDE
WALNUT	4/4/2009	DUPONT MANEX FUNGICIDE	MANEB	G	696	OZ	12	4S8E35	FUNGICIDE
WALNUT	4/4/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	72	LB	12	4S8E35	FUNGICIDE, ALGAECIDE
WALNUT	4/5/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	120	QT	60	4S10E3	FUNGICIDE, ALGAECIDE
WALNUT	4/5/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	48	QT	24	4S10E3	FUNGICIDE, ALGAECIDE
ALMOND	4/5/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	739.67	OZ	47	4S10E5	HERBICIDE
WALNUT	4/5/2009	HYDROX	COPPER HYDROXIDE	G	42	LB	7	4S10E9	FUNGICIDE, ALGAECIDE
ALMOND	4/5/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	25	LB	40	4S10E9	FUNGICIDE
WALNUT	4/5/2009	DUPONT MANEX FUNGICIDE	MANEB	G	464	OZ	8	4S10E10	FUNGICIDE
WALNUT	4/5/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	48	PT	8	4S10E10	FUNGICIDE, ALGAECIDE
WALNUT	4/5/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	60	PT	10	4S11E19	FUNGICIDE, ALGAECIDE
WALNUT	4/5/2009	KOCIDE 2000	COPPER HYDROXIDE	G	1080	LB	135	4S8E27	FUNGICIDE, ALGAECIDE
ALMOND	4/5/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	629.51	OZ	40	4S10E27	HERBICIDE
ALMOND	4/5/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	157.38	OZ	10	4S10E29	HERBICIDE
WALNUT	4/5/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	1.75	GA	2.33	3S12E34	FUNGICIDE, ALGAECIDE
WALNUT	4/5/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	5	GA	6.66	3S12E34	FUNGICIDE, ALGAECIDE
WALNUT	4/5/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	4.66	GA	6.21	3S12E34	FUNGICIDE, ALGAECIDE
WALNUT	4/5/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	1.68	GA	2.24	3S12E34	FUNGICIDE, ALGAECIDE
WALNUT	4/6/2009	DUPONT MANEX FUNGICIDE	MANEB	G	58	OZ	15	4S11E5	FUNGICIDE
WALNUT	4/6/2009	KENTAN DF	COPPER HYDROXIDE	G	256	LB	32	4S10E16	FUNGICIDE, ALGAECIDE
WALNUT	4/6/2009	KENTAN DF	COPPER HYDROXIDE	G	360	LB	45	4S10E16	FUNGICIDE, ALGAECIDE
ALMOND	4/6/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	865.57	OZ	55	4S9E27	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
CHERRY	4/6/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	216	OZ	18	4S10E27	FUNGICIDE
WALNUT	4/6/2009	DUPONT MANEX FUNGICIDE	MANEB	G	36.25	GA	80	3S12E31	FUNGICIDE
WALNUT	4/6/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	400	LB	80	3S12E31	FUNGICIDE, ALGAECIDE
WALNUT	4/6/2009	DUPONT MANEX FUNGICIDE	MANEB	G	960	OZ	30	3S11E36	FUNGICIDE
WALNUT	4/6/2009	DUPONT KOCIDE DF FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	240	LB	30	3S11E36	FUNGICIDE, ALGAECIDE
ALMOND	4/7/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	37.5	QT	37.5	4S12E3	HERBICIDE
ALMOND	4/7/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	25	PT	10	4S10E5	HERBICIDE
ALMOND	4/7/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	12	QT	12	4S10E11	HERBICIDE
CHERRY	4/7/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	84	OZ	7	4S10E19	FUNGICIDE
CHERRY	4/7/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	96	OZ	8	4S10E19	FUNGICIDE
ALMOND	4/7/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	20.62	LB	27.5	4S8E28	FUNGICIDE
GRAPE, WINE	4/7/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	1	PT	40	4S9E34	FUNGICIDE, ALGAECIDE
GRAPE, WINE	4/7/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	40	PT	40	4S9E34	FUNGICIDE, ALGAECIDE
ALMOND	4/8/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	1920	OZ	160	4S12E1	FUNGICIDE
OP-DEC. TREE	4/8/2009	DECATHLON 20WP GREENHOUSE AND NURSERY INSECTICIDE	CYFLUTHRIN	G	3000	GR	40	4S12E3	INSECTICIDE
CHERRY	4/8/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	264	OZ	22	4S10E6	FUNGICIDE
CHERRY	4/8/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	60	OZ	5	4S10E6	FUNGICIDE
N-GRNHS PLANT	4/8/2009	3336 WP TURF	THIOPHANATE-METHYL	G	454	GR	0.04	4S10E8	FUNGICIDE
N-GRNHS PLANT	4/8/2009	3336 WP TURF	THIOPHANATE-METHYL	G	3178	GR	0.2	4S10E8	FUNGICIDE
WALNUT	4/8/2009	DUPONT MANEX FUNGICIDE	MANEB	G	3.63	GA	8	4S9E29	FUNGICIDE
WALNUT	4/8/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	40	LB	8	4S9E29	FUNGICIDE, ALGAECIDE
GRAPE, WINE	4/8/2009	NU-COP 50DF	COPPER HYDROXIDE	G	62	LB	31	4S10E31	FUNGICIDE, ALGAECIDE
GRAPE, WINE	4/8/2009	NU-COP 50DF	COPPER HYDROXIDE	G	21	LB	10.5	4S10E31	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
OP-DEC. TREE	4/8/2009	DECATHLON 20WP GREENHOUSE AND NURSERY INSECTICIDE	CYFLUTHRIN	G	2625	GR	35	3S12E33	INSECTICIDE
OP-DEC. TREE	4/8/2009	DECATHLON 20WP GREENHOUSE AND NURSERY INSECTICIDE	CYFLUTHRIN	G	2625	GR	35	3S12E33	INSECTICIDE
ALMOND	4/9/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	50	LB	80	4S11E6	FUNGICIDE
WALNUT	4/9/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	144	LB	18	4S11E20	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	4/10/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	4917.85	GR	0.69	4S10E8	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	4/10/2009	3336 WP TURF	THIOPHANATE-METHYL	G	1816	GR	0.1	4S10E8	FUNGICIDE
WALNUT	4/10/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	60	QT	20	4S11E17	FUNGICIDE, ALGAECIDE
WALNUT	4/10/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	15	QT	5	4S11E17	FUNGICIDE, ALGAECIDE
ALMOND	4/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	13.5	GA	40	4S8E26	HERBICIDE
WALNUT	4/10/2009	DUPONT MANEX FUNGICIDE	MANEB	G	9.06	GA	20	4S9E34	FUNGICIDE
WALNUT	4/10/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	100	LB	20	4S9E34	FUNGICIDE, ALGAECIDE
WALNUT	4/10/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	45	QT	15	3S11E35	FUNGICIDE, ALGAECIDE
WALNUT	4/10/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	60	QT	20	3S11E36	FUNGICIDE, ALGAECIDE
WALNUT	4/10/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	75	QT	25	3S11E36	FUNGICIDE, ALGAECIDE
WALNUT	4/10/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	168	QT	56	3S11E36	FUNGICIDE, ALGAECIDE
WALNUT	4/10/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	48	LB	12	3S11E36	FUNGICIDE, ALGAECIDE
WALNUT	4/10/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	40	LB	10	3S11E36	FUNGICIDE, ALGAECIDE
OT-DEC. TREE	4/11/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	42	GR	0.4	4S10E8	FUNGICIDE
OT-DEC. TREE	4/11/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	21	GR	0.2	4S10E8	FUNGICIDE
PRUNE	4/12/2009	ECHO 720 AGRICULTURAL FUNGICIDE	CHLOROTHALONIL	G	92	PT	23	4S10E4	FUNGICIDE, ALGAECIDE
ALMOND	4/12/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	15	GA	60	4S9E29	HERBICIDE
APPLE	4/12/2009	FLINT FUNGICIDE	TRIFLOXYSTROBIN	G	148	OZ	74	4S9E30	FUNGICIDE

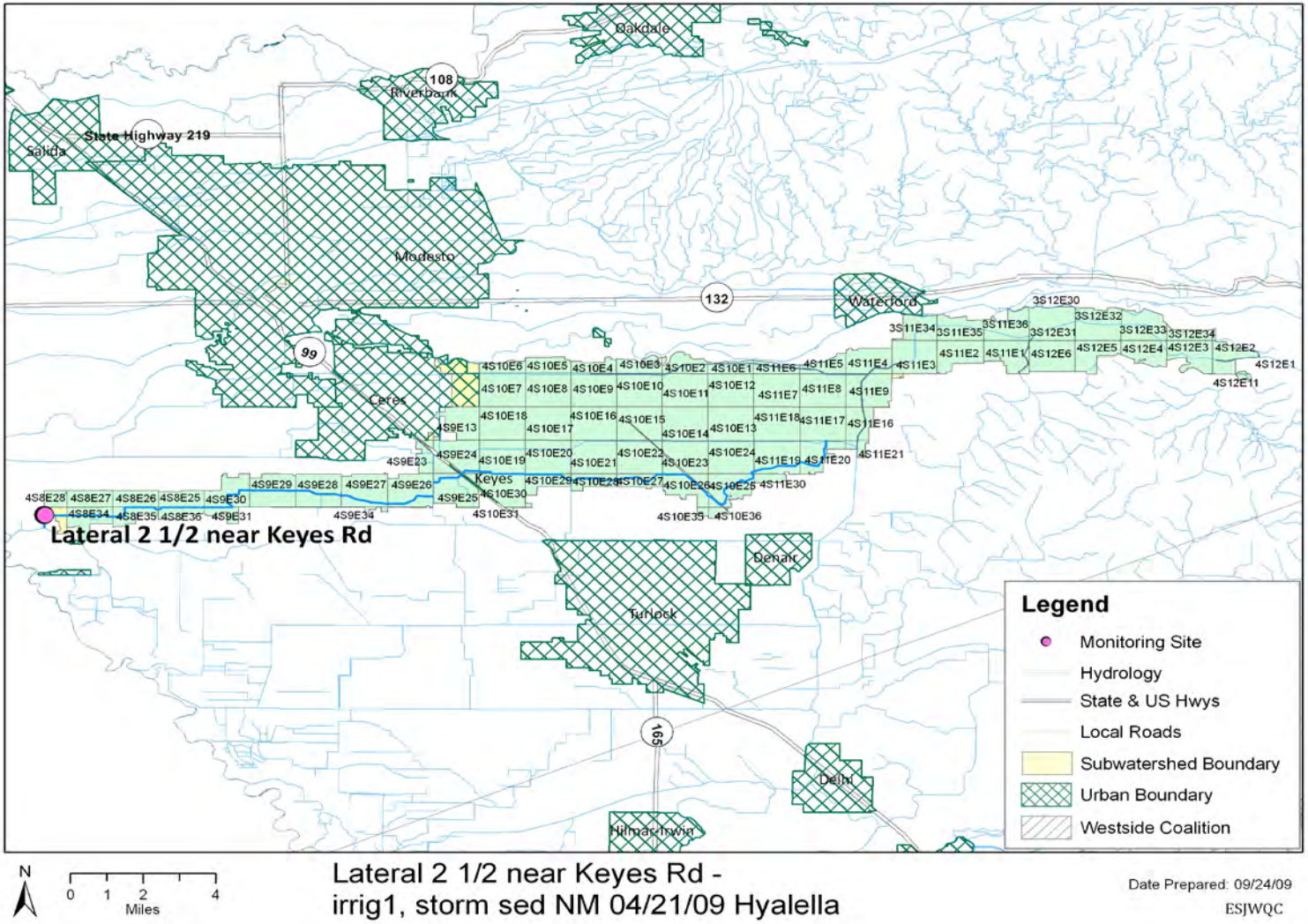
Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
APPLE	4/12/2009	LAMBDA-CY EC INSECTICIDE-RUP	LAMBDA-CYHALOTHRIN	G	370	OZ	74	4S9E30	INSECTICIDE
PEACH PROCESSNG	4/13/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	204	OZ	17	4S11E3	FUNGICIDE
WALNUT	4/13/2009	KENTAN DF	COPPER HYDROXIDE	G	20	LB	2.5	4S10E13	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	4/13/2009	ADAMENT 50 WG FUNGICIDE	TRIFLOXYSTROBIN	G	56	OZ	14	4S10E16	FUNGICIDE
PEACH	4/13/2009	ADAMENT 50 WG FUNGICIDE	TRIFLOXYSTROBIN	G	2	OZ	0.5	4S10E16	FUNGICIDE
PEACH PROCESSNG	4/13/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	60	OZ	5	4S11E17	FUNGICIDE
PEACH	4/13/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	384	OZ	32	4S11E19	FUNGICIDE
ALMOND	4/13/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	31.5	GA	63	4S11E19	HERBICIDE
OP-DEC. TREE	4/13/2009	DECATHLON 20WP GREENHOUSE AND NURSERY INSECTICIDE	CYFLUTHRIN	G	2250	GR	30	3S12E33	INSECTICIDE
CHERRY	4/13/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	473.6	OZ	37	4S9E35	FUNGICIDE
ALMOND	4/14/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	10	QT	10	4S10E8	HERBICIDE
WALNUT	4/14/2009	DUPONT MANEX FUNGICIDE	MANEB	G	6.8	GA	15	4S10E10	FUNGICIDE
WALNUT	4/14/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	90	LB	15	4S10E10	FUNGICIDE, ALGAECIDE
WALNUT	4/14/2009	DUPONT MANEX FUNGICIDE	MANEB	G	15.86	GA	35	4S10E11	FUNGICIDE
WALNUT	4/14/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	210	LB	35	4S10E11	FUNGICIDE, ALGAECIDE
PEACH	4/14/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	96	OZ	8	4S11E17	FUNGICIDE
PISTACHIO	4/14/2009	TOPSIN M 70WDG	THIOPHANATE-METHYL	G	30	LB	20	4S8E25	FUNGICIDE
APPLE	4/15/2009	DANITOL 2.4 EC SPRAY	FENPROPATHRIN	G	340	OZ	17	4S10E2	INSECTICIDE, MITICIDE
APPLE	4/15/2009	DANITOL 2.4 EC SPRAY	FENPROPATHRIN	G	360	OZ	18	4S10E2	INSECTICIDE, MITICIDE
OP-VINE	4/15/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	3934.28	GR	0.08	4S10E8	FUNGICIDE, ALGAECIDE
WALNUT	4/15/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	20	QT	9	4S10E15	FUNGICIDE, ALGAECIDE
WALNUT	4/15/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	66	QT	29	4S10E15	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
CORN FOR/FOD	4/16/2009	WARHAWK	CHLORPYRIFOS	G	56.6	PT	28.3	4S11E3	INSECTICIDE, FUNGICIDE, MITICIDE
PEACH PROCESSNG	4/16/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	1.88	GA	7.5	4S10E7	HERBICIDE
N-GRNHS PLANT	4/16/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	2950.71	GR	0.1	4S10E8	FUNGICIDE, ALGAECIDE
CORN FOR/FOD	4/16/2009	WARHAWK	CHLORPYRIFOS	G	222.2	PT	111.1	4S11E9	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	4/16/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	1.2	GA	3.68	4S10E11	HERBICIDE
WALNUT	4/16/2009	MANEX	MANEB	G	40.75	QT	22	4S10E13	FUNGICIDE
WALNUT	4/16/2009	HYDROX	COPPER HYDROXIDE	G	180	LB	22	4S10E13	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	4/16/2009	PRISTINE FUNGICIDE	PYRACLOSTROBIN	G	492	OZ	41	4S11E18	FUNGICIDE
ALMOND	4/17/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	37.5	GA	37.5	4S12E2	HERBICIDE
ALMOND	4/17/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	37.5	GA	37.5	4S12E3	HERBICIDE
WALNUT	4/17/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	24	PT	8	4S10E13	HERBICIDE
ALMOND	4/17/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	6	PT	3	4S10E13	HERBICIDE
ALMOND	4/17/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	8	PT	4	4S10E13	HERBICIDE
ALMOND	4/17/2009	GEM 500 SC FUNGICIDE	TRIFLOXYSTROBIN	G	296	OZ	185	4S9E35	FUNGICIDE
N-GRNHS PLANT	4/18/2009	DUPONT VENDEX 50WP MITICIDE	FENBUTATIN-OXIDE	G	300	GR	0.7	4S10E8	INSECTICIDE, MITICIDE
N-GRNHS PLANT	4/18/2009	DUPONT VENDEX 50WP MITICIDE	FENBUTATIN-OXIDE	G	450	GR	1	4S10E8	INSECTICIDE, MITICIDE
WALNUT	4/19/2009	KENTAN DF	COPPER HYDROXIDE	G	560	LB	70	4S10E11	FUNGICIDE, ALGAECIDE
GRAPE, WINE	4/19/2009	DUPONT GX-569 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	22.1	LB	17	4S9E28	FUNGICIDE, ALGAECIDE
WALNUT	4/20/2009	DUPONT MANEX FUNGICIDE	MANEB	G	6.8	GA	15	4S10E10	FUNGICIDE
WALNUT	4/20/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	90	LB	15	4S10E10	FUNGICIDE, ALGAECIDE
WALNUT	4/20/2009	DUPONT MANEX FUNGICIDE	MANEB	G	15.86	GA	35	4S10E11	FUNGICIDE
WALNUT	4/20/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	210	LB	35	4S10E11	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
N-GRNHS PLANT	4/21/2009	3336 WP TURF	THIOPHANATE-METHYL	G	681	GR	0.05	4S10E8	FUNGICIDE
WALNUT	4/21/2009	KENTAN DF	COPPER HYDROXIDE	G	256	LB	32	4S10E16	FUNGICIDE, ALGAECIDE
WALNUT	4/21/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	25	LB	25	4S9E25	FUNGICIDE, ALGAECIDE

Adminsitrative Record
Page 17306

Figure 12. Location of pesticide use associated with *Hyalella azteca* toxicity for Lateral 2 ½ near Keyes Rd– Irrigation 1 – Storm Sediment, NM.



Adminsitrative Record
Page 17307

Table 12. Irrigation 2 (5/19/09) – *Selenastrum capricornutum* toxicity.

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	2/24/2009	CHAMP WG	COPPER HYDROXIDE	G	80	LB	40	4S11E7	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	2/24/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	6884.99	GR	0.48	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	18	QT	18	4S10E9	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	20	QT	20	4S10E9	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	CHAMP WG	COPPER HYDROXIDE	G	124	LB	62	4S11E9	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	58	LB	29	4S10E15	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	NU-COP 50DF	COPPER HYDROXIDE	G	19	LB	19	4S11E18	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	NU-COP 50DF	COPPER HYDROXIDE	G	40	LB	20	4S10E28	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	A	76	LB	38	4S9E29	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	40	LB	10	4S10E29	FUNGICIDE, ALGAECIDE
ALMOND	2/24/2009	CHAMP WG	COPPER HYDROXIDE	G	80	LB	40	3S11E34	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	158	LB	79	4S11E2	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	27.5	LB	22	4S11E3	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	47.5	LB	38	4S11E4	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	DUPONT KOCIDE DF FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	1.5	LB	1.5	4S10E4	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	7.5	LB	10	4S10E5	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	7.5	LB	8	4S10E6	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMP WG	COPPER HYDROXIDE	G	28	LB	14	4S11E7	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	60	LB	30	4S11E8	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	2/25/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	6884.99	GR	0.56	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	4	QT	4	4S10E11	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMP WG	COPPER HYDROXIDE	G	50	LB	25	4S10E11	FUNGICIDE, ALGAECIDE

Adminsitrative Record
Page 17308

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	2/25/2009	CHAMP WG	COPPER HYDROXIDE	G	160	LB	80	4S10E11	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	6	QT	6	4S10E12	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	18	LB	9	4S10E15	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	32	LB	8	4S11E17	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	17	QT	17	4S10E17	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	19.98	LB	8.5	4S10E21	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	NU-COP 50 WP	COPPER HYDROXIDE	G	40	LB	20	4S10E24	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	36	QT	18	4S11E30	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	25	LB	20	3S12E33	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	92	LB	46	3S11E34	FUNGICIDE, ALGAECIDE
ALMOND	2/25/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	54	LB	27	3S11E36	FUNGICIDE, ALGAECIDE
ALMOND	2/26/2009	NU-COP 50DF	COPPER HYDROXIDE	G	30	LB	30	4S11E1	FUNGICIDE, ALGAECIDE
ALMOND	2/26/2009	NU-COP 50DF	COPPER HYDROXIDE	G	12.5	LB	12.5	4S12E5	FUNGICIDE, ALGAECIDE
ALMOND	2/26/2009	NU-COP 50DF	COPPER HYDROXIDE	G	20	LB	20	4S12E5	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	2/26/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	8852.13	GR	0.64	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	2/26/2009	CHAMP WG	COPPER HYDROXIDE	G	116	LB	58	4S11E8	FUNGICIDE, ALGAECIDE
ALMOND	2/26/2009	CHAMP WG	COPPER HYDROXIDE	G	40	LB	20	4S10E11	FUNGICIDE, ALGAECIDE
ALMOND	2/26/2009	DUPONT KOCIDE DF FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	18.5	LB	18.5	4S10E17	FUNGICIDE, ALGAECIDE
ALMOND	2/26/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	26	LB	26	4S9E23	FUNGICIDE, ALGAECIDE
ALMOND	2/26/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	15	LB	14	4S9E25	FUNGICIDE, ALGAECIDE
ALMOND	2/26/2009	CHAMP WG	COPPER HYDROXIDE	G	36	LB	18	4S10E27	FUNGICIDE, ALGAECIDE
ALMOND	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	19.98	LB	8.5	4S10E5	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	20	LB	19	4S10E7	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	A	18	LB	9	4S11E7	FUNGICIDE, ALGAECIDE
ALMOND	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	40	LB	20	4S11E17	FUNGICIDE, ALGAECIDE
ALMOND	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	70	LB	35	4S11E17	FUNGICIDE, ALGAECIDE
ALMOND	2/27/2009	KOCIDE DF	COPPER HYDROXIDE	G	10.5	LB	10.5	4S11E17	FUNGICIDE, ALGAECIDE
ALMOND	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	59.94	LB	18	4S10E21	FUNGICIDE, ALGAECIDE
ALMOND	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	40	LB	20	3S11E35	FUNGICIDE, ALGAECIDE
ALMOND	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	70	LB	35	3S11E35	FUNGICIDE, ALGAECIDE
ALMOND	2/27/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	80	LB	40	3S11E36	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	126	LB	63	4S11E4	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	54	LB	27	4S11E4	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	11	LB	5.5	4S10E7	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	89	LB	44.5	4S10E7	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	4	LB	2	4S10E7	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	9	LB	4.5	4S10E7	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	12	LB	6	4S10E7	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	38	LB	19	4S10E7	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	14	LB	7	4S10E7	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	16	LB	8	4S10E7	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	60	LB	19	4S10E11	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	2/28/2009	KOCIDE 2000	COPPER HYDROXIDE	G	67.2	LB	33.58	4S10E12	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	40	LB	10	4S10E17	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	2/28/2009	HYDROX	COPPER HYDROXIDE	G	5	LB	9	4S11E19	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	34	QT	17	4S11E19	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	2/28/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	10	QT	10	4S11E20	FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	BASIC COPPER 53	COPPER SULFATE (BASIC)	G	145	LB	29	4S10E20	INSECTICIDE, FUNGICIDE, ALGAECIDE
ALMOND	2/28/2009	DUPONT KOCIDE DF FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	6	LB	10	4S10E26	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	3/2/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	3934.28	GR	0.42	4S10E8	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	3/3/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	6884.99	GR	0.53	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	3/4/2009	NU-COP 50DF	COPPER HYDROXIDE	G	132	LB	132	4S11E1	FUNGICIDE, ALGAECIDE
ALMOND	3/4/2009	NU-COP 50DF	COPPER HYDROXIDE	G	20	LB	20	4S11E1	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	3/4/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	5901.42	GR	0.45	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	3/4/2009	KOCIDE DF	COPPER HYDROXIDE	G	10	LB	10	4S10E22	FUNGICIDE, ALGAECIDE
ALMOND	3/4/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	1	QT	1	4S10E27	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	3/5/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	6884.99	GR	0.4	4S10E8	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	3/6/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	5901.42	GR	0.37	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	3/6/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	6	LB	8	4S11E30	FUNGICIDE, ALGAECIDE
ALMOND	3/7/2009	NU-COP 50DF	COPPER HYDROXIDE	G	60	LB	60	4S11E1	FUNGICIDE, ALGAECIDE
ALMOND	3/7/2009	NU-COP 50DF	COPPER HYDROXIDE	G	25	LB	25	4S12E5	FUNGICIDE, ALGAECIDE
ALMOND	3/7/2009	NU-COP 50DF	COPPER HYDROXIDE	G	40	LB	40	4S12E5	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	3/9/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	8852.13	GR	0.82	4S10E8	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	3/10/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	2950.71	GR	0.13	4S10E8	FUNGICIDE, ALGAECIDE
GRAPE, WINE	3/12/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	16	LB	8	4S10E26	FUNGICIDE, ALGAECIDE
ALMOND	3/13/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	25	LB	25	4S9E23	FUNGICIDE, ALGAECIDE
ALMOND	3/13/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	15	LB	15	4S9E25	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	3/20/2009	NU-COP 50DF	COPPER HYDROXIDE	G	17	LB	17	4S11E19	FUNGICIDE, ALGAECIDE
WALNUT	3/20/2009	NU-COP 50DF	COPPER HYDROXIDE	G	120	LB	20	3S12E30	FUNGICIDE, ALGAECIDE
WALNUT	3/20/2009	NU-COP 50DF	COPPER HYDROXIDE	G	150	LB	15	3S11E36	FUNGICIDE, ALGAECIDE
WALNUT	3/26/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	175	LB	35	4S9E34	FUNGICIDE, ALGAECIDE
WALNUT	4/2/2009	NU-COP 50DF	COPPER HYDROXIDE	G	400	LB	50	3S12E30	FUNGICIDE, ALGAECIDE
WALNUT	4/2/2009	NU-COP 50DF	COPPER HYDROXIDE	G	480	LB	60	3S12E32	FUNGICIDE, ALGAECIDE
WALNUT	4/2/2009	NU-COP 50 WP	COPPER HYDROXIDE	G	500	LB	50	3S12E33	FUNGICIDE, ALGAECIDE
WALNUT	4/2/2009	NU-COP 50DF	COPPER HYDROXIDE	G	320	LB	40	3S11E36	FUNGICIDE, ALGAECIDE
WALNUT	4/2/2009	NU-COP 50DF	COPPER HYDROXIDE	G	80	LB	10	3S11E36	FUNGICIDE, ALGAECIDE
WALNUT	4/3/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	90	LB	15	4S10E10	FUNGICIDE, ALGAECIDE
WALNUT	4/3/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	210	LB	35	4S10E11	FUNGICIDE, ALGAECIDE
WALNUT	4/3/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	19	GA	38	4S10E24	FUNGICIDE, ALGAECIDE
WALNUT	4/4/2009	KOCIDE 2000	COPPER HYDROXIDE	G	39	LB	6.5	4S10E8	FUNGICIDE, ALGAECIDE
WALNUT	4/4/2009	KOCIDE 2000	COPPER HYDROXIDE	G	108	LB	18	4S10E8	FUNGICIDE, ALGAECIDE
WALNUT	4/4/2009	KOCIDE 2000	COPPER HYDROXIDE	G	84	LB	14	4S10E17	FUNGICIDE, ALGAECIDE
WALNUT	4/4/2009	KOCIDE 2000	COPPER HYDROXIDE	G	30	LB	5	4S10E18	FUNGICIDE, ALGAECIDE
WALNUT	4/4/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	60	LB	10	4S8E26	FUNGICIDE, ALGAECIDE
WALNUT	4/4/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	72	LB	12	4S8E35	FUNGICIDE, ALGAECIDE
WALNUT	4/5/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	120	QT	60	4S10E3	FUNGICIDE, ALGAECIDE
WALNUT	4/5/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	48	QT	24	4S10E3	FUNGICIDE, ALGAECIDE
WALNUT	4/5/2009	HYDROX	COPPER HYDROXIDE	G	42	LB	7	4S10E9	FUNGICIDE, ALGAECIDE
WALNUT	4/5/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	48	PT	8	4S10E10	FUNGICIDE, ALGAECIDE
WALNUT	4/5/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	60	PT	10	4S11E19	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
WALNUT	4/5/2009	KOCIDE 2000	COPPER HYDROXIDE	G	1080	LB	135	4S8E27	FUNGICIDE, ALGAECIDE
WALNUT	4/5/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	1.75	GA	2.33	3S12E34	FUNGICIDE, ALGAECIDE
WALNUT	4/5/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	5	GA	6.66	3S12E34	FUNGICIDE, ALGAECIDE
WALNUT	4/5/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	4.66	GA	6.21	3S12E34	FUNGICIDE, ALGAECIDE
WALNUT	4/5/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	1.68	GA	2.24	3S12E34	FUNGICIDE, ALGAECIDE
WALNUT	4/6/2009	KENTAN DF	COPPER HYDROXIDE	G	256	LB	32	4S10E16	FUNGICIDE, ALGAECIDE
WALNUT	4/6/2009	KENTAN DF	COPPER HYDROXIDE	G	360	LB	45	4S10E16	FUNGICIDE, ALGAECIDE
WALNUT	4/6/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	400	LB	80	3S12E31	FUNGICIDE, ALGAECIDE
WALNUT	4/6/2009	DUPONT KOCIDE DF FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	240	LB	30	3S11E36	FUNGICIDE, ALGAECIDE
GRAPE, WINE	4/7/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	1	PT	40	4S9E34	FUNGICIDE, ALGAECIDE
GRAPE, WINE	4/7/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	40	PT	40	4S9E34	FUNGICIDE, ALGAECIDE
WALNUT	4/8/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	40	LB	8	4S9E29	FUNGICIDE, ALGAECIDE
GRAPE, WINE	4/8/2009	NU-COP 50DF	COPPER HYDROXIDE	G	62	LB	31	4S10E31	FUNGICIDE, ALGAECIDE
GRAPE, WINE	4/8/2009	NU-COP 50DF	COPPER HYDROXIDE	G	21	LB	10.5	4S10E31	FUNGICIDE, ALGAECIDE
WALNUT	4/9/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	144	LB	18	4S11E20	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	4/10/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	4917.85	GR	0.69	4S10E8	FUNGICIDE, ALGAECIDE
WALNUT	4/10/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	60	QT	20	4S11E17	FUNGICIDE, ALGAECIDE
WALNUT	4/10/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	15	QT	5	4S11E17	FUNGICIDE, ALGAECIDE
WALNUT	4/10/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	100	LB	20	4S9E34	FUNGICIDE, ALGAECIDE
WALNUT	4/10/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	45	QT	15	3S11E35	FUNGICIDE, ALGAECIDE
WALNUT	4/10/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	60	QT	20	3S11E36	FUNGICIDE, ALGAECIDE
WALNUT	4/10/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	75	QT	25	3S11E36	FUNGICIDE, ALGAECIDE
WALNUT	4/10/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	168	QT	56	3S11E36	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
WALNUT	4/10/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	48	LB	12	3S11E36	FUNGICIDE, ALGAECIDE
WALNUT	4/10/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	40	LB	10	3S11E36	FUNGICIDE, ALGAECIDE
WALNUT	4/13/2009	KENTAN DF	COPPER HYDROXIDE	G	20	LB	2.5	4S10E13	FUNGICIDE, ALGAECIDE
WALNUT	4/14/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	90	LB	15	4S10E10	FUNGICIDE, ALGAECIDE
WALNUT	4/14/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	210	LB	35	4S10E11	FUNGICIDE, ALGAECIDE
OP-VINE	4/15/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	3934.28	GR	0.08	4S10E8	FUNGICIDE, ALGAECIDE
WALNUT	4/15/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	20	QT	9	4S10E15	FUNGICIDE, ALGAECIDE
WALNUT	4/15/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	66	QT	29	4S10E15	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	4/16/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	2950.71	GR	0.1	4S10E8	FUNGICIDE, ALGAECIDE
WALNUT	4/16/2009	HYDROX	COPPER HYDROXIDE	G	180	LB	22	4S10E13	FUNGICIDE, ALGAECIDE
WALNUT	4/19/2009	KENTAN DF	COPPER HYDROXIDE	G	560	LB	70	4S10E11	FUNGICIDE, ALGAECIDE
GRAPE, WINE	4/19/2009	DUPONT GX-569 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	22.1	LB	17	4S9E28	FUNGICIDE, ALGAECIDE
WALNUT	4/20/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	90	LB	15	4S10E10	FUNGICIDE, ALGAECIDE
WALNUT	4/20/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	210	LB	35	4S10E11	FUNGICIDE, ALGAECIDE
ALMOND	4/21/2009	ROUNDUP WEATHERMAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	8	QT	8	4S10E1	HERBICIDE
PEACH PROCESSNG	4/21/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	720	OZ	24	4S10E6	HERBICIDE
WALNUT	4/21/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	360	OZ	12	4S10E7	HERBICIDE
CHERRY	4/21/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	112	OZ	3.5	4S10E9	HERBICIDE
CHERRY	4/21/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	80	OZ	2.5	4S10E9	HERBICIDE
CHERRY	4/21/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	24	OZ	0.75	4S10E9	HERBICIDE
CHERRY	4/21/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	64	OZ	2	4S10E9	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
CHERRY	4/21/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	48	OZ	1.5	4S10E9	HERBICIDE
PEACH PROCESSNG	4/21/2009	TENKOZ BUCCANEER PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	8	QT	10	4S10E16	HERBICIDE
ALMOND	4/21/2009	GLYFOS X-TRA HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	3.64	QT	3.64	4S11E16	HERBICIDE
ALMOND	4/21/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	3.64	QT	3.64	4S11E16	HERBICIDE
ALMOND	4/21/2009	ROUNDUP ULTRAMAX HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	192	OZ	6	4S11E17	HERBICIDE
WALNUT	4/21/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	21.26	PT	10.63	4S11E19	HERBICIDE
WALNUT	4/21/2009	GOAL 2XL	OXYFLUORFEN	G	127.56	OZ	10.63	4S11E19	HERBICIDE
ALMOND	4/21/2009	GOAL 2XL	OXYFLUORFEN	G	90	OZ	15	4S11E20	HERBICIDE
ALMOND	4/21/2009	STRIKEOUT EXTRA	GLYPHOSATE, ISOPROPYLAMINE SALT	G	30	QT	15	4S11E20	HERBICIDE
ALMOND	4/21/2009	BUCCANEER GLYPHOSATE HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	7.7	GA	30	4S9E25	HERBICIDE
ALMOND	4/21/2009	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	G	2.5	GA	30	4S9E25	HERBICIDE
ALMOND	4/21/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	1792	OZ	11	4S10E27	HERBICIDE
ALMOND	4/21/2009	GOAL 2XL	OXYFLUORFEN	G	224	OZ	11	4S10E27	HERBICIDE
ALMOND	4/21/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	1.75	GA	7	4S9E29	HERBICIDE
ALMOND	4/21/2009	BUCCANEER PLUS GLYPHOSATE HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	21	PT	7	4S9E29	HERBICIDE
WALNUT	4/21/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	0.73	GA	2.33	3S12E34	HERBICIDE
WALNUT	4/21/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	2.08	GA	6.66	3S12E34	HERBICIDE
APRICOT	4/21/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	0.01	GA	0.04	3S12E34	HERBICIDE
NECTARINE	4/21/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	0.07	GA	0.22	3S12E34	HERBICIDE
PEACH	4/21/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	0.11	GA	0.36	3S12E34	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
PLUM	4/21/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	0.04	GA	0.12	3S12E34	HERBICIDE
WALNUT	4/21/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	1.94	GA	6.21	3S12E34	HERBICIDE
WALNUT	4/21/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	0.7	GA	2.24	3S12E34	HERBICIDE
GRAPE	4/21/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	0.04	GA	0.14	3S12E34	HERBICIDE
CHERRY	4/21/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	0.44	GA	1.41	3S12E34	HERBICIDE
ALMOND	4/21/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	35.05	PT	23	4S9E34	HERBICIDE
ALMOND	4/21/2009	GOAL 2XL	OXYFLUORFEN	G	17.52	PT	23	4S9E34	HERBICIDE
ALMOND	4/21/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	35.05	PT	23	4S9E34	HERBICIDE
ALMOND	4/21/2009	GOAL 2XL	OXYFLUORFEN	G	17.52	PT	23	4S9E34	HERBICIDE
WALNUT	4/21/2009	KENTAN DF	COPPER HYDROXIDE	G	256	LB	32	4S10E16	FUNGICIDE, ALGAECIDE
WALNUT	4/21/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	25	LB	25	4S9E25	FUNGICIDE, ALGAECIDE
ALMOND	4/22/2009	PRINCEP 4L	SIMAZINE	G	84.99	PT	61	4S11E8	HERBICIDE, ALGAECIDE
ALMOND	4/22/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	113.33	PT	61	4S11E8	HERBICIDE
ALMOND	4/22/2009	ORCHARDMASTER CA BROADLEAF HERBICIDE	2,4-D, DIMETHYLAMINE SALT	G	56.64	PT	61	4S11E8	HERBICIDE
N-GRNHS PLANT	4/22/2009	ORYZALIN 4 A.S.	ORYZALIN	G	1888	ML	0.64	4S10E8	HERBICIDE
OP-VINE	4/22/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	1888	ML	0.59	4S10E8	HERBICIDE
ALMOND	4/22/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	67.5	PT	45	4S12E11	HERBICIDE
ALMOND	4/22/2009	AMINE 4 2,4-D WEED KILLER	2,4-D, DIMETHYLAMINE SALT	G	67.5	PT	45	4S12E11	HERBICIDE
WALNUT	4/22/2009	KENTAN DF	COPPER HYDROXIDE	G	360	LB	45	4S10E16	FUNGICIDE, ALGAECIDE
ALMOND	4/22/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	2304	OZ	45	4S10E22	HERBICIDE
ALMOND	4/22/2009	GOAL 2XL	OXYFLUORFEN	G	288	OZ	45	4S10E22	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	4/22/2009	GOAL 2XL	OXYFLUORFEN	G	192	OZ	24	4S10E24	HERBICIDE
ALMOND	4/22/2009	SAVAGE CA	2,4-D, DIMETHYLAMINE SALT	G	6.75	LB	4.5	4S8E27	HERBICIDE
ALMOND	4/22/2009	SURFLAN A.S. AGRICULTURAL HERBICIDE	ORYZALIN	G	22.5	PT	4.5	4S8E27	HERBICIDE
ALMOND	4/22/2009	VEGETATION MANAGER GLYPHOSATE 4	GLYPHOSATE, ISOPROPYLAMINE SALT	G	9	PT	4.5	4S8E27	HERBICIDE
WALNUT	4/22/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	50	PT	20	4S11E30	HERBICIDE
GRAPE, WINE	4/22/2009	NU-COP 50DF	COPPER HYDROXIDE	G	62	LB	31	4S10E31	FUNGICIDE, ALGAECIDE
GRAPE, WINE	4/22/2009	NU-COP 50DF	COPPER HYDROXIDE	G	315	OZ	10.5	4S10E31	FUNGICIDE, ALGAECIDE
ALMOND	4/23/2009	ROUNDUP WEATHERMAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	12	PT	12	4S10E6	HERBICIDE
ALMOND	4/23/2009	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	G	38.9	OZ	12	4S10E6	HERBICIDE
N-GRNHS PLANT	4/23/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	1967.14	GR	0.16	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	4/23/2009	SURFLAN A.S. AGRICULTURAL HERBICIDE	ORYZALIN	G	550	OZ	43	4S10E15	HERBICIDE
ALMOND	4/23/2009	VEGETATION MANAGER GLYPHOSATE 4	GLYPHOSATE, ISOPROPYLAMINE SALT	G	21.5	GA	43	4S10E15	HERBICIDE
ALMOND	4/23/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	13.1	PT	6.55	4S10E25	HERBICIDE
ALMOND	4/23/2009	GOAL 2XL	OXYFLUORFEN	G	78.6	OZ	6.55	4S10E25	HERBICIDE
ALMOND	4/23/2009	GOAL 2XL	OXYFLUORFEN	G	28	OZ	2	4S9E26	HERBICIDE
ALMOND	4/23/2009	VEGETATION MANAGER GLYPHOSATE 4	GLYPHOSATE, ISOPROPYLAMINE SALT	G	2	QT	2	4S9E26	HERBICIDE
ALMOND	4/23/2009	SAVAGE CA	2,4-D, DIMETHYLAMINE SALT	G	7.5	LB	5	4S8E27	HERBICIDE
ALMOND	4/23/2009	SURFLAN A.S. AGRICULTURAL HERBICIDE	ORYZALIN	G	25	PT	5	4S8E27	HERBICIDE
ALMOND	4/23/2009	VEGETATION MANAGER GLYPHOSATE 4	GLYPHOSATE, ISOPROPYLAMINE SALT	G	12.5	PT	5	4S8E27	HERBICIDE
WALNUT	4/23/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	1.66	GA	5.32	4S10E27	HERBICIDE
WALNUT	4/23/2009	PROWL H2O HERBICIDE	PENDIMETHALIN	G	2.66	GA	5.32	4S10E27	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	4/23/2009	MON-52249 HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	10	QT	10	4S10E29	HERBICIDE
ALMOND	4/23/2009	2, 4-D AMINE 4 HERBICIDE	2,4-D, DIMETHYLAMINE SALT	G	10	QT	10	4S10E29	HERBICIDE
WALNUT	4/23/2009	DUPONT MANEX FUNGICIDE	MANEB	G	2900	OZ	50	3S12E33	FUNGICIDE
WALNUT	4/23/2009	NU-COP 50 WP	COPPER HYDROXIDE	G	500	LB	50	3S12E33	FUNGICIDE, ALGAECIDE
ALMOND	4/24/2009	SOLICAM DF HERBICIDE	NORFLURAZON	G	10	LB	25	4S12E5	HERBICIDE
ALMOND	4/24/2009	TOUCHDOWN TOTAL	GLYPHOSATE	G	320	OZ	25	4S12E5	HERBICIDE
ALMOND	4/24/2009	DREXEL SIMAZINE 4L	SIMAZINE	G	160	OZ	25	4S12E5	HERBICIDE, ALGAECIDE
ALMOND	4/24/2009	AMINE 4 2,4-D WEED KILLER	2,4-D, DIMETHYLAMINE SALT	G	480	OZ	25	4S12E5	HERBICIDE
ALMOND	4/24/2009	SOLICAM DF HERBICIDE	NORFLURAZON	G	16	LB	40	4S12E5	HERBICIDE
ALMOND	4/24/2009	TOUCHDOWN TOTAL	GLYPHOSATE	G	512	OZ	40	4S12E5	HERBICIDE
ALMOND	4/24/2009	DREXEL SIMAZINE 4L	SIMAZINE	G	256	OZ	40	4S12E5	HERBICIDE, ALGAECIDE
ALMOND	4/24/2009	AMINE 4 2,4-D WEED KILLER	2,4-D, DIMETHYLAMINE SALT	G	768	OZ	40	4S12E5	HERBICIDE
ALMOND	4/24/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	121.9	GA	304.76	4S12E6	HERBICIDE
ALMOND	4/24/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	114.29	GA	304.76	4S12E6	HERBICIDE
N-GRNHS PLANT	4/24/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	1967.14	GR	0.13	4S10E8	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	4/24/2009	ORYZALIN 4 A.S.	ORYZALIN	G	1888	ML	0.74	4S10E8	HERBICIDE
N-GRNHS PLANT	4/24/2009	ADEPT GREENHOUSE INSECT GROWTH REGULATOR	DIFLUBENZURON	G	14	GR	0.02	4S10E8	INSECTICIDE, ALGAECIDE
ALMOND	4/24/2009	GLYFOS X-TRA HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	2.5	GA	10	4S10E13	HERBICIDE
ALMOND	4/24/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	2.5	GA	10	4S10E13	HERBICIDE
ALMOND	4/24/2009	GLYFOS X-TRA HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	5	QT	5	4S10E18	HERBICIDE
ALMOND	4/24/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	5	QT	5	4S10E18	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	4/24/2009	GOAL 2XL	OXYFLUORFEN	G	2.5	PT	5	4S10E18	HERBICIDE
ALMOND	4/24/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	4.66	PT	2.33	4S10E25	HERBICIDE
ALMOND	4/24/2009	GOAL 2XL	OXYFLUORFEN	G	27.96	OZ	2.33	4S10E25	HERBICIDE
WALNUT	4/24/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	85	LB	17	4S9E28	FUNGICIDE, ALGAECIDE
ALMOND	4/24/2009	MON-52249 HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	5	QT	5	4S10E29	HERBICIDE
ALMOND	4/24/2009	2, 4-D AMINE 4 HERBICIDE	2,4-D, DIMETHYLAMINE SALT	G	5	QT	5	4S10E29	HERBICIDE
WALNUT	4/24/2009	DUPONT MANEX FUNGICIDE	MANEB	G	40.78	GA	90	3S12E31	FUNGICIDE
WALNUT	4/24/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	450	LB	90	3S12E31	FUNGICIDE, ALGAECIDE
ALMOND	4/24/2009	GLYFOS X-TRA HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	576	OZ	18	4S10E35	HERBICIDE
ALMOND	4/24/2009	AMINE 4 2,4-D WEED KILLER	2,4-D, DIMETHYLAMINE SALT	G	864	OZ	18	4S10E35	HERBICIDE
UNCUL NON-AG	4/24/2009	GLY-4 HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	12	GA	1	4S10E35	HERBICIDE
ALMOND	4/25/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	6	PT	2	4S11E7	HERBICIDE
ALMOND	4/25/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	39.47	PT	37	4S11E8	HERBICIDE
ALMOND	4/25/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	37	PT	37	4S11E8	HERBICIDE
ALMOND	4/25/2009	GOAL 2XL	OXYFLUORFEN	G	78.93	OZ	37	4S11E8	HERBICIDE
CHERRY	4/25/2009	GRAMOXONE EXTRA HERBICIDE	PARAQUAT DICHLORIDE	G	48.6	PT	18	4S10E11	HERBICIDE
ALMOND	4/25/2009	GLYFOS X-TRA HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	1.82	GA	3.64	4S11E16	HERBICIDE
ALMOND	4/25/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	0.91	GA	3.64	4S11E16	HERBICIDE
ALMOND	4/25/2009	TOUCHDOWN TOTAL	GLYPHOSATE	G	16.5	PT	22	4S10E20	HERBICIDE
ALMOND	4/25/2009	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	G	16.5	PT	22	4S10E20	HERBICIDE
ALMOND	4/25/2009	GLY STAR PLUS	GLYPHOSATE, ISOPROPYLAMINE SALT	G	10	GA	8	4S10E21	HERBICIDE

Adminsitrative Record
Page 17319

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	4/25/2009	GOAL 2XL	OXYFLUORFEN	G	32	OZ	8	4S10E21	HERBICIDE
ALMOND	4/25/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	19.64	QT	36	4S10E22	HERBICIDE
ALMOND	4/25/2009	GOAL 2XL	OXYFLUORFEN	G	11.64	OZ	4	4S10E22	HERBICIDE
ALMOND	4/25/2009	GOAL 2XL	OXYFLUORFEN	G	13.09	PT	36	4S10E22	HERBICIDE
ALMOND	4/25/2009	SURFLAN A.S. AGRICULTURAL HERBICIDE	ORYZALIN	G	2.91	QT	4	4S10E22	HERBICIDE
ALMOND	4/25/2009	SURFLAN A.S. AGRICULTURAL HERBICIDE	ORYZALIN	G	26.18	QT	36	4S10E22	HERBICIDE
CHERRY	4/25/2009	GRAMOXONE EXTRA HERBICIDE	PARAQUAT DICHLORIDE	G	64.8	PT	24	4S10E23	HERBICIDE
ALMOND	4/25/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	35	PT	14	4S9E25	HERBICIDE
ALMOND	4/25/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	35	PT	14	4S9E25	HERBICIDE
ALMOND	4/25/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	2.25	GA	6	4S10E28	HERBICIDE
ALMOND	4/25/2009	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	G	48	OZ	6	4S10E28	HERBICIDE
ALMOND	4/26/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	608	OZ	38	4S8E28	HERBICIDE
ALMOND	4/26/2009	PROWL H2O HERBICIDE	PENDIMETHALIN	G	608	OZ	38	4S8E28	HERBICIDE
ALMOND	4/26/2009	AMINE 4 2,4-D WEED KILLER	2,4-D, DIMETHYLAMINE SALT	G	608	OZ	38	4S8E28	HERBICIDE
ALMOND	4/26/2009	GOAL 2XL	OXYFLUORFEN	G	380	OZ	38	4S8E28	HERBICIDE
ALMOND	4/27/2009	SURFLAN A.S. AGRICULTURAL HERBICIDE	ORYZALIN	G	550	OZ	43	4S10E1	HERBICIDE
ALMOND	4/27/2009	VEGETATION MANAGER GLYPHOSATE 4	GLYPHOSATE, ISOPROPYLAMINE SALT	G	21.5	GA	43	4S10E1	HERBICIDE
ALMOND	4/27/2009	ROUNDUP WEATHERMAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	2	PT	2	4S10E7	HERBICIDE
ALMOND	4/27/2009	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	G	6.9	GA	2	4S10E7	HERBICIDE
WALNUT	4/27/2009	ROUNDUP WEATHERMAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	2	PT	2	4S10E7	HERBICIDE
WALNUT	4/27/2009	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	G	6.4	OZ	2	4S10E7	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	4/27/2009	HONCHO PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	21	QT	21	4S10E9	HERBICIDE
ALMOND	4/27/2009	GOAL 2XL HERBICIDE	OXYFLUORFEN	G	63	OZ	21	4S10E9	HERBICIDE
ALMOND	4/27/2009	PRINCEP 4L	SIMAZINE	G	2	QT	2	4S11E16	HERBICIDE, ALGAECIDE
ALMOND	4/27/2009	ROUNDUP ULTRAMAX HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	1	GA	2	4S11E16	HERBICIDE
ALMOND	4/27/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	40	PT	20	4S11E19	HERBICIDE
ALMOND	4/27/2009	GOAL 2XL	OXYFLUORFEN	G	240	OZ	20	4S11E19	HERBICIDE
ALMOND	4/27/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	99	GA	264	4S11E21	HERBICIDE
ALMOND	4/27/2009	GOAL 2XL	OXYFLUORFEN	G	16.5	GA	264	4S11E21	HERBICIDE
CHERRY	4/27/2009	GRAMOXONE EXTRA HERBICIDE	PARAQUAT DICHLORIDE	G	48.6	PT	18	4S10E27	HERBICIDE
ALMOND	4/27/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	50	GA	4.95	4S10E35	HERBICIDE
ALMOND	4/28/2009	ROUNDUP ULTRAMAX HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	576	OZ	18	4S11E3	HERBICIDE
ALMOND	4/28/2009	ALECTO 41 HL	GLYPHOSATE, ISOPROPYLAMINE SALT	G	24	PT	10	4S11E3	HERBICIDE
ALMOND	4/28/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	24	PT	10	4S11E3	HERBICIDE
WALNUT	4/28/2009	ROUNDUP WEATHERMAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	15	PT	15	4S10E6	HERBICIDE
WALNUT	4/28/2009	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	G	48	OZ	15	4S10E6	HERBICIDE
ALMOND	4/28/2009	HONCHO PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	18	QT	18	4S10E9	HERBICIDE
ALMOND	4/28/2009	GOAL 2XL HERBICIDE	OXYFLUORFEN	G	54	OZ	18	4S10E9	HERBICIDE
ALMOND	4/28/2009	GOAL 2XL	OXYFLUORFEN	G	304	OZ	38	4S11E9	HERBICIDE
ALMOND	4/28/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	38	QT	38	4S11E9	HERBICIDE
WALNUT	4/28/2009	GOAL 2XL	OXYFLUORFEN	G	32	OZ	4	4S11E9	HERBICIDE
WALNUT	4/28/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	4	QT	4	4S11E9	HERBICIDE
ALMOND	4/28/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	29.1	PT	14.55	4S10E25	HERBICIDE

Adminsitrative Record
Page 17321

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	4/28/2009	GOAL 2XL	OXYFLUORFEN	G	174.6	OZ	14.55	4S10E25	HERBICIDE
PEACH PROCESSNG	4/28/2009	BUCCANEER PLUS GLYPHOSATE HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	17.78	PT	10	4S9E34	HERBICIDE
ALMOND	4/29/2009	ROUNDUP ULTRAMAX HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	832	OZ	26	4S11E3	HERBICIDE
WALNUT	4/29/2009	KOCIDE 2000	COPPER HYDROXIDE	G	108	LB	18	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	4/29/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	13.64	PT	10	4S10E8	HERBICIDE
ALMOND	4/29/2009	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	G	36.36	OZ	10	4S10E8	HERBICIDE
ALMOND	4/29/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	6.82	PT	5	4S10E8	HERBICIDE
ALMOND	4/29/2009	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	G	18.18	OZ	5	4S10E8	HERBICIDE
N-GRNHS PLANT	4/29/2009	ADEPT GREENHOUSE INSECT GROWTH REGULATOR	DIFLUBENZURON	G	42	GR	0.05	4S10E8	INSECTICIDE, ALGAECIDE
OP-VINE	4/29/2009	QUALI-PRO ORYZALIN 4 PRO	ORYZALIN	G	958.75	ML	1.49	4S10E8	HERBICIDE
ALMOND	4/29/2009	HONCHO PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	4	QT	4	4S10E11	HERBICIDE
ALMOND	4/29/2009	GOAL 2XL HERBICIDE	OXYFLUORFEN	G	12	OZ	4	4S10E11	HERBICIDE
ALMOND	4/29/2009	GOAL 2XL	OXYFLUORFEN	G	200	OZ	25	4S10E11	HERBICIDE
ALMOND	4/29/2009	GOAL 2XL	OXYFLUORFEN	G	640	OZ	80	4S10E11	HERBICIDE
ALMOND	4/29/2009	HONCHO PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	8	QT	8	4S10E12	HERBICIDE
ALMOND	4/29/2009	GOAL 2XL HERBICIDE	OXYFLUORFEN	G	24	OZ	8	4S10E12	HERBICIDE
WALNUT	4/29/2009	KOCIDE 2000	COPPER HYDROXIDE	G	84	LB	14	4S10E17	FUNGICIDE, ALGAECIDE
KIWI	4/29/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	6	QT	8	4S10E17	HERBICIDE
WALNUT	4/29/2009	KOCIDE 2000	COPPER HYDROXIDE	G	39	LB	6.5	4S10E18	FUNGICIDE, ALGAECIDE
WALNUT	4/29/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	3	QT	1	4S11E20	HERBICIDE
WALNUT	4/29/2009	SIM-TROL 4L	SIMAZINE	G	1	QT	1	4S11E20	HERBICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
WALNUT	4/29/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	1	QT	1	4S11E20	HERBICIDE
ALMOND	4/29/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	302.88	OZ	18.5	4S10E20	HERBICIDE
ALMOND	4/29/2009	GOAL 2XL	OXYFLUORFEN	G	75.72	OZ	18.5	4S10E20	HERBICIDE
SWEET POTATO	4/29/2009	VAPAM HL SOIL FUMIGANT	METAM-SODIUM	F	1000	GA	20	4S10E21	INSECTICIDE, HERBICIDE, FUNGICIDE, NEMATICIDE
WALNUT	4/29/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	1.36	GA	4.36	4S9E23	HERBICIDE
WALNUT	4/29/2009	PROWL H2O HERBICIDE	PENDIMETHALIN	G	2.18	GA	4.36	4S9E23	HERBICIDE
ALMOND	4/29/2009	AMINE 4 2,4-D WEED KILLER	2,4-D, DIMETHYLAMINE SALT	G	8.93	PT	8	4S10E28	HERBICIDE
ALMOND	4/29/2009	GLY STAR PLUS	GLYPHOSATE, ISOPROPYLAMINE SALT	G	8.93	PT	8	4S10E28	HERBICIDE
ALMOND	4/29/2009	GOAL 2XL	OXYFLUORFEN	G	17.86	OZ	8	4S10E28	HERBICIDE
ALMOND	4/29/2009	AMINE 4 2,4-D WEED KILLER	2,4-D, DIMETHYLAMINE SALT	G	20.09	PT	18	4S10E28	HERBICIDE
ALMOND	4/29/2009	GLY STAR PLUS	GLYPHOSATE, ISOPROPYLAMINE SALT	G	20.09	PT	18	4S10E28	HERBICIDE
ALMOND	4/29/2009	GOAL 2XL	OXYFLUORFEN	G	40.19	OZ	18	4S10E28	HERBICIDE
ALMOND	4/29/2009	ORYZALIN 4 A.S.	ORYZALIN	G	53	GA	214	3S11E34	HERBICIDE
ALMOND	4/29/2009	GLYSUPREME PLUS	GLYPHOSATE, ISOPROPYLAMINE SALT	G	53	GA	214	3S11E34	HERBICIDE
WALNUT	4/30/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	496	LB	52	4S11E2	FUNGICIDE, ALGAECIDE
WALNUT	4/30/2009	ROUNDUP WEATHERMAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	480	OZ	12	4S10E3	HERBICIDE
GRAPE, WINE	4/30/2009	POAST	SETHOXYDIM	G	5.63	PT	15	4S10E3	HERBICIDE
WALNUT	4/30/2009	KENTAN DF	COPPER HYDROXIDE	G	160	LB	16	4S10E4	FUNGICIDE, ALGAECIDE
WALNUT	4/30/2009	KENTAN DF	COPPER HYDROXIDE	G	150	LB	15	4S10E6	FUNGICIDE, ALGAECIDE
WALNUT	4/30/2009	ROUNDUP WEATHERMAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	680	OZ	17	4S11E7	HERBICIDE
GRAPE, WINE	4/30/2009	DITHANE DF	MANCOZEB	G	21.6	LB	9	4S10E7	FUNGICIDE, ALGAECIDE
GRAPE, WINE	4/30/2009	DITHANE DF	MANCOZEB	G	9.6	LB	4	4S10E7	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
OP-VINE	4/30/2009	QUALI-PRO ORYZALIN 4 PRO	ORYZALIN	G	1106.25	ML	1.61	4S10E8	HERBICIDE
WALNUT	4/30/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	60	LB	15	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	4/30/2009	AMINE 4 2,4-D WEED KILLER	2,4-D, DIMETHYLAMINE SALT	G	545.45	OZ	25	4S10E12	HERBICIDE
ALMOND	4/30/2009	GLY STAR PLUS	GLYPHOSATE, ISOPROPYLAMINE SALT	G	545.45	OZ	25	4S10E12	HERBICIDE
ALMOND	4/30/2009	GOAL 2XL	OXYFLUORFEN	G	45.45	OZ	25	4S10E12	HERBICIDE
WALNUT	4/30/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	105	LB	13	4S9E13	FUNGICIDE, ALGAECIDE
ALMOND	4/30/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	90	GA	240	4S11E16	HERBICIDE
ALMOND	4/30/2009	GOAL 2XL	OXYFLUORFEN	G	15	GA	240	4S11E16	HERBICIDE
ALMOND	4/30/2009	HONCHO PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	17	QT	17	4S10E17	HERBICIDE
ALMOND	4/30/2009	GOAL 2XL HERBICIDE	OXYFLUORFEN	G	51	OZ	17	4S10E17	HERBICIDE
WALNUT	4/30/2009	KOCIDE 2000	COPPER HYDROXIDE	G	30	LB	5	4S10E18	FUNGICIDE, ALGAECIDE
ALMOND	4/30/2009	BUCCANEER PLUS GLYPHOSATE HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	13.06	PT	9	4S11E18	HERBICIDE
ALMOND	4/30/2009	GOAL 2XL	OXYFLUORFEN	G	43.55	OZ	9	4S11E18	HERBICIDE
WALNUT	4/30/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	9	QT	3	4S11E20	HERBICIDE
WALNUT	4/30/2009	SIM-TROL 4L	SIMAZINE	G	3	QT	3	4S11E20	HERBICIDE, ALGAECIDE
WALNUT	4/30/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	3	QT	3	4S11E20	HERBICIDE
WALNUT	4/30/2009	KENTAN DF	COPPER HYDROXIDE	G	96	LB	12	4S11E30	FUNGICIDE, ALGAECIDE
WALNUT	4/30/2009	DUPONT MANEX FUNGICIDE	MANEB	G	36.25	GA	80	3S12E31	FUNGICIDE
WALNUT	4/30/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	400	LB	80	3S12E31	FUNGICIDE, ALGAECIDE
ALMOND	4/30/2009	PARAZONE 3SL	PARAQUAT DICHLORIDE	G	1.88	GA	6	3S12E33	HERBICIDE
WALNUT	4/30/2009	DUPONT MANEX FUNGICIDE	MANEB	G	2900	OZ	50	3S12E33	FUNGICIDE
WALNUT	4/30/2009	NU-COP 50 WP	COPPER HYDROXIDE	G	500	LB	50	3S12E33	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	4/30/2009	GOAL 2XL	OXYFLUORFEN	G	24	PT	19	4S9E34	HERBICIDE
ALMOND	4/30/2009	VEGETATION MANAGER GLYPHOSATE 4	GLYPHOSATE, ISOPROPYLAMINE SALT	G	24	QT	19	4S9E34	HERBICIDE
PEACH PROCESSNG	4/30/2009	BUCCANEER PLUS GLYPHOSATE HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	37.33	PT	21	4S9E34	HERBICIDE
PEACH PROCESSNG	4/30/2009	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	G	9.33	OZ	21	4S9E34	HERBICIDE
ALMOND	4/30/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	5	QT	5	3S11E36	HERBICIDE
ALMOND	4/30/2009	GOAL 2XL	OXYFLUORFEN	G	4.5	PT	5	3S11E36	HERBICIDE
WALNUT	4/30/2009	DUPONT MANEX FUNGICIDE	MANEB	G	1856	OZ	32	3S11E36	FUNGICIDE
WALNUT	4/30/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	224	LB	32	3S11E36	FUNGICIDE, ALGAECIDE
WALNUT	4/30/2009	DUPONT MANEX FUNGICIDE	MANEB	G	1740	OZ	30	3S11E36	FUNGICIDE
WALNUT	4/30/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	210	LB	30	3S11E36	FUNGICIDE, ALGAECIDE
ALMOND	5/1/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	800	PT	320	4S12E1	HERBICIDE
WALNUT	5/1/2009	DUPONT MANEX FUNGICIDE	MANEB	G	11.33	GA	25	4S10E3	FUNGICIDE
WALNUT	5/1/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	150	LB	25	4S10E3	FUNGICIDE, ALGAECIDE
ALMOND	5/1/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	22.5	GA	37.5	4S12E3	HERBICIDE
PEACH PROCESSNG	5/1/2009	ROUNDUP WEATHERMAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	20	QT	20	4S10E7	HERBICIDE
WALNUT	5/1/2009	KOCIDE 2000	COPPER HYDROXIDE	G	36	LB	6	4S10E8	FUNGICIDE, ALGAECIDE
OP-VINE	5/1/2009	QUALI-PRO ORYZALIN 4 PRO	ORYZALIN	G	811.25	ML	0.76	4S10E8	HERBICIDE
WALNUT	5/1/2009	KENTAN DF	COPPER HYDROXIDE	G	52	LB	7	4S10E9	FUNGICIDE, ALGAECIDE
WALNUT	5/1/2009	DUPONT MANEX FUNGICIDE	MANEB	G	3.4	GA	7.5	4S10E10	FUNGICIDE
WALNUT	5/1/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	45	LB	7.5	4S10E10	FUNGICIDE, ALGAECIDE
WALNUT	5/1/2009	DUPONT MANEX FUNGICIDE	MANEB	G	0.91	GA	2	4S10E10	FUNGICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
WALNUT	5/1/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	12	LB	2	4S10E10	FUNGICIDE, ALGAECIDE
WALNUT	5/1/2009	DUPONT MANEX FUNGICIDE	MANEB	G	14.73	GA	32.5	4S10E11	FUNGICIDE
WALNUT	5/1/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	195	LB	32.5	4S10E11	FUNGICIDE, ALGAECIDE
WALNUT	5/1/2009	DUPONT MANEX FUNGICIDE	MANEB	G	8.38	GA	18.5	4S10E11	FUNGICIDE
WALNUT	5/1/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	111	LB	18.5	4S10E11	FUNGICIDE, ALGAECIDE
WALNUT	5/1/2009	DUPONT MANEX FUNGICIDE	MANEB	G	11.33	GA	25	4S10E11	FUNGICIDE
WALNUT	5/1/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	150	LB	25	4S10E11	FUNGICIDE, ALGAECIDE
ALMOND	5/1/2009	MON-65005 HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	16	OZ	10	4S10E14	HERBICIDE
WALNUT	5/1/2009	DUPONT MANEX FUNGICIDE	MANEB	G	0.68	GA	1.5	4S10E15	FUNGICIDE
WALNUT	5/1/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	9	LB	1.5	4S10E15	FUNGICIDE, ALGAECIDE
ALMOND	5/1/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	15.27	PT	7	4S10E17	HERBICIDE
ALMOND	5/1/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	3.18	QT	7	4S10E17	HERBICIDE
PEACH	5/1/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	256	OZ	8	4S11E17	HERBICIDE
WALNUT	5/1/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	80	LB	20	4S10E17	FUNGICIDE, ALGAECIDE
WALNUT	5/1/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	48	LB	12	4S10E17	FUNGICIDE, ALGAECIDE
WALNUT	5/1/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	12	LB	3	4S10E17	FUNGICIDE, ALGAECIDE
WALNUT	5/1/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	4	LB	1	4S10E17	FUNGICIDE, ALGAECIDE
ALMOND	5/1/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	80.73	PT	37	4S10E18	HERBICIDE
ALMOND	5/1/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	16.82	QT	37	4S10E18	HERBICIDE
WALNUT	5/1/2009	KENTAN DF	COPPER HYDROXIDE	G	30	LB	3.75	4S9E24	FUNGICIDE, ALGAECIDE
WALNUT	5/1/2009	KENTAN DF	COPPER HYDROXIDE	G	10	LB	1.25	4S9E24	FUNGICIDE, ALGAECIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
CORN FOR/FOD	5/1/2009	DUAL MAGNUM HERBICIDE	S-METOLACHLOR	G	15.66	GA	75	4S9E27	HERBICIDE
ALMOND	5/1/2009	ROUNDUP ORIGINAL HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	3	GA	24	4S9E29	HERBICIDE
ALMOND	5/1/2009	GOAL 2XL HERBICIDE	OXYFLUORFEN	G	1.5	GA	24	4S9E29	HERBICIDE
WALNUT	5/1/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	80	LB	10	4S11E30	FUNGICIDE, ALGAECIDE
WALNUT	5/1/2009	DUPONT MANEX FUNGICIDE	MANEB	A	754	OZ	13	4S8E35	FUNGICIDE
WALNUT	5/1/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	A	78	LB	13	4S8E35	FUNGICIDE, ALGAECIDE
ALMOND	5/1/2009	GLYFOS X-TRA HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	4.62	GA	12.31	3S11E36	HERBICIDE
ALMOND	5/1/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	4.62	GA	12.31	3S11E36	HERBICIDE
ALMOND	5/1/2009	GOAL 2XL	OXYFLUORFEN	G	1.15	GA	12.31	3S11E36	HERBICIDE
WALNUT	5/2/2009	KENTAN DF	COPPER HYDROXIDE	G	144	LB	18	4S10E3	FUNGICIDE, ALGAECIDE
WALNUT	5/2/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	384	LB	48	4S10E4	FUNGICIDE, ALGAECIDE
WALNUT	5/2/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	80	LB	10	4S10E5	FUNGICIDE, ALGAECIDE
WALNUT	5/2/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	480	LB	60	4S11E7	FUNGICIDE, ALGAECIDE
ALMOND	5/2/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	13.64	PT	10	4S10E8	HERBICIDE
ALMOND	5/2/2009	ORCHARDMASTER CA BROADLEAF HERBICIDE	2,4-D, DIMETHYLAMINE SALT	G	9.09	PT	10	4S10E8	HERBICIDE
ALMOND	5/2/2009	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	G	36.36	OZ	10	4S10E8	HERBICIDE
N-GRNHS PLANT	5/2/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	4917.85	GR	0.29	4S10E8	FUNGICIDE, ALGAECIDE
OP-VINE	5/2/2009	QUALI-PRO ORYZALIN 4 PRO	ORYZALIN	G	663.75	ML	1.65	4S10E8	HERBICIDE
WALNUT	5/2/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	24	QT	12	4S10E10	FUNGICIDE, ALGAECIDE
WALNUT	5/2/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	400	LB	50	4S10E11	FUNGICIDE, ALGAECIDE
WALNUT	5/2/2009	DUPONT MANEX FUNGICIDE	MANEB	G	14.73	GA	32.5	4S10E11	FUNGICIDE
WALNUT	5/2/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	195	LB	32.5	4S10E11	FUNGICIDE, ALGAECIDE

Adminsitrative Record
Page 17327

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
WALNUT	5/2/2009	DUPONT MANEX FUNGICIDE	MANEB	G	11.33	GA	25	4S10E11	FUNGICIDE
WALNUT	5/2/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	150	LB	25	4S10E11	FUNGICIDE, ALGAECIDE
WALNUT	5/2/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	18	QT	9	4S10E15	FUNGICIDE, ALGAECIDE
WALNUT	5/2/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	58	QT	29	4S10E15	FUNGICIDE, ALGAECIDE
WALNUT	5/2/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	44	LB	11	4S10E17	FUNGICIDE, ALGAECIDE
WALNUT	5/2/2009	DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	12	LB	3	4S10E17	FUNGICIDE, ALGAECIDE
WALNUT	5/2/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	144	LB	18	4S11E20	FUNGICIDE, ALGAECIDE
WALNUT	5/3/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	48	LB	6	4S10E9	FUNGICIDE, ALGAECIDE
WALNUT	5/3/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	168	LB	28	4S10E14	FUNGICIDE, ALGAECIDE
WALNUT	5/3/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	9	QT	3	4S11E20	HERBICIDE
WALNUT	5/3/2009	SIM-TROL 4L	SIMAZINE	G	3	QT	3	4S11E20	HERBICIDE, ALGAECIDE
WALNUT	5/3/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	3	QT	3	4S11E20	HERBICIDE
WALNUT	5/3/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	120	LB	20	4S10E21	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	5/3/2009	ROUNDUP POWERMAX HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	360	OZ	18	4S11E30	HERBICIDE
WALNUT	5/4/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	138	LB	23	4S10E3	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	5/4/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	544	OZ	17	4S11E3	HERBICIDE
WALNUT	5/4/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	104	LB	13	4S10E4	FUNGICIDE, ALGAECIDE
WALNUT	5/4/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	48	LB	6	4S10E4	FUNGICIDE, ALGAECIDE
UNCULTIVATED AG	5/4/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	22.4	PT	7	4S10E5	HERBICIDE
UNCULTIVATED AG	5/4/2009	GOAL 2XL	OXYFLUORFEN	G	44.8	OZ	7	4S10E5	HERBICIDE
WALNUT	5/4/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	204	LB	34	4S11E7	FUNGICIDE, ALGAECIDE

Adminsitrative Record
Page 17328

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
N-GRNHS PLANT	5/4/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	4917.85	GR	0.48	4S10E8	FUNGICIDE, ALGAECIDE
N-GRNHS PLANT	5/4/2009	ADEPT GREENHOUSE INSECT GROWTH REGULATOR	DIFLUBENZURON	G	56	GR	0.09	4S10E8	INSECTICIDE, ALGAECIDE
WALNUT	5/4/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	192	LB	24	4S10E9	FUNGICIDE, ALGAECIDE
WALNUT	5/4/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	120	LB	15	4S10E9	FUNGICIDE, ALGAECIDE
WALNUT	5/4/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	160	LB	20	4S10E14	FUNGICIDE, ALGAECIDE
WALNUT	5/4/2009	KENTAN DF	COPPER HYDROXIDE	G	160	LB	20	4S10E27	FUNGICIDE, ALGAECIDE
ALMOND	5/4/2009	GLY STAR PLUS	GLYPHOSATE, ISOPROPYLAMINE SALT	G	512	OZ	24	4S9E27	HERBICIDE
ALMOND	5/4/2009	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	G	170.67	OZ	24	4S9E27	HERBICIDE
ALMOND	5/4/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	5.46	GA	14.55	3S12E30	HERBICIDE
ALMOND	5/4/2009	ROUNDUP POWERMAX HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	5.46	GA	14.55	3S12E30	HERBICIDE
ALMOND	5/4/2009	SIM-TROL 4L	SIMAZINE	G	1.82	GA	14.55	3S12E30	HERBICIDE, ALGAECIDE
WALNUT	5/5/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	496	LB	62	4S11E2	FUNGICIDE, ALGAECIDE
WALNUT	5/5/2009	KENTAN DF	COPPER HYDROXIDE	G	20	LB	4	4S10E13	FUNGICIDE, ALGAECIDE
PEACH PROCESSNG	5/5/2009	TENKOZ BUCCANEER PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	10	QT	33	4S10E16	HERBICIDE
ALMOND	5/5/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	348	OZ	14.5	4S10E17	HERBICIDE
ALMOND	5/5/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	348	OZ	14.5	4S10E17	HERBICIDE
PEACH PROCESSNG	5/5/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	1376	OZ	43	4S11E18	HERBICIDE
ALMOND	5/5/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	10	PT	7	4S11E18	HERBICIDE
ALMOND	5/5/2009	BUCCANEER PLUS GLYPHOSATE HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	3.5	GA	7	4S11E18	HERBICIDE
ALMOND	5/5/2009	SURFLAN A.S. AGRICULTURAL HERBICIDE	ORYZALIN	G	5	GA	7	4S11E18	HERBICIDE
ALMOND	5/5/2009	TENKOZ BUCCANEER PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	3	QT	9	4S10E19	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	5/5/2009	GOAL 4F	OXYFLUORFEN	G	6	QT	9	4S10E19	HERBICIDE
ALMOND	5/5/2009	GLYFOS X-TRA HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	0.75	GA	3	4S9E24	HERBICIDE
ALMOND	5/5/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	0.75	GA	3	4S9E24	HERBICIDE
ALMOND	5/5/2009	GOAL 2XL	OXYFLUORFEN	G	0.38	GA	3	4S9E24	HERBICIDE
ALMOND	5/5/2009	BUCCANEER GLYPHOSATE HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	23.5	GA	93.86	4S9E25	HERBICIDE
ALMOND	5/5/2009	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	G	7.5	GA	93.86	4S9E25	HERBICIDE
ALMOND	5/5/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	2560	OZ	11	4S10E27	HERBICIDE
ALMOND	5/5/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	692.46	OZ	55	4S9E27	HERBICIDE
ALMOND	5/5/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	9.82	PT	9	4S10E27	HERBICIDE
ALMOND	5/5/2009	GOAL 2XL	OXYFLUORFEN	G	4.91	QT	9	4S10E27	HERBICIDE
ALMOND	5/5/2009	ORYZALIN 4 A.S.	ORYZALIN	G	9.82	PT	9	4S10E27	HERBICIDE
ALMOND	5/5/2009	GOAL 2XL	OXYFLUORFEN	G	144	OZ	18	4S10E27	HERBICIDE
ALMOND	5/5/2009	GOAL 2XL	OXYFLUORFEN	G	96	OZ	12	4S10E27	HERBICIDE
WALNUT	5/5/2009	NU-COP 50 WP	COPPER HYDROXIDE	G	80	LB	10	4S11E30	FUNGICIDE, ALGAECIDE
WALNUT	5/6/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	25.04	PT	18	4S10E3	HERBICIDE
WALNUT	5/6/2009	GOAL 2XL	OXYFLUORFEN	G	62.61	OZ	18	4S10E3	HERBICIDE
WALNUT	5/6/2009	IGNITE HERBICIDE	GLUFOSINATE-AMMONIUM	G	24	QT	12	4S10E4	HERBICIDE
ALMOND	5/6/2009	GOAL 2XL	OXYFLUORFEN	G	320	OZ	40	4S11E7	HERBICIDE
ALMOND	5/6/2009	GOAL 2XL	OXYFLUORFEN	G	112	OZ	14	4S11E7	HERBICIDE
ALMOND	5/6/2009	HONCHO PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	10	GA	40	4S10E12	HERBICIDE
ALMOND	5/6/2009	RELY HERBICIDE	GLUFOSINATE-AMMONIUM	G	120	PT	40	4S11E18	HERBICIDE
ALMOND	5/6/2009	ROUNDUP WEATHERMAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	40	PT	40	4S11E18	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
PEACH	5/6/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	160	OZ	5	4S11E19	HERBICIDE
ALMOND	5/6/2009	HONCHO PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	4	GA	32	4S8E25	HERBICIDE
ALMOND	5/6/2009	GOAL 2XL	OXYFLUORFEN	G	120	OZ	32	4S8E25	HERBICIDE
ALMOND	5/6/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	30	PT	20	4S10E29	HERBICIDE
ALMOND	5/6/2009	AMINE 4 2,4-D WEED KILLER	2,4-D, DIMETHYLAMINE SALT	G	30	PT	20	4S10E29	HERBICIDE
N-GRNHS PLANT	5/7/2009	NORDOX 75 WG	COPPER OXIDE (OUS)	G	4917.85	GR	0.32	4S10E8	FUNGICIDE, ALGAECIDE
ALMOND	5/7/2009	GOAL 2XL	OXYFLUORFEN	G	96	OZ	12	4S11E8	HERBICIDE
ALMOND	5/7/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	12	QT	12	4S11E8	HERBICIDE
ALMOND	5/7/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	2496	OZ	52	4S10E11	HERBICIDE
ALMOND	5/7/2009	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	G	416	OZ	52	4S10E11	HERBICIDE
WALNUT	5/7/2009	HONCHO PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	6.75	GA	36	4S10E12	HERBICIDE
WALNUT	5/7/2009	NU-COP 50 WP	COPPER HYDROXIDE	G	900	LB	90	3S12E33	FUNGICIDE, ALGAECIDE
ALMOND	5/8/2009	HONCHO PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	9	GA	36	4S10E12	HERBICIDE
WALNUT	5/8/2009	GOAL 2XL	OXYFLUORFEN	G	1	GA	12	4S9E30	HERBICIDE
WALNUT	5/8/2009	VEGETATION MANAGER GLYPHOSATE 4	GLYPHOSATE, ISOPROPYLAMINE SALT	G	3	GA	12	4S9E30	HERBICIDE
WALNUT	5/9/2009	KENTAN DF	COPPER HYDROXIDE	G	60	LB	7.5	4S11E7	FUNGICIDE, ALGAECIDE
GRAPE, WINE	5/9/2009	IGNITE HERBICIDE	GLUFOSINATE-AMMONIUM	G	5	GA	16	4S10E7	HERBICIDE
GRAPE, WINE	5/9/2009	IGNITE HERBICIDE	GLUFOSINATE-AMMONIUM	G	1.56	GA	5	4S10E7	HERBICIDE
GRAPE, WINE	5/9/2009	IGNITE HERBICIDE	GLUFOSINATE-AMMONIUM	G	2.34	GA	7.5	4S10E7	HERBICIDE
ALMOND	5/9/2009	ROUNDUP WEATHERMAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	16	QT	16	4S10E11	HERBICIDE
PEACH PROCESSNG	5/9/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	2.3	GA	7.46	4S10E12	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
WALNUT	5/9/2009	RELY HERBICIDE	GLUFOSINATE-AMMONIUM	G	55	PT	11	4S10E13	HERBICIDE
WALNUT	5/9/2009	ROUNDUP ULTRAMAX HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	22	PT	11	4S10E13	HERBICIDE
WALNUT	5/9/2009	GOAL 2XL HERBICIDE	OXYFLUORFEN	G	11	PT	11	4S10E13	HERBICIDE
ALMOND	5/9/2009	BUCCANEER PLUS GLYPHOSATE HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	64	PT	20	4S10E18	HERBICIDE
ALMOND	5/9/2009	ORCHARDMASTER CA BROADLEAF HERBICIDE	2,4-D, DIMETHYLAMINE SALT	G	40	PT	20	4S10E18	HERBICIDE
ALMOND	5/9/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	6.36	QT	19	4S11E18	HERBICIDE
ALMOND	5/9/2009	RELY HERBICIDE	GLUFOSINATE-AMMONIUM	G	120	PT	24	4S11E19	HERBICIDE
ALMOND	5/9/2009	ROUNDUP WEATHERMAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	24	PT	24	4S11E19	HERBICIDE
ALMOND	5/9/2009	IGNITE HERBICIDE	GLUFOSINATE-AMMONIUM	G	4.36	GA	20	4S10E20	HERBICIDE
ALMOND	5/9/2009	AGRISOLUTIONS CORNERSTONE PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	4.36	GA	20	4S10E20	HERBICIDE
ALMOND	5/9/2009	GOAL 2XL	OXYFLUORFEN	G	1	GA	10	4S9E30	HERBICIDE
ALMOND	5/9/2009	VEGETATION MANAGER GLYPHOSATE 4	GLYPHOSATE, ISOPROPYLAMINE SALT	G	2.5	GA	10	4S9E30	HERBICIDE
ALMOND	5/10/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	20	QT	20	4S12E5	HERBICIDE
ALMOND	5/10/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	10	QT	20	4S12E5	HERBICIDE
ALMOND	5/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	4.75	QT	19	4S11E8	HERBICIDE
N-GRNHS PLANT	5/10/2009	QUALI-PRO ORYZALIN 4 PRO	ORYZALIN	G	3398.4	ML	1.79	4S10E8	HERBICIDE
ALMOND	5/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	2	QT	8	4S10E11	HERBICIDE
ALMOND	5/10/2009	GLY-4 PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	8	GA	16	4S11E19	HERBICIDE
ALMOND	5/10/2009	GOAL 2XL	OXYFLUORFEN	G	2.25	GA	21	4S10E20	HERBICIDE
ALMOND	5/10/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	4.5	GA	21	4S10E20	HERBICIDE
ALMOND	5/10/2009	AMINE 4 2,4-D WEED KILLER	2,4-D, DIMETHYLAMINE SALT	G	20	PT	20	4S10E22	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	5/10/2009	GLY STAR ORIGINAL	GLYPHOSATE, ISOPROPYLAMINE SALT	G	20	QT	20	4S10E22	HERBICIDE
ALMOND	5/10/2009	GOAL 2XL	OXYFLUORFEN	G	192	OZ	10	4S9E26	HERBICIDE
ALMOND	5/10/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	755.41	OZ	40	4S10E27	HERBICIDE
ALMOND	5/10/2009	PROWL H2O HERBICIDE	PENDIMETHALIN	G	503.61	OZ	40	4S10E27	HERBICIDE
UNCUL NON-AG	5/10/2009	GLY-4 HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	2	OZ	1	4S10E35	HERBICIDE
UNCUL NON-AG	5/10/2009	GOAL 2XL	OXYFLUORFEN	G	1	OZ	1	4S10E35	HERBICIDE
ALMOND	5/11/2009	ALECTO 41 HL	GLYPHOSATE, ISOPROPYLAMINE SALT	G	15	PT	5	4S11E3	HERBICIDE
ALMOND	5/11/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	15	PT	5	4S11E3	HERBICIDE
ALMOND	5/11/2009	HONCHO PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	3	GA	12	4S11E4	HERBICIDE
ALMOND	5/11/2009	GOAL 2XL	OXYFLUORFEN	G	3	GA	12	4S11E4	HERBICIDE
PEACH PROCESSNG	5/11/2009	ROUNDUP WEATHERMAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	30	PT	30	4S10E6	HERBICIDE
ALMOND	5/11/2009	ROUNDUP WEATHERMAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	10	QT	10	4S11E7	HERBICIDE
WALNUT	5/11/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	326	OZ	3.4	4S10E8	HERBICIDE
N-GRNHS PLANT	5/11/2009	ADEPT GREENHOUSE INSECT GROWTH REGULATOR	DIFLUBENZURON	G	56	GR	0.07	4S10E8	INSECTICIDE, ALGAECIDE
ALMOND	5/11/2009	GOAL 2XL	OXYFLUORFEN	G	280	OZ	35	4S11E8	HERBICIDE
ALMOND	5/11/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	800	PT	320	4S12E11	HERBICIDE
BEAN DRIED	5/11/2009	TRIAP 4HF	TRIFLURALIN	G	36	PT	24	4S10E12	HERBICIDE
ALMOND	5/11/2009	GOAL 2XL	OXYFLUORFEN	G	12	QT	25	4S9E28	HERBICIDE
ALMOND	5/11/2009	VEGETATION MANAGER GLYPHOSATE 4	GLYPHOSATE, ISOPROPYLAMINE SALT	G	24	QT	25	4S9E28	HERBICIDE
PEACH PROCESSNG	5/11/2009	ROUNDUP POWERMAX HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	320	OZ	16	4S10E29	HERBICIDE
ALMOND	5/11/2009	GLYFOS X-TRA HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	1.56	GA	4.17	3S12E31	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	5/11/2009	GOAL 2XL	OXYFLUORFEN	G	0.52	GA	4.17	3S12E31	HERBICIDE
ALMOND	5/12/2009	ROUNDUP POWERMAX HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	12	QT	12	4S10E1	HERBICIDE
PEACH PROCESSNG	5/12/2009	ROUNDUP WEATHERMAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	43	PT	40	4S10E4	HERBICIDE
BEAN DRIED	5/12/2009	TRIAP 4HF	TRIFLURALIN	G	18	PT	12	4S10E12	HERBICIDE
ALMOND	5/12/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	3328	OZ	10	4S10E22	HERBICIDE
ALMOND	5/12/2009	GLYFOS X-TRA HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	3.38	GA	13.5	4S9E24	HERBICIDE
ALMOND	5/12/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	3.38	GA	13.5	4S9E24	HERBICIDE
ALMOND	5/12/2009	GOAL 2XL	OXYFLUORFEN	G	1.69	GA	13.5	4S9E24	HERBICIDE
OP-VINE	5/13/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	5664	ML	0.94	4S10E8	HERBICIDE
OP-VINE	5/13/2009	CHATEAU HERBICIDE SW	FLUMIOXAZIN	G	156.75	GR	0.94	4S10E8	HERBICIDE
ALMOND	5/13/2009	TENKOZ TRIFLURALIN 4EC HERBICIDE	TRIFLURALIN	G	320	OZ	19	4S11E9	HERBICIDE
WALNUT	5/13/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	16.7	PT	12	4S11E30	HERBICIDE
WALNUT	5/13/2009	GOAL 2XL	OXYFLUORFEN	G	41.74	OZ	12	4S11E30	HERBICIDE
ALMOND	5/13/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	15.99	GA	21.32	3S12E33	HERBICIDE
ALMOND	5/14/2009	TOUCHDOWN TOTAL	GLYPHOSATE	G	72	PT	48	4S11E7	HERBICIDE
ALMOND	5/14/2009	TENKOZ TRIFLURALIN 4EC HERBICIDE	TRIFLURALIN	G	1920	OZ	100	4S11E8	HERBICIDE
ALMOND	5/14/2009	TENKOZ TRIFLURALIN 4EC HERBICIDE	TRIFLURALIN	G	1280.02	OZ	70	4S11E8	HERBICIDE
ALMOND	5/14/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	100	PT	20	4S11E8	HERBICIDE
ALMOND	5/14/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	150	PT	30	4S11E8	HERBICIDE
OP-VINE	5/14/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	3776	ML	0.6	4S10E8	HERBICIDE
OP-VINE	5/14/2009	CHATEAU HERBICIDE SW	FLUMIOXAZIN	G	104.5	GR	0.6	4S10E8	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
WALNUT	5/14/2009	GOAL 2XL	OXYFLUORFEN	G	60	OZ	20	4S10E14	HERBICIDE
WALNUT	5/14/2009	PARAZONE 3SL	PARAQUAT DICHLORIDE	G	11	PT	20	4S10E14	HERBICIDE
ALMOND	5/14/2009	GOAL 2XL	OXYFLUORFEN	G	30	OZ	10	4S10E14	HERBICIDE
ALMOND	5/14/2009	PARAZONE 3SL	PARAQUAT DICHLORIDE	G	5.5	PT	10	4S10E14	HERBICIDE
ALMOND	5/14/2009	IGNITE HERBICIDE	GLUFOSINATE-AMMONIUM	G	20	PT	4	4S10E18	HERBICIDE
WALNUT	5/14/2009	RIVERDALE DRI-CLEAN HERBICIDE	2,4-D, DIMETHYLAMINE SALT	G	19.69	LB	11.67	4S8E26	HERBICIDE
WALNUT	5/14/2009	AGRISOLUTIONS CORNERSTONE PLUS	GLYPHOSATE, ISOPROPYLAMINE SALT	G	4.38	GA	11.67	4S8E26	HERBICIDE
GRAPE, WINE	5/14/2009	ROUNDUP WEATHERMAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	2368	OZ	74	4S9E31	HERBICIDE
ALMOND	5/14/2009	GLYFOS X-TRA HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	52.5	PT	70	3S12E33	HERBICIDE
ALMOND	5/14/2009	ORYZALIN 4 A.S.	ORYZALIN	G	140	QT	70	3S12E33	HERBICIDE
CORN FOR/FOD	5/14/2009	DUAL MAGNUM HERBICIDE	S-METOLACHLOR	G	9.64	GA	58	4S8E34	HERBICIDE
CORN FOR/FOD	5/14/2009	DUAL MAGNUM HERBICIDE	S-METOLACHLOR	G	7.98	GA	48	4S8E34	HERBICIDE
CORN FOR/FOD	5/14/2009	DUAL MAGNUM HERBICIDE	S-METOLACHLOR	G	3.66	GA	22	4S8E34	HERBICIDE
CORN FOR/FOD	5/14/2009	DUAL MAGNUM HERBICIDE	S-METOLACHLOR	G	8.81	GA	53	4S8E34	HERBICIDE
RIGHTS OF WAY	5/14/2009	BUCCANEER GLYPHOSATE HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	4	GA	15	4S10E36	HERBICIDE
WALNUT	5/15/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	204.8	OZ	16	4S10E4	HERBICIDE
ALMOND	5/15/2009	RIVERDALE SOLUTION WATER SOLUBLE	2,4-D, DIMETHYLAMINE SALT	G	11.19	OZ	6.67	4S10E7	HERBICIDE
ALMOND	5/15/2009	GLYFOS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	2.5	GA	6.67	4S10E7	HERBICIDE
ALMOND	5/15/2009	RIVERDALE SOLUTION WATER SOLUBLE	2,4-D, DIMETHYLAMINE SALT	G	60.41	OZ	36	4S10E7	HERBICIDE
ALMOND	5/15/2009	GLYFOS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	13.5	GA	36	4S10E7	HERBICIDE
ALMOND	5/15/2009	RIVERDALE SOLUTION WATER SOLUBLE	2,4-D, DIMETHYLAMINE SALT	G	5.6	OZ	3.34	4S10E7	HERBICIDE

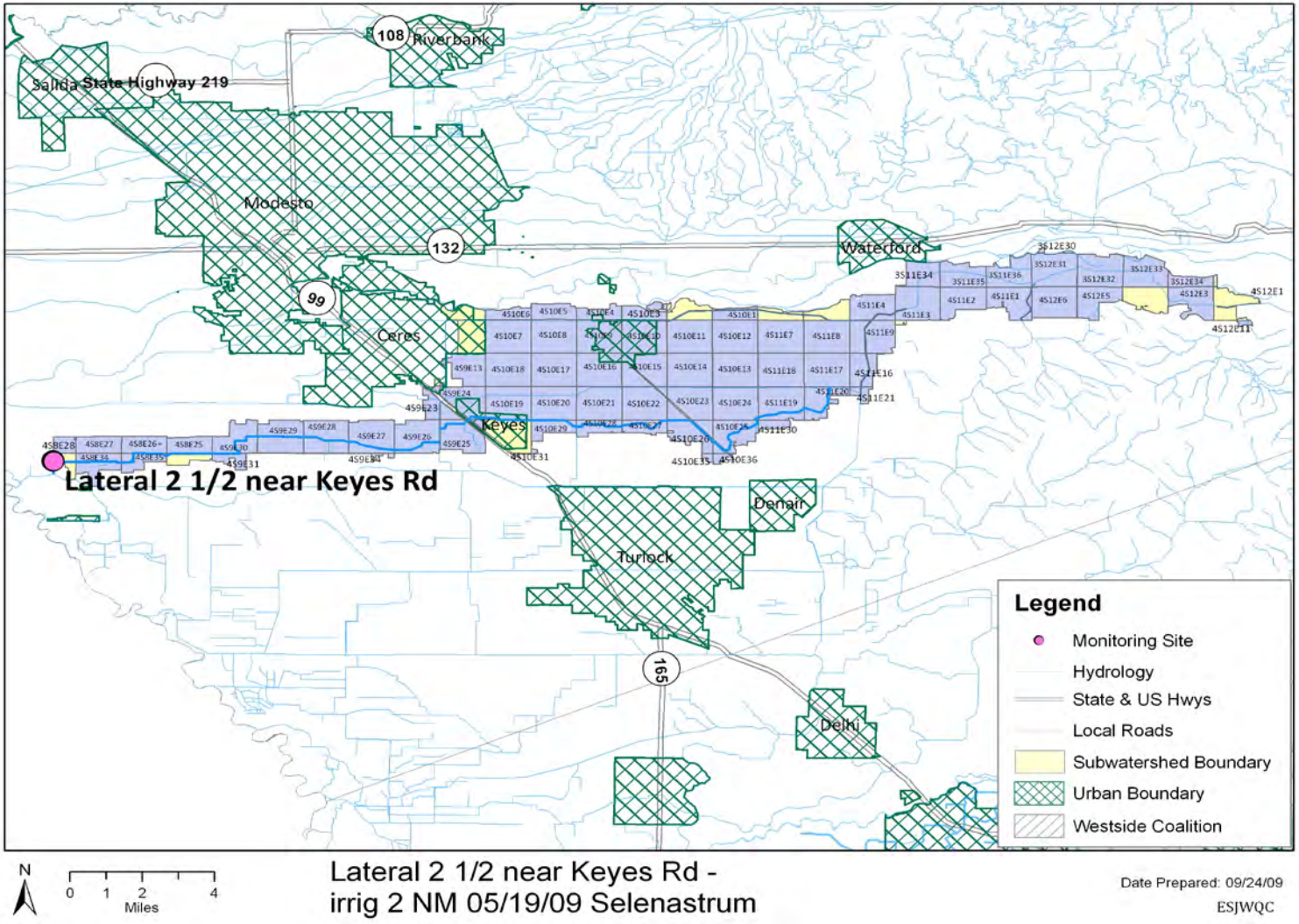
Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	5/15/2009	RIVERDALE SOLUTION WATER SOLUBLE	2,4-D, DIMETHYLAMINE SALT	G	8.96	OZ	5.34	4S10E7	HERBICIDE
ALMOND	5/15/2009	GLYFOS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	1.25	GA	3.34	4S10E7	HERBICIDE
ALMOND	5/15/2009	GLYFOS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	2	GA	5.34	4S10E7	HERBICIDE
WALNUT	5/15/2009	GOAL 2XL	OXYFLUORFEN	G	72	OZ	9	4S10E10	HERBICIDE
WALNUT	5/15/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	9	QT	9	4S10E10	HERBICIDE
RIGHTS OF WAY	5/15/2009	HONCHO PLUS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	1	QT	1	4S10E12	HERBICIDE
RIGHTS OF WAY	5/15/2009	GOAL 2XL HERBICIDE	OXYFLUORFEN	G	3	OZ	1	4S10E12	HERBICIDE
ALMOND	5/15/2009	TOUCHDOWN TOTAL	GLYPHOSATE	G	105	PT	70	4S11E18	HERBICIDE
ALMOND	5/15/2009	ROUNDUP POWERMAX HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	380.95	OZ	25	4S9E23	HERBICIDE
ALMOND	5/15/2009	ROUNDUP POWERMAX HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	548.57	OZ	36	4S9E28	HERBICIDE
ALMOND	5/15/2009	BUCCANEER PLUS GLYPHOSATE HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	10	GA	20	4S9E29	HERBICIDE
GRAPE, WINE	5/15/2009	ROUNDUP WEATHERMAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	928	OZ	29	4S9E31	HERBICIDE
ALMOND	5/15/2009	GOAL 2XL	OXYFLUORFEN	G	320	OZ	40	3S11E34	HERBICIDE
ALMOND	5/15/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	2	PT	5	4S10E35	HERBICIDE
WALNUT	5/16/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	204.8	OZ	16	4S10E4	HERBICIDE
WALNUT	5/16/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	204.8	OZ	16	4S10E4	HERBICIDE
WALNUT	5/16/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	806	OZ	8.4	4S10E5	HERBICIDE
WALNUT	5/16/2009	GOAL 2XL	OXYFLUORFEN	G	88	OZ	11	4S10E11	HERBICIDE
WALNUT	5/16/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	11	QT	11	4S10E11	HERBICIDE
ALMOND	5/16/2009	GOAL 2XL	OXYFLUORFEN	G	160	OZ	20	4S10E11	HERBICIDE
ALMOND	5/16/2009	FIRESTORM	PARAQUAT DICHLORIDE	G	20	QT	20	4S10E11	HERBICIDE
ALMOND	5/16/2009	ROUNDUP ULTRAMAX HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	8	PT	8	4S11E16	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
PEACH PROCESSNG	5/16/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	4	GA	16	4S11E19	HERBICIDE
ALMOND	5/16/2009	RIVERDALE DRI-CLEAN HERBICIDE	2,4-D, DIMETHYLAMINE SALT	G	67.5	LB	40	4S9E24	HERBICIDE
ALMOND	5/16/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	30	GA	40	4S9E24	HERBICIDE
BEAN DRIED	5/16/2009	PROWL H2O HERBICIDE	PENDIMETHALIN	G	5.63	GA	30	4S8E25	HERBICIDE
BEAN DRIED	5/16/2009	PROWL H2O HERBICIDE	PENDIMETHALIN	G	2.25	GA	12	4S9E29	HERBICIDE
ALMOND	5/16/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	4	GA	7.5	4S10E29	HERBICIDE
ALMOND	5/16/2009	AMINE 4 2,4-D WEED KILLER	2,4-D, DIMETHYLAMINE SALT	G	3	GA	7.5	4S10E29	HERBICIDE
ALMOND	5/16/2009	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	G	64	OZ	7.5	4S10E29	HERBICIDE
ALMOND	5/16/2009	GLYFOS X-TRA HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	4.5	GA	18	4S11E30	HERBICIDE
ALMOND	5/16/2009	POAST	SETHOXYDIM	G	3.38	GA	18	4S11E30	HERBICIDE
ALMOND	5/16/2009	GOAL 2XL	OXYFLUORFEN	G	1.13	GA	18	4S11E30	HERBICIDE
PEACH PROCESSNG	5/17/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	6	QT	20	4S10E15	HERBICIDE
PEACH PROCESSNG	5/17/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	6	QT	20	4S10E15	HERBICIDE
WALNUT	5/17/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	96	LB	16	3S11E36	FUNGICIDE, ALGAECIDE
ALMOND	5/18/2009	GRAMOXONE INTEON	PARAQUAT DICHLORIDE	G	3.64	GA	7.27	4S11E7	HERBICIDE
OP-VINE	5/18/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	1510.4	ML	0.45	4S10E8	HERBICIDE
ALMOND	5/18/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	16	QT	9	4S11E9	HERBICIDE
ALMOND	5/18/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	32	PT	10	4S10E11	HERBICIDE
ALMOND	5/18/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	30	PT	10	4S10E11	HERBICIDE
ALMOND	5/18/2009	GOAL 2XL	OXYFLUORFEN	G	10	PT	10	4S10E11	HERBICIDE
ALMOND	5/18/2009	IGNITE HERBICIDE	GLUFOSINATE-AMMONIUM	G	15	PT	3	4S10E19	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	5/18/2009	ROUNDUP POWERMAX HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	929.52	OZ	61	4S9E23	HERBICIDE
ALMOND	5/18/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	1.5	GA	10	4S10E26	HERBICIDE
ALMOND	5/18/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	3	PT	10	4S10E26	HERBICIDE
ALMOND	5/18/2009	GOAL 2XL	OXYFLUORFEN	G	1	PT	10	4S10E26	HERBICIDE
ALMOND	5/18/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	90	PT	36	3S11E36	HERBICIDE
ALMOND	5/18/2009	ROUNDUP POWERMAX HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	30	PT	36	3S11E36	HERBICIDE
WALNUT	5/18/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	192	LB	32	3S11E36	FUNGICIDE, ALGAECIDE
WALNUT	5/19/2009	ARROW 2 EC HERBICIDE	CLETHODIM	G	240	OZ	30	4S10E4	HERBICIDE
PEACH PROCESSNG	5/19/2009	RIVERDALE SOLUTION WATER SOLUBLE	2,4-D, DIMETHYLAMINE SALT	G	324	OZ	12	4S10E7	HERBICIDE
PEACH PROCESSNG	5/19/2009	GLYFOS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	4.5	GA	12	4S10E7	HERBICIDE
PEACH PROCESSNG	5/19/2009	RIVERDALE SOLUTION WATER SOLUBLE	2,4-D, DIMETHYLAMINE SALT	G	324	OZ	12	4S10E7	HERBICIDE
PEACH PROCESSNG	5/19/2009	RIVERDALE SOLUTION WATER SOLUBLE	2,4-D, DIMETHYLAMINE SALT	G	361.8	OZ	13.4	4S10E7	HERBICIDE
PEACH PROCESSNG	5/19/2009	GLYFOS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	4.5	GA	12	4S10E7	HERBICIDE
PEACH PROCESSNG	5/19/2009	GLYFOS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	5.03	GA	13.4	4S10E7	HERBICIDE
PEACH PROCESSNG	5/19/2009	RIVERDALE SOLUTION WATER SOLUBLE	2,4-D, DIMETHYLAMINE SALT	G	359.1	OZ	13.3	4S10E7	HERBICIDE
PEACH PROCESSNG	5/19/2009	GLYFOS HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	4.99	GA	13.3	4S10E7	HERBICIDE
OP-VINE	5/19/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	755.2	ML	1.76	4S10E8	HERBICIDE
ALMOND	5/19/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	42	QT	42	4S10E9	HERBICIDE
ALMOND	5/19/2009	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	G	134.4	OZ	42	4S10E9	HERBICIDE
ALMOND	5/19/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	1792	OZ	10	4S10E22	HERBICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	5/19/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	15	QT	20	4S10E24	HERBICIDE
ALMOND	5/19/2009	AMINE 4 2,4-D WEED KILLER	2,4-D, DIMETHYLAMINE SALT	G	15	QT	20	4S10E24	HERBICIDE
PEACH PROCESSNG	5/19/2009	ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE, POTASSIUM SALT	G	20.8	PT	13	4S11E30	HERBICIDE
PEACH PROCESSNG	5/19/2009	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	G	52	OZ	13	4S11E30	HERBICIDE
ALMOND	5/19/2009	RELY 200 HERBICIDE	GLUFOSINATE-AMMONIUM	G	56	PT	14	4S9E31	HERBICIDE
ALMOND	5/19/2009	GOAL 2XL	OXYFLUORFEN	G	28	PT	14	4S9E31	HERBICIDE
ALMOND	5/19/2009	GOAL 2XL	OXYFLUORFEN	G	28	PT	14	4S9E31	HERBICIDE

Figure 8. Location of pesticide use associated with *Selenastrum capricornutum* toxicity for Lateral 2 ½ near Keyes Rd–Irrigation 2, NM.



Adminsitrative Record
Page 17340

Pesticide Use Reports for pesticide exceedance in the water column.

Table 13. Irrigation 4 (7/21/09) – chlorpyrifos exceedance.

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
WALNUT	6/24/2009	LORSBAN ADVANCED	CHLORPYRIFOS	G	220	PT	55	4S10E16	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	6/24/2009	NUFOS 4E	CHLORPYRIFOS	G	68	PT	17	4S9E28	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	6/25/2009	LORSBAN-4E	CHLORPYRIFOS	G	32	PT	8	4S10E10	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	6/26/2009	LORSBAN-4E	CHLORPYRIFOS	G	3	GA	6	4S9E13	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	6/27/2009	LORSBAN-4E	CHLORPYRIFOS	G	60	PT	15	4S11E7	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	6/30/2009	LORSBAN 4E-HF	CHLORPYRIFOS	G	37.6	QT	18.8	4S10E8	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	6/30/2009	NUFOS 4E	CHLORPYRIFOS	G	34.6	QT	17.3	4S10E8	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	6/30/2009	LORSBAN-4E	CHLORPYRIFOS	G	40	PT	10	4S10E13	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	6/30/2009	NUFOS 4E	CHLORPYRIFOS	G	52	PT	13	4S8E35	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/1/2009	LORSBAN-4E	CHLORPYRIFOS	G	40	PT	10	4S10E5	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/1/2009	LORSBAN-4E	CHLORPYRIFOS	G	3	GA	6	4S11E9	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/1/2009	LORSBAN-4E	CHLORPYRIFOS	G	4.5	GA	9	4S10E10	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/1/2009	LORSBAN 4E INSECTICIDE	CHLORPYRIFOS	G	60	PT	15	4S10E10	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/1/2009	LORSBAN-4E	CHLORPYRIFOS	G	5.5	GA	11	4S10E11	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/1/2009	LORSBAN 4E INSECTICIDE	CHLORPYRIFOS	G	36	PT	9	4S10E15	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/1/2009	LORSBAN 4E INSECTICIDE	CHLORPYRIFOS	G	116	PT	29	4S10E15	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/2/2009	LORSBAN 4E-HF	CHLORPYRIFOS	G	10	QT	5	4S10E16	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/2/2009	NUFOS 4E	CHLORPYRIFOS	G	56	QT	28	4S10E17	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/2/2009	LORSBAN-4E	CHLORPYRIFOS	G	5	GA	10	4S11E30	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/3/2009	LORSBAN 4E-HF	CHLORPYRIFOS	G	56	QT	28	4S10E5	INSECTICIDE, FUNGICIDE, MITICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
WALNUT	7/3/2009	NUFOS 4E	CHLORPYRIFOS	G	78.4	QT	39.2	4S10E8	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/3/2009	LORSBAN-4E	CHLORPYRIFOS	G	88	PT	22	4S10E9	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/3/2009	LORSBAN-4E	CHLORPYRIFOS	G	80	PT	20	4S10E14	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/3/2009	NUFOS 4E	CHLORPYRIFOS	G	105.6	QT	52.8	4S10E18	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/3/2009	NUFOS 4E	CHLORPYRIFOS	G	1280	OZ	20	4S11E20	INSECTICIDE, FUNGICIDE, MITICIDE
ALFALFA	7/3/2009	LOCK-ON INSECTICIDE	CHLORPYRIFOS	G	6	GA	24	4S10E23	INSECTICIDE, FUNGICIDE, MITICIDE
ALFALFA	7/3/2009	LOCK-ON INSECTICIDE	CHLORPYRIFOS	G	5	GA	20	4S10E23	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/3/2009	LORSBAN 4E-HF	CHLORPYRIFOS	A	15	PT	3.75	4S9E24	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/3/2009	LORSBAN 4E-HF	CHLORPYRIFOS	A	5	PT	1.25	4S9E24	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/3/2009	NUFOS 4E	CHLORPYRIFOS	G	16	GA	32	3S11E36	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/3/2009	NUFOS 4E	CHLORPYRIFOS	G	8	GA	16	3S11E36	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/5/2009	LORSBAN-4E	CHLORPYRIFOS	G	24	PT	6	4S10E3	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/5/2009	LORSBAN-4E	CHLORPYRIFOS	G	57.6	OZ	6	4S10E3	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/5/2009	LORSBAN ADVANCED	CHLORPYRIFOS	G	280	PT	70	4S10E11	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/5/2009	LORSBAN-4E	CHLORPYRIFOS	G	40	QT	20	4S11E17	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/5/2009	LORSBAN-4E	CHLORPYRIFOS	G	10	QT	5	4S11E17	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/5/2009	LORSBAN-4E	CHLORPYRIFOS	G	20	PT	5	4S8E25	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/5/2009	LORSBAN-4E	CHLORPYRIFOS	G	120	PT	30	4S8E25	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/5/2009	NUFOS 4E	CHLORPYRIFOS	G	4	GA	8	4S9E29	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/5/2009	LORSBAN-4E	CHLORPYRIFOS	G	30	QT	15	3S11E35	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/5/2009	LORSBAN-4E	CHLORPYRIFOS	G	40	QT	20	3S11E36	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/5/2009	LORSBAN-4E	CHLORPYRIFOS	G	50	QT	25	3S11E36	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/5/2009	LORSBAN-4E	CHLORPYRIFOS	G	112	QT	56	3S11E36	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/6/2009	LORSBAN ADVANCED	CHLORPYRIFOS	G	5	GA	10	4S10E12	INSECTICIDE, FUNGICIDE, MITICIDE

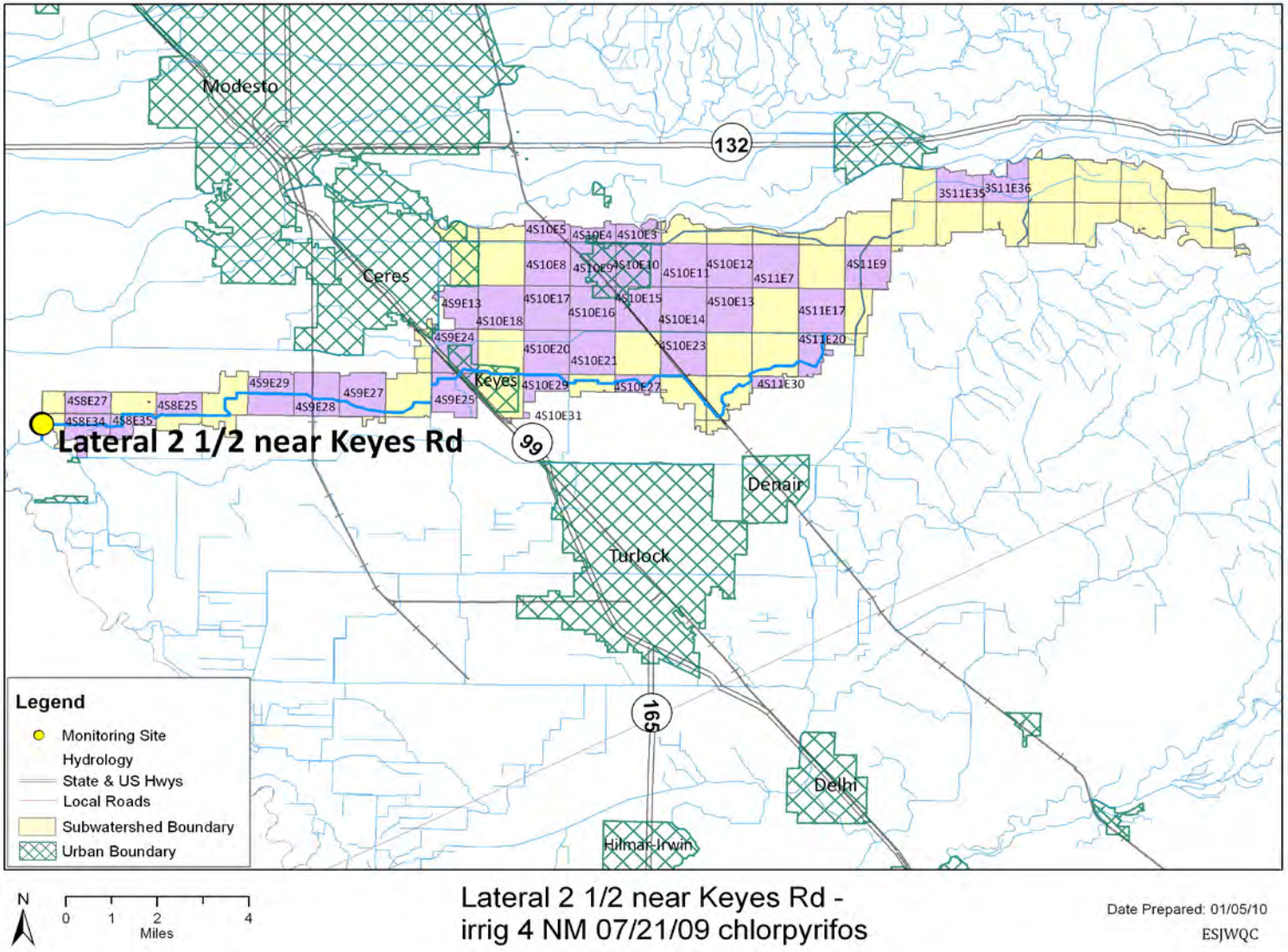
Adminsitrative Record
Page 17342

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	7/6/2009	NUFOS 4E	CHLORPYRIFOS	G	14.25	GA	57	4S9E27	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/6/2009	NUFOS 4E	CHLORPYRIFOS	G	15	GA	30	3S11E36	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/8/2009	LORSBAN-4E	CHLORPYRIFOS	G	192	PT	48	4S10E4	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/8/2009	LORSBAN ADVANCED	CHLORPYRIFOS	G	136	PT	34	4S11E7	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/8/2009	LORSBAN-4E	CHLORPYRIFOS	G	252	PT	63	4S11E7	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/8/2009	LORSBAN-4E	CHLORPYRIFOS	G	200	PT	50	4S10E11	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/8/2009	LORSBAN-4E	CHLORPYRIFOS	G	72	PT	18	4S10E14	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/8/2009	NUFOS 4E	CHLORPYRIFOS	G	67.5	GA	135	4S8E27	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/8/2009	LORSBAN-4E	CHLORPYRIFOS	G	10	GA	20	4S10E27	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/9/2009	LORSBAN ADVANCED	CHLORPYRIFOS	A	92	PT	23	4S10E3	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/9/2009	LORSBAN-4E	CHLORPYRIFOS	G	80	PT	20	4S8E25	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/10/2009	LORSBAN-4E	CHLORPYRIFOS	G	240	PT	60	4S10E3	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/10/2009	LORSBAN-4E	CHLORPYRIFOS	G	96	PT	24	4S10E3	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/10/2009	LORSBAN-4E	CHLORPYRIFOS	G	5	GA	10	4S10E12	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/10/2009	LORSBAN-4E	CHLORPYRIFOS	G	68	PT	17	4S9E28	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/10/2009	LORSBAN-4E	CHLORPYRIFOS	G	20	PT	7	4S9E28	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/12/2009	LORSBAN 4E INSECTICIDE	CHLORPYRIFOS	G	17.5	GA	36	4S10E12	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/13/2009	LORSBAN 4E-HF	CHLORPYRIFOS	G	52	QT	26	4S10E9	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/13/2009	LORSBAN 4E-HF	CHLORPYRIFOS	G	21	QT	10.5	4S10E9	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/13/2009	LORSBAN 4E-HF	CHLORPYRIFOS	G	6	QT	3	4S10E9	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/13/2009	LORSBAN-4E	CHLORPYRIFOS	G	100	PT	25	4S10E20	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/14/2009	LORSBAN ADVANCED	CHLORPYRIFOS	G	1600	OZ	25	4S10E12	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/14/2009	LORSBAN-4E	CHLORPYRIFOS	G	32	PT	8	4S10E12	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/16/2009	LORSBAN-4E	CHLORPYRIFOS	G	2.5	GA	5	4S9E13	INSECTICIDE, FUNGICIDE, MITICIDE

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	7/16/2009	LORSBAN ADVANCED	CHLORPYRIFOS	G	4	GA	8	4S10E18	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/16/2009	LORSBAN ADVANCED	CHLORPYRIFOS	G	4	GA	8	4S10E18	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/16/2009	LORSBAN 4E INSECTICIDE	CHLORPYRIFOS	G	80	PT	20	4S9E25	INSECTICIDE, FUNGICIDE, MITICIDE
CORN FOR/FOD	7/16/2009	LORSBAN 4E-HF	CHLORPYRIFOS	A	5	GA	20	4S10E31	INSECTICIDE, FUNGICIDE, MITICIDE
CORN FOR/FOD	7/16/2009	LORSBAN 4E-HF	CHLORPYRIFOS	A	8.75	GA	35	4S10E31	INSECTICIDE, FUNGICIDE, MITICIDE
CORN FOR/FOD	7/16/2009	LORSBAN 4E-HF	CHLORPYRIFOS	A	2	GA	8	4S10E31	INSECTICIDE, FUNGICIDE, MITICIDE
CORN FOR/FOD	7/17/2009	WARHAWK	CHLORPYRIFOS	A	7.56	GA	55	4S8E34	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/18/2009	LORSBAN ADVANCED	CHLORPYRIFOS	G	80	PT	20	4S10E12	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/18/2009	LORSBAN-4E	CHLORPYRIFOS	G	40	PT	10	4S10E29	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/19/2009	LORSBAN-4E	CHLORPYRIFOS	G	9	GA	18	4S10E21	INSECTICIDE, FUNGICIDE, MITICIDE
CORN FOR/FOD	7/19/2009	NUFOS 4E	CHLORPYRIFOS	A	14.5	GA	58	4S8E34	INSECTICIDE, FUNGICIDE, MITICIDE
CORN FOR/FOD	7/19/2009	NUFOS 4E	CHLORPYRIFOS	A	12	GA	48	4S8E34	INSECTICIDE, FUNGICIDE, MITICIDE
CORN FOR/FOD	7/19/2009	NUFOS 4E	CHLORPYRIFOS	A	5.5	GA	22	4S8E34	INSECTICIDE, FUNGICIDE, MITICIDE
CORN FOR/FOD	7/19/2009	NUFOS 4E	CHLORPYRIFOS	A	13.25	GA	53	4S8E34	INSECTICIDE, FUNGICIDE, MITICIDE
CORN FOR/FOD	7/19/2009	NUFOS 4E	CHLORPYRIFOS	G	8	GA	32	4S8E34	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/21/2009	LORSBAN ADVANCED	CHLORPYRIFOS	G	10	GA	20	4S10E13	INSECTICIDE, FUNGICIDE, MITICIDE
WALNUT	7/21/2009	LORSBAN ADVANCED	CHLORPYRIFOS	G	12.5	GA	25	4S10E18	INSECTICIDE, FUNGICIDE, MITICIDE

Adminsitrative Record
Page 17344

Figure 9. Location of chlorpyrifos use for Lateral 2 ½ near Keyes Rd – Irrigation 4, NM.



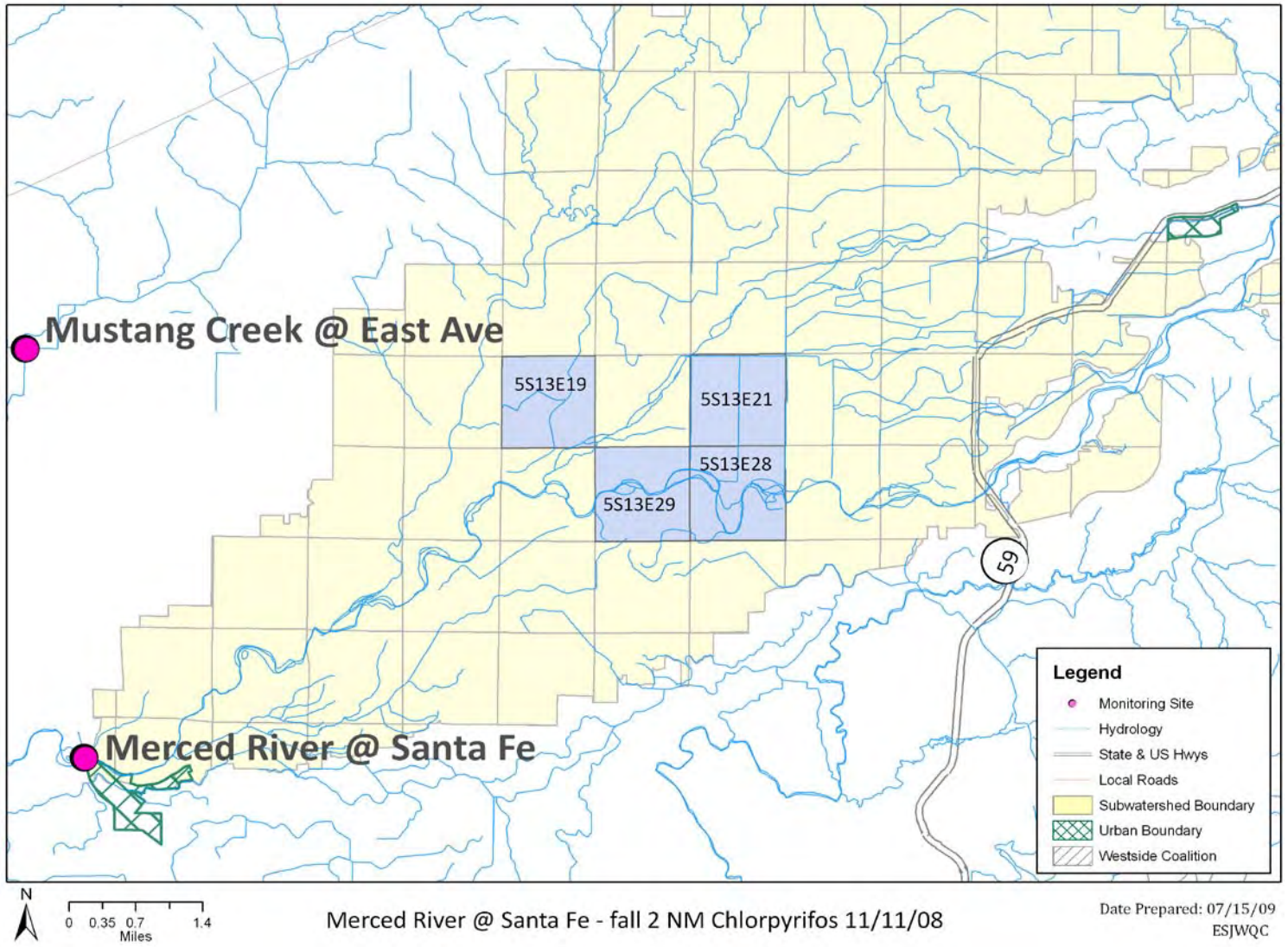
Merced River @ Santa Fe

Pesticide Use Reports for pesticide exceedance in the water column.

Table 14. Fall 2 (11/11/08) – chlorpyrifos exceedance.

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
GRAPE WINE	10/14/2008	LORSBAN-4E	CHLORPYRIFOS	G	340.00	PT	85.00	5S13E21	INSECTICIDE, FUNGICIDE, MITICIDE
GRAPE WINE	10/14/2008	LORSBAN-4E	CHLORPYRIFOS	G	340.00	PT	85.00	5S13E21	INSECTICIDE, FUNGICIDE, MITICIDE
GRAPE WINE	10/14/2008	LORSBAN ADVANCED	CHLORPYRIFOS	G	29.89	PT	7.10	5S13E28	INSECTICIDE, FUNGICIDE, MITICIDE
GRAPE WINE	10/14/2008	LORSBAN ADVANCED	CHLORPYRIFOS	G	29.89	PT	7.10	5S13E28	INSECTICIDE, FUNGICIDE, MITICIDE
GRAPE WINE	10/14/2008	LORSBAN ADVANCED	CHLORPYRIFOS	G	101.80	PT	24.65	5S13E28	INSECTICIDE, FUNGICIDE, MITICIDE
GRAPE WINE	10/14/2008	LORSBAN ADVANCED	CHLORPYRIFOS	G	101.80	PT	24.65	5S13E28	INSECTICIDE, FUNGICIDE, MITICIDE
GRAPE WINE	10/20/2008	LORSBAN ADVANCED	CHLORPYRIFOS	G	59.94	PT	14.80	5S13E19	INSECTICIDE, FUNGICIDE, MITICIDE
GRAPE WINE	10/20/2008	LORSBAN ADVANCED	CHLORPYRIFOS	G	59.94	PT	14.80	5S13E19	INSECTICIDE, FUNGICIDE, MITICIDE
GRAPE WINE	10/21/2008	LORSBAN ADVANCED	CHLORPYRIFOS	G	83.82	PT	20.80	5S13E19	INSECTICIDE, FUNGICIDE, MITICIDE
GRAPE WINE	10/21/2008	LORSBAN ADVANCED	CHLORPYRIFOS	G	83.82	PT	20.80	5S13E19	INSECTICIDE, FUNGICIDE, MITICIDE
GRAPE WINE	10/24/2008	LORSBAN ADVANCED	CHLORPYRIFOS	G	771.44	PT	191.90	5S13E29	INSECTICIDE, FUNGICIDE, MITICIDE
GRAPE WINE	10/24/2008	LORSBAN ADVANCED	CHLORPYRIFOS	G	771.44	PT	191.90	5S13E29	INSECTICIDE, FUNGICIDE, MITICIDE

Figure 10. Location of chlorpyrifos use for Merced River @ Santa Fe– Fall 2, NM.



Adminsitrative Record
Page 17347

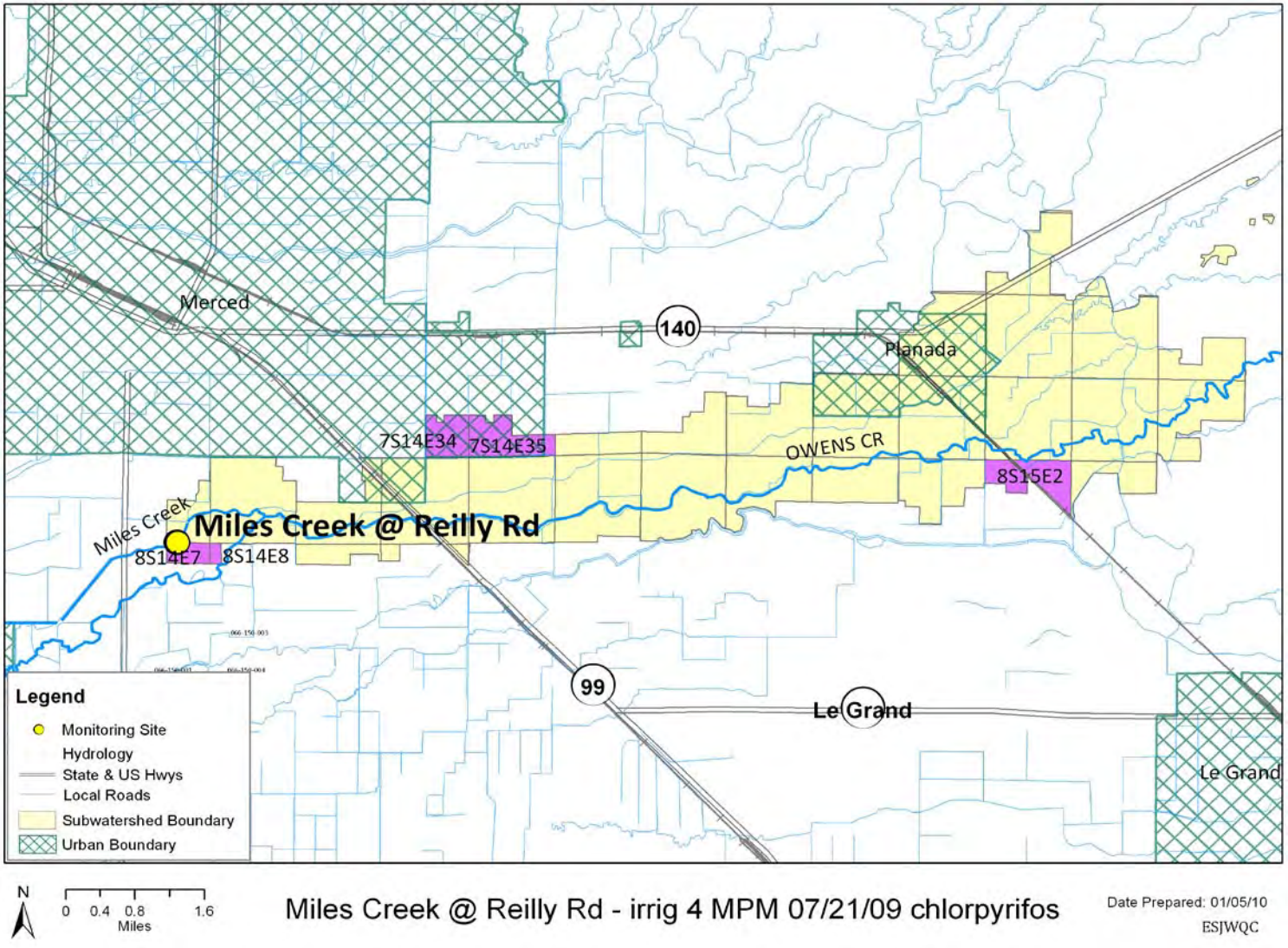
Miles Creek @ Reilly Rd

Pesticide Use Reports for pesticide exceedance in the water column.

Table 15. Irrigation 4 (7/21/09) – chlorpyrifos exceedance.

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
COTTON	6/27/2009	LORSBAN-4E	CHLORPYRIFOS	G	12.26	GA	53	7S14E35	INSECTICIDE, FUNGICIDE, MITICIDE
ALFALFA	7/8/2009	LOCK-ON INSECTICIDE	CHLORPYRIFOS	A	23	GA	92	8S15E2	INSECTICIDE, FUNGICIDE, MITICIDE
ALFALFA	7/15/2009	GOVERN 4E INSECTICIDE	CHLORPYRIFOS	A	72	PT	48	8S14E7	INSECTICIDE, FUNGICIDE, MITICIDE
ALFALFA	7/15/2009	GOVERN 4E INSECTICIDE	CHLORPYRIFOS	A	72	PT	48	8S14E7	INSECTICIDE, FUNGICIDE, MITICIDE
ALFALFA	7/15/2009	GOVERN 4E INSECTICIDE	CHLORPYRIFOS	A	144	PT	96	8S14E8	INSECTICIDE, FUNGICIDE, MITICIDE
ALFALFA	7/15/2009	GOVERN 4E INSECTICIDE	CHLORPYRIFOS	A	78	PT	52	8S14E7	INSECTICIDE, FUNGICIDE, MITICIDE
ALFALFA	7/15/2009	GOVERN 4E INSECTICIDE	CHLORPYRIFOS	A	72	PT	48	8S14E7	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/15/2009	GOVERN 4E INSECTICIDE	CHLORPYRIFOS	G	120	PT	30	7S14E34	INSECTICIDE, FUNGICIDE, MITICIDE
ALMOND	7/20/2009	LORSBAN-4E	CHLORPYRIFOS	G	5	GA	11	7S14E35	INSECTICIDE, FUNGICIDE, MITICIDE

Figure 11. Location of chlorpyrifos use for Miles Creek @ Reilly Rd– Irrigation 4, MPM.



Adminsitrative Record
Page 17349

Mootz Drain @ Langworth Rd.

Pesticide Use Reports for pesticide exceedance in the water column.

Fall 3 (12/16/08) – chlorpyrifos exceedance.

No applications were made associated with this exceedance.

Storm 1 (02/07/09) – diuron exceedance.

No applications were made associated with this exceedance.

Irrigation 3 (6/16/09) – chlorpyrifos exceedance.

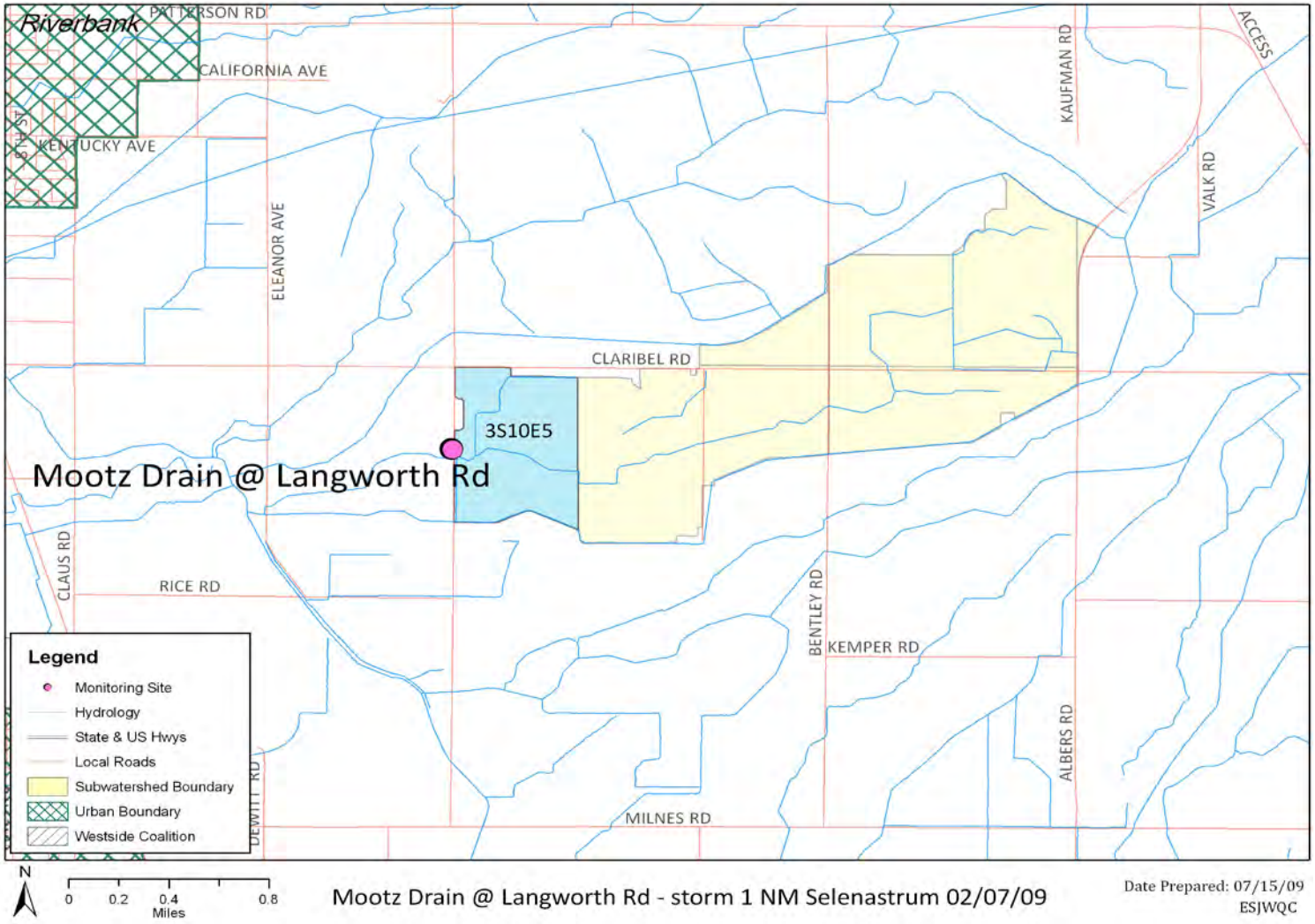
No applications were made associated with this exceedance.

Pesticide Use Reports for water column toxicity.

Table 16. Storm 1 (02/07/09) – *Selenastrum capricornutum* toxicity.

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	1/29/2009	ORCHARD STAR	2,4-D, DIMETHYLAMINE SALT	G	44	QT	110	3S10E5	HERBICIDE
ALMOND	1/29/2009	BUCCANEER GLYPHOSATE HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	G	66	QT	110	3S10E5	HERBICIDE

Figure 17. Location of pesticide use associated with *Selenastrum capricornutum* toxicity for Mootz Drain @ Langworth Rd–Storm 1, NM.



Adminsitrative Record
Page 17352

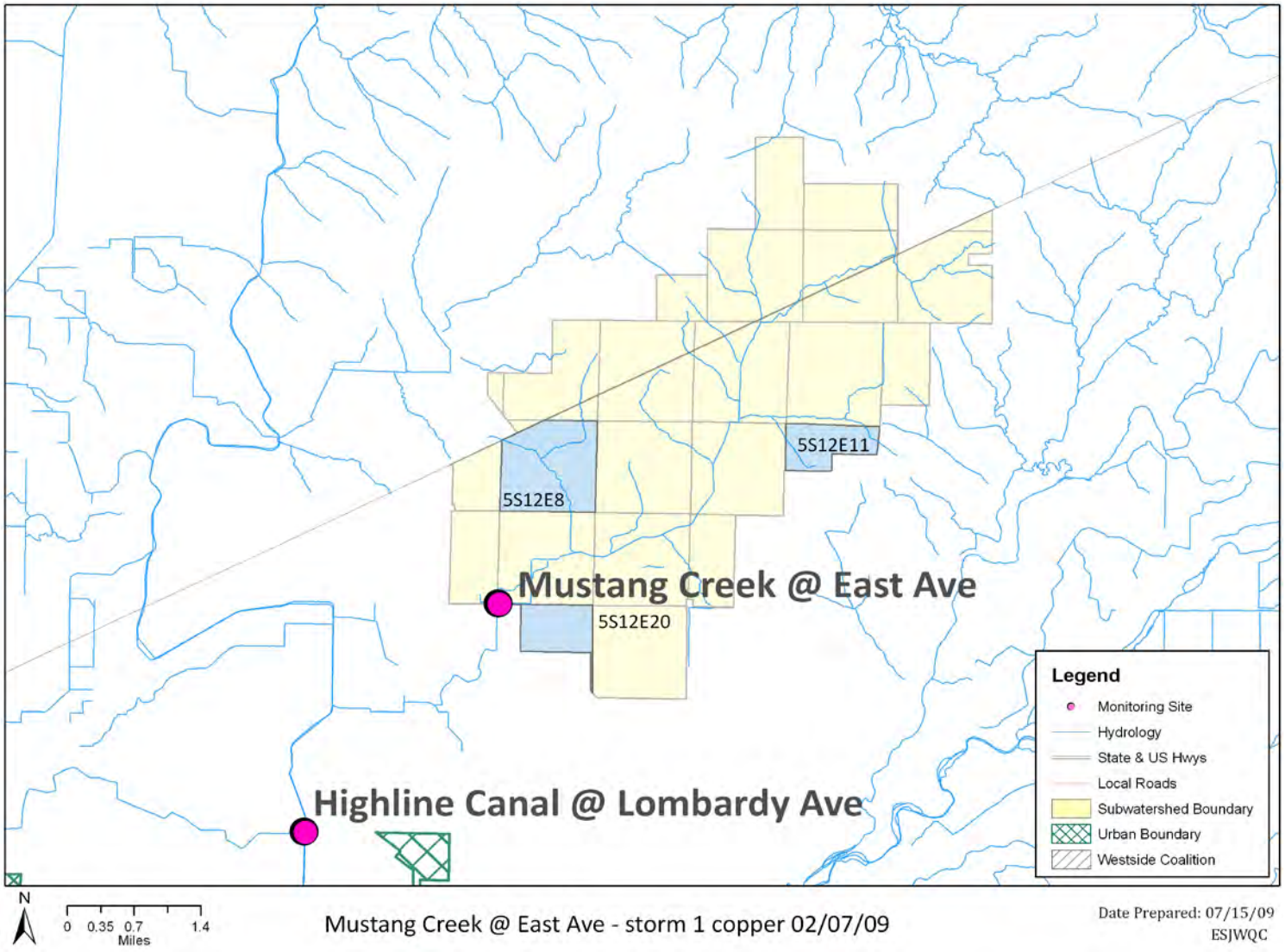
Mustang Creek @ East Ave.

Pesticide Use Reports for metal exceedance in the water column.

Table 17. Storm 1 (02/07/09) – copper exceedance.

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALMOND	12/11/2008	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	278.00	LB	139.00	5S12E20	FUNGICIDE, ALGAECIDE
ALMOND	1/15/2009	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	COPPER HYDROXIDE	G	78.00	LB	13.00	5S12E20	FUNGICIDE, ALGAECIDE
ALMOND	1/22/2009	CHAMP FORMULA 2 FLOWABLE	COPPER HYDROXIDE	G	282.00	GA	282.00	5S12E8	FUNGICIDE, ALGAECIDE
PEACH	1/30/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	456.00	LB	38.00	5S12E11	FUNGICIDE, ALGAECIDE
ALMOND	1/30/2009	CHAMPION WETTABLE POWDER	COPPER HYDROXIDE	G	360.00	LB	30.00	5S12E11	FUNGICIDE, ALGAECIDE

Figure 18. Location of copper use for Mustang Creek @ East Ave– Storm 1, NM.



Adminsitrative Record
Page 17354

Fall 1 (10/20/09) – copper exceedance.

No applications of copper were reported after April 18, 2009.

Storm 2 (12/15/09) – copper exceedance.

No applications of copper were reported after April 18, 2009.

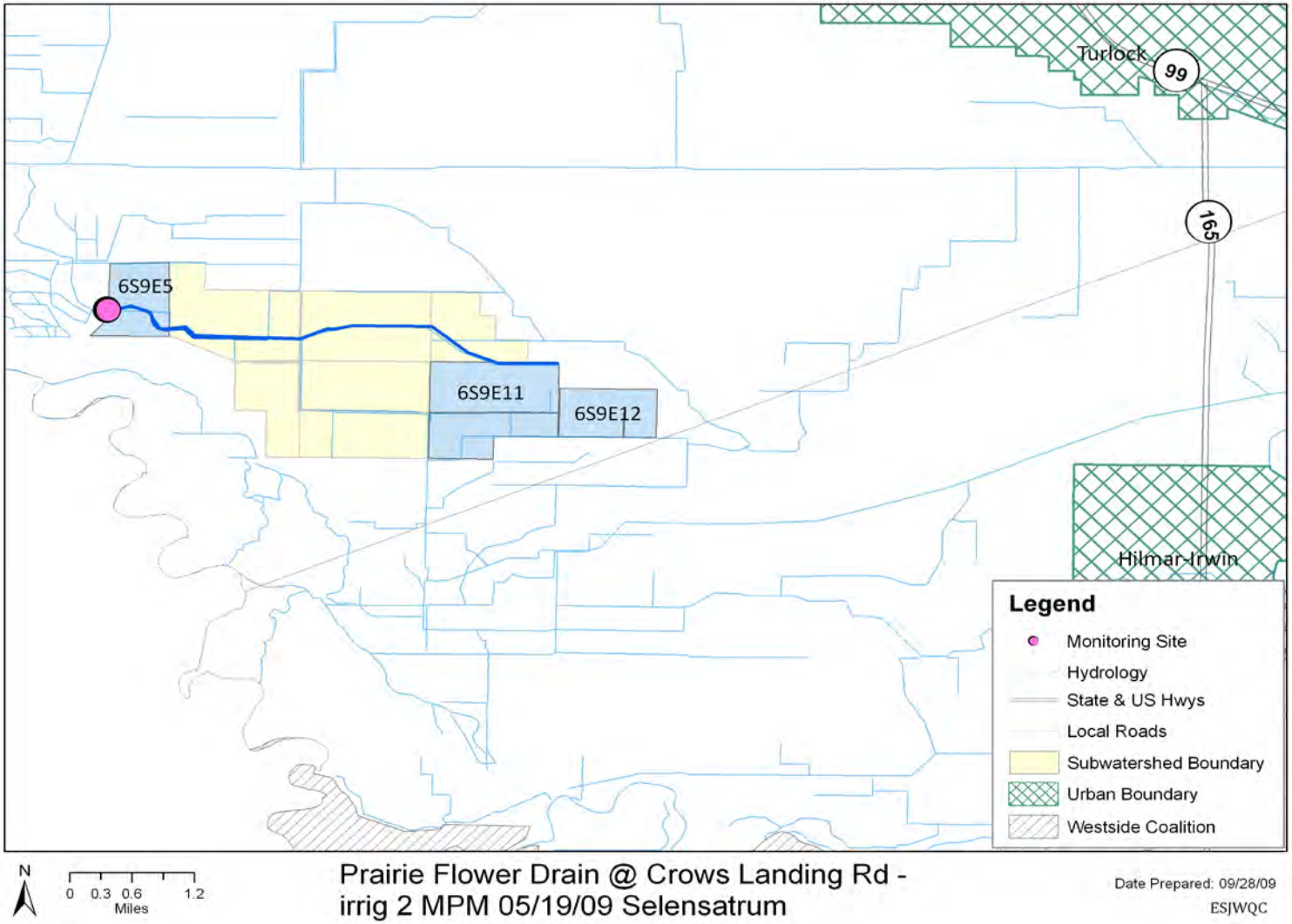
Prairie Flower Drain @ Crows Landing Rd

Pesticide Use Reports for water column toxicity.

Table 18. Irrigation 2 (5/19/09) – *Selenastrum capricornutum* toxicity.

Commodity	Date	Product Name	Active Ingredient	Application Method	Quantity Used	Unit	Treated Acres	TRS	Chemical Type
ALFALFA	4/25/2009	TRIFLURALIN 10G	TRIFLURALIN	G	640	LB	32	6S9E5	HERBICIDE
ALFALFA	4/25/2009	CLEAN CROP TRIFLURALIN 10G	TRIFLURALIN	G	1500	LB	75	6S9E5	HERBICIDE
ALFALFA	5/5/2009	ARROW 2 EC HERBICIDE	CLETHODIM	G	18.75	GA	150	6S9E5	HERBICIDE
CORN FOR/FOD	5/11/2009	CLARITY HERBICIDE	DIGLYCOLAMINE SALT OF 3,6-DICHLORO-O-ANISIC ACID	G	3.75	GA	60	6S9E11	HERBICIDE
CORN FOR/FOD	5/11/2009	ALECTO 41S	GLYPHOSATE, ISOPROPYLAMINE SALT	G	22.5	GA	60	6S9E11	HERBICIDE
CORN FOR/FOD	5/15/2009	GLY STAR PLUS	GLYPHOSATE, ISOPROPYLAMINE SALT	G	7	GA	28	6S9E12	HERBICIDE
CORN FOR/FOD	5/15/2009	GLY STAR PLUS	GLYPHOSATE, ISOPROPYLAMINE SALT	G	19.5	GA	78	6S9E12	HERBICIDE
CORN FOR/FOD	5/15/2009	GLY STAR PLUS	GLYPHOSATE, ISOPROPYLAMINE SALT	G	9.5	GA	38	6S9E12	HERBICIDE

Figure 19. Location of pesticide use associated with *Selenastrum capricornutum* toxicity for Prairie Flower Drain @ Crows Landing Rd– Irrigation 2, MPM.



Adminsitrative Record
Page 17357

Appendix IX

Field sheets

East San Joaquin Water Quality Coalition

Fall 1 NM Sampling
Field Sheets

2008 October 21

Adminsitrative Record
Page 17359

10/21/08

Field Exceedances

Review field measures from each site. Record any measurements in the exceedance range in the chart below. Be sure to record the site ID. Only transcribe exceedance measurements, leaving other fields blank.

Event type	Site ID	pH	EC (µS/cm)	DO (mg/L)
NM	Prairie Flower Drain @ Crows Landing Rd		1742	
NM	Lateral 2 b Near Keys Rd	9.57		
NM	Dry Creek @ Wellsford Rd			4.91

PFDCL
THNKR
DCAWR

ESJWQC March 1, 2010 AMR
Appendix IX
Administrative Record
Page 17360

10/21/08

Meter Calibration Log

Team 1

Team 1 members: J. Katz, S. Henderson
Primary multiparameter meter ID: YSI #4
Backup multiparameter meter ID: YSI #3
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07K101586
Serial number: 07K101587
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.02	4.09	4.00	4.00	10/20/08	S.H
pH 7	6.91	6.94	7.00	7.00	10/20/08	S.H.
pH 10	10.07	10.07	10.01	10.01	10/20/08	S.H.
1413 µS/cm	1433	1424	1413	1413	10/20/08	S.H.
pH 4	3.99	4.03	4.00	4.00	10/22/08	J.E.K
pH 7	7.00	6.97	7.00	7.00	10/22/08	J.E.K.
pH 10	10.01	10.05	10.00	10.01	10/22/08	J.E.K.
1413 µS/cm	1457	1483	1413	1413	10/22/08	J.E.K.

Team 2

Team 2 members: F. Wulff, G. Bohrer
Primary multiparameter meter ID: YSI #2
Backup multiparameter meter ID: YSI #1
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07A1894AF
Serial number: 07A1894AE
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.00	3.96	4.00	4.00	10/20/08	S.H.
pH 7	6.96	7.00	7.00	6.99	10/20/08	S.H.
pH 10	10.02	10.04	10.01	10.01	10/20/08	S.H.
1413 µS/cm	1478	1412	1413	1413	10/20/08	S.H.
pH 4	4.05	3.98	4.00	4.00	10/22/08	J.E.K.
pH 7	6.98	7.01	7.00	7.00	10/22/08	J.E.K.
pH 10	10.14	9.91	10.02	9.98	10/22/08	J.E.K.
1413 µS/cm	1394	1409	1413	1413	10/22/08	J.E.K.

Administrative Record
Page 17361

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) GIB 10/27/08 | double checker: FW 11/13/08 | Pg of Pgs

Station Name: Dry Creek @ Wellsford Rd
StationID: 535XDCAWR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2008
Personnel: J. Kutz, S. Henderson

DATE (mm/dd/yyyy): 10/21/08
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 8:37
SAMPLE TIME: 8:50
Departure Time: 9:09

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 7.7
WATER DEPTH (ft / m): 0.40
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.6602	-120.8743
*Actual:	37.660069	-120.87546
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 13

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

PICTURE NAME: 1E, 1W DCAWR_Fall1NM_10?08_E, W

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	16.00
Water Temp (Celsius):	13.12
SC (uS/cm):	130
DO (mg/L):	5.49
pH:	~~8.03~~ 7.83
TDS:	0.085
ORP:	
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	2.05

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAWR-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDCAWR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAWR-GR	E. coli	100-mL Polyethylene	1	
535XDCAWR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

MLJ LLC Discharge Field Sheet

Sampler: J. Katz
Date: 10/21/08
Site ID: J35XDCAWQ
Site Name: Dry Creek @ Welsford Rd.

Method: wading / bridge
Meter: MMB / other
Meter Units: ~~ft/s~~ m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.7	0.8	0.2 or 0.6	0.04	30sec
			0.8 only		
2	~~2.6~~ 3.0	1.2	0.2 or 0.6	0.12	
			0.8 only		
3	~~3.9~~ 4.3	1.3	0.2 or 0.6	0.14	
			0.8 only		
4	~~5.2~~ 5.6	0.8	0.2 or 0.6	0.08	
			0.8 only		
5	~~6.5~~ 6.9	1.2	0.2 or 0.6	0.05	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

1.3
6) 7.7
6
1.7
3.9
1.3
5.2

Left Edge Water (LEW) 8.1
Right Edge Water (REW) 0.4
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 2.05 cfs

Discharge calculated by (date and initials):
JEK 10/22/08

Double checked by (date and initials):
GJB 10/27/08

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

Administrative Record
Page 17364

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) GIS 1/27/08 | double checker: FV 11/13/08 | Pg of Pgs

Station Name: Lateral 2 ½ Near Keyes Rd
StationID: 535LTHNKR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2008
Personnel: J. Kutz, S. Henderson

DATE (mm/dd/yyyy): 10/21/08
PurposeFailure:
Purpose (Circle all that apply): WaterChem, WaterTox, Habitat, FieldMeasure

Arrival Time: 9:54
SAMPLE TIME: 10:40
Departure Time: 13:19

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.5478	-121.09274
*Actual:	37.54775	-121.08486
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 17

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 1.3 **WATER DEPTH (ft / m):** >17
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other manure
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: E, W **PICTURE NAME:** LTHNKR-Fall1NM_102108_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

All readings confirmed w/ YSI #3

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	21.32
Water Temp (Celsius):	19.31
SC (uS/cm):	478
DO (mg/L):	11.16
pH:	9.57
TDS:	0.311
ORP:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	0.03

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535LTHNKR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535LTHNKR-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535LTHNKR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535LTHNKR-GR	Carbamates, OCs, OPs, Herbicides, Group A Pesticides	1-L Amber Glass	4	
535LTHNKR-GR	Paraquat	1-L Plastic	1	
535LTHNKR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535LTHNKR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535LTHNKR-GR	Glyphosate	40-mL Glass Amber vial	2	
535LTHNKR-GR	E. coli	100-mL Polyethylene	1	
535LTHNKR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

QC samples collected here. water wind blown W→E

.21
6 | 1.3,0

MLJ LLC Discharge Field Sheet

Sampler: S. Henderson
Date: 10/21/08
Site ID: S35L TANKR
Site Name: Lateral 2½ Near Keyes Rd

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) / m/s

	Interval Midpoint (meters or feet)	Interval Depth meters or feet	Velocity		Duration
1	2.57	0.5	0.2 or 0.6	0.05	
			0.8 only		
2	2.72	0.6	0.2 or 0.6	0.01	
			0.8 only		
3	2.93	0.55	0.2 or 0.6	0.00	
			0.8 only		
4	3.14	0.6	0.2 or 0.6	0.02	
			0.8 only		
5	3.25	0.6	0.2 or 0.6	0.00	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 2.3
Right Edge Water (REW) 3.6
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 0.03 cfs

Discharge calculated by (date and initials):
JEK 10/22/08

Double checked by (date and initials):
G.B 10/27/08

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

Caltest DI water FB samples
Temp: 19.0 80C
DW 8.54

Caltest DI water for FB samples: **pH:** 8.54 **Temperature:** 19.08

QC Samples Collected		Analyte	Container	Number	Notes
X	535LTHNKR-GR2	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
X	535LTHNKR-GR2	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
X	535LTHNKR-FB	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
X	535LTHNKR-GR2	TOC	40-mL Glass Amber vial, set of 3	1	
X	535LTHNKR-FB	TOC	40-mL Glass Amber vial, set of 3	1	
X	535LTHNKR-GR2	Total Metals	500-mL Plastic (w/HNO3)	1	
X	535LTHNKR-GR2	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
X	535LTHNKR-FB	Total Metals	500-mL Plastic (w/HNO3)	1	
X	535LTHNKR-FB	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
X	535LTHNKR-TB	Total Metals	500-mL Plastic (w/HNO3)	1	
X	535LTHNKR-TB	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
X	535LTHNKR-GR2	Glyphosate	40-mL Glass vial	2	
X	535LTHNKR-FB	Glyphosate	40-mL Glass vial	2	
X	535LTHNKR-FB	E. coli	100-mL Polyethylene	1	
X	535LTHNKR-GR2	E. coli	260-mL Polyethylene	1	
X	535LTHNKR-GR2	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
X	535LTHNKR-FB	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
X	535LTHNKR-GR2	Pesticides	1-L Amber Glass	4	
X	535LTHNKR-FB	Pesticides	1-L Amber Glass	4	
X	535LTHNKR-MS	Pesticides	1-G Amber Glass	3	
X	535LTHNKR-GR2	Paraquat	1-L Plastic	1	
X	535LTHNKR-FB	Paraquat	1-L Plastic	1	
X	535LTHNKR-MS	Paraquat	1-L Plastic	1	

MLJ LLC Discharge Field Sheet

Sampler: _____
Date: _____
Site ID: _____
Site Name: _____

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____
Water Depth (H): _____
Top of Sediment to Top of Culvert (S): _____
Sed. Depth (D-S): _____
Velocity @ 0.2H: _____
Velocity @ 0.6H: _____
Velocity @ 0.8H: _____

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.8		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): _____

Discharge calculated by (date and initials):

_____

Double checked by (date and initials):

_____

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) GB 10/27/08 double checker: FW 11/13/08 Pg of Pgs

Station Name: Merced River @ Santa Fe
StationID: 535XMRSFD
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2008
Personnel: J. Katz, G. Henderson

DATE (mm/dd/yyyy): 10/21/08
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 1414
SAMPLE TIME: 15 : 00
Departure Time: 15:17

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 33
WATER DEPTH (ft / m): 0.5
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: cndv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W, 1S
PICTURE NAME: MRSFD-Fall1NM_102108-E,W,S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4271	-120.6721
*Actual:	37.42784	-120.67373
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 27

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	23.51
Water Temp (Celsius):	17.09
SC (uS/cm):	30
DO (mg/L):	10.22
pH:	7.94
TDS:	0.019
ORP:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	264 cfs

Samples Taken (# of Containers Filled) Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XMRSFD-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMRSFD-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMRSFD-GR	Organophosphates, Organochlorines, Group A Pesticides	1-L Amber Glass	2	
535XMRSFD-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMRSFD-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMRSFD-GR	E. coli	100-mL Polyethylene	1	
535XMRSFD-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Retrieve discharge information from CDEC retrieved Q on 10/22/08 JEK from gage (CRS) Merced River @ Cressy
Time = 15:00

Administrative Record
Page 17368

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): 10/27/08

double checker: FV 11/13/08

Pg of Pgs

Station Name: Prairie Flower Drain @ Crows Landing Rd
StationID: 535XPFDCL
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2008

DATE (mm/dd/yyyy): 10/21/08
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 13:38
SAMPLE TIME: 13:50
Departure Time: 14:02

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

Personnel: J, Katz, S. Henderson

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 4.0
WATER DEPTH (ft / m): .14
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4422	-121.0024
*Actual:	37.44186	-121.00314
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 25

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	23.63
Water Temp (Celsius):	18.44
SC (uS/cm):	1742
DO (mg/L):	14.54
pH:	~~7.77~~ 7.77
TDS:	1.132
ORP:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	0.93

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N, E, S, W
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: PFDCL_fall1NM_102108_E, W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XPFDCL-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XPFDCL-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XPFDCL-GR	E. coli	100-mL Polyethylene	1	
535XPFDCL-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

MLJ LLC Discharge Field Sheet

Sampler: J Katz
Date: 10/21/08
Site ID: PFSC1
Site Name: ~~EAR~~ PRAIRIE FLOWER DRAIN @ CROWS Landing Rd

Method: wading / bridge
Meter: MMB / other
Meter Units: fps m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.10	0.4	0.2 or 0.6	0.02	20 sec
			0.8 only		
2	1.76	0.5	0.2 or 0.6	0.13	
			0.8 only		
3	2.42	0.4	0.2 or 0.6	0.31	
			0.8 only		
4	3.08	0.5	0.2 or 0.6	.30	
			0.8 only		
5	3.74	0.4	0.2 or 0.6	0.20	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 4.4m
Right Edge Water (REW) 0.4m
Start Time (24 hr):
End Time (24 hr):
Discharge (cfs): 0.93 cfs

Discharge calculated by (date and initials): JEK 10/22/08

Double checked by (date and initials): G.B 10/27/08

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date): GB 1/27/08 double checker: Pg of Pgs

Station Name: Mustang Creek @ East Ave
StationID: 535XMCAEA
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2008
Personnel: J. Katz, S. Henderson

DATE (mm/dd/yyyy): 10/21/08
PurposeFailure: Dry site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 13:45
SAMPLE TIME:
Departure Time: 13:51

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Haze
PICTURE NUMBER: 1N
PICTURE NAME: MCAEA_fall1NM_102108_N
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4918	-120.6839
*Actual:	37.49177	-120.68485
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 20

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMCAEA-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMCAEA-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMCAEA-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMCAEA-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	4	
535XMCAEA-GR	Paraquat	1-L Plastic	1	
535XMCAEA-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMCAEA-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMCAEA-GR	Glyphosate	40-mL Glass Amber vial	2	
535XMCAEA-GR	E. coli	100-mL Polyethylene	1	
535XMCAEA-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Site Dry

Administrative Record
Page 17370

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) GIB 10/27/08 double checker: FW 11/13/08 Pg of Pgs

Station Name: Mootz Drain @ Langworth Rd
StationID: 535XMDALR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2008
Personnel: J. Katz, S. Henderson

DATE (mm/dd/yyyy): 10/21/2008
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 8:19
SAMPLE TIME: n/a
Departure Time: 8:29

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.70582	-120.89303
*Actual:	37.70539	-120.89413
Difference:		
GPS Model:	MLJ-LLC Garmin eTrex	Datum: NAD 83
		Accuracy (ft / m): 21

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): **WATER DEPTH (ft / m):**
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox **Method=Water_Grab** **Position in Water Column: Subsurface** **Depth: 0.1 m**

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat **Method: Not Applicable**

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: ~~1E, 1W~~ MDALR_Fall1NM_102108_E, W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) **Field Dup: Yes / No**

Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum *	1-Gal Amber Glass	5	
535XMDALR-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P) *	500-mL Plastic (w/H2SO4)	2	
535XMDALR-GR	TOC *	40-mL Glass Amber vial, set of 3	3	
535XMDALR-GR	Carbamates, OCs, OPs, Herbicides, Group A Pesticides *	1-L Amber Glass	4	
535XMDALR-GR	Paraquat *	1-L Plastic	1	
535XMDALR-GR	Total Metals, hardness (as CaCO3) *	500-mL Plastic (w/HNO3)	2	
535XMDALR-GR	Dissolved Metals, hardness (as CaCO3) *	500-mL Plastic (w/HNO3)	2	Filtered sample
535XMDALR-GR	Glyphosate *	40-mL Glass Amber vial	x5	
535XMDALR-GR	E. coli *	100-mL Polyethylene	1	
535XMDALR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P) *	2-L Plastic Jug	2	

QC Site, see reverse for QC sample list.

Dry Site

Caltest DI water for FB samples: **pH:** | **Temperature:**

QC Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR2	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR2	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-FB	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-GR2	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-FB	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-GR2	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-GR2	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-TB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-TB	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-GR2	Glyphosate	40-mL Glass vial	2	
535XMDALR-FB	Glyphosate	40-mL Glass vial	2	
535XMDALR-FB	E. coli	100-mL Polyethylene	1	
535XMDALR-GR2	E. coli	260-mL Polyethylene	1	
535XMDALR-GR2	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
535XMDALR-FB	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
535XMDALR-GR2	Pesticides	1-L Amber Glass	4	
535XMDALR-FB	Pesticides	1-L Amber Glass	4	
535XMDALR-MS	Pesticides	1-G Amber Glass	3	
535XMDALR-GR2	Paraquat	1-L Plastic	1	
535XMDALR-FB	Paraquat	1-L Plastic	1	
535XMDALR-MS	Paraquat	1-L Plastic	1	

MLJ LLC Discharge Field Sheet

Sampler: _____
Date: _____
Site ID: _____
Site Name: _____

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____
Water Depth (H): _____
Top of Sediment to Top of Culvert (S): _____
Sed. Depth (D-S): _____
Velocity @ 0.2H: _____
Velocity @ 0.6H: _____
Velocity @ 0.8H: _____

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.8		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): _____

Discharge calculated by (date and initials):

_____

Double checked by (date and initials):

_____

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date): GIB 10/27/08 double checker: FW 11/13/08 Pg of Pgs

Station Name: Deadman Creek @ Gurr Rd
StationID: 535XDCAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2008
Personnel: F. Wulff, G. Bohrer

DATE (mm/dd/yyyy): 10/21/2008
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 10:35
SAMPLE TIME: 10:50
Departure Time: 11:36

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 4.2 WATER DEPTH (ft / m): .31
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1-E 1-W
PICTURE NAME: DCAGR_Fall1NM_102108_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.1936	-120.5612
*Actual:	37.19495	-120.36139
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 61

Field Results

SampleType=FieldMeasure: Method=Field
Depth: 0.1 m Position In Column: Subsurface

Air Temp (Celsius):	22.56	19.92
Water Temp (Celsius):	15.21	15.62
SC (uS/cm):	419	534
DO (mg/L):	11.76	10.57
pH:	8.88	8.12
TDS:		
ORP:		
YSI Meter ID:	[illegible]1	#2
Stage:		
Calculated Site Discharge:	.89	

Samples Taken (# of Containers Filled) Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAGR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XDCAGR-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDCAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAGR-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	4	
535XDCAGR-GR	Paraquat	1-L Plastic	1	
535XDCAGR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XDCAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDCAGR-GR	Glyphosate	40-mL Glass Amber vial	2	
535XDCAGR-GR	E. coli	100-mL Polyethylene	1	
535XDCAGR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record
Page 17373

MLJ LLC Discharge Field Sheet

Sampler: F. WOLFF
Date: 10/21/08
Site ID: S35XDCAGR
Site Name: Deadman creek @ Gurr road

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	.7	.45	0.2 or 0.6	0.07	30 sec
			0.8 only		
2	1.4	1.0	0.2 or 0.6	0.14	
			0.8 only		
3	2.1	1.0 ~~0.8~~	0.2 or 0.6	0.13	
			0.8 only		
4	2.8	~~0.8~~	0.2 or 0.6	0.09	
			0.8 only		
5	3.5	.5	0.2 or 0.6	0.03	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW): Ø
Right Edge Water (REW): 4.2
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 0.89 cfs

Discharge calculated by (date and initials):
JEK 10/22/08

Double checked by (date and initials):
G.B 10/27/08

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

.7
.7
6|4.2 1.4
.7 .7
3.5 2.1
.7
2.8
.7
5

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) GB 10/27/08 double checker: FW 11/13/08 Pg of Pgs

Station Name: Ash Slough @ Ave 21
StationID: 545XASAAT
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2008
Personnel: F. Wulff, G. Bohner

DATE (mm/dd/yyyy): 10/21/08
PurposeFailure: Dry site
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 10:05
SAMPLE TIME:
Departure Time: 10:12

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): **WATER DEPTH (ft / m):**
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.0545	-120.4158
*Actual:	37.05446	-120.41590
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (10 / m): 14

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, (Sand), Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, (Dry Waterbody Bed), No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, (Partly Cloudy), Overcast, Fog, Hazy
PICTURE NUMBER: 1SE, 1NW
PICTURE NAME: ASAAT_Fall1NW_102108_SW, NE
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
545XASAAT-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
545XASAAT-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
545XASAAT-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XASAAT-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	4	
545XASAAT-GR	Paraquat	1-L Plastic	1	
545XASAAT-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
545XASAAT-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
545XASAAT-GR	Glyphosate	40-mL Glass Amber vial	2	
545XASAAT-GR	E. coli	100-mL Polyethylene	1	
545XASAAT-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Dry site

Administrative Record
Page 17376

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): GB 10/27/08

double checker: FW 11/13/08

Pg of Pgs

Station Name: Cottonwood Creek @ Rd 20
StationID: 545XCCART
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2008
Personnel: F. Wulff, G. Bohrer

DATE (mm/dd/yyyy): 10/21/2008
PurposeFailure: Dry site
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 09:17
SAMPLE TIME:
Departure Time: 09:22

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	36.8686	-120.1818
*Actual:	36.86860	-120.18285
Difference:		
GPS Model:	MLJ-LLC Garmin eTrex	Datum: NAD 83
		Accuracy (ft / m): 22

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None) Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, (Light Breeze) Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, (Dry Waterbody Bed) No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: Clear, (Partly Cloudy) Overcast, Fog, Hazy
PICTURE NUMBER: 1W, 1E
PICTURE NAME: CART_FallNM_102108_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
545XCCART-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
545XCCART-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XCCART-GR	E. coli	100-mL Polyethylene	1	
545XCCART-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Dry site.

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) double checker: FW 11/13/08 Pg of Pgs

Station Name: Duck Slough @ Gurr Rd
StationID: 535XDSAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2008
Personnel: F. Wulff G. Bohler

DATE (mm/dd/yyyy): 10/21/08 GB 10/27/08
PurposeFailure: Dry site
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 11:41
SAMPLE TIME:
Departure Time:

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): **WATER DEPTH (ft / m):**
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2142	-120.5596
*Actual:	37.21410	-120.56094
Difference:		
GPS Model:	MLJ-LLC Garmin eTrex	Datum: NAD 83
		Accuracy (ft / m): 26

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1-E 1-W 2-N **PICTURE NAME:** DSAGR_Fall1NM_102108_E,W,N1,N2
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDSAGR-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDSAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDSAGR-GR	Organophosphates	1-L Amber Glass	1	
535XDSAGR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XDSAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDSAGR-GR	E. coli	100-mL Polyethylene	1	
535XDSAGR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Dry site

Administrative Record
Page 17377

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) double checker: FW 11/13/08 Pg of Pgs

Station Name: Howard Lateral @ Hwy 140
StationID: 535XHLAHO
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2008
Personnel: F. Wulff, G. Bohrer

DATE (mm/dd/yyyy): 10/21/2008 10/27/08
PurposeFailure: Dry site.
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 12:12
SAMPLE TIME:
Departure Time: 12:18

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): **WATER DEPTH (ft / m):**
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.3079	-120.7820
*Actual:	37.30740	-120.78217
Difference:		
GPS Model:	MLJ-LLC Garmin eTrex	Datum: NAD 83
		Accuracy (ft / m): 23

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N NE E SE S SW W NW
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1S **PICTURE NAME:** HLAHO_Fall1NM_102108_N,S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHLAHO-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XHLAHO-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XHLAHO-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHLAHO-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	4	
535XHLAHO-GR	Paraquat	1-L Plastic	1	
535XHLAHO-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XHLAHO-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XHLAHO-GR	Glyphosate	40-mL Glass Amber vial	2	
535XHLAHO-GR	E. coli	100-mL Polyethylene	1	
535XHLAHO-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Dry site

Administrative Record
Page 17378

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) GB 10/27/08

double checker: FW 11/13/08 Pg of Pgs

Station Name: Highline Canal @ Hwy 99
StationID: 535XHCHNN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2008
Personnel: F. Wolff G. Bowers

DATE (mm/dd/yyyy): 10/21/08
PurposeFailure: non Flow
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 12:50
SAMPLE TIME:
Departure Time:

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA — DS

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4153	-120.7557
*Actual:	37.41249	- 120.75937
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 0.5

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 3-E 1-W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

PICTURE NAME: HCHNN_FallNM_102108_W1, E1, E2, E3, fish1, fish2, W2

Field Results

SampleType=FieldMeasure: Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHCHNN-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XHCHNN-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHCHNN-GR	E. coli	100-mL Polyethylene	1	
535XHCHNN-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

non continuous flow

East San Joaquin Water Quality Coalition

Fall 2 NM Sampling
Field Sheets

2008 November 11

Adminsitrative Record
Page 17380

11/11/08

Field Exceedances

Review field measures from each site. Record any measurements in the exceedance range in the chart below. Be sure to record the site ID. Only transcribe exceedance measurements, leaving other fields blank.

	Event type	Site ID	pH	EC (µS/cm)	DO (mg/L)
MOALR	NM	Mootz Drain @ Langworth Rd	4.32		3.55
LTHMKR	NM	Lateral 2½ Near Keyes Rd	9.09		
PFDCL	NM	Prairie Flower Drain @ Crows Landing Rd		2151	

Administrative Record
Page 17381

11/11/08

Meter Calibration Log

Team 1

Team 1 members: J. Katz, S. Henderson
Primary multiparameter meter ID: YSI #4 — Serial number: 07K101586
Backup multiparameter meter ID: — Serial number:
Discharge meter ID: — Serial number:
GPS Unit ID: — Serial number:
Auxiliary meter ID: — Serial number:
Camera ID:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.03		4.01		11/10/08	S.H.
pH 7	6.98		7.00		11/10/08	S.H.
pH 10	10.10		10.01		11/10/08	S.H.
1413 µS/cm	1402		1413		11/10/08	S.H.
pH 4	4.02		4.00		11/12/08	S.H.
pH 7	6.99		7.00		11/12/08	S.H.
pH 10	10.03		10.00		11/12/08	S.H.
1413 µS/cm	1408		1413		11/12/08	S.H.

Team 2

Team 2 members: F. Wolff, G. Bohrer
Primary multiparameter meter ID: YSI #1 — Serial number: 07A1894AE
Backup multiparameter meter ID: YSI #2 — Serial number: 07A189AF
Discharge meter ID: — Serial number:
GPS Unit ID: — Serial number:
Auxiliary meter ID: — Serial number:
Camera ID:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.03	4.02	4.00	4.00	11/10/08	S.H.
pH 7	7.01	6.97	7.00	7.00	11/10/08	S.H.
pH 10	10.11	10.06	10.02	10.01	11/10/08	S.H.
1413 µS/cm	1412	1411	1413	1413	11/10/08	S.H.
pH 4	4.02	4.06	4.00	4.00	11/12/08	S.H.
pH 7	6.99	7.02	7.00	7.00	11/12/08	S.H.
pH 10	10.01	10.08	10.00	10.01	11/12/08	S.H.
1413 µS/cm	1409	1410	1413	1413	11/12/08	S.H.

Administrative Record
Page 17382

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) FW 11/13/08 double checker: G.B 11/18/08 Pg of Pgs

Station Name: Mootz Drain @ Langworth Rd
StationID: 535XMDALR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2008
Personnel: F. Wulff, G. Bohrer

DATE (mm/dd/yyyy): 11/11/2008
PurposeFailure:
Purpose (Circle all that apply): WaterChem / WaterTox / Habitat / FieldMeasure

Arrival Time: 08:09
SAMPLE TIME: 08:30
Departure Time: 09:05

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.70582	-120.89303
*Actual:	37.70544	-120.89417
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 19

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 3E 2-W
PICTURE NAME: MDALR_Fall2NM_111108_2W, 3E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	16.90
Water Temp (Celsius):	9.63
SC (uS/cm):	106
DO (mg/L):	3.55
pH:	4.32
TDS:	
ORP:	
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-GR	Carbamates, OCs, OPs, Herbicides, Group A Pesticides	1-L Amber Glass	4	
535XMDALR-GR	Paraquat	1-L Plastic	1	
535XMDALR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMDALR-GR	Glyphosate	40-mL Glass Amber vial	2	
535XMDALR-GR	E. coli	100-mL Polyethylene	1	
535XMDALR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Too shallow for discharge white powder in the orchard to the

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FW 11/13/08 double checker: G.B 11/18/08 Pg of Pgs

Station Name: Lateral 2 ½ Near Keyes Rd
StationID: 535LTHNKR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2008
Personnel: G. Bohler F. Wulff

DATE (mm/dd/yyyy): 11/11/08
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 10:35
SAMPLE TIME: 11:10
Departure Time: 12:52

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.5478	-121.09274
*Actual:	37.5477	- 121.08017
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 38

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 2W 1E
PICTURE NAME: LTHNKR_Fall2NM_111108_2W,1E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	16.09
Water Temp (Celsius):	10.26
SC (uS/cm):	451
DO (mg/L):	7.80
pH:	7.09
TDS:	
ORP:	
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No FW

Samples Collected	Analyte	Container	Number	Notes
535LTHNKR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535LTHNKR-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	2	
535LTHNKR-GR	TOC	40-mL Glass Amber vial, set of 3	3	
535LTHNKR-GR	Carbamates, OCs, OPs, Herbicides, Group A Pesticides	1-L Amber Glass	4	
535LTHNKR-GR	Paraquat	1-L Plastic	1	
535LTHNKR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	
535LTHNKR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	Filtered sample
535LTHNKR-GR	Glyphosate	40-mL Glass Amber vial	5	
535LTHNKR-GR	E. coli	100-mL Polyethylene	1	
535LTHNKR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	2	

QC Site: See reverse for list of samples to collect

Too shallow to measure discharge

Caltest DI water for FB samples: **pH:** 7.28 **Temperature:** 15.89

QC Samples Collected	Analyte	Container	Number	Notes
535LTHNKR-GR2	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535LTHNKR-GR2	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535LTHNKR-FB	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535LTHNKR-GR2	TOC	40-mL Glass Amber vial, set of 3	1	
535LTHNKR-FB	TOC	40-mL Glass Amber vial, set of 3	1	
535LTHNKR-GR2	Total Metals	500-mL Plastic (w/HNO3)	1	
535LTHNKR-GR2	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535LTHNKR-FB	Total Metals	500-mL Plastic (w/HNO3)	1	
535LTHNKR-FB	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535LTHNKR-TB	Total Metals	500-mL Plastic (w/HNO3)	1	
535LTHNKR-TB	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535LTHNKR-GR2	Glyphosate	40-mL Glass vial	2	
535LTHNKR-FB	Glyphosate	40-mL Glass vial	2	
535LTHNKR-FB	E. coli	100-mL Polyethylene	1	
535LTHNKR-GR2	E. coli	260-mL Polyethylene	1	
535LTHNKR-GR2	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
535LTHNKR-FB	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
535LTHNKR-GR2	Pesticides	1-L Amber Glass	4	
535LTHNKR-FB	Pesticides	1-L Amber Glass	4	
535LTHNKR-MS	Pesticides	1-G Amber Glass	3	
535LTHNKR-GR2	Paraquat	1-L Plastic	1	
535LTHNKR-FB	Paraquat	1-L Plastic	1	
535LTHNKR-MS	Paraquat	1-L Plastic	1	

MLJ LLC Discharge Field Sheet

Sampler: _____
Date: _____
Site ID: _____
Site Name: _____

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____
Water Depth (H): _____
Top of Sediment to Top of Culvert (S): _____
Sed. Depth (D-S): _____
Velocity @ 0.2H: _____
Velocity @ 0.6H: _____
Velocity @ 0.8H: _____

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.8		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): _____

Discharge calculated by (date and initials):

_____

Double checked by (date and initials):

_____

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FW 11/13/08 double checker: G.B 11/18/08 Pg of Pgs

Station Name: Merced River @ Santa Fe
StationID: 535XMRSFD
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2008
Personnel: J. KATZ, S. HENDERSON

DATE (mm/dd/yyyy): 11/11/08
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 12:38
SAMPLE TIME: 13:00
Departure Time: 13:20

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel) Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4271	-120.6721
*Actual:	37.42497	-120.67298
Difference:		
GPS Model:	MLJ-LLC Garmin eTrex	Datum: NAD 83
		Accuracy (ft / m): 21

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in) Bridge, Other
STARTING BANK: (LB) / RB/ NA
STREAM WIDTH (ft / m): 33
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: (US) / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble), Gravel, Sand, Mud, Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) NO
WIND: Calm, Light Breeze, (Gusty)
WATERCOLOR: (Colorless), Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, (50 - 200 cfs), >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, (Overcast), Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: MRSFO_Fall2NM_111108_1E,1W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, (Trash), None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	22.20
Water Temp (Celsius):	14.07
SC (uS/cm):	30
DO (mg/L):	10.47
pH:	8.05
TDS:	0.019
ORP:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	294 cfs

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XMRSFD-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMRSFD-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMRSFD-GR	Organophosphates, Organochlorines, Group A Pesticides	1-L Amber Glass	2	
535XMRSFD-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMRSFD-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMRSFD-GR	E. coli	100-mL Polyethylene	1	
535XMRSFD-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Retrieve discharge information from CDEC retrieved 11/12/08 JER FW 11/12/08

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FW 11/13/08 double checker: G.B 4/18/08 Pg of Pgs

Station Name: Deadman Creek @ Gurr Rd
StationID: 535XDCAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2008
Personnel: J. KATZ, S. HENDERSON

DATE (mm/dd/yyyy): 11/11/08
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 10:23
SAMPLE TIME: 10:40
Departure Time: 11:25

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 1.93
WATER DEPTH (ft / m): 0.20
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.1936	-120.5612
*Actual:	37.19500	-120.56136
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 20

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pools, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: DCAGR_Fall2NM_11108_1E,1W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	18
Water Temp (Celsius):	13.70
SC (uS/cm):	489
DO (mg/L):	13.22
pH:	8.32
TDS:	0.318
ORP:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	0.57cfs

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDCAGR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XDCAGR-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDCAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAGR-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	4	
535XDCAGR-GR	Paraquat	1-L Plastic	1	
535XDCAGR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XDCAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDCAGR-GR	Glyphosate	40-mL Glass Amber vial	2	
535XDCAGR-GR	E. coli	100-mL Polyethylene	1	
535XDCAGR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

6/11.92 .32

MLJ LLC Discharge Field Sheet

Sampler: S. Henderson
Date: 11/11/08
Site ID: 535DCAGR
Site Name: Deadman Creek @ Gurr Rd

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) / m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	0.32	0.35	0.2 or 0.6	0.09	
			0.8 only		
2	0.64	0.50	0.2 or 0.6	0.18	
			0.8 only		
3	0.96	0.65	0.2 or 0.6	0.22	
			0.8 only		
4	1.28	0.65	0.2 or 0.6	0.23	
			0.8 only		
5	1.60	0.50	0.2 or 0.6	0.26	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0
Right Edge Water (REW) 1.93
Start Time (24 hr):
End Time (24 hr):
Discharge (cfs): 0.57

Discharge calculated by (date and initials):
JEK 11/12/08

Double checked by (date and initials):
FW 11/12/08

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) FW 11/13/08 double checker: G.B 11/18/08 Pg of Pgs

Station Name: Dry Creek @ Wellsford Rd
StationID: 535XDCAWR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2008
Personnel: F. Wulff, G. Bohrer

DATE (mm/dd/yyyy): 11/11/2008
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 09:11
SAMPLE TIME: 09:30
Departure Time: 09:42

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel) Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.6602	-120.8743
*Actual:	37.66058	-120.87347
Difference:		
GPS Model:	MLJ-LLC Garmin eTrex	Datum: NAD 83
		Accuracy (ft / m): 28

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB (RB) NA
STREAM WIDTH (ft / m): 7.6 WATER DEPTH (ft / m): 0.27
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US (DS) NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble), Gravel, Sand, Mud, Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: (Colorless), Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, (1 - 5 cfs), 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: (Clear), (Partly Cloudy), Overcast, Fog, Hazy
PICTURE NUMBER: 1-SE 1SW
PICTURE NAME: DCAWR-Fall2YM-111108-1SE, 1SW
PRECIPITATION (last 24 hrs): Unknown, <1", >1" (None)
OTHER PRESENCE: (Vascular), (Nonvascular), (DilySheen), Foam, Trash, (None), Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	13.64
Water Temp (Celsius):	10.34
SC (uS/cm):	59
DO (mg/L):	7.39
pH:	6.65
TDS:	
ORP:	
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	0.99 cfs

Samples Taken (# of Containers Filled) Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDCAWR-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDCAWR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAWR-GR	E. coli	100-mL Polyethylene	1	
535XDCAWR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record
Page 17389

MLJ LLC Discharge Field Sheet

Sampler: J. WOLFF
Date: 11/11/08
Site ID: 535XDCAWR
Site Name: Dry Creek @ Wellsford ~~Rd~~ road

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s / m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.1	.5	0.2 or 0.6	0.01	30sec
			0.8 only		
2	2.2	.9	0.2 or 0.6	0.03	
			0.8 only		
3	3.3	1.1	0.2 or 0.6	0.08	
			0.8 only		
4	4.4	.9	0.2 or 0.6	0.11	
			0.8 only		
5	5.5	.9	0.2 or 0.6	0.06	
			0.8 only		
6	6.6	.9	0.2 or 0.6	Ø	
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 7.6
Right Edge Water (REW) 0
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 0.99

Discharge calculated by (date and initials):
JEK 11/12/08

Double checked by (date and initials):
FW 11/12/08

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

1
6 | 7.6
6
1.6

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FW 11/13/08 double checker: G.B 11/17/08 Pg of Pgs

Station Name: Prairie Flower Drain @ Crows Landing Rd
StationID: 535XPFDCL
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2008
Personnel: F. Wulff, G. Bohrer

DATE (mm/dd/yyyy): 11/11/2008
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 13:18
SAMPLE TIME: 13:30
Departure Time: 13:57

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 3.5
WATER DEPTH (ft / m): 0.06
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, (Culvert) Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4422	-121.0024
*Actual:	37.44173	-121.00328
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 26

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1 cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E 1W
PICTURE NAME: PFDCL_Fall2NM_111108_1E,1W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	18.60
Water Temp (Celsius):	15.23
SC (uS/cm):	2151
DO (mg/L):	11.90
pH:	8.13
TDS:	
ORP:	
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	0.09 cfs

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XPFDCL-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XPFDCL-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XPFDCL-GR	E. coli	100-mL Polyethylene	1	
535XPFDCL-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

MLJ LLC Discharge Field Sheet

Sampler: F. Wulff
Date: 11/11/08
Site ID: 535 x P7DCL
Site Name: Peace + Lower Drain @ CDOLS Landing

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

6 | 3.5

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	.6	.2	0.2 or 0.6	-0.11	
			0.8 only		
2	1.2	.2	0.2 or 0.6	0.05	
			0.8 only		
3	1.8	.2	0.2 or 0.6	-0.11	
			0.8 only		
4	2.4	.2	0.2 or 0.6	0.40	
			0.8 only		
5	3.0	.2	0.2 or 0.6	0	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW): 0
Right Edge Water (REW): 3.5
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 0.09 cfs

Discharge calculated by (date and initials):
JEB 11/12/08

Double checked by (date and initials):
FW 11/12/08

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FW 11/13/08 double checker: G.B 11/18/08 Pg of Pgs

Station Name: Highline Canal @ Hwy 99
StationID: 535XHCHNN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2008
Personnel: J. KATZ, S. HENDERSON

DATE (mm/dd/yyyy): 11/11/08
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 8:09
SAMPLE TIME:
Departure Time: 8:18

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: (LB) RB/ NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: (US) DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4153	-120.7557
*Actual:	37.41244	-120.75943
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft) m): 20

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: X None, Sulfides, Sewage, Petroleum, Mixed, Other Manure
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, (Sand), Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, (Dry Waterbody Bed), No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right XX → (N, W, E, S)
SKY CODE: Clear, (Partly Cloudy), Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: HCHNN_F11_2NM_111108_1W, 1E
PRECIPITATION (last 24 hrs): Unknown, <1", >1" (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, (Trash), None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XHCHNN-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XHCHNN-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHCHNN-GR	E. coli	100-mL Polyethylene	1	
535XHCHNN-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Dry Site, no samples collected

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FW 11/13/08 double checker: G.B 11/18/08 Pg of Pgs

Station Name: Ash Slough @ Ave 21
StationID: 545XASAAT
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2008
Personnel: J. KATZ, S. HENDERSON

DATE (mm/dd/yyyy): 11/11/08
PurposeFailure: Dry Site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 9:56
SAMPLE TIME:
Departure Time: 10:00

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: (LB) RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: (US) DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.0545	-120.4158
*Actual:	37.05448	-120.41590
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 16

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: ~~None~~, Sulfides, Sewage, Petroleum, Mixed, Other fertilizer?
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, (Sand), Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, (Dry Waterbody Bed), No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, (Hazy)
PICTURE NUMBER: 1N, 1S
PICTURE NAME: ASAAT_Fall2008_111108_1N,1S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes (No)

Samples Collected	Analyte	Container	Number	Notes
545XASAAT-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
545XASAAT-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
545XASAAT-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XASAAT-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	4	
545XASAAT-GR	Paraquat	1-L Plastic	1	
545XASAAT-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
545XASAAT-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
545XASAAT-GR	Glyphosate	40-mL Glass Amber vial	2	
545XASAAT-GR	E. coli	100-mL Polyethylene	1	
545XASAAT-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record
Page 17394

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FW 11/13/08 double checker: G.B 11/18/08 Pg of Pgs

Station Name: Cottonwood Creek @ Rd 20
StationID: 545XCCART
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2008
Personnel: J. KATZ, S. HENDERSON

DATE (mm/dd/yyyy): 11/11/08
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 9:16
SAMPLE TIME:
Departure Time: 9:22

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	36.8686	-120.1818
*Actual:	36.86858	-120.18281
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 15

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: CCART_Fall2NM_111108_1E, 1W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XCCART-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
545XCCART-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XCCART-GR	E. coli	100-mL Polyethylene	1	
545XCCART-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Dry Site, No samples collected

Administrative Record
Page 17395

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FW 11/13/08 double checker: G.B 11/18/08 Pg of Pgs

Station Name: Duck Slough @ Gurr Rd
StationID: 535XDSAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2008
Personnel: J. KATZ, S. HENDERSON

DATE (mm/dd/yyyy): 11/11/08
PurposeFailure: DRY Site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 11:27
SAMPLE TIME: —
Departure Time: 11:32

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2142	-120.5596
*Actual:	37.21416	-120.56093
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 19

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W, 1N
PICTURE NAME: DSAGR_F11_2NM_111108_1E,1W,1N
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDSAGR-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDSAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDSAGR-GR	Organophosphates	1-L Amber Glass	1	
535XDSAGR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XDSAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDSAGR-GR	E. coli	100-mL Polyethylene	1	
535XDSAGR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

DRY site

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) FW 11/13/08 double checker: G.B 11/18/08 Pg of Pgs

Station Name: Howard Lateral @ Hwy 140
StationID: 535XHLAHO
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2008
Personnel: J. KATZ, S. HENDERSON

DATE (mm/dd/yyyy): 11/11/08
PurposeFailure: DRY site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 11:59
SAMPLE TIME: —
Departure Time: 12:05

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1W
PICTURE NAME: HLAHO_Fall2NM_111108_1N, 1W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.3079	-120.7820
*Actual:	37.30780	-120.78210
Difference:		
GPS Model:	MLJ-LLC Garmin eTrex	Datum: NAD 83
		Accuracy (ft / m): 23

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHLAHO-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XHLAHO-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XHLAHO-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHLAHO-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	4	
535XHLAHO-GR	Paraquat	1-L Plastic	1	
535XHLAHO-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XHLAHO-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XHLAHO-GR	Glyphosate	40-mL Glass Amber vial	2	
535XHLAHO-GR	E. coli	100-mL Polyethylene	1	
535XHLAHO-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

DRY site

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) FW 11/13/08 double checker: G.B 1/18/08 Pg of Pgs

Station Name: Mustang Creek @ East Ave
StationID: 535XMCAEA
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2008
Personnel: F. Wulff, G. Bohrer

DATE (mm/dd/yyyy): 11/11/08
PurposeFailure: Dry site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 13:35
SAMPLE TIME: —
Departure Time: 13:41

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4918	-120.6839
*Actual:	37.49187	-120.68508
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 22

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other — Cattle & Manure
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1S, 1E
PICTURE NAME: MCAEA_Fall2NM_111108_1S,1E,1N
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMCAEA-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMCAEA-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMCAEA-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMCAEA-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	4	
535XMCAEA-GR	Paraquat	1-L Plastic	1	
535XMCAEA-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMCAEA-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMCAEA-GR	Glyphosate	40-mL Glass Amber vial	2	
535XMCAEA-GR	E. coli	100-mL Polyethylene	1	
535XMCAEA-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

East San Joaquin Water Quality Coalition

Storm 3 NM Sampling
Field sheets

2008 December 16

Adminsitrative Record
Page 17399

12/16/08

Field Exceedances

Review field measures from each site. Record any measurements in the exceedance range in the chart below. Be sure to record the site ID. Only transcribe exceedance measurements, leaving other fields blank.

Storm 3

FDCL
CAWR

Event type	Non contiguious flow	Site ID	pH	EC (µS/cm)	DO (mg/L)
NM		Prairie Flower Drain @ Crows Landing Rd		2298	
NM		Dry Creek @ Wellsford Rd	8.68		2.77

Administrative Record
Page 17400

12/16/08

Meter Calibration Log

Team 1

Team 1 members: J. Katz, S. Henderson
Primary multiparameter meter ID: YSI #2
Backup multiparameter meter ID: YSI # 4
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07A1894AF
Serial number: 07K101586
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.00	4.04	4.00	4.00	12/15/08	G.B.
pH 7	6.86	6.94	7.00	7.00	12/15/08	GB
pH 10	10.10	10.03	10.02	10.01	12/15/08	GB
1413 µS/cm	1425	1391	1413	1413	12/15/08	GB
pH 4	4.08	4.07	4.00	4.00	12/17/08	S.H.
pH 7	7.04	7.00	7.01	7.00	12/17/08	S.H.
pH 10	10.08	10.11	10.01	10.02	12/17/08	S.H.
1413 µS/cm	1415	1436	1413	1413	12/17/08	S.H.

Team 2

Team 2 members: F. Wulff, G. Bohrer
Primary multiparameter meter ID: YSI #1
Backup multiparameter meter ID: YSI #3
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07A1894AE
Serial number: 07K101387
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.04	4.02	4.00	4.00	12/15/08	G.B.
pH 7	6.95	6.95	7.00	7.00	12/15/08	G.B.
pH 10	10.07	10.00	10.01	10.00	12/15/08	GB
1413 µS/cm	1426	1417	1413	1413	12/15/08	G.B.
pH 4	4.04	4.01	4.00	4.00	12/17/08	S.H.
pH 7	6.99	6.99	7.00	7.00	12/17/08	S.H.
pH 10	10.07	10.04	10.01	10.01	12/17/08	S.H.
1413 µS/cm	1412	1417	1413	1413	12/17/08	S.H.

Administrative Record
Page 17401

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) | double checker: FW 12/18/08 | Pg of Pgs

Station Name: Mootz Drain @ Langworth Rd
StationID: 535XMDALR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 3 2008

DATE (mm/dd/yyyy): 12/16/08 G.B 12/17/08
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 8:06
SAMPLE TIME: 8:40
Departure Time: 9:00

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

Personnel: J. KATZ, S. HENDERSON

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): 1.5 **WATER DEPTH (ft / m):** 0.37
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.70582	-120.89303
*Actual:	37.70531	-120.89414
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 21

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Hdiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W **PICTURE NAME:** MDALR_Storm 3_121608_1E, 1W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position In Column: Subsurface

Air Temp (Celsius):	9.04
Water Temp (Celsius):	4.73
SC (uS/cm):	504
DO (mg/L):	9.62
pH:	7.89
TDS:	0.331
ORP:	
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-GR	Carbamates, OCs, OPs, Herbicides, Group A Pesticides	1-L Amber Glass	4	
535XMDALR-GR	Paraquat	1-L Plastic	1	
535XMDALR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMDALR-GR	Glyphosate	40-mL Glass Amber vial	2	
535XMDALR-GR	E. coli	100-mL Polyethylene	1	
535XMDALR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) G.B 12/17/08 | double checker: FW 12/18/08 | Pg of Pgs

Station Name: Dry Creek @ Wellsford Rd
StationID: 535XDCAWR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 3 2008
Personnel: J. Katz, S. Henderson

DATE (mm/dd/yyyy): 12/16/08
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 9:08
SAMPLE TIME: 9:20
Departure Time: 9:38

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 5m
WATER DEPTH (ft / m): 0 NA .30m
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.6602	-120.8743
*Actual:	37.66060	-120.87550
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 16

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: DCAWR_Storm3_121608_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	6.36
Water Temp (Celsius):	6.79
SC (uS/cm):	551
DO (mg/L):	10.77
pH:	8.68
TDS:	0.358
ORP:	
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAWR-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDCAWR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAWR-GR	E. coli	100-mL Polyethylene	1	
535XDCAWR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) double checker: FW 12/18/08 Pg of Pgs

Station Name: Mustang Creek @ East Ave
StationID: 535XMCAEA
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 3 2008
Personnel: J. Katz, S. Henderson

DATE (mm/dd/yyyy): 12/16/08 G.B 12/17/08
PurposeFailure: Dry Site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 12:17
SAMPLE TIME: —
Departure Time: 12:22

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4918	-120.6839
*Actual:	37.49191	-120.68510
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 17

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1NE, 1S PICTURE NAME: MCAEA_Storm3_121608_NE,S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMCAEA-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMCAEA-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMCAEA-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMCAEA-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	4	
535XMCAEA-GR	Paraquat	1-L Plastic	1	
535XMCAEA-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMCAEA-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMCAEA-GR	Glyphosate	40-mL Glass Amber vial	2	
535XMCAEA-GR	E. coli	100-mL Polyethylene	1	
535XMCAEA-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Dry Site

Administrative Record

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) GB 12/17/08 | double checker: FW 12/18/08 | Pg of Pgs

Station Name: Highline Canal @ Hwy 99
StationID: 535XHCHNN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 3 2008
Personnel: J. Katz, S. Henderson

DATE (mm/dd/yyyy): 12/16/08
PurposeFailure: Dry site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 13:32
SAMPLE TIME: —
Departure Time: 13:45

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4153	-120.7557
*Actual:	37.41241	-120.75938
Difference:		
GPS Model:	MLJ-LLC Garmin eTrex	Datum: NAD 83
		Accuracy (ft / m): NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other manure
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N, W, E, S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: HCHNN_Storm3_121608_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHCHNN-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XHCHNN-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHCHNN-GR	E. coli	100-mL Polyethylene	1	
535XHCHNN-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Dry Site

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) G.B 2/17/08

double checker: FW 12/18/08 Pg of Pgs

Station Name: Prairie Flower Drain @ Crows Landing Rd
StationID: 535XPFDCL
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 3 2008
Personnel: J. Katz, J. Henderson

DATE (mm/dd/yyyy): 12/16/08
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox Habitat (FieldMeasure)

Arrival Time: 10:56
SAMPLE TIME: 11:10
Departure Time: 11:42

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel) Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB / (RB) / NA
STREAM WIDTH (ft / m): 3.1 **WATER DEPTH (ft / m):** 0.09
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, (Culvert), Other
HYDROMODLOC: US / (DS) / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4422	-121.0024
*Actual:	37.44183	-121.00353
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 24

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud), Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: (Colorless), Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, (0.1 - 1cfs), 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right →
SKY CODE: Clear, Partly Cloudy, (Overcast), Fog, Hazy
PICTURE NUMBER: 1E, 1W **PICTURE NAME:** PFDCL_Storm3_121608_E,W
PRECIPITATION (last 24 hrs): Unknown, (<1"), >1", None
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position In Column: Subsurface

Air Temp (Celsius):	8.90
Water Temp (Celsius):	7.10
SC (uS/cm):	2298
DO (mg/L):	18.52
pH:	8.05
TDS:	1.493
ORP:	
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	0.19

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XPFDCL-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XPFDCL-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XPFDCL-GR	E. coli	100-mL Polyethylene	1	
535XPFDCL-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record

MLJ LLC Discharge Field Sheet

Sampler: S. Henderson
Date: 12/9/08
Site ID: 535XPFDCL
Site Name: PRAIRIE FLOWER DRAIN @ CROWS LANDING RD

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) / m/s

	Interval Midpoint (meters) or feet	Interval Depth meters or (feet)	Velocity		Duration
1	2.8	0.1	0.2 or 0.6	0	
			0.8 only		
2	1.5	0.2	0.2 or 0.6	0.11	
			0.8 only		
3	1.3	0.3	0.2 or 0.6	0.23	
			0.8 only		
4	1.0	0.3	0.2 or 0.6	0.23	
			0.8 only		
5	0.7	0.1	0.2 or 0.6	0.08	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW): 3.3
Right Edge Water (REW): 0.2
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 0.19

Discharge calculated by (date and initials):
FW 12/17/08

Double checked by (date and initials):
JEF 12/18/08

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) G.B 12/17/08 | double checker: FW 12/18/08 | Pg of Pgs

Station Name: Lateral 2 ½ Near Keyes Rd
StationID: 535LTHNKR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 3 2008

DATE (mm/dd/yyyy): 12/16/08
PurposeFailure: DRY Site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 10:11
SAMPLE TIME: —
Departure Time: 10:35

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

Personnel: J. Katz, S. Henderson

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.5478	-121.09274
*Actual:	37.54776	-121.08489
Difference:		
GPS Model:	MLJ-LLC Garmin eTrex	Datum: NAD 83
		Accuracy (ft / m): 18

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other manure
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: LTHNKR_Storm3_121608_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535LTHNKR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535LTHNKR-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	2	
535LTHNKR-GR	TOC	40-mL Glass Amber vial, set of 3	3	
535LTHNKR-GR	Carbamates, OCs, OPs, Herbicides, Group A Pesticides	1-L Amber Glass	4	
535LTHNKR-GR	Paraquat	1-L Plastic	1	
535LTHNKR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	
535LTHNKR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	Filtered sample
535LTHNKR-GR	Glyphosate	40-mL Glass Amber vial	5	
535LTHNKR-GR	E. coli	100-mL Polyethylene	1	
535LTHNKR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	2	

QC Site: See reverse for list of samples to collect

Dry Site.

Caltest DI water for FB samples: **pH:** **Temperature:**

QC Samples Collected		Analyte	Container	Number	Notes
	535LTHNKR-GR2	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
	535LTHNKR-GR2	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
	535LTHNKR-FB	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
	535LTHNKR-GR2	TOC	40-mL Glass Amber vial, set of 3	1	
	535LTHNKR-FB	TOC	40-mL Glass Amber vial, set of 3	1	
	535LTHNKR-GR2	Total Metals	500-mL Plastic (w/HNO3)	1	
	535LTHNKR-GR2	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
	535LTHNKR-FB	Total Metals	500-mL Plastic (w/HNO3)	1	
	535LTHNKR-FB	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
	535LTHNKR-TB	Total Metals	500-mL Plastic (w/HNO3)	1	
	535LTHNKR-EB	Dissolved Metals	500-mL Plastic (w/HNO3)	1	
	535LTHNKR-GR2	Glyphosate	40-mL Glass vial	2	
	535LTHNKR-FB	Glyphosate	40-mL Glass vial	2	
	535LTHNKR-FB	E. coli	100-mL Polyethylene	1	
	535LTHNKR-GR2	E. coli	260-mL Polyethylene	1	
	535LTHNKR-GR2	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
	535LTHNKR-FB	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
	535LTHNKR-GR2	Pesticides	1-L Amber Glass	4	
	535LTHNKR-FB	Pesticides	1-L Amber Glass	4	
	535LTHNKR-MS	Pesticides	1-G Amber Glass	3	
	535LTHNKR-GR2	Paraquat	1-L Plastic	1	
	535LTHNKR-FB	Paraquat	1-L Plastic	1	
	535LTHNKR-MS	Paraquat	1-L Plastic	1	

MLJ LLC Discharge Field Sheet

Sampler: _____

Date: _____

Site ID: _____

Site Name: _____

Method: wading / bridge

Meter: MMB / other

Meter Units: ft/s m/s

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____

Water Depth (H): _____

Top of Sediment to Top of Culvert (S): _____

Sed. Depth (D-S): _____

Velocity @ 0.2H: _____

Velocity @ 0.6H: _____

Velocity @ 0.8H: _____

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.8		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): _____

Discharge calculated by (date and initials):

_____

Double checked by (date and initials):

_____

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) GR 2/17/08 | double checker: FV 12/18/08 | Pg of Pgs

Station Name: Merced River @ Santa Fe
StationID: 535XMRSFD
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 3 2008
Personnel: J. Katz, S. Henderson

DATE (mm/dd/yyyy): 12/16/08
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 12:35
SAMPLE TIME: 13:00
Departure Time: 13:13

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4271	-120.6721
*Actual:	37.42786	-120.67384
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 13

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → X X (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: MRSFD_Storm3_121608_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	11.19
Water Temp (Celsius):	9.04
SC (uS/cm):	32
DO (mg/L):	11.33
pH:	7.17
TDS:	0.021
ORP:	
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMRSFD-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMRSFD-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMRSFD-GR	Organophosphates, Organochlorines, Group A Pesticides	1-L Amber Glass	2	
535XMRSFD-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMRSFD-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMRSFD-GR	E. coli	100-mL Polyethylene	1	
535XMRSFD-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Retrieve discharge information from CDEC

ESJWQC March 1, 2010 AMR
Appendix IX
Administrative Record
Page 17411
IX-53

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) G.B 12/17/08 | double checker: FW 12/18/08 | Pg of Pgs

Station Name: Cottonwood Creek @ Rd 20
StationID: 545XCCART
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 3 2008
Personnel: F. Wulff, G. Bohlmer

DATE (mm/dd/yyyy): 12/16/2008
PurposeFailure: Dry Site
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 09:33
SAMPLE TIME:
Departure Time: 09:42

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	36.8686	-120.1818
*Actual:	36.86857	-120.18284
Difference:		
GPS Model:	MLJ-LLC Garmin eTrex	Datum: NAD 83
		Accuracy (ft / m): 31

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None) Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, (Light Breeze) Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, (Dry Waterbody Bed) No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, (Overcast) Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: CCART_Storm3_121608_E,W
PRECIPITATION (last 24 hrs): Unknown, (<1") >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XCCART-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
545XCCART-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XCCART-GR	E. coli	100-mL Polyethylene	1	
545XCCART-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Dry Site.

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) | double checker: FW 12/18/08 | Pg of Pgs

Station Name: Deadman Creek @ Gurr Rd
StationID: 535XDCAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 3 2008
Personnel: F. Wulff, G. Bohrer

DATE (mm/dd/yyyy): 12/16/2008 G.B 12/17/08
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) (WaterTox) (Habitat) (FieldMeasure)

Arrival Time: 10:55
SAMPLE TIME: 12:00
Departure Time: 13:35

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB) / RB/ NA
STREAM WIDTH (ft / m): (0) 3.0
WATER DEPTH (ft / m): (0) 0.15
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: (US) / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.1936	-120.5612
*Actual:	37.19503	-120.36142
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 19

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface (Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, (UCD 3L PTFE), Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, (Sewage), Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, (Green), Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E 1W
PICTURE NAME: OCAGR_Storm3_121608_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	11.64
Water Temp (Celsius):	8.26
SC (uS/cm):	580
DO (mg/L):	7.31
pH:	7.86
TDS:	
ORP:	
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	0.09

Samples Taken (# of Containers Filled)

Field Dup: Yes / No FW yes

Samples Collected	Analyte	Container	Number	Notes
535XDCAGR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XDCAGR-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDCAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAGR-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	4	
535XDCAGR-GR	Paraquat	1-L Plastic	1	
535XDCAGR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XDCAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDCAGR-GR	Glyphosate	40-mL Glass Amber vial	2	
535XDCAGR-GR	E. coli	100-mL Polyethylene	1	
535XDCAGR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record

DI H_2O	
Tem	Ph
11.25	5.89

MLJ LLC Discharge Field Sheet

Sampler: F.W./FF
Date: 12/16/08
Site ID: 335X0446h
Site Name: Deadman Creek @ Burr Rd

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	.5	.2	0.2 or 0.6	-0.06	
			0.8 only		
2	1.0	.4	0.2 or 0.6	0.02	
			0.8 only		
3	1.5	.5	0.2 or 0.6	0.05	
			0.8 only		
4	2.0	.5	0.2 or 0.6	0.06	
			0.8 only		
5	2.5	.4	0.2 or 0.6	0.01	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0
Right Edge Water (REW) 3
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 0.09

Discharge calculated by (date and initials):
FW 12/17/08

Double checked by (date and initials):
[illegible] 12/18/08

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) | double checker: FW 12/18/08 | Pg of Pgs

Station Name: Duck Slough @ Gurr Rd
StationID: 535XDSAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 3 2008
Personnel: F. Wulff, G. Bohrer

DATE (mm/dd/yyyy): 12/16/2008 G.B 12/17/08
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 13:42
SAMPLE TIME: 14:00
Departure Time: 14:20

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel) Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, (Bridge), Other
STARTING BANK: (LB) / RB/ NA
STREAM WIDTH (ft / m): 1.2 **WATER DEPTH (ft / m):** 0.12
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: (US) / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble), Gravel, Sand, Mud, Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: (Colorless), Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, (Isolated Pool), 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W, 1N **PICTURE NAME:** DSAGR_Storm3_121608_E,W,N
PRECIPITATION (last 24 hrs): (Unknown), <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, (Other) Dead Beaver

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2142	-120.5596
*Actual:	37.21418	-120.56091
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 14

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	11.76
Water Temp (Celsius):	9.91
SC (uS/cm):	524
DO (mg/L):	11.46
pH:	8.14
TDS:	0.341
ORP:	
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	0.31

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDSAGR-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDSAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDSAGR-GR	Organophosphates	1-L Amber Glass	1	
535XDSAGR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XDSAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDSAGR-GR	E. coli	100-mL Polyethylene	1	
535XDSAGR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record

MLJ LLC Discharge Field Sheet

Sampler: F.Wu/FF
Date: 12/16/2008
Site ID: 535 x DSAGR
Site Name: Duck Slough @ Gurr Rd

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) m/s

	Interval Midpoint (meters or feet)	Interval Depth (meters or feet)	Velocity		Duration
1	0.20	0.20	0.2 or 0.6	0.05	30 sec
			0.8 only		
2	0.40	0.40	0.2 or 0.6	0.35	
			0.8 only		
3	0.60	0.40	0.2 or 0.6	0.32	
			0.8 only		
4	0.80	0.40	0.2 or 0.6	0.30	
			0.8 only		
5	1.00	0.30	0.2 or 0.6	0.23	↓
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0
Right Edge Water (REW) 1.2
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 0.31

Discharge calculated by (date and initials):
FV 12/17/08

Double checked by (date and initials):
JEK 12/18/08

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) | double checker: FV 12/18/08 | Pg of Pgs

Station Name: Howard Lateral @ Hwy 140
StationID: 535XHLAHO
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 3 2008
Personnel: F. Wulff, G. Bohrer

DATE (mm/dd/yyyy): 12/16/2008 G.B 12/17/08
PurposeFailure: Dry Site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 14:45
SAMPLE TIME: 14:56
Departure Time:

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.3079	-120.7820
*Actual:	37.30773	-120.78204
Difference:		
GPS Model:	MLJ-LLC Garmin eTrex	Datum: NAD 83
		Accuracy (ft / m): 15

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1S
PICTURE NAME: HLAHO_storm 3_121608_N,S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position In Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHLAHO-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XHLAHO-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XHLAHO-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHLAHO-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	4	
535XHLAHO-GR	Paraquat	1-L Plastic	1	
535XHLAHO-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XHLAHO-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XHLAHO-GR	Glyphosate	40-mL Glass Amber vial	2	
535XHLAHO-GR	E. coli	100-mL Polyethylene	1	
535XHLAHO-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) | Entered in d-base (initial/date) | double checker: FW 12/18/08 | Pg of Pgs

Station Name: Ash Slough @ Ave 21
StationID: 545XASAAT
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 3 2008
Personnel: F. Wulff, G. Bohrer

DATE (mm/dd/yyyy): 12/16/2008 GB 12/17/08
PurposeFailure: Dry Site
Purpose (Circle all that apply): (WaterChem) WaterTox Habitat FieldMeasure

Arrival Time: 10:28
SAMPLE TIME:
Departure Time: 10:35

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): **WATER DEPTH (ft / m):**
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.0545	-120.4158
*Actual:	37.05442	-120.41574
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 21

Lab Chem/Tox **Method=Water_Grab** **Position in Water Column: Subsurface** **Depth: 0.1 m**

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat **Method: Not Applicable**

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None) Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, (Sand) Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: (Calm) Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA (Dry Waterbody Bed) No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, (Overcast) Fog, Hazy
PICTURE NUMBER: IN, IS **PICTURE NAME:** ASAAT_Storm3_121608_N,S
PRECIPITATION (last 24 hrs): Unknown, (<1") >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) | **Field Dup: Yes / No**

Samples Collected	Analyte	Container	Number	Notes
545XASAAT-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
545XASAAT-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
545XASAAT-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XASAAT-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	4	
545XASAAT-GR	Paraquat	1-L Plastic	1	
545XASAAT-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
545XASAAT-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
545XASAAT-GR	Glyphosate	40-mL Glass Amber vial	2	
545XASAAT-GR	E. coli	100-mL Polyethylene	1	
545XASAAT-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record

East San Joaquin Water Quality Coalition

Winter 1 NM Sampling
Field sheets

2009 January 20

Adminsitrative Record
Page 17418

Meter Calibration Log

Team 1

Team 1 members: J. Katz, D. Corcoran
Primary multiparameter meter ID: YSI #3 — Serial number: 07K101587
Backup multiparameter meter ID: YSI #4 — Serial number: 07K101586
Discharge meter ID: — Serial number:
GPS Unit ID: — Serial number:
Auxiliary meter ID: — Serial number:
Camera ID:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.04	4.02	4.00	4.00	1/20/09	DC
pH 7	6.94	6.85	6.99	7.00	1/20/09	DC
pH 10	10.03	10.16	10.01	10.03	1/20/09	DC
1413 µS/cm	1378	1377	1413	1413	1/20/09	DC
pH 4	4.07		4.00		1/21/09	SH
pH 7	6.94		7.00		1/21/09	SH
pH 10	10.15		10.03		1/21/09	SH
1413 µS/cm	1452		1413		1/21/09	SH

Team 2

Team 2 members: F. Wulff, S. Henderson
Primary multiparameter meter ID: YSI #2 — Serial number: 07A1894AF
Backup multiparameter meter ID: YSI #1 — Serial number: 07A1894AE
Discharge meter ID: — Serial number:
GPS Unit ID: — Serial number:
Auxiliary meter ID: — Serial number:
Camera ID:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	3.91	4.05	4.00	4.00	1/20/09	DC
pH 7	6.85	7.00	7.00	7.00	1/20/09	DC
pH 10	9.97	10.12	9.99	10.03	1/20/09	DC
1413 µS/cm	1409	1411	1413	1413	1/20/09	DC
pH 4	3.99	4.02	4.00	4.00	1/21/09	SH
pH 7	7.02	7.00	7.00	7.00	1/21/09	SH
pH 10	10.06	10.04	10.01	10.01	1/21/09	SH
1413 µS/cm	1425	1419	1413	1413	1/21/09	SH

Administrative Record
Page 17419

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) SH 1/21/09 double checker: FW 1/22/09 Pg of Pgs

Station Name: Mootz Drain @ Langworth Rd
StationID: 535XMDALR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 1 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 1/20/09
PurposeFailure: unable to access due to gate.
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 8:38
SAMPLE TIME: —
Departure Time: 8:46

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.70582	-120.89303
*Actual:	37.70539	-120.89408
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 29

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: NW, SW
PICTURE NAME: MDALR_WINTER1NM_012009_NW,SW
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	2	
535XMDALR-GR	TOC	40-mL Glass Amber vial, set of 3	3	
535XMDALR-GR	Carbamates, OCs, OPs, Herbicides, Group A Pesticides	1-L Amber Glass	5	
535XMDALR-GR	Paraquat	1-L Plastic	1	
535XMDALR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	
535XMDALR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	Filtered sample
535XMDALR-GR	Glyphosate	40-mL Glass Amber vial	5	
535XMDALR-GR	E. coli	100-mL Polyethylene	1	
535XMDALR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	2	

QC Site: See reverse for list of samples to collect

Administrative Record
Page 17420

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) SH 1/21/09 double checker: FW 01/22/09 Pg of Pgs

Station Name: Dry Creek @ Wellsford Rd
StationID: 535XDCAWR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 1 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 01/20/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 08:54
SAMPLE TIME: 09:10
Departure Time: 09:20

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel) Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in) Bridge, Other
STARTING BANK: LB (RB) NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge) Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US (DS) NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, (Mixed), Other
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None) Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble) Gravel, Sand, Mud, Unk., Other
WATER CLARITY: (Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) NO
WIND: (Calm) Light Breeze, Gusty
WATERCOLOR: Colorless, (Green) Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, (No Observed Flow) Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX
SKY CODE: (Clear) Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: DCAWR_WinterWM_012009_W, E
PRECIPITATION (last 24 hrs): Unknown, <1", >1" (None)
OTHER PRESENCE: Vascular, (Nonvascular), (OilySheen), Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.6602	-120.8743
*Actual:	37.66066	-120.87351
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 23

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	12.52
Water Temp (Celsius):	6.36
SC (uS/cm):	707
DO (mg/L):	5.10
pH:	6.87
TDS:	0.454
ORP:	
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDCAWR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDCAWR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAWR-GR	E. coli	100-mL Polyethylene	1	
535XDCAWR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

No observed flow, no discharge taken.

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 1/21/09 | double checker: FW 01/22/09 | Pg of Pgs

Station Name: Prairie Flower Drain @ Crows Landing Rd
StationID: 535XPFDCL
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 1 2009
Personnel: ~~J. KATZ, D. CORCORAN~~ SH F. MUHL, S. HENDERSON

DATE (mm/dd/yyyy): 01/20/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 10:27
SAMPLE TIME: 10:40
Departure Time: 10:54

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other FV
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right XW →
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: PFDCL_WinterINM_012009_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4422	-121.0024
*Actual:	37.44186	-121.00345
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 23

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	12.22
Water Temp (Celsius):	4.56
SC (uS/cm):	241A
DO (mg/L):	10.89
pH:	8.03
TDS:	1.5608
ORP:	
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XPFDCL-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XPFDCL-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XPFDCL-GR	E. coli	100-mL Polyethylene	1	
535XPFDCL-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Too shallow to take discharge.
Confirm YSI Readings with meter #1.

Administrative Record
Page 17422

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) SH 1/[illegible] double checker: FW 01/22/09 Pg of Pgs

Station Name: Lateral 2 ½ Near Keyes Rd
StationID: 535LTHNKR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 1 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 01/20/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 9:55
SAMPLE TIME: —
Departure Time: 10:10

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.5478	-121.09274
*Actual:	37.54774	-121.08334
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 29

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: LTHNKR_WINTER1NM_012009_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535LTHNKR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535LTHNKR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535LTHNKR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535LTHNKR-GR	Carbamates, OCs, OPs, Herbicides, Group A Pesticides	1-L Amber Glass	3	
535LTHNKR-GR	Paraquat	1-L Plastic	1	
535LTHNKR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535LTHNKR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535LTHNKR-GR	Glyphosate	40-mL Glass Amber vial	2	
535LTHNKR-GR	E. coli	100-mL Polyethylene	1	
535LTHNKR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

DPR [illegible] for [illegible] called [illegible]

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 1/21/09 double checker: FW 01/22/09 Pg of Pgs

Station Name: Merced River @ Santa Fe
StationID: 535XMRSFD
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 1 2009
Personnel: F. Wulff, J. Henderson

DATE (mm/dd/yyyy): SH 1/20/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 13:51
SAMPLE TIME: 14:10
Departure Time: 14:29

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4271	-120.6721
*Actual:	37.42778	-120.67377
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 15

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs FW
WIND DIRECTION (from): circle direction in compass at right XX →
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: [illegible] 1W
PICTURE NAME: MRSFD_WTHRRIVM_012309_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	19.42
Water Temp (Celsius):	10.36
SC (uS/cm):	51
DO (mg/L):	11.93
pH:	7.9 7.39
TDS:	0.033
ORP:	
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	7.22

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMRSFD-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMRSFD-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMRSFD-GR	Organophosphates, Organochlorines, Group A Pesticides	1-L Amber Glass	4	
535XMRSFD-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMRSFD-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMRSFD-GR	E. coli	100-mL Polyethylene	1	
535XMRSFD-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Retrieve discharge information from CDEC

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 1/21/09 double checker: FW 01/22/09 Pg of Pgs

Station Name: Mustang Creek @ East Ave
StationID: 535XMCAEA
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 1 2009
Personnel: F. Wolff, S. Henderson

DATE (mm/dd/yyyy): 1/20/09
PurposeFailure: Dry Site.
Purpose (Circle all that apply): WaterChem / WaterTox / Habitat / FieldMeasure

Arrival Time: 14:40
SAMPLE TIME: —
Departure Time: 14:45

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4918	-120.6839
*Actual:	37.49185	-120.68504
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 15

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other manure
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right XX→
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: IMG_1115
PICTURE NAME: MLAEA_WINTER1_NM_012809_N, S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

N / W / E / S

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMCAEA-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMCAEA-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMCAEA-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMCAEA-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
535XMCAEA-GR	Paraquat	1-L Plastic	1	
535XMCAEA-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMCAEA-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMCAEA-GR	Glyphosate	40-mL Glass Amber vial	2	
535XMCAEA-GR	E. coli	100-mL Polyethylene	1	
535XMCAEA-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Dry Site

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 1/21/09 double checker: FW 01/22/09 Pg of Pgs

Station Name: Howard Lateral @ Hwy 140
StationID: 535XHLAHO
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 1 2009
Personnel: J. KATZ, D. CORCORAN

DATE (mm/dd/yyyy): 01/20/2009
PurposeFailure: Dry Site
Purpose (Circle all that apply): WaterChem WaterTox (Habitat) FieldMeasure

Arrival Time: 14:44
SAMPLE TIME: —
Departure Time: 14:48

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, (Culvert), Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.3079	-120.7820
*Actual:	37.30778	-120.78205
Difference:		
GPS Model: MLJ-LLC Garmin eTrex	Datum: NAD 83	
	Accuracy (ft / m): 25	

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None) Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, (Light Breeze) Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, (Dry Waterbody Bed) No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, E, S, W)
SKY CODE: Clear, (Partly Cloudy), Overcast, Fog, Hazy
PICTURE NUMBER: 1NW, 2NE
PICTURE NAME: HLAHO_WINTER1NM_012009_NW,NE1,NE2
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes (No)

Samples Collected	Analyte	Container	Number	Notes
535XHLAHO-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XHLAHO-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XHLAHO-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHLAHO-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
535XHLAHO-GR	Paraquat	1-L Plastic	1	
535XHLAHO-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XHLAHO-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XHLAHO-GR	Glyphosate	40-mL Glass Amber vial	2	
535XHLAHO-GR	E. coli	100-mL Polyethylene	1	
535XHLAHO-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record
Page 17426

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): GH 1/21/09 double checker: FW 01/22/09 Pg of Pgs

Station Name: Highline Canal @ Hwy 99
StationID: 535XHCHNN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 1 2009
Personnel: J. KATZ, D. CORCORAN

DATE (mm/dd/yyyy): 01/20/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox (Habitat) FieldMeasure

Arrival Time: 8:47
SAMPLE TIME: ——
Departure Time: 8:53

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: (LB) / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: (US) / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4153	-120.7557
*Actual:	37.41250	-120.75948
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 40

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, (Other) SMOKE
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, (Sand), Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, (Dry Waterbody Bed), No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: HCHNN_WINTER1NM_012609_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Site DRY, No Sample Collected

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XHCHNN-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XHCHNN-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHCHNN-GR	E. coli	100-mL Polyethylene	1	
535XHCHNN-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 1/21/09 double checker: FW 01/22/09 Pg of Pgs

Station Name: Cottonwood Creek @ Rd 20
StationID: 545XCCART
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 1 2009
Personnel: J. KATZ, D. CORCORAN

DATE (mm/dd/yyyy): 01/20/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox (Habitat) FieldMeasure

Arrival Time: 10:00
SAMPLE TIME: ——
Departure Time: 10:09

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB (RB) NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US (DS) NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	36.8686	-120.1818
*Actual:	36.868864	-120.18290
Difference:		
GPS Model: MLJ-LLC Garmin eTrex	Datum: NAD (83)	
	Accuracy (ft / m): 21.	

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, (Other) unknown
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, (Sand), Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: (No), Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 2w, 1E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

N / W / E / S

PICTURE NAME: CCART_WINTERINM_012009_E,W1,W2

SITE DRY, NO SAMPLE COLLECTED

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
545XCCART-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
545XCCART-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XCCART-GR	E. coli	100-mL Polyethylene	1	
545XCCART-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record
Page 17428

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 1/21/09 double checker: FV 01/22/09 Pg of Pgs

Station Name: Ash Slough @ Ave 21
StationID: 545XASAAT
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 1 2009
Personnel: J. KATZ, D. CORCORAN

DATE (mm/dd/yyyy): 01/20/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox (Habitat) FieldMeasure

Arrival Time: 10:43
SAMPLE TIME: ——
Departure Time: 10:53

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: (LB) / RB/ NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: (US) / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.0545	-120.4158
*Actual:	37.05445	-120.41593
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 15

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, (Sewage), Petroleum, Mixed, Other — Manure
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, (Sand), Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, (Dry Waterbody Bed), No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1S
PICTURE NAME: ASAAT_WINTER1NM_012009_N,S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

SITE DRY, NO SAMPLES COLLECTED

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
545XASAAT-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
545XASAAT-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
545XASAAT-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XASAAT-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
545XASAAT-GR	Paraquat	1-L Plastic	1	
545XASAAT-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
545XASAAT-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
545XASAAT-GR	Glyphosate	40-mL Glass Amber vial	2	
545XASAAT-GR	E. coli	100-mL Polyethylene	1	
545XASAAT-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record
Page 17429

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) SH 1/21/09 double checker: FW 01/22/09 Pg of Pgs

Station Name: Deadman Creek @ Gurr Rd
StationID: 535XDCAGR **DATE (mm/dd/yyyy):**
Funding: 04ES5001 **PurposeFailure:**
Project ID: ILRP_ESJWQC
Group: Winter 1 2009 **Purpose (Circle all that apply):** WaterChem WaterTox Habitat FieldMeasure
Personnel: J. KATZ, D. CORCORAN

Arrival Time: 11:19
SAMPLE TIME: 12:00
Departure Time: 13:28

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): ~ 0.5 **WATER DEPTH (ft / m):** 0.06
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox **Method=Water_Grab** **Position in Water Column: Subsurface** **Depth: 0.1 m**

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat **Method: Not Applicable**

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER:
PICTURE NAME: IEW DCAGR_WINTER1NM_01_2009_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Discharge too low to measure.

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.1936	-120.5612
*Actual:	37.19506	-120.56139
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft) m): 25

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position In Column: Subsurface

Air Temp (Celsius):	21.41
Water Temp (Celsius):	10.28
SC (uS/cm):	762
DO (mg/L):	5.61
pH:	7.85
TDS:	0.495
ORP:	
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	0.00

Samples Taken (# of Containers Filled) **Field Dup: Yes / No**

Samples Collected	Analyte	Container	Number	Notes
X 535XDCAGR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
X 535XDCAGR-GR	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	2	
X 535XDCAGR-GR	TOC	40-mL Glass Amber vial, set of 3	3	
X 535XDCAGR-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
X 535XDCAGR-GR	Paraquat	1-L Plastic	1	
X 535XDCAGR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	
X 535XDCAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	Filtered sample
X 535XDCAGR-GR	Glyphosate	40-mL Glass Amber vial	5	
X 535XDCAGR-GR	E. coli	100-mL Polyethylene	1	
X 535XDCAGR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	2	

QC Site: See reverse for list of samples to collect

Administrative Record
Page 17430

Caltest DI water for FB samples | **pH:** | **Temperature:**

QC Samples Collected	Analyte	Container	Number	Notes
535XDCAGR-GR2	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XDCAGR-GR2	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDCAGR-FB	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDCAGR-GR2	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAGR-FB	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAGR-GR2	Total Metals	500-mL Plastic (w/HNO3)	1	
535XDCAGR-GR2	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XDCAGR-FB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XDCAGR-FB	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XDCAGR-TB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XDCAGR-EB	Dissolved Metals	500-mL Plastic (w/HNO3)	1	
535XDCAGR-GR2	Glyphosate	40-mL Glass vial	2	
535XDCAGR-FB	Glyphosate	40-mL Glass vial	2	
535XDCAGR-FB	E. coli	100-mL Polyethylene	1	
535XDCAGR-GR2	E. coli	260-mL Polyethylene	1	
535XDCAGR-GR2	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
535XDCAGR-FB	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
535XDCAGR-GR2	Pesticides	1-L Amber Glass	5	
535XDCAGR-FB	Pesticides	1-L Amber Glass	5	
535XDCAGR-MS	Pesticides	1-G Amber Glass	3	
535XDCAGR-GR2	Paraquat	1-L Plastic	1	
535XDCAGR-FB	Paraquat	1-L Plastic	1	
535XDCAGR-MS	Paraquat	1-L Plastic	1	

MLJ LLC Discharge Field Sheet

Sampler: J. KATZ
Date: 01/20/09
Site ID: 535XDCAGR
Site Name: Deadman Creek @ Gurr Rd

Method: (wading) bridge
Meter: (MMB) other
Meter Units: (ft/s) m/s

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____
Water Depth (H): _____
Top of Sediment to Top of Culvert (S): _____
Sed. Depth (D-S): _____
Velocity @ 0.2H: _____
Velocity @ 0.6H: _____
Velocity @ 0.8H: _____

	Interval Midpoint (meters or feet)	Interval Depth (meters or feet)	Velocity		Duration
1	.21	.2	0.2 or 0.6	0	
			0.8 only		
2	.27	.2	0.2 or 0.6	0	
			0.8 only		
3	.33	.2	0.2 or 0.6	0	
			0.8 only		
4	.39	.2	0.2 or 0.6	0	
			0.8 only		
5	.45	.2	0.2 or 0.6	0	
			0.8 only		
6	.51	.2	0.2 or 0.8	0	
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0.15
Right Edge Water (REW) .65
Start Time (24 hr): _____
End Time (24 hr): _____

Discharge (cfs): 0.00

Discharge calculated by (date and initials):
SH 1/21/09

Double checked by (date and initials):
FW 1/22/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

6|.50

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 1/21/09 double checker: FW 01/22/09 Pg of Pgs

Station Name: Duck Slough @ Gurr Rd
StationID: 535XDSAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 1 2009
Personnel: J. KATZ, D. CORCORAN

DATE (mm/dd/yyyy): 01/20/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: ~~10:43~~ 13:31
SAMPLE TIME: ~~10:43~~ 13:50
Departure Time: 14:23

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 1.2
WATER DEPTH (ft / m): ~0.12
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, <.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX (N, E, S, W)
SKY CODES: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W, 1N
PICTURE NAME: DSAGR - Winter1 NM - 012009 - E, W, N
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2142	-120.5596
*Actual:	37.21418	-120.56090
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 14

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	19.04
Water Temp (Celsius):	13.25
SC (uS/cm):	517
DO (mg/L):	11.39
pH:	8.11
TDS:	0.336
ORP:	
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	~~0.76~~ 0.23

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDSAGR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDSAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDSAGR-GR	Organophosphates	1-L Amber Glass	3	
535XDSAGR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XDSAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDSAGR-GR	E. coli	100-mL Polyethylene	1	
535XDSAGR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record
Page 17432

MLJ LLC Discharge Field Sheet

Sampler: D. Corcoran
Date: 1/20/09
Site ID: 535xDSAGR
Site Name: Duck Slough @ Gurr Rd

Method: wading / bridge
Meter: (MMB) / other
Meter Units: (ft/s) m/s

	Interval Midpoint (meters) or feet	Interval Depth meters or (feet)	Velocity		Duration
1	0.50	0.30	0.2 or 0.6	0.04	
			0.8 only		
2	0.65	0.35	0.2 or 0.6	0.21	
			0.8 only		
3	0.80	0.40	0.2 or 0.6	0.31	
			0.8 only		
4	1.00	0.40	0.2 or 0.6	0.26	
			0.8 only		
5	1.20	0.30	0.2 or 0.6	0.24	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 1.40
Right Edge Water (REW) 0.20
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): ~~0.76~~ 0.23

Discharge calculated by (date and initials):
JH 1/21/09

Double checked by (date and initials):
FW 1/22/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

East San Joaquin Water Quality Coalition

Storm 1 NM Sampling
Field sheets

2009 February 7

Adminsitrative Record
Page 17434

Meter Calibration Log

Team 1

Team 1 members: J. Katz, M. Turner
Primary multiparameter meter ID: YSI #1
Backup multiparameter meter ID: YSI #2
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07A1894AE
Serial number: 07A1894AF
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.00	3.97	4.00	4.00	2/6/09	SH
pH 7	6.62	6.98	7.00	7.00	2/6/09	SH
pH 10	10.01	9.99	10.00	10.00	2/6/09	SH
1413 µS/cm	1419	1423	1413	1413	2/6/09	SH
pH 4	4.03	3.98	4.00	4.00	2/9/09	SH
pH 7	7.05	7.02	7.00	7.00	2/9/09	SH
pH 10	10.06	10.01	10.01	10.00	2/9/09	SH
1413 µS/cm	1406	1389	1413	1413	2/9/09	SH

Team 2

Team 2 members: F. Wulff, S. Henderson
Primary multiparameter meter ID: YSI #3
Backup multiparameter meter ID: YSI #4
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07K101587
Serial number: 07K101586
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	3.93	4.02	4.00	4.00	2/6/09	SH
pH 7	6.91	6.97	7.00	7.00	2/6/09	SH
pH 10	10.03	10.10	10.00	10.02	2/6/09	SH
1413 µS/cm	1424	1406	1413	1413	2/6/09	SH
pH 4	4.02	4.02	4.00	4.00	2/9/09	SH
pH 7	7.09	6.98	7.00	7.00	2/9/09	SH
pH 10	10.05	10.03	10.01	10.01	2/9/09	SH
1413 µS/cm	1396	1392	1413	1413	2/9/09	SH

Administrative Record
Page 17435

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date): SH 2/9/09 double checker: FW 02/12/09 Pg 1 of 1 Pgs

Station Name: Mootz Drain @ Langworth Rd
StationID: 535XMDALR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 1 2009
Personnel: M.Turner, J. Katz

DATE (mm/dd/yyyy): 02/07/2009
PurposeFailure: None
Purpose (Circle all that apply): WaterChem, WaterTox, Habitat, FieldMeasure

Arrival Time: 8:10
SAMPLE TIME: 8:40
Departure Time:

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

non contiguous flow

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.70582	-120.89303
*Actual:	37.70562	-120.89412
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 15 ft

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): ~8 WATER DEPTH (ft / m): 0.5 m
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 2
PICTURE NAME: 535XMDALR_W2709N_020709_E,W ~~535XMDALR-020709-S~~, ~~535XMDALR-020709-N~~
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	13.50
Water Temp (Celsius):	12.18
SC (uS/cm):	385
DO (mg/L):	9.44
pH:	8.03
% TDS:	0.251
ORP:	—
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	0

no flow

Samples Taken (# of Containers Filled) Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	2	
535XMDALR-GR	TOC	40-mL Glass Amber vial, set of 3	3	
535XMDALR-GR	Carbamates, OCs, OPs, Herbicides, Group A Pesticides	1-L Amber Glass	5	
535XMDALR-GR	Paraquat	1-L Plastic	1	
535XMDALR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	
535XMDALR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	Filtered sample
535XMDALR-GR	Glyphosate	40-mL Glass Amber vial	5	
535XMDALR-GR	E. coli	100-mL Polyethylene	1	
535XMDALR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	2	

QC Site: See reverse for list of samples to collect

QC Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR2	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR2	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-FB	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-GR2	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-FB	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-GR2	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-GR2	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-TB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-EB	Dissolved Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-GR2	Glyphosate	40-mL Glass vial	2	
535XMDALR-FB	Glyphosate	40-mL Glass vial	2	
535XMDALR-FB	E. coli	100-mL Polyethylene	1	
535XMDALR-GR2	E. coli	260-mL Polyethylene	1	
535XMDALR-GR2	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
535XMDALR-FB	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
535XMDALR-GR2	Pesticides	1-L Amber Glass	5	
535XMDALR-FB	Pesticides	1-L Amber Glass	5	
535XMDALR-MS	Pesticides	1-G Amber Glass	3	
535XMDALR-GR2	Paraquat	1-L Plastic	1	
535XMDALR-FB	Paraquat	1-L Plastic	1	
535XMDALR-MS	Paraquat	1-L Plastic	1	

MLJ LLC Discharge Field Sheet

Sampler: _____

Date: _____

Site ID: _____

Site Name: _____

No observed flow; isolated pool

Method: wading / bridge

Meter: MMB / other

Meter Units: ft/s m/s

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____

Water Depth (H): _____

Top of Sediment to Top of Culvert (S): _____

Sed. Depth (D-S): _____

Velocity @ 0.2H: _____

Velocity @ 0.6H: _____

Velocity @ 0.8H: _____

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.8		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): _____

Discharge calculated by (date and initials):

_____

Double checked by (date and initials):

_____

If depth is greater than 0.76 m (2.5 ft): sample at 0.2 and 0.8 below water surface

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 2/9/09 double checker: FV 02/12/09 Pg 1 of 1 Pgs

Station Name: Dry Creek @ Wellsford Rd
StationID: 535XDCAWR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 1 2009
Personnel: M. Turner, J. Katz

DATE (mm/dd/yyyy): 02/07/2009
PurposeFailure: None
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 11:00
SAMPLE TIME: 11:10
Departure Time: 11:27

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 3.5
WATER DEPTH (ft / m): 0.23
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other) dead animal
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 0 (1 upstream, 1 downstream) PICTURE NAME: 535XDCAWR_StormNM_020709_E, W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.6602	-120.8743
*Actual:	37.66076	-120.87549
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m):

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	16.33
Water Temp (Celsius):	11.62
SC (uS/cm):	540
DO (mg/L):	7.98
pH:	7.26
TDS:	0.348 g/L
ORP:	—
YSI Meter ID:	#1
Stage:	—
Calculated Site Discharge:	0

no observed flow

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAWR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDCAWR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAWR-GR	E. coli	100-mL Polyethylene	1	
535XDCAWR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 2/9/09 double checker: FW 02/12/09 Pg 1 of 1 Pgs

Station Name: Lateral 2 ½ Near Keyes Rd
StationID: 535LTHNKR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 1 2009
Personnel: M. Turner, J. Katz

DATE (mm/dd/yyyy): 02/07/2009 ↑ <2 in deep
PurposeFailure: not deep enough to get H_2O
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 12:20
SAMPLE TIME:
Departure Time: 12:28

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

need to update target

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.5478	-121.09274
*Actual:	37.54774	- 121.08487
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m):

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	NA
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other Dairy
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 3 1) H_2O depth 2) W 3) E
PICTURE NAME: 535LTHNKR_Storm1NM_020709_E, W, SE
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535LTHNKR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535LTHNKR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535LTHNKR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535LTHNKR-GR	Carbamates, OCs, OPs, Herbicides, Group A Pesticides	1-L Amber Glass	5	
535LTHNKR-GR	Paraquat	1-L Plastic	1	
535LTHNKR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535LTHNKR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535LTHNKR-GR	Glyphosate	40-mL Glass Amber vial	2	
535LTHNKR-GR	E. coli	100-mL Polyethylene	1	
535LTHNKR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 2/11/09 double checker: FW 02/12/09 Pg 1 of 1 Pgs

Station Name: Merced River @ Santa Fe
StationID: 535XMRSFD
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 1 2009
Personnel: M.Turner, J. Katz

DATE (mm/dd/yyyy): 2/7/09
PurposeFailure: None
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 14:59
SAMPLE TIME: 15:20
Departure Time: 14:42

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, (Near Bank), Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB (RB) NA
STREAM WIDTH (ft / m): ~88 WATER DEPTH (ft / m): 0.5 m
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right XX →
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 2 (1) us (2) ds
PICTURE NAME: 535XMRSFD_StormINM_020709_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4271	-120.6721
*Actual:	37.42780	- 120.67379
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 33 ft

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	15.63
Water Temp (Celsius):	12.52
SC (uS/cm):	54
DO (mg/L):	10.77
pH:	7.54
TDS:	0.035
ORP:	—
YSI Meter ID:	#2
Stage:	—
Calculated Site Discharge:	241

→ get from website

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XMRSFD-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMRSFD-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMRSFD-GR	Organophosphates, Organochlorines, Group A Pesticides	1-L Amber Glass	4	
535XMRSFD-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMRSFD-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMRSFD-GR	E. coli	100-mL Polyethylene	1	
535XMRSFD-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Retrieve discharge information from CDEC

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 2/11/09 double checker: FV 02/12/09 Pg 1 of 1 Pgs

Station Name: Mustang Creek @ East Ave
StationID: 535XMCAEA
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 1 2009
Personnel: M. Turner, J. Katz

DATE (mm/dd/yyyy): 2/7/09
PurposeFailure: none
Purpose (Circle all that apply): (WaterChem) WaterTox Habitat FieldMeasure

Arrival Time: 15:00
SAMPLE TIME: 15:30
Departure Time: 15:56

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, (Near Bank), Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB) / RB / NA
STREAM WIDTH (ft / m): ~88 WATER DEPTH (ft / m): 0.2m
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / (DS) / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4918	-120.6839
*Actual:	37.49190	-120.68507
Difference:		
GPS Model:	MLJ-LLC Garmin eTrex	Datum: NAD 83
		Accuracy (ft / m): 27

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other → Chicken Manure
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud), Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: (Colorless), Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, (No Observed Flow), Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N, W, E, S
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: (NE, S)
PICTURE NAME: 535XMCAEA_STORM1_020709_NE, S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure: Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	16.53
Water Temp (Celsius):	13.76
SC (uS/cm):	704
DO (mg/L):	13.46
pH:	7.44
TDS:	0.458
ORP:	—
YSI Meter ID:	#2
Stage:	—
Calculated Site Discharge:	0

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XMCAEA-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMCAEA-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMCAEA-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMCAEA-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
535XMCAEA-GR	Paraquat	1-L Plastic	1	
535XMCAEA-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMCAEA-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMCAEA-GR	Glyphosate	40-mL Glass Amber vial	2	
535XMCAEA-GR	E. coli	100-mL Polyethylene	1	
535XMCAEA-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) 2H 2/11/09 double checker: FW 02/12/09 Pg of Pgs

Station Name: Cottonwood Creek @ Rd 20
StationID: 545XCCART
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 1 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 02/07/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 09:18
SAMPLE TIME: 09:30
Departure Time: 09:37

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 2W, 1E
PICTURE NAME: 545XCCART_SiteInNM-020709_E, W1, W2
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	36.8686	-120.1818
*Actual:	36.86860	-120.18283
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 19

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	12.84
Water Temp (Celsius):	8.00
SC (uS/cm):	329
DO (mg/L):	7.95
pH:	6.18
TDS:	
ORP:	
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XCCART-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
545XCCART-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XCCART-GR	E. coli	100-mL Polyethylene	1	
545XCCART-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

No discharge taken – isolated pools.

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 2/11/09 double checker: FW 02/12/09 Pg of Pgs

Station Name: Ash Slough @ Ave 21
StationID: 545XASAAT
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 1 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 02/07/2009
PurposeFailure: Dry Site
Purpose (Circle all that apply): (WaterChem) WaterTox Habitat FieldMeasure

Arrival Time: 10:23
SAMPLE TIME: ~~10:30~~
Departure Time: 10:30

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.0545	-120.4158
*Actual:	37.05488	-120.41391
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 20

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: (N,18 FW
PICTURE NAME: ~~545XASAAT~~_Storm1_NM_020709_N,S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	0

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
545XASAAT-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
545XASAAT-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
545XASAAT-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XASAAT-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
545XASAAT-GR	Paraquat	1-L Plastic	1	
545XASAAT-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
545XASAAT-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
545XASAAT-GR	Glyphosate	40-mL Glass Amber vial	2	
545XASAAT-GR	E. coli	100-mL Polyethylene	1	
545XASAAT-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record
Page 17443

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): CAT 2/11/09 double checker: FW 02/12/09 Pg of Pgs

Station Name: Howard Lateral @ Hwy 140
StationID: 535XHLAHO
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 1 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 02/07/2009
PurposeFailure: Dry Site
Purpose (Circle all that apply): (WaterChem) (WaterTox) (Habitat) (FieldMeasure)

Arrival Time: 13:40
SAMPLE TIME:
Departure Time: 13:45

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): **WATER DEPTH (ft / m):**
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.3079	-120.7820
*Actual:	37.30784	-120.78215
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 32

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1S
PICTURE NAME: 535XHLAHO_Storm1NM_020709_N, S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHLAHO-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XHLAHO-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XHLAHO-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHLAHO-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
535XHLAHO-GR	Paraquat	1-L Plastic	1	
535XHLAHO-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XHLAHO-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XHLAHO-GR	Glyphosate	40-mL Glass Amber vial	2	
535XHLAHO-GR	E. coli	100-mL Polyethylene	1	
535XHLAHO-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 2/11/09 double checker: FW 02/12/09 Pg of Pgs

Station Name: Highline Canal @ Hwy 99
StationID: 535XHCHNN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 1 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 02/07/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 14:08
SAMPLE TIME: 14:20
Departure Time: 14:25

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4153	-120.7557
*Actual:	37.41245	-120.73945
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (+/- m): 16

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other (us)
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → SW
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 2W, 1E
PICTURE NAME: 535XHCHNN_Storm1NM_020709_E, W1, W2
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	16.96
Water Temp (Celsius):	14.00
SC (uS/cm):	387
DO (mg/L):	15.73
pH:	8.86
TDS:	0.252
ORP:	
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHCHNN-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XHCHNN-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHCHNN-GR	E. coli	100-mL Polyethylene	1	
535XHCHNN-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

No discharge taken — No observed flow.

Administrative Record
Page 17445

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 2/9/09 double checker: FLV 02/12/09 Pg 1 of 1 Pgs

Station Name: Prairie Flower Drain @ Crows Landing Rd
StationID: 535XPFDCL
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 1 2009
Personnel: M. Turner, J. Katz

DATE (mm/dd/yyyy): 02/07/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 12:47
SAMPLE TIME: 12:10 → actually 13:10 see note in d-base
Departure Time:

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 3.6 m **WATER DEPTH (ft / m):** 0.3 m
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 2 1) Sondischarge 2) E
PICTURE NAME: 535XPFDCL_Storm1NM_020709_E, discharge-W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4422	-121.0024
*Actual:	37.44189	-121.00356
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m):

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	15.48
Water Temp (Celsius):	10.56
SC (uS/cm):	2.255
DO (mg/L):	11.82
pH:	8.48
TDS:	1.478
ORP:	
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	0.097 CFS

→ Confirmed w/ 2 notes

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XPFDCL-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XPFDCL-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XPFDCL-GR	E. coli	100-mL Polyethylene	1	
535XPFDCL-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

MLJ LLC Discharge Field Sheet

Sampler: J. Katz
Date: 2/7/09
Site ID: 535x PFDCL
Site Name: Prairie Flower Basin @ Crows Landing

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s / m/s

CULVERT

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): 0.097

Discharge calculated by (date and initials):
SH 2/9/09

Double checked by (date and initials):
FW 02/12/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):	2.5 ft
Water Depth (H):	1.8 ft
Top of Sediment to Top of Culvert (S):	2.0 ft
Sed. Depth (D-S):	0.5 ft
Velocity @ 0.2H:	0.04
Velocity @ 0.6H:	0.02
Velocity @ 0.8H:	0.01

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): FW 2/11/09 double checker: FW 02/12/09 Pg of Pgs

Station Name: Deadman Creek @ Gurr Rd
StationID: 535XDCAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 1 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 02/07/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 10:50
SAMPLE TIME: 11:00
Departure Time: 12:03

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 2.7m
WATER DEPTH (ft / m): 0.12m
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 2E, 2W
PICTURE NAME: 535XDCAGR-Storm1NM-020709-E1, E2, W1, W2
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.1936	-120.5612
*Actual:	37.19542	-120.56137
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 28

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	9.06
Water Temp (Celsius):	11.49
SC (uS/cm):	1802
DO (mg/L):	1.01
pH:	7.81
TDS:	1.171
ORP:	
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	0.01

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAGR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XDCAGR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDCAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAGR-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
535XDCAGR-GR	Paraquat	1-L Plastic	1	
535XDCAGR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XDCAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDCAGR-GR	Glyphosate	40-mL Glass Amber vial	2	
535XDCAGR-GR	E. coli	100-mL Polyethylene	1	
535XDCAGR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record
Page 17448

MLJ LLC Discharge Field Sheet

Sampler: F. WOLFF
Date: 02/07/09
Site ID: 3000CAER
Site Name: TRASHMAN CREEK @ GLASER Rd

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	0.45	0.25	0.2 or 0.6	-0.07	30sec
			0.8 only		
2	0.90	[illegible]	0.2 or 0.6	0.02	
			0.8 only		
3	1.35	0.4	0.2 or 0.6	0.03	
			0.8 only		
4	1.80	0.3	0.2 or 0.6	-0.01	
			0.8 only		
5	2.25	0.25	0.2 or 0.6	0.03	✓
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

0.4

Left Edge Water (LEW): 0
Right Edge Water (REW): 2.7
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 0.01

Discharge calculated by (date and initials):
SH 2/9/09

Double checked by (date and initials):
FW 02/12/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) AH 2/11/09 | double checker: FW 02/12/09 | Pg of Pgs

Station Name: Duck Slough @ Gurr Rd
StationID: 535XDSAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Storm 1 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 02/07/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem / WaterTox / Habitat / FieldMeasure

Arrival Time: 12:07
SAMPLE TIME: 12:40
Departure Time: 12:49

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2142	-120.5596
*Actual:	37.21412	-120.56070
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 15

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): 2.0m WATER DEPTH (ft / m): 0.65ft/0.20m
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: ~~Indiv bottle by hand~~, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N / W / E / S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: 535XDSAGR-StormMM_020709_E, W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	16.37
Water Temp (Celsius):	11.74
SC (uS/cm):	682
DO (mg/L):	12.10
pH:	7.90
TDS:	0.444
ORP:	
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	2.57

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDSAGR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDSAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDSAGR-GR	Organophosphates	1-L Amber Glass	3	
535XDSAGR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XDSAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDSAGR-GR	E. coli	100-mL Polyethylene	1	
535XDSAGR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Adminsitrative Record
Page 17450

MLJ LLC Discharge Field Sheet

Sampler: FW
Date: 2/7/09
Site ID: 535 DAGR
Site Name: Duck Slough @ GUAR RD

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	0.33	0.4	0.2 or 0.6	0.89	30sec
			0.8 only		
2	0.66	0.6	0.2 or 0.6	1.12	
			0.8 only		
3	0.99	0.65	0.2 or 0.6	1.19	
			0.8 only		
4	1.32	0.5	0.2 or 0.6	1.05	
			0.8 only		
5	1.65	0.2	0.2 or 0.6	0.84	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0
Right Edge Water (REW) 2.0m
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 2.57

Discharge calculated by (date and initials):
SH 2/9/09

Double checked by (date and initials):
FW 02/12/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

.33
2.0
1.8
20
.33
1.32

East San Joaquin Water Quality Coalition

Winter2 NM
Field Sheets

2009 March 17

Adminsitrative Record
Page 17452

Meter Calibration Log

Team 1

Team 1 members: J. Katz, S. Henderson
Primary multiparameter meter ID: YSI #1
Backup multiparameter meter ID: YSI #2
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07A1894AE
Serial number: 07A1894AF
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.02	3.92	4.00	4.00	03/16/09	JEK
pH 7	6.99	6.92	7.00	7.00	03/16/09	JEK
pH 10	10.04	9.99	10.01	10.00	03/16/09	JEK
1413 µS/cm	1403	1405	1413	1413	03/16/09	JEK
pH 4	4.03	4.06	4.00	4.00	03/18/09	SH
pH 7	6.94	6.98	7.00	7.00	03/18/09	SH
pH 10	10.05	10.00	10.01	10.00	03/18/09	SH
1413 µS/cm	1415	1412	1413	1413	03/18/09	SH

Team 2

Team 2 members: F. Wulff, M. Turner
Primary multiparameter meter ID: YSI #4
Backup multiparameter meter ID: YSI #3
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07K101586
Serial number: 07K101587
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.04	4.02	3.99	4.00	03/16/09	JEK
pH 7	7.02	6.98	7.00	7.00	03/16/09	JEK
pH 10	10.06	10.04	10.01	10.01	03/16/09	JEK
1413 µS/cm	1421	1411	1413	1413	03/16/09	JEK
pH 4	3.99	4.00	4.00	4.00	03/18/09	SH
pH 7	6.96	6.97	7.00	7.00	03/18/09	SH
pH 10	10.01	9.95	10.00	9.99	03/18/09	SH
1413 µS/cm	1413	1414	1413	1413	03/18/09	SH

Administrative Record
Page 17453

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) SH 3/19/09 double checker: FW 03/25/09 Pg of Pgs

Station Name: Mootz Drain @ Langworth Rd
StationID: 535XMDALR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 2 2009
Personnel: J. Katz, S. Henderson

DATE (mm/dd/yyyy): 3/17/2009
PurposeFailure: None
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 08:06
SAMPLE TIME: 08:50
Departure Time: 10:26

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other 2 Culvert US, 1 culvert DS
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1 SW, 1 NW
PICTURE NAME: mdALR_Winter2NM_031709_NW, SW
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.70582	-120.89303
*Actual:	37.70523	-120.89409
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 17

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	16.62
Water Temp (Celsius):	13.73
SC (uS/cm):	389
DO (mg/L):	4.01
pH:	7.97
TDS:	0.253
ORP:	
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	0

Samples Taken (# of Containers Filled) Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	2	
535XMDALR-GR	TOC	40-mL Glass Amber vial, set of 3	3	
535XMDALR-GR	Carbamates, OCs, OPs, Herbicides, Group A Pesticides	1-L Amber Glass	5	
535XMDALR-GR	Paraquat	1-L Plastic	1	
535XMDALR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	
535XMDALR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	Filtered sample
535XMDALR-GR	Glyphosate	40-mL Glass Amber vial	5	
535XMDALR-GR	E. coli	100-mL Polyethylene	1	
535XMDALR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	2	

QC Site: See reverse for list of samples to collect

QC Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR2	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR2	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-FB	Total Kjehldahl Nitrogen, Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-GR2	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-FB	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-GR2	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-GR2	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-TB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-EB	Dissolved Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-GR2	Glyphosate	40-mL Glass vial	2	
535XMDALR-FB	Glyphosate	40-mL Glass vial	2	
535XMDALR-FB	E. coli	100-mL Polyethylene	1	
535XMDALR-GR2	E. coli	260-mL Polyethylene	1	
535XMDALR-GR2	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
535XMDALR-FB	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
535XMDALR-GR2	Pesticides	1-L Amber Glass	5	
535XMDALR-FB	Pesticides	1-L Amber Glass	5	
535XMDALR-MS	Pesticides	1-G Amber Glass	3	
535XMDALR-GR2	Paraquat	1-L Plastic	1	
535XMDALR-FB	Paraquat	1-L Plastic	1	
535XMDALR-MS	Paraquat	1-L Plastic	1	

MLJ LLC Discharge Field Sheet

Sampler: _____

Date: _____

Site ID: _____

Site Name: _____

Method: wading / bridge

Meter: MMB / other

Meter Units: ft/s m/s

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____

Water Depth (H): _____

Top of Sediment to Top of Culvert (S): _____

Sed. Depth (D-S): _____

Velocity @ 0.2H: _____

Velocity @ 0.6H: _____

Velocity @ 0.8H: _____

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.8		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): _____

Discharge calculated by (date and initials):

_____

Double checked by (date and initials):

_____

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 3/19/09 double checker: FV 03/23/09 Pg of Pgs

Station Name: Dry Creek @ Wellsford Rd
StationID: 535XDCAWR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 2 2009
Personnel: J. Katz, S. Henderson

DATE (mm/dd/yyyy): 3/17/09
PurposeFailure: None
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 10:35
SAMPLE TIME: 10:50
Departure Time: 11:17

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 7.45m WATER DEPTH (ft / m): 0.46
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.6602	-120.8743
*Actual:	37.660063	-120.87547
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 27

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → NW
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: DCAWR_Winter2NM_031709_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	15.74
Water Temp (Celsius):	13.29
SC (uS/cm):	178
DO (mg/L):	8.23
pH:	7.60
TDS:	0.116
ORP:	
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	2.73

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAWR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDCAWR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAWR-GR	E. coli	100-mL Polyethylene	1	
535XDCAWR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record
Page 17456

MLJ LLC Discharge Field Sheet

Sampler: JKatz
Date: 3/17/09
Site ID: 535XDCAWR
Site Name: Dry Creek @ Whitehead Rd

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	~~1.32~~	X	0.2 or 0.6		~~30 sec.~~
			0.8 only		
2	1.62	0.5	0.2 or 0.6	0.10	30 sec
			0.8 only		
3	2.94	1.1	0.2 or 0.6	0.14	
			0.8 only		
4	4.26	1.5	0.2 or 0.6	0.08	
			0.8 only		
5	5.58	1.7	0.2 or 0.6	0.15	
			0.8 only		
6	6.90	1.0	0.2 or 0.6	0.05	
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0.3m
Right Edge Water (REW) 8.25
Start Time (24 hr):
End Time (24 hr):
Discharge (cfs): 2.73

Discharge calculated by (date and initials):
FW 03/18/09

Double checked by (date and initials):
DH 3/18/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

1.62
1.32
2.94
1.32
4.26
1.32
5.58
1.32
6.90
1.32
8.22

~~1.59~~
~~7.95~~
5
29
~~25~~
45

1.32
6 7.92
6
12
18
15

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): GH 3/19/09 double checker: FW 03/23/09 Pg of Pgs

Station Name: Lateral 2 ½ Near Keyes Rd
StationID: 535LTHNKR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 2 2009
Personnel: J. Katz, S. Henderson

DATE (mm/dd/yyyy): 3/17/09
PurposeFailure: Dry Site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 12:03
SAMPLE TIME:
Departure Time: 12:10

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.5478	-121.09274
*Actual:	37.54774	-121.08487
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 29

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1S, 1E, 1W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Too shallow too collect sample.

PICTURE NAME: LTHNKR_WinterZNM_031709_W,E,N,S

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535LTHNKR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535LTHNKR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535LTHNKR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535LTHNKR-GR	Carbamates, OCs, OPs, Herbicides, Group A Pesticides	1-L Amber Glass	5	
535LTHNKR-GR	Paraquat	1-L Plastic	1	
535LTHNKR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535LTHNKR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535LTHNKR-GR	Glyphosate	40-mL Glass Amber vial	2	
535LTHNKR-GR	E. coli	100-mL Polyethylene	1	
535LTHNKR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): H 3/19/09 double checker: FV 03/23/09 Pg of Pgs

Station Name: Prairie Flower Drain @ Crows Landing Rd
StationID: 535XPFDCL
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 2 2009
Personnel: J. Kotz, S. Henderson

DATE (mm/dd/yyyy): 3/17/09
PurposeFailure: None
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 12:27
SAMPLE TIME: 12:40
Departure Time: 12:58

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel) Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in) Bridge, Other
STARTING BANK: LB / (RB) / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, (Culvert), Other
HYDROMODLOC: US / (OS) / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4422	-121.0024
*Actual:	37.44188	-121.00334
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft) m): 16

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud), Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, (Green), Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, (0.1 - 1cfs), 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, (Hazy)
PICTURE NUMBER: 1E, 1W
PICTURE NAME: PFDCL_Winter2NM-031709_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), (Nonvascular), (OilySheen), (Foam), (Trash), None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	~~18.96~~
Water Temp (Celsius):	~~15.96~~
SC (uS/cm):	2314
DO (mg/L):	19.39
pH:	~~8.89~~
TDS:	~~1.5046~~
ORP:	
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	0.12

18.96 → 4.18 (SH 3/23) 14.98
8.74
1.504

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XPFDCL-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XPFDCL-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XPFDCL-GR	E. coli	100-mL Polyethylene	1	
535XPFDCL-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

MLJ LLC Discharge Field Sheet

Sampler: J. Katz
Date: 3/17/09
Site ID: 535XDFDC2
Site Name: Prairie Flower Drain @ Crows Landing Rd.

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): 0.12

Discharge calculated by (date and initials):
FW 03/18/09

Double checked by (date and initials):
JH 3/18/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): 2.5ft
Water Depth (H): 1.9
Top of Sediment to Top of Culvert (S): 1.9
Sed. Depth (D-S): 0.6
Velocity @ 0.2H: 0.06
Velocity @ 0.6H: 0.03
Velocity @ 0.8H: 0.0

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 3/20/09 double checker: FW 07/25/09 Pg of Pgs

Station Name: Cottonwood Creek @ Rd 20
StationID: 545XCCART
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 2 2009
Personnel: F. Wulff, M. Turner

DATE (mm/dd/yyyy): 03/17/2009
PurposeFailure: Dry site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 09:05
SAMPLE TIME: 2
Departure Time: 09:10

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, (Light Breeze) Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, (Dry Waterbody Bed) No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: Clear, (Partly Cloudy) Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: CCART_Winter2NM_031709_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	36.8686	-120.1818
*Actual:	36.86849	-120.18268
Difference:		
GPS Model: MLJ-LLC Garmin eTrex	Datum: NAD 83	
	Accuracy (ft / m): 30	

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XCCART-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
545XCCART-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XCCART-GR	E. coli	100-mL Polyethylene	1	
545XCCART-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 3/20/09 double checker: FW 03/25/09 Pg of Pgs

Station Name: Ash Slough @ Ave 21
StationID: 545XASAAT
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 2 2009
Personnel: F. Wu/FF, M. Turner

DATE (mm/dd/yyyy): 03/17/2009
PurposeFailure: Dry site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 09:52
SAMPLE TIME: X
Departure Time: 09:54

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.0545	-120.4158
*Actual:	37.05433	-120.41589
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 0 / 22

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): **WATER DEPTH (ft / m):**
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N, W, E, S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1S, 1N
PICTURE NAME: XASAAT_WINTER2NMLO3T09_N,S.
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XASAAT-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
545XASAAT-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
545XASAAT-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XASAAT-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
545XASAAT-GR	Paraquat	1-L Plastic	1	
545XASAAT-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
545XASAAT-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
545XASAAT-GR	Glyphosate	40-mL Glass Amber vial	2	
545XASAAT-GR	E. coli	100-mL Polyethylene	1	
545XASAAT-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): JH 3/20/09 double checker: FW 3/25/09 Pg 1 of 1 Pgs

Station Name: Deadman Creek @ Gurr Rd
StationID: 535XDCAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 2 2009
Personnel: F.Wu/FF. M.Turner

DATE (mm/dd/yyyy): 03/17/2009
PurposeFailure: None
Purpose (Circle all that apply): (WaterChem) (WaterTox) (Habitat) (FieldMeasure)

Arrival Time: 10:15
SAMPLE TIME: 10:30
Departure Time: 11:00

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 3.5 WATER DEPTH (ft / m): 0.5 m
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), Pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), (Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, Green, Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, (No Observed Flow), Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1W, 1E
PICTURE NAME: DCAGR_Winter2NM_031709_W,E
PRECIPITATION (last 24 hrs): (Unknown), <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.1936	-120.5612
*Actual:	37.19300	-120.56133
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 30

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	19.34
Water Temp (Celsius):	14.80
SC (uS/cm):	475
DO (mg/L):	10.35
pH:	7.99
TDS:	0.309
ORP:	—
YSI Meter ID:	#4
Stage:	—
Calculated Site Discharge:	Ø

No visible flow

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDCAGR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XDCAGR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDCAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAGR-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
535XDCAGR-GR	Paraquat	1-L Plastic	1	
535XDCAGR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XDCAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDCAGR-GR	Glyphosate	40-mL Glass Amber vial	2	
535XDCAGR-GR	E. coli	100-mL Polyethylene	1	
535XDCAGR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 3/20/09 double checker: FW 03/25/09 Pg 1 of 1 Pgs

Station Name: Duck Slough @ Gurr Rd
StationID: 535XDSAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 2 2009
Personnel: F. Wulff, M. Turner → non contiguous waterbody

DATE (mm/dd/yyyy): 03/17/2009
PurposeFailure: None / isolated pool
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 11:05
SAMPLE TIME: 11:20
Departure Time: 11:40

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 4m
WATER DEPTH (ft / m): 0.3 m
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2142	-120.5596
*Actual:	37.21416	-120.56085
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 19

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W, 1N
PICTURE NAME: DSAGR_WINTER2NM_03709_W,N,E1,E2
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	19.22
Water Temp (Celsius):	13.96
SC (uS/cm):	223
DO (mg/L):	10
pH:	~~8.30~~ 9.70
TDS:	0.145
ORP:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	0 no flow / pool

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDSAGR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDSAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDSAGR-GR	Organophosphates	1-L Amber Glass	3	
535XDSAGR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XDSAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDSAGR-GR	E. coli	100-mL Polyethylene	1	
535XDSAGR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record
Page 17464

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 3/20/09 double checker: FW 03/25/09 Pg of Pgs

Station Name: Howard Lateral @ Hwy 140
StationID: 535XHLAHO
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 2 2009
Personnel: F. Wu/FF. M Turner

DATE (mm/dd/yyyy): 03/17/2009
PurposeFailure: Dry site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 12:00
SAMPLE TIME: X
Departure Time: 12:03

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.3079	-120.7820
*Actual:	37.30780	-120.78207
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 39

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N E S W
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: IN, IS
PICTURE NAME: HLAHO_Winter2MM-031709_N,S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
ORP:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHLAHO-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XHLAHO-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XHLAHO-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHLAHO-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
535XHLAHO-GR	Paraquat	1-L Plastic	1	
535XHLAHO-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XHLAHO-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XHLAHO-GR	Glyphosate	40-mL Glass Amber vial	2	
535XHLAHO-GR	E. coli	100-mL Polyethylene	1	
535XHLAHO-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 3/20/09 | double checker: FW 03/25/09 | Pg of Pgs

Station Name: Highline Canal @ Hwy 99
StationID: 535XHCHNN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 2 2009
Personnel: F. Wulff, M Turner

DATE (mm/dd/yyyy): 03/17/2009
PurposeFailure: isolated pools → too shallow to sample
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 12:30
SAMPLE TIME: ~~12:40~~
Departure Time: 12:40

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None) Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), (Murky (<4" vis))
WADEABLE: (YES) / NO
WIND: Calm, (Light Breeze) Gusty
WATERCOLOR: Colorless, Green, Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, (Isolated Pool), 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → 1 South, ~~1 north~~ 1E, 1W (SH)
SKY CODE: Clear, (Partly Cloudy), Overcast, Fog, Hazy
PICTURE NUMBER: 2
PICTURE NAME: HCHNN_Winter2NM-03170911W,E
PRECIPITATION (last 24 hrs): (Unknown), <1", >1", None
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4153	-120.7557
*Actual:	37.41245	- 120.75935
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m):

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	~88
Water Temp (Celsius):	
SC (uS/cm):	↓
DO (mg/L):	
pH:	
TDS:	↓
ORP:	—
YSI Meter ID:	#4
Stage:	—
Calculated Site Discharge:	Ø

too Shallow to ~~#~~ measure

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHCHNN-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XHCHNN-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHCHNN-GR	E. coli	100-mL Polyethylene	1	
535XHCHNN-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): AH 3/20/09 | double checker: FW 03/25/09 | Pg of Pgs

Station Name: Mustang Creek @ East Ave
StationID: 535XMCAEA
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 2 2009
Personnel: F. Wulff, M. Turner

DATE (mm/dd/yyyy): 03/17/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 13:45
SAMPLE TIME: 14:20
Departure Time: 14:41

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4918	-120.6839
*Actual:	37.49189	-120.68491
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 29

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: 1gdiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other manure
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other manure/dairy
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 2 2A, S, NE, W 2A
PICTURE NAME: MCAEA_NWheadNM_03/17/09_S,NE,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

▲ Air Temp (Celsius):	21.2
▲ Water Temp (Celsius):	19.83
▲ SC (uS/cm):	1042
▲ DO (mg/L):	13.56
pH:	7.56
TDS:	0.677
ORP:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	0

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XMCAEA-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMCAEA-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMCAEA-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMCAEA-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
535XMCAEA-GR	Paraquat	1-L Plastic	1	
535XMCAEA-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMCAEA-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMCAEA-GR	Glyphosate	40-mL Glass Amber vial	2	
535XMCAEA-GR	E. coli	100-mL Polyethylene	1	
535XMCAEA-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record
Page 17467

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 3/26/09 double checker: FW 03/25/09 Pg of Pgs

Station Name: Merced River @ Santa Fe
StationID: 535XMRSFD
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Winter 2 2009
Personnel: J. Kratz, S. Henderson

DATE (mm/dd/yyyy): 03/17/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 12:57
SAMPLE TIME: 13:20
Departure Time: 13:30

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4271	-120.6721
*Actual:	37.42781	-120.67374
Difference:		
GPS Model: MLJ-LLC Garmin eTrex		Datum: NAD 83
		Accuracy (ft / m): 20

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m): 0.75
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	21.29
Water Temp (Celsius):	16.04
SC (uS/cm):	64
DO (mg/L):	9.96
pH:	7.56
TDS:	
ORP:	
YSI Meter ID:	~~#14~~
Stage:	
Calculated Site Discharge:	261

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N, NW, W, E, S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: MRSFD-WINTER2NM-031709_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMRSFD-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMRSFD-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMRSFD-GR	Organophosphates, Organochlorines, Group A Pesticides	1-L Amber Glass	4	
535XMRSFD-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMRSFD-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMRSFD-GR	E. coli	100-mL Polyethylene	1	
535XMRSFD-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Retrieve discharge information from CDEC

East San Joaquin Water Quality Coalition

Irrigation 1 NM & MP Sampling
Field Sheets

2009 April 21

Adminsitrative Record
Page 17469

Meter Calibration Log

Team 1

Team 1 members: J. Katz, S. Henderson
Primary multiparameter meter ID: YSI #3 — Serial number: 07K101587
Backup multiparameter meter ID: YSI #4 — Serial number: 07K101586
Discharge meter ID: — Serial number:
GPS Unit ID: — Serial number:
Auxiliary meter ID: — Serial number:
Camera ID:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	3.98	4.00	4.00	4.00	4/20/09	S.H.
pH 7	7.04	6.99	7.00	7.00	4/20/09	S.H.
pH 10	9.95	10.01	9.99	10.00	4/20/09	S.H.
1413 µS/cm	1388	1410	1413	1413	4/20/09	S.H.
pH 4	4.01	4.02	4.00	4.00	4/22/09	F.W.
pH 7	6.99	6.97	7.00	7.00	4/22/09	F.W.
pH 10	10.03	10.02	10.01	10.00	4/22/09	F.W.
1413 µS/cm	1444	1421	1413	1413	4/22/09	F.W.

Team 2

Team 2 members: F. Wulff, K. Callinan
Primary multiparameter meter ID: YSI #1 — Serial number: 07A1894AE
Backup multiparameter meter ID: YSI #2 — Serial number: 07A1894AF
Discharge meter ID: — Serial number:
GPS Unit ID: — Serial number:
Auxiliary meter ID: — Serial number:
Camera ID:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.01	4.02	4.00	4.00	4/20/09	S.H.
pH 7	6.99	6.95	7.00	7.00	4/20/09	S.H.
pH 10	9.99	10.00	10.00	10.00	4/20/09	S.H.
1413 µS/cm	1417	1407	1413	1413	4/20/09	S.H.
pH 4	4.04	4.01	4.00	4.00	4/22/09	F.W.
pH 7	6.96	6.99	7.00	7.00	4/22/09	F.W.
pH 10	10.07	10.01	10.01	10.00	4/22/09	F.W.
1413 µS/cm	1409	1423	1413	1413	4/22/09	F.W.

Administrative Record
Page 17470

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 4/22/09 double checker: FW 4/23/09

Station Name: Ash Slough @ Ave 21
StationID: 545XASAAT
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 1 2009
Personnel: J. Kate, S. Henderson

DATE (mm/dd/yyyy): 04/21/09
PurposeFailure: Dry site
Purpose (Circle all that apply): WaterChem WaterTox FieldMeasure Habitat SedChem SedTox

Arrival Time: 9:55
SAMPLE TIME: —
Departure Time: 9:59

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.0545	-120.4158
*Actual:	37.05447	-120.41588
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 14

WATER SAMPLES
Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m
SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

SEDIMENT SAMPLES
Lab Chem/Tox Method=Sed_Grab Position in Water Column: Not Applicable Depth: 2 cm
SAMPLE TYPE: Grab, Integrated
DEVICE: Scoop: Metal, MLJ-LLC Ekman, Other

ALL SAMPLES
Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1SW, NE, NW, SE
PICTURE NAME: ASAAT_IRRINM_042109_SW,NE,NW,SE
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other
SEDIMENT COLOR: Brown, Black, Grey
SEDIMENT ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SEDIMENT COMPOSITION: Cobble, Gravel, Hard Pan Clay, Silt/Clay, Sand, Unknown, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge (cfs):	

WATER SAMPLES
Samples Taken (# of Containers Filled) Method = Water_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XASAAT-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
545XASAAT-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
545XASAAT-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XASAAT-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
545XASAAT-GR	Paraquat	1-L Plastic	1	
545XASAAT-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
545XASAAT-GR	Dissolved Metals, hardness (as CaCO3) **FILTERED**	500-mL Plastic (w/HNO3)	1	
545XASAAT-GR	Glyphosate	40-mL Glass Amber vial	2	
545XASAAT-GR	E. coli	100-mL Polyethylene	1	
545XASAAT-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

SEDIMENT SAMPLES
Samples Taken (# of Containers Filled) Method = Sed_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XASAAT-IN	Sediment Toxicity Test: Acute *Hyalella azteca*	1-L Widemouth Glass	2	
545XASAAT-IN	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	3	
545XASAAT-IN2	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	1	
545XASAAT-IN	Sediment Total Residue: % Solids	8 oz Widemouth Polyethylene	1	
545XASAAT-IN	Sediment TOC	8 oz Widemouth Polyethylene	1	
545XASAAT-IN	Sediment Grain Size	9 oz Widemouth Polyethylene	1	

Dry Site

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) 4/22/09 SH double checker: FW 4/23/09

Station Name: Cottonwood Creek @ Rd 20
StationID: 545XCCART
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 1 2009
Personnel: J. Katz, S. Henderson

DATE (mm/dd/yyyy): 04/21/09
PurposeFailure: DRY site
Purpose (Circle all that apply): WaterChem, WaterTox, FieldMeasure, Habitat, SedChem, SedTox

Arrival Time: 09:10
SAMPLE TIME:
Departure Time: 09:20

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	36.8686	-120.1818
*Actual:	36.88859	-120.18224
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 18

WATER SAMPLES
Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m
SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

SEDIMENT SAMPLES
Lab Chem/Tox Method=Sed_Grab Position in Water Column: Not Applicable Depth: 2 cm
SAMPLE TYPE: Grab, Integrated
DEVICE: Scoop: Metal, MLJ-LLC Ekman, Other

ALL SAMPLES
Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: E,W,SW,NE,NW
PICTURE NAME: LCHART_IRRIGN_042109_E,N,SW,NE,NW
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other
SEDIMENT COLOR: Brown, Black, Grey
SEDIMENT ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SEDIMENT COMPOSITION: Cobble, Gravel, Hard Pan Clay, Silt/Clay, Sand, Unknown, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge (cfs):	

WATER SAMPLES
Samples Taken (# of Containers Filled) Method = Water_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XCCART-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
545XCCART-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XCCART-GR	E. coli	100-mL Polyethylene	1	
545XCCART-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
545XCCART-GR	Toxicity: Acute FHM + Chronic Selenastrum	1-g Jug	4	

SEDIMENT SAMPLES
Samples Taken (# of Containers Filled) Method = Sed_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XCCART-IN	Sediment Toxicity Test: Acute *Hyalella azteca*	1-L Widemouth Glass	2	
545XCCART-IN	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	3	
545XCCART-IN2	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	1	
545XCCART-IN	Sediment Total Residue: % Solids	8 oz Widemouth Polyethylene	1	
545XCCART-IN	Sediment TOC	8 oz Widemouth Polyethylene	1	
545XCCART-IN	Sediment Grain Size	9 oz Widemouth Polyethylene	1	

Dry Site

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 4/22/09 double checker: FW 4/23/09 Pg of Pgs

Station Name: Duck Slough @ Hwy 99
StationID: 535XDSAHN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 1 2009

DATE (mm/dd/yyyy): 4/21/09
PurposeFailure: None
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 10:29
SAMPLE TIME: 10:40
Departure Time: 10:53

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

Personnel: J. Katz, S. Henderson

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: NE3W
PICTURE NAME: 535AHN_122MP_042109_NE,N1,W2,N3
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2501	-120.4100
*Actual:	37.25029	-120.40941
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 16

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	25.34
Water Temp (Celsius):	20.69
SC (uS/cm):	143
DO (mg/L):	7.98
pH:	7.44
TDS:	0.094
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	-88

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDSAHN-GR	Tox tests: Chronic Selenastrum	1-Gal Amber Glass	3	Management Plan Sample

April Management Plan Monitoring
Measure Field Results
Discharge not measured due to toxicity monitoring only

Administrative Record
Page 17474

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) JH 4/22/09 double checker: FW 4/23/09 Pg of Pgs

Station Name: Miles Creek @ Reilly Rd
StationID: 535XMCARR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 1 2009
Personnel: J. Katz, S. Henderson

DATE (mm/dd/yyyy): 4/21/09
PurposeFailure: None
Purpose (Circle all that apply): WaterChem (WaterTox) Habitat FieldMeasure

Arrival Time: 11:05
SAMPLE TIME: 11:20
Departure Time: 11:22

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB) RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: (None), Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / (DS) / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.25821	-120.47546
*Actual:	37.25830	-120.47510
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 20

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), (Murky (<4" vis))
WADEABLE: (YES) / NO
WIND: (Calm), (Light Breeze), Gusty
WATERCOLOR: Colorless, Green, Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, (5 - 20 cfs), 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, (Hazy)
PICTURE NUMBER: 2N, 1S, 1SW, 1W
PICTURE NAME: MCARR_IRRIMP_042109_N1, N2, S, W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, (Other) SWallows

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	26.74
Water Temp (Celsius):	21.29
SC (uS/cm):	258
DO (mg/L):	6.30
pH:	7.33
TDS:	0.168
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	-88

Samples Taken (# of Containers Filled) Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XMCARR-GR	Tox tests: Chronic Selenastrum	1-Gal Amber Glass	3	Management Plan Sample

April Management Plan Monitoring
Measure Field Results
Discharge not measured due to toxicity monitoring only

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 4/22/09 | double checker: FW 4/23/09 | Pg of Pgs

Station Name: Deadman Creek @ Hwy 59
StationID: 535DMCAHF
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 1 2009
Personnel: J. Kutz, S. Henderson

DATE (mm/dd/yyyy): 4/21/09
PurposeFailure: Dry Site
Purpose (Circle all that apply): WaterChem (WaterTox) Habitat FieldMeasure

Arrival Time: 11:28
SAMPLE TIME: —
Departure Time: 11:32

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

	Lat (dd.ddddd)	Long (dd.ddddd)
*GPS/DGPS		
Target:	37.1981	-120.4869
*Actual:	37.19779	-120.48818
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 17

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N, NW, N, W, E, S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: DMCAHF_1RR1MP_042109_W, E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	-88

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535DMCAHF-GR	Tox tests: Chronic Selenastrum	1-Gal Amber Glass	3	Management Plan Sample

April Management Plan Monitoring
Measure Field Results
Discharge not measured due to toxicity monitoring only

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) 4/22/09 AH double checker: FW 4/23/09 Pg of Pgs

Station Name: Duck Slough @ Gurr Rd
StationID: 535XDSAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 1 2009
Personnel: J. Katz, S. Henderson

DATE (mm/dd/yyyy): 4/21/09
PurposeFailure: None
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 13:04
SAMPLE TIME: 13:20
Departure Time: 13:40

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB) / RB/ NA
STREAM WIDTH (ft / m): 1.95
WATER DEPTH (ft / m): 0.11
HYDRO-MODIFICATION: None, (Bridge), (Pipes), Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / (DS) / NA DS

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2142	-120.5596
*Actual:	37.21412	-120.56081
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 16

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble), (Gravel), Sand, Mud, Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: (Colorless), Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, (5 - 20 cfs), 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: (Clear), (Partly Cloudy), Overcast, Fog, Hazy
PICTURE NUMBER: 2E, 1W, 1N
PICTURE NAME: DSAGR_IRR/NM_042109_E1,E2,W,N
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, (Trash), None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	20.57
Water Temp (Celsius):	22.18
SC (uS/cm):	292
DO (mg/L):	9.84
pH:	7.98
TDS:	0.189
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	~~0.32~~ 0.67

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDSAGR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDSAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDSAGR-GR	Organophosphates	1-L Amber Glass	3	
535XDSAGR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XDSAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDSAGR-GR	E. coli	100-mL Polyethylene	1	
535XDSAGR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Administrative Record
Page 17476

MLJ LLC Discharge Field Sheet

Sampler: JEK
Date: 4/21/09
Site ID: 535XDSAGR
Site Name: Duck Slough @ Gerber Rd.

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) / m/s

	Interval Midpoint (meters) or feet	Interval Depth meters or (feet)	Velocity		Duration
1	0.92	0.30	0.2 or 0.6	0.64	30sec
			0.8 only		
2	1.24	0.40	0.2 or 0.6	0.59	
			0.8 only		
3	1.56	0.35	0.2 or 0.6	0.39	
			0.8 only		
4	1.88	0.3	0.2 or 0.6	0.23	
			0.8 only		
5	2.20	0.2	0.2 or 0.6	0.00	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 2.55
Right Edge Water (REW) 0.6
Start Time (24 hr):
End Time (24 hr):
Discharge (cfs): ~~0.32~~ FW 0.67

Discharge calculated by (date and initials):
SH 4/22/09

Double checked by (date and initials):
FW 4/22/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

0.32
W. Q 1.95
18
15
12
3

1 1
1.88
.32
2.20

.6
0.32
.92
32
1.24

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) SH 4/22/09 double checker: FW 4/23/09 Pg of Pgs

Station Name: Hilmar Drain @ Central Ave
StationID: 535XHDACA
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 1 2009
Personnel: F. Wulff, K. Callinan

DATE (mm/dd/yyyy): 4/21/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem (WaterTox) (Habitat) (FieldMeasure)

Arrival Time: 14:42
SAMPLE TIME: 14:50
Departure Time: 15:00

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank-Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.3906	-120.9582
*Actual:	37.39035	- 120.95916
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 33

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other dec. plant matter
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other cow manure (dairy)
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: IN, IE
PICTURE NAME: HDACA_120NR_042109_E,N
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	31.78
Water Temp (Celsius):	21.41
SC (uS/cm):	904
DO (mg/L):	9.34
pH:	7.71
TDS:	0.587
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	-88

Samples Taken (# of Containers Filled) Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XHDACA-GR	Tox tests: Chronic Selenastrum	1-Gal Amber Glass	3	Management Plan Sample

April Management Plan Monitoring
Measure Field Results
Discharge not measured due to toxicity monitoring only

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SHA 12/09 double checker: FW 4/23/09 Pg of Pgs

Station Name: Merced River @ Santa Fe
StationID: 535XMRSFD
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 1 2009
Personnel: F. Wulff, K. Callinan

DATE (mm/dd/yyyy): 4/21/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 15:36
SAMPLE TIME: 15:50
Departure Time: 16:15

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4271	-120.6721
*Actual:	37.42476	- 120.67276
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 11

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → NW
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 12 . 1 W, E
PICTURE NAME: MRSFD_IRRIGNM_042109_W,E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	31.06
Water Temp (Celsius):	22.31
SC (uS/cm):	65
DO (mg/L):	9.83
pH:	7.59
TDS:	0.042
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	211

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMRSFD-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMRSFD-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMRSFD-GR	Organophosphates, Organochlorines, Group A Pesticides	1-L Amber Glass	4	
535XMRSFD-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMRSFD-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMRSFD-GR	E. coli	100-mL Polyethylene	1	
535XMRSFD-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Retrieve discharge information from CDEC

Administrative Record
Page 17479

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): 4/22/09 JH double checker: FW 4/23/09 Pg of Pgs

Station Name: Highline Canal @ Hwy 99
StationID: 535XHCHNN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 1 2009
Personnel: J. Katz, S. Henderson

DATE (mm/dd/yyyy): 04/21/09
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) (WaterTox) (Habitat) (FieldMeasure)

Arrival Time: 15:33
SAMPLE TIME: 15:50
Departure Time: 16:17

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, (Near Bank), Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in) Bridge, Other
STARTING BANK: (LB) RB/ NA
STREAM WIDTH (ft / m): 0.35 WATER DEPTH (ft / m): 1.43
HYDRO-MODIFICATION: None, (Bridge) Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4153	-120.7557
*Actual:	37.41245	-120.75941
Difference:		

GPS Model: MLJ-LLC Garmin eTrex Datum: NAD 83 Accuracy (ft / m): 30

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, (Sand), Mud, Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm) Light Breeze, Gusty
WATERCOLOR: (Colorless), Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, (50 - 200 cfs), >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX (N, W, E, S)
SKY CODE: Clear, (Partly Cloudy), Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: HCHNN_IRR1NM&NP_042109_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	30.09
Water Temp (Celsius):	23.37
SC (uS/cm):	43
DO (mg/L):	8.99
pH:	8.00
TDS:	0.028
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	8.64

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XHCHNN-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XHCHNN-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHCHNN-GR	E. coli	100-mL Polyethylene	1	
535XHCHNN-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
535XHCHNN-GR	Tox tests: Chronic Selenastrum	1-Gal Amber Glass	3	Management Plan Sample

MLJ LLC Discharge Field Sheet

Sampler: J. CATZ
Date: 4/21/09
Site ID: 335XHCHNN
Site Name: Highline Canal @ Hwy 99

Method: wading / bridge 24
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.06	4.7	0.2 or 0.6	0.15	
			0.8 only	0.88	
2	0.92	4.7	0.2 or 0.6	0.79	
			0.8 only	0.87	
3	3.[illegible]80	4.5	0.2 or 0.6	0.11	
			0.8 only	0.06	
4	5.04	4.4	0.2 or 0.6	0.[illegible]	
			0.8 only	0.07	
5	6.10	4.8	0.2 or 0.6	0.17	
			0.8 only	0.09	
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW): 7.15
Right Edge Water (REW): 0.8
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 8.64

Discharge calculated by (date and initials):
GH 4/22/09

Double checked by (date and initials):
FW 4/22/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

1.86
1.06
2.92
1.06
3.98
1.06
5.04
1.06
6.10

6
7.15
0.8
1.95
6/6.3
1.35

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) 4/22/09 SH double checker: FW 4/23/09 Pg of Pgs

Station Name: Dry Creek @ Wellsford Rd
StationID: 535XDCAWR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 1 2009
Personnel: F. Wulff, K. Callinan

DATE (mm/dd/yyyy): 04/21/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 11:02
SAMPLE TIME: 11:30
Departure Time: 11:42

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 7.7 WATER DEPTH (ft / m): 0.31
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Haze
PICTURE NUMBER: 1E, 1W
PICTURE NAME: DCAWR_ILRP_WM_042109_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.6602	-120.8743
*Actual:	37.66063	- 120.87540
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 127

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	26.52
Water Temp (Celsius):	20.49
SC (uS/cm):	143
DO (mg/L):	7.11
pH:	7.09
TDS:	0.093
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	15.27

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAWR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDCAWR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAWR-GR	E. coli	100-mL Polyethylene	1	
535XDCAWR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

Pipe directly upstream of sample location is discharging.

MLJ LLC Discharge Field Sheet

Sampler: F. Wulff
Date: 4/21/09
Site ID: 535xDCAWR
Site Name: Dry Creek @ Wellsford Rd.

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) m/s

	Interval Midpoint (meters) or feet	Interval Depth meters or (feet)	Velocity		Duration
1	1.3	0.4	(0.2 or 0.6)	0.40	303
			0.8 only		
2	2.6	1.2	(0.2 or 0.6)	0.79	
			0.8 only		
3	3.9	1.1	(0.2 or 0.6)	1.30	
			0.8 only		
4	5.2	0.65	(0.2 or 0.6)	0.98	
			0.8 only		
5	6.5	1.0	(0.2 or 0.6)	0.49	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW): 0
Right Edge Water (REW): 7.7 m
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 15.27

Discharge calculated by (date and initials): SH 4/22/09

Double checked by (date and initials): FW 4/22/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) 4/22/09 SH double checker: FW 4/23/09 Pg of Pgs

Station Name: Prairie Flower Drain @ Crows Landing Rd
StationID: 535XPFDCL
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 1 2009
Personnel: F. Wulff, K. Callinan

DATE (mm/dd/yyyy): 4/21/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem / WaterTox / Habitat / FieldMeasure

Arrival Time: ~~X~~ 14:05
SAMPLE TIME: 14:20
Departure Time: 14:32

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other culvert
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4422	-121.0024
*Actual:	37.44185	-121.00340
Difference:		

GPS Model: MLJ-LLC Garmin eTrex Datum: NAD 83 Accuracy (ft / m): 35

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N / W / E / S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E
PICTURE NAME: PFDCL_~~ILRP~~ILRP\NMS\NP_042109_E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	30.65
Water Temp (Celsius):	27.34
SC (uS/cm):	2223
DO (mg/L):	7.89
pH:	8.01
TDS:	1.444
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	SH 0.30

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XPFDCL-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XPFDCL-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XPFDCL-GR	E. coli	100-mL Polyethylene	1	
535XPFDCL-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
535XPFDCL-GR	Tox tests: Chronic Selenastrum	1-Gal Amber Glass	3	Management Plan Sample

Administrative Record
Page 17484

MLJ LLC Discharge Field Sheet

Sampler: F. Wulff
Date: 4/21/09
Site ID: 535 x RFDCL
Site Name: Prairie Flower Drain @ Crows Landing Rd.

Method: wading / bridge
Meter: AMP / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): 0.30

Discharge calculated by (date and initials):
SH 4/21/09

Double checked by (date and initials):
FW 4/22/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):	3 ft.
Water Depth (H):	2.5 ft
Top of Sediment to Top of Culvert (S):	2.5 ft.
Sed. Depth (D-S):	0.5 ft
Velocity @ 0.2H:	0.08
Velocity @ 0.6H:	0.07
Velocity @ 0.8H:	0.01

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 4/22/09 | double checker: FV 4/23/09

Station Name: Mustang Creek @ East Ave
StationID: 535XMCAEA
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 1 2009
Personnel: F. Wulff, K. Callinan

DATE (mm/dd/yyyy): 4/21/09
PurposeFailure: No water collection.
Purpose (Circle all that apply): WaterChem, WaterTox, FieldMeasure, Habitat, SedChem, SedTox

Arrival Time: 16:44
SAMPLE TIME: 17:00
Departure Time: 17:25

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4918	-120.6839
*Actual:	37.49188	-120.68518
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 100

WATER SAMPLES
Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m
SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

SEDIMENT SAMPLES
Lab Chem/Tox Method=Sed_Grab Position in Water Column: Not Applicable Depth: 2 cm
SAMPLE TYPE: Grab, Integrated
DEVICE: Scoop: Metal, MLJ-LLC Ekman, Other

ALL SAMPLES
Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other X
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other cow manure
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right →
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 2N, 1W, 1E
PICTURE NAME: MCAEA_IRRIGNM_042109_N1, N2, W, E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other
SEDIMENT COLOR: Brown, Black, Grey
SEDIMENT ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SEDIMENT COMPOSITION: Cobble, Gravel, Hard Pan Clay, Silt/Clay, Sand, Unknown, Other mixed veg & silt

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	30.90
Water Temp (Celsius):	32.32
SC (uS/cm):	1433
DO (mg/L):	0.98
pH:	7.73
TDS:	0.931
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge (cfs):	

WATER SAMPLES
Samples Taken (# of Containers Filled) Method = Water_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMCAEA-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMCAEA-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMCAEA-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMCAEA-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
535XMCAEA-GR	Paraquat	1-L Plastic	1	
535XMCAEA-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMCAEA-GR	Dissolved Metals, hardness (as CaCO3) **FILTERED**	500-mL Plastic (w/HNO3)	1	
535XMCAEA-GR	Glyphosate	40-mL Glass Amber vial	2	
535XMCAEA-GR	E. coli	100-mL Polyethylene	1	
535XMCAEA-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

SEDIMENT SAMPLES
Samples Taken (# of Containers Filled) Method = Sed_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMCAEA-IN	Sediment Toxicity Test: Acute *Hyalella azteca*	1-L Widemouth Glass	2	
535XMCAEA-IN	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	3	
535XMCAEA-IN2	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	1	
535XMCAEA-IN	Sediment Total Residue: % Solids	8 oz Widemouth Polyethylene	1	
535XMCAEA-IN	Sediment TOC	8 oz Widemouth Polyethylene	1	
535XMCAEA-IN	Sediment Grain Size	9 oz Widemouth Polyethylene	1	

Not enough water for water sampling.

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): 4/22/09 SH double checker: FW 4/23/09

Station Name: Lateral 2 ½ Near Keyes Rd
StationID: 535LTHNKR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 1 2009
Personnel: F. Wulff, K. Callinan

DATE (mm/dd/yyyy): 4/21/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem, FieldMeasure, SedChem, WaterTox, Habitat, SedTox

Arrival Time: 12:35
SAMPLE TIME: 12:50
Departure Time: 13:46

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 1.2 **WATER DEPTH (ft / m):** 0.67
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.5478	-121.09274
*Actual:	37.54762	-121.08066
Difference:		

GPS Model: MLJ-LLC Garmin eTrex Datum: NAD 83 Accuracy (ft / m): 28

WATER SAMPLES
Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m
SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

SEDIMENT SAMPLES
Lab Chem/Tox Method=Sed_Grab Position in Water Column: Not Applicable Depth: 2 cm
SAMPLE TYPE: Grab, Integrated
DEVICE: Scoop: Metal, MLJ-LLC Ekman, Other

ALL SAMPLES
Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other — Dairy (i.e. cow)
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1W, 1E
PICTURE NAME: LTHNKR_[illegible]NM_042109_W,E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other
SEDIMENT COLOR: Brown, Black, Grey
SEDIMENT ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other — decomposed plant matter
SEDIMENT COMPOSITION: Cobble, Gravel, Hard Pan Clay, Silt/Clay, Sand, Unknown, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	29.68
Water Temp (Celsius):	22.36
SC (uS/cm):	112
DO (mg/L):	14.06
pH:	9.20
TDS:	0.073
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge (cfs):	16.15

WATER SAMPLES
Samples Taken (# of Containers Filled) Method = Water_Grab Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535LTHNKR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535LTHNKR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535LTHNKR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535LTHNKR-GR	Carbamates, OCs, OPs, Herbicides, Group A Pesticides	1-L Amber Glass	5	
535LTHNKR-GR	Paraquat	1-L Plastic	1	
535LTHNKR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535LTHNKR-GR	Dissolved Metals, hardness (as CaCO3) **FILTERED**	500-mL Plastic (w/HNO3)	1	
535LTHNKR-GR	Glyphosate	40-mL Glass Amber vial	2	
535LTHNKR-GR	E. coli	100-mL Polyethylene	1	
535LTHNKR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

SEDIMENT SAMPLES
Samples Taken (# of Containers Filled) Method = Sed_Grab Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535LTHNKR-IN	Sediment Toxicity Test: Acute *Hyalella azteca*	1-L Widemouth Glass	2	
535LTHNKR-IN	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	3	
535LTHNKR-IN2	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	1	
535LTHNKR-IN	Sediment Total Residue: % Solids	8 oz Widemouth Polyethylene	1	
535LTHNKR-IN	Sediment TOC	8 oz Widemouth Polyethylene	1	
535LTHNKR-IN	Sediment Grain Size	9 oz Widemouth Polyethylene	1	

MLJ LLC Discharge Field Sheet

Sampler: F. Wulff
Date: 4/21/09
Site ID: B35 LATHNER
Site Name: Lateral 2½ near Hayes Rd.

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	0.3	2.2	0.2 or 0.6	2.17	303
			0.8 only		
2	0.5	2.2	0.2 or 0.6	2.30	
			0.8 only		
3	0.7	2.2	0.2 or 0.6	2.26	
			0.8 only		
4	0.9	2.2	0.2 or 0.6	2.23	
			0.8 only		
5	1.1	2.2	0.2 or 0.6	2.21	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

← 2.23 KC

Left Edge Water (LEW): 1.3
Right Edge Water (REW): 0.1
Start Time (24 hr):
End Time (24 hr):
Discharge (cfs): 16.15

Discharge calculated by (date and initials): GH 4/22/09

Double checked by (date and initials): FW 4/22/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 4/24/09 | double checker: FW 4/23/09

Station Name: Howard Lateral @ Hwy 140
StationID: 535XHLAHO
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 1 2009
Personnel: T. Katz, S. Henderson

DATE (mm/dd/yyyy): 04/21/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem, WaterTox, FieldMeasure, Habitat, SedChem, SedTox

Arrival Time: 14:01
SAMPLE TIME: 14:30
Departure Time: 15:03

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 2.5
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.3079	-120.7820
*Actual:	37.30778	-120.78203
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 26

WATER SAMPLES
Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m
SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

SEDIMENT SAMPLES
Lab Chem/Tox Method=Sed_Grab Position in Water Column: Not Applicable Depth: 2 cm
SAMPLE TYPE: Grab, Integrated
DEVICE: Scoop: Metal, MLJ-LLC Ekman, Other

ALL SAMPLES
Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other, VER
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1 NE, 1 NW, 1 SW
PICTURE NAME: HLAHO_IRRIGM_042109_NE,NW,SW
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other
SEDIMENT COLOR: Brown, Black, Grey
SEDIMENT ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SEDIMENT COMPOSITION: Cobble, Gravel, Hard Pan Clay, Silt/Clay, Sand, Unknown, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	31.33
Water Temp (Celsius):	25.20
SC (uS/cm):	251
DO (mg/L):	1.55
pH:	7.16
TDS:	0.163
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge (cfs):	

WATER SAMPLES
Samples Taken (# of Containers Filled) Method = Water_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHLAHO-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XHLAHO-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XHLAHO-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHLAHO-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
535XHLAHO-GR	Paraquat	1-L Plastic	1	
535XHLAHO-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XHLAHO-GR	Dissolved Metals, hardness (as CaCO3) **FILTERED**	500-mL Plastic (w/HNO3)	1	
535XHLAHO-GR	Glyphosate	40-mL Glass Amber vial	2	
535XHLAHO-GR	E. coli	100-mL Polyethylene	1	
535XHLAHO-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

SEDIMENT SAMPLES
Samples Taken (# of Containers Filled) Method = Sed_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHLAHO-IN	Sediment Toxicity Test: Acute *Hyalella azteca*	1-L Widemouth Glass	2	
535XHLAHO-IN	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	3	
535XHLAHO-IN2	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	1	
535XHLAHO-IN	Sediment Total Residue: % Solids	8 oz Widemouth Polyethylene	1	
535XHLAHO-IN	Sediment TOC	8 oz Widemouth Polyethylene	1	
535XHLAHO-IN	Sediment Grain Size	8 oz Widemouth Polyethylene	1	

Discharge not measured - flow too low to measure

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 4/22/09 double checker: FW 4/23/09

Station Name: **Deadman Creek @ Gurr Rd**
StationID: **535XDCAGR**
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 1 2009
Personnel: J. Katz, S. Henderson

DATE (mm/dd/yyyy): 04/21/09
PurposeFailure: None
Purpose (Circle all that apply): WaterChem FieldMeasure SedChem WaterTox Habitat SedTox

Arrival Time: 11:43
SAMPLE TIME: 12:00
Departure Time: 12:59

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft /m): 7.0
WATER DEPTH (ft /m): 0.82
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.1936	-120.5612
*Actual:	37.19494	-120.56135
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 15

WATER SAMPLES

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

SEDIMENT SAMPLES

Lab Chem/Tox Method=Sed_Grab Position in Water Column: Not Applicable Depth: 2 cm

SAMPLE TYPE: Grab, Integrated
DEVICE: Scoop: Metal, MLJ-LLC Ekman, Other

ALL SAMPLES

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: E, W
PICTURE NAME: 2CAGR_IRR|NM_042|09 -E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other
SEDIMENT COLOR: Brown, Black, Grey
SEDIMENT ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SEDIMENT COMPOSITION: Cobble, Gravel, Hard Pan Clay, Silt/Clay, Sand, Unknown, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	28.52
Water Temp (Celsius):	22.62
SC (uS/cm):	281
DO (mg/L):	7.05
pH:	7.89
TDS:	0.183
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge (cfs):	0.99

WATER SAMPLES

Samples Taken (# of Containers Filled) Method = Water_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAGR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XDCAGR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDCAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAGR-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
535XDCAGR-GR	Paraquat	1-L Plastic	1	
535XDCAGR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XDCAGR-GR	Dissolved Metals, hardness (as CaCO3) **FILTERED**	500-mL Plastic (w/HNO3)	1	
535XDCAGR-GR	Glyphosate	40-mL Glass Amber vial	2	
535XDCAGR-GR	E. coli	100-mL Polyethylene	1	
535XDCAGR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	

SEDIMENT SAMPLES

Samples Taken (# of Containers Filled) Method = Sed_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAGR-IN	Sediment Toxicity Test: Acute *Hyalella azteca*	1-L Widemouth Glass	2	
535XDCAGR-IN	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	3	
535XDCAGR-IN2	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	1	
535XDCAGR-IN	Sediment Total Residue: % Solids	8 oz Widemouth Polyethylene	1	
535XDCAGR-IN	Sediment TOC	8 oz Widemouth Polyethylene	1	
535XDCAGR-IN	Sediment Grain Size	9 oz Widemouth Polyethylene	1	

MLJ LLC Discharge Field Sheet

Sampler: J. Katz
Date: 4/21/09
Site ID: 532XDEAGR
Site Name: Deadman Creek @ Guer Rd.

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.16		0.2 or 0.6		30 sec
			0.8 only		
2	2.32		0.2 or 0.6		
			0.8 only		
3	3.48		0.2 or 0.6		
			0.8 only		
4	4.46		0.2 or 0.6		
			0.8 only		
5	5.80		0.2 or 0.6		
			0.8 only		
6	1.46	1.9	0.2 or 0.6	0.04	30 sec
			0.8 only		
7	2.52	2.4	0.2 or 0.6	0.00	
			0.8 only		
8	3.68	2.7	0.2 or 0.6	0.01	
			0.8 only	0.02	
9	4.74	2.7	0.2 or 0.6	0.06	
			0.8 only	0.00	
10	5.90	1.6	0.2 or 0.6	0.04	
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW): 0.3
Right Edge Water (REW): 7.3
Start Time (24 hr):
End Time (24 hr):
Discharge (cfs): 0.99

Discharge calculated by (date and initials): GH 4/22/09

Double checked by (date and initials): FW 4/22/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

1.16
1.16
2.32
1.16
3.48
1.16
4.64
1.16
5.80

1.46
1.16
2.52
1.16
3.68
1.16
4.74
1.16
5.90

1.16
6 | 7.0
6
10
6
40
36
4

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): AFL 4/29/09 SH

double checker: FW 4/23/09

Station Name: Mootz Drain @ Langworth Rd
StationID: 535XMDALR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 1 2009
Personnel: F. Wulff, K. Callinan

DATE (mm/dd/yyyy): 4/21/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem, FieldMeasure, SedChem, WaterTox, Habitat, SedTox

Arrival Time: 08:16
SAMPLE TIME: 09:00
Departure Time: 10:52

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA DS US

Geometry Data

	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.70582	-120.89303
*Actual:	37.70522	-120.89410
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 20

WATER SAMPLES
Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m
SAMPLE TYPE: Grab, Integrated
DEVICE: Inlet bottle by hand, By pole, UCD 3L PTFE, Other

SEDIMENT SAMPLES
Lab Chem/Tox Method=Sed_Grab Position in Water Column: Not Applicable Depth: 2 cm
SAMPLE TYPE: Grab, Integrated FC
DEVICE: Scoop, Metal, MLJ-LLC Ekman, Other

ALL SAMPLES
Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other Pesticides / Herbicides
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → NW N E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: MDALR_IRR_NM_042109_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other
SEDIMENT COLOR: Brown, Black, Grey
SEDIMENT ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SEDIMENT COMPOSITION: Cobble, Gravel, Hard Pan Clay, Silt/Clay, Sand, Unknown, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	24.18
Water Temp (Celsius):	18.56
SC (uS/cm):	173
DO (mg/L):	3.14
pH:	6.89
TDS:	0.113
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge (cfs):	

WATER SAMPLES
Samples Taken (# of Containers Filled) Method = Water_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR	Total Kjehldahl Nitrogen, Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	2	
535XMDALR-GR	TOC	40-mL Glass Amber vial, set of 3	3	
535XMDALR-GR	Carbamates, OCs, OPs, Herbicides, Group A Pesticides	1-L Amber Glass	5	
535XMDALR-GR	Paraquat	1-L Plastic	1	
535XMDALR-GR	Total Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	
535XMDALR-GR	Dissolved Metals, hardness (as CaCO3) **FILTERED**	500-mL Plastic (w/HNO3)	2	
535XMDALR-GR	Glyphosate	40-mL Glass Amber vial	5	
535XMDALR-GR	E. coli	100-mL Polyethylene	1	
535XMDALR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	2	

SEDIMENT SAMPLES
Samples Taken (# of Containers Filled) Method = Sed_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMDALR-IN	Sediment Toxicity Test: Acute *Hyalella azteca*	1-L Widemouth Glass	2	
535XMDALR-IN	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	3	
535XMDALR-IN2	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	1	
535XMDALR-IN	Sediment Total Residue: % Solids	8 oz Widemouth Polyethylene	1	
535XMDALR-IN	Sediment TOC	8 oz Widemouth Polyethylene	3	
535XMDALR-IN	Sediment Grain Size	9 oz Widemouth Polyethylene	1	

QC Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR2	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR2	Total Kjehldahl Nitorgen, Total Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-FB	Total Kjehldahl Nitorgen, Total Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-GR2	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-FB	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-GR2	Pesticides	1-L Amber Glass	5	
535XMDALR-FB	Pesticides	1-L Amber Glass	5	
535XMDALR-MS	Pesticides	1-G Amber Glass	3	
535XMDALR-GR2	Paraquat	1-L Plastic	1	
535XMDALR-FB	Paraquat	1-L Plastic	1	
535XMDALR-MS	Paraquat	1-L Plastic	1	
535XMDALR-GR2	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-GR2	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-TB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-EB	Dissolved Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-GR2	Glyphosate	40-mL Glass vial	2	
535XMDALR-FB	Glyphosate	40-mL Glass vial	2	
535XMDALR-FB	E. coli	100-mL Polyethylene	1	
535XMDALR-GR2	E. coli	260-mL Polyethylene	1	
535XMDALR-GR2	~~TSS~~, Turbidity, TDS, ~~BOD~~, Nitrate ~~(as NO3)~~, Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
535XMDALR-FB	~~TSS~~, Turbidity, TDS, ~~BOD~~, Nitrate ~~(as NO3)~~, Nitrite (as N), Soluble Orthophosphate (as P)	2-L Plastic Jug	1	
535XMDALR-IN2	Sediment Toxicity Test: Acute Hyalella azteca	1-L Widemouth Glass	2	
535XMDALR-IN2	Sediment Total Residue: % Solids	8 oz Widemouth Polyethylene	1	
535XMDALR-IN2	Sediment TOC	8 oz Widemouth Polyethylene	1	
535XMDALR-IN2	Sediment Grain Size	9 oz Widemouth Polyethylene	1	

MLJ LLC Discharge Field Sheet

Sampler: _____

Date: _____

Site ID: _____

Site Name: _____

Method: wading / bridge

Meter: MMB / other

Meter Units: ft/s m/s

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____

Water Depth (H): _____

Top of Sediment to Top of Culvert (S): _____

Sed. Depth (D-S): _____

Velocity @ 0.2H: _____

Velocity @ 0.6H: _____

Velocity @ 0.8H: _____

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.8		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): _____

Discharge calculated by (date and initials):

_____

Double checked by (date and initials):

_____

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

East San Joaquin Water Quality Coalition

Irrigation 2 NM & Management Plan Sampling Field Sheets

2009 May 19

Adminsitrative Record
Page 17494

Meter Calibration Log

Team 1

Team 1 members: F. Wulff, S. Henderson
Primary multiparameter meter ID: YSI #2
Backup multiparameter meter ID: YSI #1
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07A189AF
Serial number: 07A189AE
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.02	4.02	4.00	4.00	5/18/09	SH
pH 7	6.96	7.02	7.00	7.01	5/18/09	SH
pH 10	10.03	10.04	10.01	10.00	5/18/09	SH
1413 µS/cm	1401	1415	1413	1413	5/18/09	SH
pH 4	3.99	4.02	4.00	4.00	5/20/09	JK
pH 7	7.04	6.95	7.00	7.00	5/20/09	JK
pH 10	9.98	10.11	10.00	10.02	5/20/09	JK
1413 µS/cm	1413	1407	1413	1413	5/20/09	JK

Team 2

Team 2 members: J. Kate, K. Callinan
Primary multiparameter meter ID: YSI #4
Backup multiparameter meter ID: YSI #3
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07K101586
Serial number: 07K101587
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.01	4.03	4.00	4.00	5/18/09	SH
pH 7	6.95	6.99	7.00	7.00	5/18/09	SH
pH 10	10.02	10.00	10.01	10.00	5/18/09	SH
1413 µS/cm	1413	1412	1413	1413	5/18/09	SH
pH 4	4.04	3.99	4.00	4.00	5/20/09	JK
pH 7	7.05	7.01	7.00	7.00	5/20/09	JK
pH 10	10.07	10.01	10.01	10.00	5/20/09	JK
1413 µS/cm	1409	1407	1413	1413	5/20/09	JK

Adminsitrative Record
Page 17495

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): 4/5/2009 double checker: FW 05/21/09 Pg of Pgs

Station Name: Mootz Drain @ Langworth Rd
StationID: 535XMDALR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 2 2009
Personnel: J. Katz, K. Callinan

DATE (mm/dd/yyyy): 5/19/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 8:18
SAMPLE TIME: 9:00
Departure Time: 11:06

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA DS US

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.70582	-120.89303
*Actual:	37.70532	-120.89410
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 21

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N, W, E, S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1 NW, 1SW, 1E, 1W, ~~1 mark 2~~ **PICTURE NAME:** MDALR_IRR2NM_051909_NW,SW,E,W, ~~mark1, mark2, mark3~~
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other tadpoles & bull frogs

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	21.06
Water Temp (Celsius):	19.29
SC (uS/cm):	176
DO (mg/L):	4.59
pH:	7.32
TDS:	0.115
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	3.42

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR	Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	2	
535XMDALR-GR	TOC	40-mL Glass Amber vial, set of 3	3	
535XMDALR-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XMDALR-GR	Total Metals, ~~hardness (as CaCO3)~~	500-mL Plastic (w/HNO3)	2	
535XMDALR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	Filtered sample
535XMDALR-GR	E. coli	100-mL Polyethylene	1	
535XMDALR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N)	2-L Plastic Jug	2	

QC Site: See reverse for list of samples to collect

* Discharge taken downstream from sample site below grade control

QC Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR2	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR2	Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-FB	Total & Unionized Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-GR2	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-FB	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-GR2	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-GR2	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-TB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-EB	Dissolved Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	E. coli	100-mL Polyethylene	1	
535XMDALR-GR2	E. coli	260-mL Polyethylene	1	
535XMDALR-GR2	Turbidity, TDS, TSS, Nitrate + Nitrite (as N)	2-L Plastic Jug	1	
535XMDALR-FB	Turbidity, TDS, TSS, Nitrate + Nitrite (as N)	2-L Plastic Jug	1	
535XMDALR-GR2	Pesticides	1-L Amber Glass	5	
535XMDALR-FB	Pesticides	1-L Amber Glass	5	
535XMDALR-MS	Pesticides	1-G Amber Glass	3	

MLJ LLC Discharge Field Sheet

Sampler: _____

Date: _____

Site ID: _____

Site Name: _____

Method: wading / bridge

Meter: MMB / other

Meter Units: ft/s m/s

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): 3.0 ft.

Water Depth (H): 2.0 ft

Top of Sediment to Top of Culvert (S): 3.0 ft

Sed. Depth (D-S): 0.0

Velocity @ 0.2H: 0.74 ft/s

Velocity @ 0.6H: 0.74 ft/s

Veloc. @ 0.8H 0.46 ft/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.8		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): 3.42

Discharge calculated by (date and initials):

FV 05/20/09

Double checked by (date and initials):

SH 5/20/09

If depth is greater than 0.76 m (2.5 ft):

sample at 0.2 and 0.8 below water surface

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): ~~SH 5/20/09~~ double checker: FW 05/21/09 Pg of Pgs

Station Name: Dry Creek @ Wellsford Rd
StationID: 535XDCAWR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 2 2009
Personnel: J. Katz, K. Callinan

DATE (mm/dd/yyyy): 5/19/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 11:14
SAMPLE TIME: 11:30
Departure Time: 11:56

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 7.4 **WATER DEPTH (ft / m):** 0.40
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: E, W **PICTURE NAME:** DCAWR_IRR2NM_051909_E, W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.6602	-120.8743
*Actual:	37.660556	-120.87548
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 15

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	24.77
Water Temp (Celsius):	23.81
SC (uS/cm):	132
DO (mg/L):	6.24
pH:	7.42
TDS:	0.086
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	17.90

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAWR-GR	Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDCAWR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAWR-GR	E. coli	100-mL Polyethylene	1	
535XDCAWR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N)	2-L Plastic Jug	1	

Administrative Record
Page 17498

MLJ LLC Discharge Field Sheet

Sampler: J. Katz.
Date: 5/19/09
Site ID: 535XDCAWR
Site Name: Dry Creek @ Wellsford Rd

Method: wading / bridge
Meter: AMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.6	0.8	0.2 or 0.6	0.62	30s
			0.8 only		
2	2.8	1.3	0.2 or 0.6	0.75	
			0.8 only		
3	4.0	1.3	0.2 or 0.6	1.17	
			0.8 only		
4	5.2	1.0	0.2 or 0.6	0.75	
			0.8 only		
5	6.4	0.55	0.2 or 0.6	0.58	↓
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0.4 m
Right Edge Water (REW) 7.8 m
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 17.90

Discharge calculated by (date and initials):
FW 5/20/09

Double checked by (date and initials):
JH 5/20/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 5/20/09 double checker: FW 05/21/09 Pg of Pgs

Station Name: Lateral 2 ½ Near Keyes Rd
StationID: 535LTHNKR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 2 2009
Personnel: J. Katz, K. Callinan

DATE (mm/dd/yyyy): 5/19/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 12:30
SAMPLE TIME: 13:00
Departure Time: 13:32

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 2.35 WATER DEPTH (ft / m): 0.46
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other Dairy
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W, 1N
PICTURE NAME: LTHNKR_1RR2NM_051909_E,W,N
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.5478	-121.09274
*Actual:	37.54780	-121.08486
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 22

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	28.16
Water Temp (Celsius):	23.83
SC (uS/cm):	363
DO (mg/L):	10.55
pH:	7.96
TDS:	0.236
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	5.07

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535LTHNKR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535LTHNKR-GR	Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535LTHNKR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535LTHNKR-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535LTHNKR-GR	Total Metals, ~~hardness (as CaCO3)~~	500-mL Plastic (w/HNO3)	1	
535LTHNKR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535LTHNKR-GR	E. coli	100-mL Polyethylene	1	
535LTHNKR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N)	2-L Plastic Jug	1	

MLJ LLC Discharge Field Sheet

Sampler: J. Katz
Date: 5/19/09
Site ID: 535LTHNKR
Site Name: Lateral 2½ near Keyes Rd.

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.6	0.7	0.2 or 0.6	0.91	30 s
			0.8 only		
2	2.0	1.5	0.2 or 0.6	0.76	
			0.8 only		
3	2.5	1.5	0.2 or 0.6	0.22	
			0.8 only		
4	3.0	1.5	0.2 or 0.6	0.73	
			0.8 only		
5	3.3	0.7	0.2 or 0.6	0.90	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW): 1.25
Right Edge Water (REW): 3.6
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 5.07

Discharge calculated by (date and initials):
FW 05/20/09

Double checked by (date and initials):
JH 5/20/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 5/19/09 double checker: FW 05/21/09 Pg of Pgs

Station Name: Prairie Flower Drain @ Crows Landing Rd
StationID: 535XPFDCL
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 2 2009
Personnel: J. Icatz, K. Caltinar

DATE (mm/dd/yyyy): 5/19/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 13:53
SAMPLE TIME: 14:20
Departure Time: 14:27

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4422	-121.0024
*Actual:	37.44186	-121.00340
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 16

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other Dairy
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E
PICTURE NAME: DFT_CL_IRR2AM_051909_E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	30.41
Water Temp (Celsius):	28.90
SC (uS/cm):	2066
DO (mg/L):	4.78
pH:	7.65
TDS:	1343
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	0.50

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XPFDCL-GR	Tox tests: Chronic Selenastrum	1-Gal Amber Glass	3	May Management Plan Sample
535XPFDCL-GR	Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XPFDCL-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XPFDCL-GR	E. coli	100-mL Polyethylene	1	
535XPFDCL-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N)	2-L Plastic Jug	1	

Adminsitrative Record
Page 17502

MLJ LLC Discharge Field Sheet

Sampler: J. Katz
Date: 5/19/09
Site ID: 535XPFDCL
Site Name: Prairie Flowers Drain @ Crows Landing Rd.

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): 0.50

Discharge calculated by (date and initials):
FW 05/20/09

Double checked by (date and initials):
SH 5/20/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): 2.5
Water Depth (H): 2.3
Top of Sediment to Top of Culvert (S): 2.3
Sed. Depth (D-S): 0.2
Velocity @ 0.2H: 0.09
Velocity @ 0.6H: 0.11
Velocity @ 0.8H: 0.12

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): JH 5/20/09 double checker: FV 05/21/09 Pg of Pgs

Station Name: Merced River @ Santa Fe
StationID: 535XMRSFD
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 2 2009
Personnel: J. KATZ, KRISTA CALLINAN

DATE (mm/dd/yyyy): 5/19/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 15:12
SAMPLE TIME: 15:30
Departure Time: 16:04

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA (above bend)

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4271	-120.6721
*Actual:	37.42487	-120.67271
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft) / m): 30

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: MRSFD_100ZNM_05AY09_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	30.25
Water Temp (Celsius):	24.78
SC (uS/cm):	55
DO (mg/L):	8.81
pH:	7.70
TDS:	0.036
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	208

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMRSFD-GR	Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMRSFD-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMRSFD-GR	Organophosphates, Organochlorines	1-L Amber Glass	4	
535XMRSFD-GR	Total Metals, ~~hardness (as CaCO3)~~	500-mL Plastic (w/HNO3)	1	
535XMRSFD-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMRSFD-GR	E. coli	100-mL Polyethylene	1	
535XMRSFD-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N)	2-L Plastic Jug	1	

Retrieve discharge information from CDEC

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): 5/21/09 double checker: FW 05/21/09 Pg of Pgs

Station Name: Mustang Creek @ East Ave
StationID: 535XMCAEA
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 2 2009
Personnel: J. KATZ, K. CALLINAN

DATE (mm/dd/yyyy): 05/19/09
PurposeFailure: DRY Site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 16:14
SAMPLE TIME: —
Departure Time: 16:21

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4918	-120.6839
*Actual:	37.49160	-120.68518
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft) m): 19

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other DAIRY
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 2S
PICTURE NAME: MLAEA-100ZNM_05190_E,S1,S2
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMCAEA-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMCAEA-GR	Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMCAEA-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMCAEA-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XMCAEA-GR	Total Metals, [redacted]	500-mL Plastic (w/HNO3)	1	
535XMCAEA-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMCAEA-GR	E. coli	100-mL Polyethylene	1	
535XMCAEA-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N)	2-L Plastic Jug	1	

site dry, no sample collected

Administrative Record
Page 17505

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): [illegible] double checker: FW 05/21/09 Pg of Pgs

Station Name: Duck Slough @ Hwy 99
StationID: 535XDSAHN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 2 2009
Personnel: F. Wolff, S. Henderson

DATE (mm/dd/yyyy): 05/19/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 08:41
SAMPLE TIME: 09:00
Departure Time: 09:10

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, (Near Bank) Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in) Bridge, Other
STARTING BANK: (LB) / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: (None) Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / (NA)

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: (Indiv bottle by hand) By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None) Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud) Bnk., Other
WATER CLARITY: Clear (see bottom) (Cloudy (>4" vis)) Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm) Light Breeze, Gusty
WATERCOLOR: (Colorless) Green, Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, (20 - 50 cfs) 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right (NW) → (N, W, E, S)
SKY CODE: (Clear), (Partly Cloudy), Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: DSAHN_1KRZMPM_05P09_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, (None), Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2501	-120.4100
*Actual:	37.25027	-120.40947
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 43

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	19.62
Water Temp (Celsius):	19.15
SC (uS/cm):	57
DO (mg/L):	8.44
pH:	7.52
TDS:	0.037
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	~~-88~~

Samples Taken (# of Containers Filled) Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDSAHN-GR	Organophosphates: Chlorpyrifos only	1-L Amber Glass	2	Management Plan Sample

May Management Plan Monitoring
Measure Field Results
~~Discharge not measured due to toxicity monitoring only~~

too deep too wide, discharge not taken

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) 5/15/2009 double checker: FW 05/21/09 Pg of Pgs

Station Name: Cottonwood Creek @ Rd 20
StationID: 545XCCART
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 2 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 05/19/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 09:36
SAMPLE TIME: 09:10
Departure Time: 10:29

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 2.65
WATER DEPTH (ft / m): 0.43
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	36.8686	-120.1818
*Actual:	36.86859	-120.18225
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 21

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 2W
PICTURE NAME: CCART_1RR2NM_05P09_E1W1W2
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	24.25
Water Temp (Celsius):	23.02
SC (uS/cm):	54
DO (mg/L):	6.72
pH:	6.84
TDS:	0.035
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	15.88

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XCCART-GR	Tox tests: Acute FH Minnow, Chronic Selenastrum	1-Gal Amber Glass	4	
545XCCART-GR	Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
545XCCART-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XCCART-GR	E. coli	100-mL Polyethylene	1	
545XCCART-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N)	2-L Plastic Jug	1	

Administrative Record
Page 17507

MLJ LLC Discharge Field Sheet

Sampler: S. Henderson
Date: 05/19/2009
Site ID: 544xCCA00
Site Name: Cottonwood Creek @ Rd 20

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	0.25		0.2 or 0.6		
			0.8 only		
2	0.44	0.[illegible]2	0.2 or 0.6	0.12	30 sec
			0.8 only		
3	0.88	1.2	0.2 or 0.6	0.93	
			0.8 only		
4	1.32	1.4	0.2 or 0.6	2.22	
			0.8 only		
5	1.76	1.2	0.2 or 0.6	3.31	
			0.8 only		
6	2.20	1.0	0.2 or 0.6	2.15	
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW): 0.25 — 0.10 @ 0.65
Right Edge Water (REW): 2.9
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 15.88

Discharge calculated by (date and initials): FW 05/20/09

Double checked by (date and initials): SH 5/20/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 5/20/09 | double checker: FW 05/21/09 | Pg ___ of ___ Pgs

Station Name: Ash Slough @ Ave 21
StationID: 545XASAAT
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 2 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 05/19/2009
PurposeFailure: ~~Dry S.Ice~~ None
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 11:08
SAMPLE TIME: 11:30
Departure Time: 12:07

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 4.1
WATER DEPTH (ft / m): 0.18
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.0545	-120.4158
*Actual:	37.05449	-120.41589
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 30

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1NW, 3NE, 2[illegible]
PICTURE NAME: ASHAT_(RR2NM_050909_E, NW, NE1, NE2, NE3, S1, S2
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	27.96
Water Temp (Celsius):	26.86
SC (uS/cm):	39
DO (mg/L):	6.[illegible] SH
pH:	7.63
TDS:	0.025
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	0.51

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XASAAT-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
545XASAAT-GR	Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
545XASAAT-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XASAAT-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
545XASAAT-GR	Total Metals, ~~hardness (as CaCO3)~~	500-mL Plastic (w/HNO3)	1	
545XASAAT-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
545XASAAT-GR	E. coli	100-mL Polyethylene	1	
545XASAAT-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N)	2-L Plastic Jug	1	

MLJ LLC Discharge Field Sheet

Sampler: F Wyatt
Date: 5/19/09
Site ID: 5ASXASAAT
Site Name: Ash Slough @ Ave 21

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) m/s

	Interval Midpoint (meters) or feet	Interval Depth meters or (feet)	Velocity		Duration
1	0.68	0.5	0.2 or 0.6	0	30 sec
			0.8 only		
2	1.36	0.5	0.2 or 0.6	0.08	↓
			0.8 only		
3	2.04	0.6	0.2 or 0.6	0.17	
			0.8 only		
4	2.72	0.4	0.2 or 0.6	0.15	
			0.8 only		
5	3.40	0.3	0.2 or 0.6	0.09	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0

Right Edge Water (REW) 4.1

Start Time (24 hr): ____

End Time (24 hr): ____

Discharge (cfs): 0.51

Discharge calculated by (date and initials):
FW 05/20/09

Double checked by (date and initials):
SH 5/20/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): ____
Water Depth (H): ____
Top of Sediment to Top of Culvert (S): ____
Sed. Depth (D-S): ____
Velocity @ 0.2H: ____
Velocity @ 0.6H: ____
Velocity @ 0.8H: ____

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 5/20/09 double checker: FW 05/21/09 Pg of Pgs

Station Name: Deadman Creek @ Gurr Rd
StationID: 535XDCAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 2 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 05/19/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 12:33
SAMPLE TIME: 12:50
Departure Time: 13:17

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 6.4 WATER DEPTH (ft / m): 0.64
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA DS

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other Manure
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W, 1SW
PICTURE NAME: ZMDR_1R2NM_051909_E,W,SW
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.1936	-120.5612
*Actual:	37.19500	-120.5613
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 18

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	29.92
Water Temp (Celsius):	25.63
SC (uS/cm):	300
DO (mg/L):	7.64
pH:	7.72
TDS:	0.195
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	6.74

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAGR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XDCAGR-GR	Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDCAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAGR-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XDCAGR-GR	Total Metals, ~~hardness (as CaCO3)~~	500-mL Plastic (w/HNO3)	1	
535XDCAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDCAGR-GR	E. coli	100-mL Polyethylene	1	
535XDCAGR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N)	2-L Plastic Jug	1	

Adminsitrative Record
Page 17511

MLJ LLC Discharge Field Sheet

Sampler: F. Wulff
Date: 5/20/09
Site ID: 535DCREEK
Site Name: Deadman Creek @ Guiler Rd

Method: (wading) / bridge
Meter: (MMB) other
Meter Units: (ft/s) m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.06	1.3	0.2 or 0.6	0.31	
			0.8 only		
2	3.2	2.0	0.2 or 0.6		
			0.8 only		
3	4.8		0.2 or 0.6		
	4		0.8 only		
4			0.2 or 0.6		
			0.8 only		
5	1.06	1.0	0.2 or 0.6	0.27	3058
			0.8 only		
6	2.12	1.9	0.2 or 0.6	0.28	
			0.8 only		
7	3.18	2.1	0.2 or 0.6	0.22	
			0.8 only		
8	4.24	1.9	0.2 or 0.6	0.24	
			0.8 only		
9	5.20	1.3	0.2 or 0.6	0.18	
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW): _____
Right Edge Water (REW): 6.40
Start Time (24 hr): _____
End Time (24 hr): _____
Discharge (cfs): 6.704

Discharge calculated by (date and initials):
FW 05/20/09

Double checked by (date and initials):
SH 5/20/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____
Water Depth (H): _____
Top of Sediment to Top of Culvert (S): _____
Sed. Depth (D-S): _____
Velocity @ 0.2H: _____
Velocity @ 0.6H: _____
Velocity @ 0.8H: _____

3.2
1.6
4.8
1.6

1.06
6 | 6.40
30

48
16
4

1.06
1.06
2.12
1.06
3.18
1.06

424
1.06
520
1.06
6216

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): 5/20/09 | double checker: FW 05/21/09 | Pg of Pgs

Station Name: Duck Slough @ Gurr Rd
StationID: 535XDSAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 2 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 05/19/09
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 13:20
SAMPLE TIME: 13:40
Departure Time: 13:56

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB) / RB/ NA
STREAM WIDTH (ft / m): 0.80
WATER DEPTH (ft / m): 0.09
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, (Grade Control), Culvert, Other (X)
HYDROMODLOC: (US) / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2142	-120.5596
*Actual:	37.21452	-120.56091
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 25

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble), Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), (Cloudy (>4" vis)), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, Green, Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, (1 - 5 cfs), 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right →

SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 2E, 1W
PICTURE NAME: DSAGR-102NM_051909_N,E1,E2,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, (Trash), None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position In Column: Subsurface

Air Temp (Celsius):	29.54
Water Temp (Celsius):	23.89
SC (uS/cm):	272
DO (mg/L):	7.03
pH:	7.84
TDS:	0.176
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	0.19

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDSAGR-GR	Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XDSAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDSAGR-GR	Organophosphates	1-L Amber Glass	3	
535XDSAGR-GR	Total Metals, ~~hardness (as CaCO3)~~	500-mL Plastic (w/HNO3)	1	
535XDSAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDSAGR-GR	E. coli	100-mL Polyethylene	1	
535XDSAGR-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N)	2-L Plastic Jug	1	

Adminsitrative Record
Page 17513

MLJ LLC Discharge Field Sheet

Sampler: F. Wiuff
Date: 5/19/09
Site ID: 535DSAGR
Site Name: Duck Slough @ Gurr Rd

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.08	0.3	0.2 or 0.6	0.68	30 sec
			0.8 only		
2	1.21	0.3	0.2 or 0.6	0.52	
			0.8 only		
3	1.34	0.3	0.2 or 0.6	0.34	
			0.8 only		
4	1.47	0.3	0.2 or 0.6	0.05	
			0.8 only		
5	1.60	0.2	0.2 or 0.6	-0.09	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW): 1.75
Right Edge Water (REW): 0.95
Start Time (24 hr):
End Time (24 hr):
Discharge (cfs): 0.19

Discharge calculated by (date and initials): FW 05/20/09

Double checked by (date and initials): GH 5/20/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

.13
0.8
20

0.95
.13
1.08

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 5/20/09 | double checker: FW 05/21/09 | Pg of Pgs

Station Name: Howard Lateral @ Hwy 140
StationID: 535XHLAHO
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 2 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 05/19/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 14:19
SAMPLE TIME: 14:40
Departure Time: 14:55

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.3079	-120.7820
*Actual:	37.30778	-120.78210
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 15

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: IN, IS, INW
PICTURE NAME: HLAHO_ke2NM_051909_N,S,NW
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	~~20~~ 20.29
Water Temp (Celsius):	23.62
SC (uS/cm):	810
DO (mg/L):	11.11
pH:	8.29
TDS:	0.526
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / NO

Samples Collected	Analyte	Container	Number	Notes
535XHLAHO-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XHLAHO-GR	Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XHLAHO-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHLAHO-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XHLAHO-GR	Total Metals, ~~hardness (as CaCO3)~~	500-mL Plastic (w/HNO3)	1	
535XHLAHO-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XHLAHO-GR	E. coli	100-mL Polyethylene	1	
535XHLAHO-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N)	2-L Plastic Jug	1	

Discharge Not taken due to no visible flow.

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date): AH 5/20/09 double checker: FW 05/21/09 Pg of Pgs

Station Name: Highline Canal @ Hwy 99
StationID: 535XHCHNN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 2 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 05/19/2009
PurposeFailure: None
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 15:28
SAMPLE TIME: 15:40
Departure Time: 15:43

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: HCHNN_122NM_051909_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4153	-120.7557
*Actual:	37.41253	-120.75941
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 34

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	29.22
Water Temp (Celsius):	24.58
SC (uS/cm):	42
DO (mg/L):	9.47
pH:	8.45
TDS:	0.027
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHCHNN-GR	Tox tests: Chronic Selenastrum	1-Gal Amber Glass	3	May Management Plan Sample
535XHCHNN-GR	Total Ammonia (as N), Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XHCHNN-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHCHNN-GR	E. coli	100-mL Polyethylene	1	
535XHCHNN-GR	Turbidity, TDS, TSS, Nitrate + Nitrite (as N)	2-L Plastic Jug	1	

Too deep to take discharge.

Administrative Record
Page 17516

Administrative Record
Page 17517

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 5/20/09 double checker: FW 05/21/09 Pg of Pgs

Station Name: Highline Canal @ Lombardy Rd
StationID: 535XHCALR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 2 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 05/19/09
PurposeFailure: None
Purpose (Circle all that apply): WaterChem (WaterTox) (Habitat) (FieldMeasure)

Arrival Time: 15:55
SAMPLE TIME: 16:00
Departure Time: 16:08

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, (Near Bank), Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB / (RB) / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: (US) / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: (Concrete), Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), (Cloudy (>4" vis)), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), (Light Breeze), Gusty
WATERCOLOR: (Colorless), (Green), Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, (20 - 50 cfs), 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1NE, 1NW, 1SE, 1SW
PICTURE NAME: HCALR_1RR2MPM_051909_NE,NW,SE,SW
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4556	-120.7207
*Actual:	37.45349	-120.72193
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 55

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	29.99
Water Temp (Celsius):	23.38
SC (uS/cm):	42
DO (mg/L):	10.27
pH:	8.10
TDS:	0.027
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	-88

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XHCALR-GR	Tox tests: Chronic Selenastrum	1-Gal Amber Glass	3	Management Plan Sample

May Management Plan Monitoring
Measure Field Results
Discharge not measured due to toxicity monitoring only

East San Joaquin Water Quality Coalition

Irrigation 3 NM & MPM
Field Sheets

2009 June 16

Adminsitrative Record
Page 17518

Meter Calibration Log

Team 1

Team 1 members: J. Katz, D. Corcoran
Primary multiparameter meter ID: YSI #3
Backup multiparameter meter ID: YSI #4
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07K101587
Serial number: 07K101586
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.00	4.07	4.00	4.00	6/15/09	S.H.
pH 7	6.97	6.91	7.00	7.00	6/15/09	S.H.
pH 10	9.99	10.02	10.00	10.01	6/15/09	S.H.
1413 µS/cm	1424	1419	1413	1413	6/15/09	S.H.
pH 4	4.02	3.96	4.00	4.00	6/17/09	J.E.K
pH 7	7.04	7.05	7.00	7.00	6/17/09	J.E.K.
pH 10	10.03	9.99	10.00	10.00	6/17/09	J.E.K
1413 µS/cm	1402	1406	1413	1413	6/17/09	J.E.K.

Team 2

Team 2 members: F. Wulff, S. Henderson
Primary multiparameter meter ID: YSI #2
Backup multiparameter meter ID: YSI #1
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07A1894AF
Serial number: 07A1894AE
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	3.99	4.05	4.00	4.01	6/15/09	S.H.
pH 7	6.97	6.98	7.00	7.00	6/15/09	S.H.
pH 10	9.99	10.03	10.00	10.01	6/15/09	S.H.
1413 µS/cm	1428	1421	1413	1413	6/15/09	S.H.
pH 4	3.99	3.98	4.00	4.00	6/17/09	J.E.K.
pH 7	7.07	7.06	7.00	7.00	6/17/09	J.E.K.
pH 10	10.00	9.99	10.00	10.29	6/17/09	J.E.K.
1413 µS/cm	1400	1402	1413	1413	6/17/09	J.E.K.

Administrative Record
Page 17519

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): JH 6/17/09 double checker: JEK 6/17/09 Pg of Pgs

Station Name: Ash Slough @ Ave 21
StationID: 545XASAAT
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 3 2009
Personnel: F. WulFF, S. Henderson

DATE (mm/dd/yyyy): 6/16/2009
PurposeFailure: Dry Site
Purpose (Circle all that apply): (WaterChem) (WaterTox) (Habitat) (FieldMeasure)

Arrival Time: 11:00
SAMPLE TIME: ——
Departure Time: 11:12

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.0545	-120.4158
*Actual:	37.05476	-120.41569
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 0 / 27

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, (Sand), Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, (Dry Waterbody Bed), No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 15, 1N
PICTURE NAME: ASAAT_Ir3NM_061609-S, N
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
545XASAAT-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
545XASAAT-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
545XASAAT-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XASAAT-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
545XASAAT-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
545XASAAT-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
545XASAAT-GR	E. coli	100-mL Polyethylene	1	
545XASAAT-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Administrative Record
Page 17520

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): AL 6/17/09 double checker: JEK 6/17/09 Pg of Pgs

Station Name: Mustang Creek @ East Ave
StationID: 535XMCAEA
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 3 2009
Personnel: J. Katz, D. Corcoran

DATE (mm/dd/yyyy): 6/16/09
PurposeFailure: DRY Site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 14:44
SAMPLE TIME: —
Departure Time: 14:55

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4918	-120.6839
*Actual:	37.49193	-120.68508
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 18

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other Manure/dairy
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1S, 1E
PICTURE NAME: MCAEA_Irr3NM_061609_N,S,E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Site Dry, No samples Collected

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMCAEA-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMCAEA-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMCAEA-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMCAEA-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XMCAEA-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMCAEA-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMCAEA-GR	E. coli	100-mL Polyethylene	1	
535XMCAEA-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) JH 6/17/09 double checker: JK 6/17/09 Pg of Pgs

Station Name: Highline Canal @ Hwy 99
StationID: 535XHCHNN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 3 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 06/16/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 14:13
SAMPLE TIME: 14:20
Departure Time: 14:26

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other DS
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 2W, 1E
PICTURE NAME: HCHNN_Hr3NM_061609_W,W2,E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4153	-120.7557
*Actual:	37.41247	-120.75941
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 16

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	30.89
Water Temp (Celsius):	21.59
SC (uS/cm):	40
DO (mg/L):	8.42
pH:	8.95
TDS:	0.026
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XHCHNN-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XHCHNN-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHCHNN-GR	E. coli	100-mL Polyethylene	1	
535XHCHNN-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Too deep to take discharge.

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): JH 6/17/09 double checker: ~~JBK~~ 6/17/09 Pg of Pgs

Station Name: Dry Creek @ Wellsford Rd
StationID: 535XDCAWR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 3 2009
Personnel: J. Katz, D. Corcoran

DATE (mm/dd/yyyy): 6/16/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem, WaterTox, Habitat, FieldMeasure

Arrival Time: 10:36
SAMPLE TIME: 10:50
Departure Time: 11:30

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB (RB) NA
STREAM WIDTH (ft / m): 3.40 WATER DEPTH (ft / m): 0.49
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US (DS) / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.6602	-120.8743
*Actual:	37.66062	-120.875349
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft) m): 24

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, (Sand), Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), (Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, ~~1W, 1S~~ ~~1SW~~ 1W, 1S
PICTURE NAME: DCAWR_Irr3NM_061609_E, ~~S~~W, S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, (Trash), None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	22.52
Water Temp (Celsius):	20.26
SC (uS/cm):	110
DO (mg/L):	7.73
pH:	7.35
TDS:	0.072
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	44.19

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDCAWR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDCAWR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAWR-GR	E. coli	100-mL Polyethylene	1	
535XDCAWR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

1.4
6 | 8.4

7.6
1.4
6.2

MLJ LLC Discharge Field Sheet

Sampler: D. Corcoran
Date: 6/16/09
Site ID: 535x DCAWR
Site Name: Dry Creek @ Wellsford Rd

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s / m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.4	1.3	0.2 or 0.6	0.25	
			0.8 only		
2	2.8	1.6	0.2 or 0.6	1.45	
			0.8 only		
3	4.2	1.6	0.2 or 0.6	1.85	
			0.8 only		
4	5.6	1.6	0.2 or 0.6	1.59	
			0.8 only		
5	~~7~~.0	~~1.8~~ 1.3	0.2 or 0.6	~~0.96~~	
			0.8 only	0.89	
6	8.0	0.8	0.2 or 0.6	0.96	
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0.60
Right Edge Water (REW) 9.00
Start Time (24 hr):
End Time (24 hr):
Discharge (cfs): 44.19

Discharge calculated by (date and initials):
SH 6/17/09

Double checked by (date and initials):
~~SH~~ 6/17/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): JH 6/17/09 Double checker: ~~EK~~ 6/17/09 Pg of Pgs

Station Name: Duck Slough @ Gurr Rd
StationID: 535XDSAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 3 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 06/16/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 12:23
SAMPLE TIME: 12:30
Departure Time: 12:45

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 0.9 WATER DEPTH (ft / m): 0.11
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1N, 1N
PICTURE NAME: DSAGR_Ir3NM_061609_E, W, N
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2142	-120.5596
*Actual:	37.21416	-120.56091
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 0 20

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	24.48
Water Temp (Celsius):	21.87
SC (uS/cm):	144
DO (mg/L):	9.70
pH:	8.25
TDS:	0.094
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	0.49

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDSAGR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDSAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDSAGR-GR	E. coli	100-mL Polyethylene	1	
535XDSAGR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XDSAGR-GR	Carbamates: Carbofuran	1-L Amber Glass	2	

Flow 80% Dean drain 10% Duck slough

Administrative Record
Page 17525

MLJ LLC Discharge Field Sheet

Sampler: F. Wulff
Date: 6/16/09
Site ID: 335 DSHER
Site Name: Duck Slough @ Curr Rd

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) / m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	0.15	0.25	0.2 or 0.6	0.82	30 sec
			0.8 only		
2	0.30	0.30	0.2 or 0.6	0.47	
			0.8 only		
3	0.45	0.30	0.2 or 0.6	0.72	
			0.8 only		
4	0.60	0.35	0.2 or 0.6	1.13	
			0.8 only		
5	0.75	0.20	0.2 or 0.6	1.15	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW): 0.0
Right Edge Water (REW): 0.9
Start Time (24 hr):
End Time (24 hr):
Discharge (cfs): 0.49

Discharge calculated by (date and initials):
SH 6/17/09

Double checked by (date and initials):
[illegible] 6/17/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

0.15
6)0.90
6
30

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 6/17/09 double checker: ~~SK~~ 6/17/09 Pg of Pgs

Station Name: Deadman Creek @ Gurr Rd
StationID: 535XDCAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 3 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 6/16/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 11:29
SAMPLE TIME: 11:50
Departure Time: 12:20

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB/RB/NA LB SH
STREAM WIDTH (ft / m): 7.70 WATER DEPTH (ft / m): 0.98
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.1936	-120.5612
*Actual:	37.19501	-120.56141
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 39

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 3E, 1W, 1S
PICTURE NAME: DCAGR_lr3NM_061609_E1, E2, E3, W, S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	26.04
Water Temp (Celsius):	21.64
SC (uS/cm):	254
DO (mg/L):	8.21
pH:	7.75
TDS:	0.165
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	5.40

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAGR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XDCAGR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDCAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAGR-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XDCAGR-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XDCAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDCAGR-GR	E. coli	100-mL Polyethylene	1	
535XDCAGR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

MLJ LLC Discharge Field Sheet

Sampler: F. Wulff
Date: 6/16/09
Site ID: 535XDCAGR
Site Name: Deadman Creek @ Gurr Rd.

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) m/s

	Interval Midpoint (meters) or feet	Interval Depth meters or (feet)	Velocity		Duration
1	1.2	2.0	0.2 or 0.6	0.07	30 sec
			0.8 only		
2	2.4	2.5	0.2 or 0.6	0.28	
			0.8 only	0.13	
3	3.6	3.2	0.2 or 0.6	0.12	
			0.8 only	0.06	
4	4.8	2.4	0.2 or 0.6	0.13	
			0.8 only		
5	6.0	1.5	0.2 or 0.6	0.14	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0
Right Edge Water (REW) 7.3
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 5.40

Discharge calculated by (date and initials):
SH 6/17/09

Double checked by (date and initials):
[illegible] 6/17/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

1
@ 7.3
0
13

flow E → W

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 6/17/09 double checker: [illegible] 6/17/09 Pg of Pgs

Station Name: Cottonwood Creek @ Rd 20
StationID: 545XCCART
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 3 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 6/16/2009
PurposeFailure: None
Purpose (Circle all that apply): (WaterChem) (WaterTox) (Habitat) (FieldMeasure)

Arrival Time: 9:55
SAMPLE TIME: 10:20
Departure Time: 10:27

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, (Thalweg), Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB), RB/ NA
STREAM WIDTH (ft / m): 1.0
WATER DEPTH (ft / m): 0.18
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US, (DS), NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble), (Gravel), Sand, (Mud), Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: (Colorless), Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, (FV), 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1NW, 1SE
PICTURE NAME: CCART_lr3NM_061609_NW, SE
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, (Trash), None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	36.8686	-120.1818
*Actual:	36.86862	-120.18283
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 0 / 20

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	22.34
Water Temp (Celsius):	20.69
SC (uS/cm):	117
DO (mg/L):	7.13
pH:	7.45
TDS:	0.076
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	0.51

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
545XCCART-GR	Tox tests: Acute FH Minnow, Chronic Selenastrum	1-Gal Amber Glass	4	
545XCCART-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
545XCCART-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XCCART-GR	E. coli	100-mL Polyethylene	1	
545XCCART-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
545XCCART-GR	Herbicides: Simazine, Cyanizine	1-L Amber Glass	2	

MLJ LLC Discharge Field Sheet

Sampler: F. Wulff
Date: 6/16/09
Site ID: 345 XCCART
Site Name: COTTONWOOD CREEK @ Rd 20

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity SH		Duration
1	0.16	0.3	0.2 or 0.6	0.00	30sec
			0.8 only		
2	0.32	0.4	0.2 or 0.6	0.16	
			0.8 only		
3	0.48	0.5	0.2 or 0.6	0.45	
			0.8 only		
4	0.64	0.5	0.2 or 0.6	0.76	
			0.8 only		
5	0.80	0.6	0.2 or 0.6	0.45	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW): 1.0
Right Edge Water (REW): 0.0
Start Time (24 hr):
End Time (24 hr):
Discharge (cfs): 0.51

Discharge calculated by (date and initials):
SH 6/17/09

Double checked by (date and initials):
~~BK~~ 6/17/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

0.16
0.6 1.0
0.6
0.4

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 6/17/09 Double checker: JEK 6/17/09 Pg of Pgs

Station Name: Howard Lateral @ Hwy 140
StationID: 535XHLAHO
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 3 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 06/16/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 13:08
SAMPLE TIME: 13:30
Departure Time: 13:50

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 4.80 **WATER DEPTH (ft / m):** 0.98
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.3079	-120.7820
*Actual:	37.308806	-120.78194
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 15

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N, W, E, S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1S, 1W **PICTURE NAME:** HLAHO_Ir3NM_061609_N, S, W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	28.06
Water Temp (Celsius):	24.23
SC (uS/cm):	214
DO (mg/L):	10.35
pH:	8.49
TDS:	0.139
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	5.93

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHLAHO-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XHLAHO-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XHLAHO-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHLAHO-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XHLAHO-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XHLAHO-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XHLAHO-GR	E. coli	100-mL Polyethylene	1	
535XHLAHO-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

MLJ LLC Discharge Field Sheet

Sampler: F. Wulff
Date: 6/16/09
Site ID: 335X HLAND
Site Name: Howard Lateral @ Hwy 140

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	0.8	1.10	0.2 or 0.6	0.04	30 sec
			0.8 only		
2	1.6	1.90	0.2 or 0.6	0.15	
			0.8 only		
3	2.4	2.8	0.2 or 0.6	0.09	
			0.8 only		
4	3.2	3.20	0.2 or 0.6	0.21	
			0.8 only	0.15	
5	4.0	3.00	0.2 or 0.6	0.34	
			0.8 only	0.13	
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 4.8
Right Edge Water (REW) 0.0
Start Time (24 hr):
End Time (24 hr):
Discharge (cfs): 5.93

Discharge calculated by (date and initials): SH 6/16/09
Double checked by (date and initials): [illegible] 6/17/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

08
6 4.8

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): 7/16/09 double checker: 6/17/09 Pg of Pgs

Station Name: Duck Slough @ Hwy 99
StationID: 535XDSAHN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 3 2009 MPM
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 6/16/09
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 8:40
SAMPLE TIME: 09:00
Departure Time: 09:10

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, (Near Bank), Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB), RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US, (DS), NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud), Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), (Murky (<4" vis))
WADEABLE: (YES), NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, (Green), Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, (5 - 20 cfs), (20 - 50 cfs), 50 - 200 cfs, >200cfs (FU)
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W, 1S
PICTURE NAME: DSAHN_Irr3MPM_061609_E, W, S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, (None), Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2501	-120.4100
*Actual:	37.25101	-120.40906
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 33

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	20.52
Water Temp (Celsius):	18.27
SC (uS/cm):	46
DO (mg/L):	6.78
pH:	7.47
TDS:	0.030
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDSAHN-GR	Total Metals : Copper only	500-mL Plastic (w/HNO3)	1	Management Plan Sample
535XDSAHN-GR	Dissolved Metals, hardness (as CaCO3):**FILTERED** Copper only	500-mL Plastic (w/HNO3)	1	Management Plan Sample

June Management Plan Monitoring
Measure Field Results

Too deep to take discharge.

Administrative Record
Page 17533

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 6/17/09 double checker: JEK 6/17/09 Pg of Pgs

Station Name: Merced River @ Santa Fe
StationID: 535XMRSFD
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 3 2009
Personnel: J. Katz, D. Corcoran

DATE (mm/dd/yyyy): 6/16/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 14:30
SAMPLE TIME: 14:40
Departure Time: 15:00

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4271	-120.6721
*Actual:	37.4247	-120.6728
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 52 / 17

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right XX →
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1W
PICTURE NAME: MRSFD_Irr3NM_061609_N, W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	30.43
Water Temp (Celsius):	22.23
SC (uS/cm):	46
DO (mg/L):	9.31
pH:	7.35
TDS:	0.030
YSI Meter ID:	B
Stage:	
Calculated Site Discharge:	211

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

	Samples Collected	Analyte	Container	Number	Notes
X	535XMRSFD-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
X	535XMRSFD-GR	TOC	40-mL Glass Amber vial, set of 3	1	
X	535XMRSFD-GR	Total Metals: Copper only	500-mL Plastic (w/HNO3)	1	
	535XMRSFD-GR	Dissolved Metals, hardness (as CaCO3): Copper only	500-mL Plastic (w/HNO3)	1	Filtered sample
X	535XMRSFD-GR	E. coli	100-mL Polyethylene	1	
X	535XMRSFD-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Retrieve discharge information from CDEC

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 6/17/09 double checker: [illegible] 6/17/09 Pg of Pgs

Station Name: Prairie Flower Drain @ Crows Landing Rd
StationID: 535XPFDCL
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 3 2009
Personnel: J. Kate, D. Corcoran

DATE (mm/dd/yyyy): 6/16/09
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 13:25
SAMPLE TIME: 13:40
Departure Time: 13:51

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, (Near Bank), Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB / (RB) / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, (Culvert), Other
HYDROMODLOC: US / (DS) / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4422	-121.0024
*Actual:	37.4418	- 121.00938
Difference:		

GPS Model: (MLJ-LLC Garmin eTrex)
Datum: (NAD 83)
Accuracy (ft / m): 19

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud), Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, (Green), (Yellow), (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, (1 - 5 cfs), 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right XX →
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E,1W
PICTURE NAME: PFDCL_IR3 NM_061609_E, W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), (Nonvascular), (OilySheen), (Foam), (Trash), (None), Other

N / W / E / S

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	27.37
Water Temp (Celsius):	26.70
SC (uS/cm):	2417
DO (mg/L):	14.90
pH:	7.96
TDS:	1.571
YSI Meter ID:	B
Stage:	
Calculated Site Discharge:	0.61

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
X 535XPFDCL-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
X 535XPFDCL-GR	TOC	40-mL Glass Amber vial, set of 3	1	
X 535XPFDCL-GR	E. coli	100-mL Polyethylene	1	
X 535XPFDCL-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Administrative Record
Page 17535

MLJ LLC Discharge Field Sheet

Sampler: TKatz
Date: 6/16/09
Site ID: 536XPFPCL
Site Name: Prairie flower drain @

Method: wading / bridge
Meter: (MMB) / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): 0.61

Discharge calculated by (date and initials):
SH 6/19/09

Double checked by (date and initials):
~~SK~~ 6/17/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): ~~2'~~ 2.5'
Water Depth (H): 2.2
Top of Sediment to Top of Culvert (S): 2.2
Sed. Depth (D-S): .3
Velocity @ 0.2H: .13
Velocity @ 0.6H: .14
Velocity @ 0.8H: .13

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 6/PA/09 double checker: ~~JSK~~ 6/17/09 Pg of Pgs

Station Name: Lateral 2 ½ Near Keyes Rd
StationID: 535LTHNKR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 3 2009
Personnel: J. Katz, D. Corcoran

DATE (mm/dd/yyyy): 6/16/09
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) (WaterTox) (Habitat) (FieldMeasure)

Arrival Time: 12:08
SAMPLE TIME: 12:20
Departure Time: 13:00

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel) Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB / (RB) / NA
STREAM WIDTH (ft / m): 2.30
WATER DEPTH (ft / m): 0.40
HYDRO-MODIFICATION: None, (Bridge), Pipes, (Concrete Channel), Grade Control, Culvert, Other
HYDROMODLOC: US / (DS) / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.5478	-121.09274
*Actual:	37.54778	-121.08494
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 16

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: (Concrete), Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: (Colorless), Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, (5 - 20 cfs), 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right XX →
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: LTHNKR_Irr3NM_061609_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, (Nonvascular), OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	25.54
Water Temp (Celsius):	22.07
SC (uS/cm):	423
DO (mg/L):	12.54
pH:	8.31
TDS:	0.275
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	1.55

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535LTHNKR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535LTHNKR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535LTHNKR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535LTHNKR-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535LTHNKR-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535LTHNKR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535LTHNKR-GR	E. coli	100-mL Polyethylene	1	
535LTHNKR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Administrative Record
Page 17537

6 | 2.3

MLJ LLC Discharge Field Sheet

Sampler: D. Corcoran
Date: 6/16/09
Site ID: 535ZTHNKR
Site Name: Lateral 2 1/2 near Keyes Rd

Method: wading / bridge
Meter: MMB other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.9	0.5	0.2 or 0.6	0.66	
			0.8 only		
2	2.2	1.3	0.2 or 0.6	0.05	
			0.8 only		
3	2.65	1.25	0.2 or 0.6	0.25	
			0.8 only		
4	3.15	1.30	0.2 or 0.6	0.14	
			0.8 only		
5	3.5	0.5	0.2 or 0.6	0.65	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 1.6
Right Edge Water (REW) 3.9
Start Time (24 hr):
End Time (24 hr):
Discharge (cfs): 1.55

Discharge calculated by (date and initials):
SH 6/17/09

Double checked by (date and initials):
JK 6/17/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): JH 6/17/09 double checker: JK 6/17/09 Pg of Pgs

Station Name: Mootz Drain @ Langworth Rd
StationID: 535XMDALR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 3 2009
Personnel: J. Katz, D. Corcoran

DATE (mm/dd/yyyy): 6/16/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 8:19
SAMPLE TIME: 9:20
Departure Time: 10:30

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 3.0 = 0.91m WATER DEPTH (ft / m): 1.7 = 0.52m
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.70582	-120.89303
*Actual:	37.70548	-120.89430
Difference:	.00034	.00133

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 19

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1 E, 1SW
PICTURE NAME: MDALR_Irr3NM_061609_E,SW
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

No observed flow @ sample site; flow measured @ pond outflow

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	23.85
Water Temp (Celsius):	19.80
SC (uS/cm):	180
DO (mg/L):	5.40
pH:	7.13
TDS:	
YSI Meter ID:	3
Stage:	
Calculated Site Discharge:	1.18

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
X 535XMDALR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
X 535XMDALR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	2	
X 535XMDALR-GR	TOC	40-mL Glass Amber vial, set of 3	3	
X 535XMDALR-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
X 535XMDALR-GR	Total Metals	500-mL Plastic (w/HNO3)	2	
X 535XMDALR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	Filtered sample
X 535XMDALR-GR	E. coli	100-mL Polyethylene	1	
X 535XMDALR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

QC Site: See reverse for list of samples to collect

QC Samples Collected		Analyte	Container	Number	Notes
X	535XMDALR-GR2	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
	535XMDALR-GR2	Total & Unionized Ammonia, Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
X	535XMDALR-FB	Total & Unionized Ammonia, Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
	535XMDALR-GR2	TOC	40-mL Glass Amber vial, set of 3	1	
X	535XMDALR-FB	TOC	40-mL Glass Amber vial, set of 3	1	
	535XMDALR-GR2	Total Metals	500-mL Plastic (w/HNO3)	1	
	535XMDALR-GR2	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
X	535XMDALR-FB	Total Metals	500-mL Plastic (w/HNO3)	1	
X	535XMDALR-FB	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
	535XMDALR-TB	Total Metals	500-mL Plastic (w/HNO3)	1	
	535XMDALR-EB	Dissolved Metals	500-mL Plastic (w/HNO3)	1	
X	535XMDALR-FB	E. coli	100-mL Polyethylene	1	
X	535XMDALR-GR2	E. coli	260-mL Polyethylene	1	
X	535XMDALR-GR2	Turbidity, TDS, TSS	2-L Plastic Jug	1	
X	535XMDALR-FB	Turbidity, TDS, TSS	2-L Plastic Jug	1	
X	535XMDALR-GR2	Pesticides	1-L Amber Glass	5	
X	535XMDALR-FB	Pesticides	1-L Amber Glass	5	
X	535XMDALR-MS	Pesticides	1-G Amber Glass	3	

MLJ LLC Discharge Field Sheet

Sampler: JKatz
Date: 6/16/09
Site ID: 535XMDALR
Site Name: Mootz Drain @ Langworth rd.

Method: wading / (bridge)
Meter: (MMB) / other
Meter Units: (ft/s) m/s

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): 3
Water Depth (H): 1.7
Top of Sediment to Top of Culvert (S): 2.9
Sed. Depth (D-S): 0.1
Velocity @ 0.2H: .26
Velocity @ 0.6H: .27
Velocity @ 0.8H: .29

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.8		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW)
Right Edge Water (REW)
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 1.18

Discharge calculated by (date and initials):
JKH 6/17/09

Double checked by (date and initials):
JEK 6/17/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

East San Joaquin Water Quality Coalition

Irrigation 4 NM & MPM
Field Sheets

2009 July 21

Adminsitrative Record
Page 17541

Meter Calibration Log

Team 1

Team 1 members: J. Katz, B. Jones
Primary multiparameter meter ID: YSI #2
Backup multiparameter meter ID: YSI #1
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07A1894AF
Serial number: 07A1894AE
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.03	4.07	4.00	4.00	7/20/09	SH
pH 7	7.14	6.97	7.00	7.00	7/20/09	SH
pH 10	10.02	10.07	10.00	10.01	7/20/09	SH
1413 µS/cm	1425	1413	1413	1413	7/20/09	SH
pH 4	4.00	4.05	4.00	4.00	7/22/09	JEK.
pH 7	7.01	7.00	7.00	7.00	7/22/09	J.E.K.
pH 10	10.02	10.09	10.00	10.01	7/22/09	J.E.K.
1413 µS/cm	1417	1406	1413	1413	7/22/09	J.E.K.

Team 2

Team 2 members: F. Wulff, S. Henderson
Primary multiparameter meter ID: YSI #3
Backup multiparameter meter ID: YSI #4
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07K101587
Serial number: 07K101586
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.03	4.08	4.00	4.00	7/20/09	SH
pH 7	6.96	6.91	7.00	7.00	7/20/09	SH
pH 10	9.99	10.16	10.00	10.03	7/20/09	SH
1413 µS/cm	1420	1407	1413	1413	7/20/09	SH
pH 4	4.05	4.03	4.00	4.00	7/22/09	J.E.K
pH 7	7.04	7.02	7.00	7.00	7/22/09	JE.K.
pH 10	10.03	10.06	10.01	10.01	7/22/09	J.E.K
1413 µS/cm	1409	1423	1413	1413	7/22/09	J.E.K.

Administrative Record
Page 17542

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) 7/7/09 double checker: F.W. 7/23/09 Pg of Pgs

Station Name: ~~Highline Canal @ Hwy 99~~ Highline Canal @ Lombardy Rd
StationID: 535XHCALR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 4 2009 MPM
Personnel: J. KATZ, B. JANES

JEK 7/20/09
DATE (mm/dd/yyyy): 07/21/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 16:27
SAMPLE TIME: 16:40
Departure Time: 16:45

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4556	-120.7207
*Actual:	37.45545	-120.72205
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 17

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
Too DEEP TO MEASURE Q
WIND DIRECTION (from): circle direction in compass at right → N, W, E, S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: N, S, W, E
PICTURE NAME: HCALR_Irr4MPM_072109_N,S,W,E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	38.09
Water Temp (Celsius):	22.58
SC (uS/cm):	41
DO (mg/L):	11.39
pH:	7.66
TDS:	0.027
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHCALR-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	Management Plan Sample
535XHCALR-GR	Tox tests: Acute Ceriodaphnia	1-Gal Amber Glass	3	Management Plan Sample

July Management Plan Monitoring
Measure Field Results

MLJ LLC Discharge Field Sheet

Sampler: J. KATZ
Date: 7/31/09
Site ID: HCALR
Site Name: _____

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

TOO DEEP TO MEASURE DISCHARGE

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): _____

Discharge calculated by (date and initials):

Double checked by (date and initials):

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____

Water Depth (H): _____

Top of Sediment to Top of Culvert (S): _____

Sed. Depth (D-S): _____

Velocity @ 0.2H: _____

Velocity @ 0.6H: _____

Velocity @ 0.8H: _____

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) 7/22/09 double checker: F.W. 7/23/09 Pg of Pgs

Station Name: Mustang Creek @ East Ave
StationID: 535XMCAEA
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 4 2009
Personnel: E. Wulff, S. Henderson

DATE (mm/dd/yyyy): 07/21/2009
PurposeFailure: Dry site
Purpose (Circle all that apply): (WaterChem) WaterTox Habitat FieldMeasure

Arrival Time: 16:07
SAMPLE TIME: —
Departure Time: 16:12

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4918	-120.6839
*Actual:	37.49195	-120.68507
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft) m): 17

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other Dairy
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other Hardpan
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right →

SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1S, 1E, 1W
PICTURE NAME: MCAEA_Irr4NM_072109_N,S,E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMCAEA-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMCAEA-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMCAEA-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMCAEA-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XMCAEA-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMCAEA-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMCAEA-GR	E. coli	100-mL Polyethylene	1	
535XMCAEA-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 7/22/09 double checker: FW 7/23/09 Pg of Pgs

Station Name: Ash Slough @ Ave 21
StationID: 545XASAAT
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 4 2009
Personnel: J. KATZ, B. JAMES

DATE (mm/dd/yyyy): 07/21/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 11:30
SAMPLE TIME: ——
Departure Time: 11:35

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.0545	-120.4158
*Actual:	37.05447	-120.41587
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft) m): 23

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, E, S, W)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1W, 1SW, 1NE, 1E
PICTURE NAME: ASAAT_Irr4NM_072109_W,SW,NE,E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XASAAT-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
545XASAAT-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
545XASAAT-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XASAAT-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
545XASAAT-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
545XASAAT-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
545XASAAT-GR	E. coli	100-mL Polyethylene	1	
545XASAAT-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Site dry, no sample collected

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) SH 7/22/09 double checker: F.W. 7/23/09 Pg of Pgs

Station Name: Cottonwood Creek @ Rd 20
StationID: 545XCCART
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 4 2009
Personnel: J. KATZ, B. JAMES

DATE (mm/dd/yyyy): 07/21/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 10:50
SAMPLE TIME: —
Departure Time: 10:55

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	36.8686	-120.1818
*Actual:	~~38~~ 36.86854	-120.18284
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 18

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → Xx (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W, 1N, 1S
PICTURE NAME: ccard_Irr4NM_072109_E,W,S,N
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XCCART-GR	Tox tests: Acute FH Minnow, Chronic Selenastrum	1-Gal Amber Glass	4	
545XCCART-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
545XCCART-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XCCART-GR	E. coli	100-mL Polyethylene	1	
545XCCART-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
545XCCART-GR	Herbicides: Simazine, Cyanizine	1-L Amber Glass	2	

Dry waterbody bed, no sample collected

Administrative Record
Page 17547

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 7/22/09 double checker: F.W. 7/23/09 Pg of Pgs

Station Name: Merced River @ Santa Fe
StationID: 535XMRSFD
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 4 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 07/21/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 15:21
SAMPLE TIME: 15:40
Departure Time: 15:55

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in) Bridge, Other
STARTING BANK: (LB) RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None (Bridge) Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / (NA) Overhead!

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: (Indiv bottle by hand) By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None) Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble) Gravel, Sand, Mud, Unk., Other
WATER CLARITY: (Clear (see bottom)) Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) NO
WIND: Calm (Light Breeze) Gusty
WATERCOLOR: (Colorless) Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, (50 - 200 cfs), >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: (Clear) Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: N,S,E,W
PICTURE NAME: MRSFO_Irr4NM_072109_N,S,E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, (Trash) None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4271	-120.6721
*Actual:	37.42488	-120.67278
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 17

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	30.52
Water Temp (Celsius):	28.98
SC (uS/cm):	49
DO (mg/L):	6.12
pH:	7.69
TDS:	0.032
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	88

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XMRSFD-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMRSFD-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMRSFD-GR	Total Metals: Copper only	500-mL Plastic (w/HNO3)	1	
535XMRSFD-GR	Dissolved Metals, hardness (as CaCO3): Copper only	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMRSFD-GR	E. coli	100-mL Polyethylene	1	
535XMRSFD-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Retrieve discharge information from CDEC

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) CA 7/22/09 double checker: F.W. 7/23/09 Pg of Pgs

Station Name: Lateral 2 ½ Near Keyes Rd
StationID: 535LTHNKR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 4 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 07/21/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox Habitat FieldMeasure

Arrival Time: 13:15
SAMPLE TIME: 13:30
Departure Time: 14:02

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, (Thalweg) Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.5478	-121.09274
*Actual:	37.54777	-121.08022
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 9

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in) Bridge, Other
STARTING BANK: LB / (RB) / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, (Grade Control), Culvert, Other
HYDROMODLOC: (US) DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: (Indiv bottle by hand) By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, (Other) Algae
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: (Concrete), Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, (Green), Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, (0.1 - 1cfs), 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N, W, E, S
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: NS, 1E, 1W
PICTURE NAME: LTHNKR_Irr4NM_072109_N,S,E,W,2S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, (None), Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	30.10
Water Temp (Celsius):	26.35
SC (uS/cm):	385
DO (mg/L):	11.53
pH:	8.40
TDS:	0.250
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535LTHNKR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535LTHNKR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535LTHNKR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535LTHNKR-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535LTHNKR-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535LTHNKR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535LTHNKR-GR	E. coli	100-mL Polyethylene	1	
535LTHNKR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Too shallow to take discharge.

Administrative Record
Page 17549

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): JH 7/22/09 double checker: F.W. 7/23/09 Pg of Pgs

Station Name: Howard Lateral @ Hwy 140
StationID: 535XHLAHO
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 4 2009
Personnel: J. KATZ, B. JANES

DATE (mm/dd/yyyy): 07/21/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 15:07
SAMPLE TIME: 15:30
Departure Time: 15:57

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.3079	-120.7820
*Actual:	37.30805	-120.78196
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 19

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: S, N, E, W, E
PICTURE NAME: HLAHO_Irr4NM_072109_S,N,E,W,2E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

LOW DISCHARGE TOO LOW TO MEASURE

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	32.70
Water Temp (Celsius):	25.91
SC (uS/cm):	239
DO (mg/L):	11.52
pH:	8.88
TDS:	0.156
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHLAHO-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XHLAHO-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XHLAHO-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHLAHO-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XHLAHO-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XHLAHO-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XHLAHO-GR	E. coli	100-mL Polyethylene	1	
535XHLAHO-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Adminsitrative Record
Page 17550

MLJ LLC Discharge Field Sheet

Sampler: B. JONES
Date: 7/21/09
Site ID: HLAMD
Site Name:

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

Q TOO LOW TO MEASURE

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): _____

Discharge calculated by (date and initials):

Double checked by (date and initials):

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____

Water Depth (H): _____

Top of Sediment to Top of Culvert (S): _____

Sed. Depth (D-S): _____

Velocity @ 0.2H: _____

Velocity @ 0.6H: _____

Velocity @ 0.8H: _____

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) 7/24/09 GH double checker: F.W. 7/23/09 Pg of Pgs

Station Name: Duck Slough @ Hwy 99
StationID: 535XDSAHN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 4 2009 MPM
Personnel: J. KATZ, B. JAMES

DATE (mm/dd/yyyy): 07/21/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 9:32
SAMPLE TIME: 9:50
Departure Time: 10:04

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, (Near Bank), Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB) / RB/ NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / (DS) / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud), Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), (Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, (20 - 50 cfs), 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → X
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 2N, 2W
PICTURE NAME: OSAHN_Irr4MPM_072109_1E,2N,1N,2W,1W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, (None), Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2501	-120.4100
*Actual:	37.25011	-120.41018
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 27

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	28.30
Water Temp (Celsius):	20.84
SC (uS/cm):	39
DO (mg/L):	8.31
pH:	6.81
TDS:	0.025
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDSAHN-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	Management Plan Sample
535XDSAHN-GR	Total Metals; Copper only	500-mL Plastic (w/HNO3)	1	Management Plan Sample
535XDSAHN-GR	Dissolved Copper, hardness (as CaCO3) **FILTERED**	500-mL Plastic (w/HNO3)	1	Management Plan Sample

July Management Plan Monitoring
Measure Field Results

too deep to take discharge.

Administrative Record
Page 17552

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): AH 7/22/09 double checker: F.W. 7/23/09 Pg of Pgs

Station Name: Highline Canal @ Hwy 99
StationID: 535XHCHNN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 4 2009
Personnel: J. KATZ, B. JANES

DATE (mm/dd/yyyy): 07/21/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 8:13
SAMPLE TIME: 8:30
Departure Time: 9:10

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft /m): 6.30 WATER DEPTH (ft /m): 1.83
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4153	-120.7557
*Actual:	37.41254	-120.75946
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft /m): 25

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W, 1N, 1NE, 1NW, 1SE, 1SW PICTURE NAME: HCHNN_Irr4NM_072109_2E, 1W, 1N, 1NE, 1NW, 1SE, 1SW, 1E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	22.25
Water Temp (Celsius):	21.90
SC (uS/cm):	0.38
DO (mg/L):	8.26
pH:	7.31
TDS:	0.025
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	118.93

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
X 535XHCHNN-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
X 535XHCHNN-GR	TOC	40-mL Glass Amber vial, set of 3	1	
X 535XHCHNN-GR	E. coli	100-mL Polyethylene	1	
X 535XHCHNN-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
X 535XHCHNN-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	MANAGEMENT PLAN SAMPLE

MLJ LLC Discharge Field Sheet

Sampler: J. KATZ
Date: 7/21/09
Site ID: HCHNN
Site Name: HIGHLINE CANAL @ HWY 99

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity 1.54		Duration
1	1.45	5.5	0.2 or 0.6		30 sec
			0.8 only	1.14	
2	2.5	5.2	0.2 or 0.6	1.30	
			0.8 only	0.92	
3	3.9	5.35	0.2 or 0.6	1.57	
			0.8 only	1.38	
4	4.6	5.6	0.2 or 0.6	1.48	
			0.8 only	0.87	
5	5.65	6.0	0.2 or 0.6	1.35	
			0.8 only	1.06	
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0.4 m
Right Edge Water (REW) 6.7 m
Start Time (24 hr): 0845
End Time (24 hr): 0910

Discharge (cfs): 118.93

Discharge calculated by (date and initials):
JH 7/22/09

Double checked by (date and initials):
F.W. 7/22/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____
Water Depth (H): _____
Top of Sediment to Top of Culvert (S): _____
Sed. Depth (D-S): _____
Velocity @ 0.2H: _____
Velocity @ 0.6H: _____
Velocity @ 0.8H: _____

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 7/24/09 double checker: F.W. 7/23/09 Pg of Pgs

Station Name: Deadman Creek @ Gurr Rd
StationID: 535XDCAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 4 2009
Personnel: J. KATZ, B. JANES

DATE (mm/dd/yyyy): 07/21/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 11:58
SAMPLE TIME: 12:30
Departure Time: 1257

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 7.10 WATER DEPTH (ft / m): 0.81
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.1936	-120.5612
*Actual:	37.19498	-120.56137
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 15

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → NA (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: N, NW, SE, S PICTURE NAME: DCAGR_Irr4NM_072109_N,NW,SE,S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	30.02
Water Temp (Celsius):	24.35
SC (uS/cm):	242
DO (mg/L):	6.04
pH:	7.50
TDS:	0.159
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	2.61

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAGR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XDCAGR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDCAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAGR-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XDCAGR-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XDCAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDCAGR-GR	E. coli	100-mL Polyethylene	1	
535XDCAGR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

FLOWING W → E, OPPOSITE OF USUAL

MLJ LLC Discharge Field Sheet

Sampler: J. KATZ
Date: 7/21/09
Site ID: DCACR
Site Name: DEADMAN CREEK @ GURR RD

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) m/s

	Interval Midpoint (meters or feet)	Interval Depth (meters or feet)	Velocity		Duration
1	1.6	1.3	0.2 or 0.6	0.03	30 sec
			0.8 only		
2	2.8	2.3	0.2 or 0.6	0.03	
			0.8 only		
3	4.0	2.65	0.2 or 0.6	0.07	
			0.8 only	0.14	
4	5.2	2.4	0.2 or 0.6	0.08	
			0.8 only		
5	6.4	1.9	0.2 or 0.6	0.01	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 7.5
Right Edge Water (REW) 0.4
Start Time (24 hr): 1246
End Time (24 hr):

Discharge (cfs): 2.61

Discharge calculated by (date and initials):
SH 7/22/09

Double checked by (date and initials):
F.V. 7/22/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): 7/22/09 double checker: F.W. 7/23/09 Pg of Pgs

Station Name: Duck Slough @ Gurr Rd
StationID: 535XDSAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 4 2009
Personnel: J. Katz, B. Janes

DATE (mm/dd/yyyy): 07/21/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 13:01
SAMPLE TIME: 13:20
Departure Time: 13:36

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 4.30 WATER DEPTH (ft / m): 0.17
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: N, E, W, S
PICTURE NAME: OSAGR_Irr4NM_072109_N,S,W,E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2142	-120.5596
*Actual:	37.21421	-120.56087
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 24

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	33.77
Water Temp (Celsius):	25.08
SC (uS/cm):	77
DO (mg/L):	9.16
pH:	7.81
TDS:	0.050
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	2.35

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDSAGR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDSAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDSAGR-GR	E. coli	100-mL Polyethylene	1	
535XDSAGR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XDSAGR-GR	Carbamates: Carbofuran	1-L Amber Glass	2	

Administrative Record
Page 17557

MLJ LLC Discharge Field Sheet

Sampler: J. KATZ
Date: 7/21/09
Site ID: SLAGTR
Site Name: DUCK SLOUGH @ BURR RD

Method: (wading) / bridge
Meter: (AMS) / other
Meter Units: (f/s) m/s

0.71

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.21	0.25	0.2 or 0.6	0	30 sec
			0.8 only		
2	1.92	0.5	0.2 or 0.6	0.56	
			0.8 only		
3	2.63	0.5	0.2 or 0.6	0.87	
			0.8 only		
4	3.34	0.5	0.2 or 0.6	0.58	
			0.8 only		
5	4.05	0.55	0.2 or 0.6	0.01	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0.5
Right Edge Water (REW) 4.8
Start Time (24 hr): 13:22
End Time (24 hr):

Discharge (cfs): 2.35

Discharge calculated by (date and initials):
JH 7/22/09

Double checked by (date and initials):
F.V. 7/22/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): 7/22/09 SH double checker: F.W. 7/23/09 Pg of Pgs

Station Name: Miles Creek @ Reilly Rd
StationID: 535XMCARR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 4 2009 MPM
Personnel: J. KATZ, B. JANES

DATE (mm/dd/yyyy): 07/21/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 13:50
SAMPLE TIME: 14:00
Departure Time: 14:39

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB) / RB / NA
STREAM WIDTH (ft / m): 1.80 **WATER DEPTH (ft / m):** 0.27
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / (DS) / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud), Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), (Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, Green, (Yellow), (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, (1 - 5 cfs), 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1S, 1NW, 1SE, 1W **PICTURE NAME:** MCARR_IrrLMPM_072109_N,S,NW,SE,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.25821	-120.47546
*Actual:	37.25839	-120.47504
Difference:		

GPS Model: MLJ-LLC Garmin eTrex Datum: NAD 83 Accuracy (ft / m): 23

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	31.50
Water Temp (Celsius):	25.77
SC (uS/cm):	79
DO (mg/L):	6.45
pH:	6.86
TDS:	0.052
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	1.86

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XMCARR-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	Management Plan Sample
535XMCARR-GR	Total Metals; Copper only	500-mL Plastic (w/HNO3)	1	Management Plan Sample
535XMCARR-GR	Dissolved Copper, hardness (as CaCO3) **FILTERED**	500-mL Plastic (w/HNO3)	1	Management Plan Sample

Administrative Record
Page 17559

July Management Plan Monitoring
Measure Field Results

MLJ LLC Discharge Field Sheet

Sampler: B. JANES
Date: 7/22/09
Site ID: 535 MCARR
Site Name: MILES CREEK @ REILLY RD

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	0.7	0.55	0.2 or 0.6	0.02	30 sec
			0.8 only		
2	1.0	0.9	0.2 or 0.6	0.64	
			0.8 only		
3	1.3	0.8	0.2 or 0.6	0.99	
			0.8 only		
4	1.6	0.7	0.2 or 0.6	0.57	
			0.8 only		
5	1.9	0.55	0.2 or 0.6	0.2	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 2.2
Right Edge Water (REW) 0.4
Start Time (24 hr): 14:27
End Time (24 hr):

Discharge (cfs): 1.80

Discharge calculated by (date and initials):
GH 7/22/09

Double checked by (date and initials):
F.V. 7/22/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 7/23/09 double checker: F.W. 7/23/09 Pg of Pgs

Station Name: Mootz Drain @ Langworth Rd
StationID: 535XMDALR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 4 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 07/21/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox Habitat FieldMeasure

Arrival Time: 08:17
SAMPLE TIME: ~~8~~ 9:00
Departure Time: 10:24

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB (RB) NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, (Culvert), Other
HYDROMODLOC: US (DS) NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.70582	-120.89303
*Actual:	37.70545	-120.89421
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 51

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, (Other) decomposing plant matter
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud), Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), (Murky (<4" vis))
WADEABLE: (YES) / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, Green, Yellow, (Brown), Other Black
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, (5 - 20 cfs), 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1S, 1E, 1W
PICTURE NAME: MDALR_Irr4NM_072109_N,S,E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1" (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	22.62
Water Temp (Celsius):	21.33
SC (uS/cm):	148
DO (mg/L):	2.18
pH:	6.64
TDS:	0.097
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	2.0L

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	2	
535XMDALR-GR	TOC	40-mL Glass Amber vial, set of 3	3	
535XMDALR-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XMDALR-GR	Total Metals	500-mL Plastic (w/HNO3)	2	
535XMDALR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	Filtered sample
535XMDALR-GR	E. coli	100-mL Polyethylene	1	
535XMDALR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

QC Site: See reverse for list of samples to collect

Pump station on (located just before sample collection location).

Micro irrigators present in almond orchards on

QC Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR2	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR2	Total & Unionized Ammonia, Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-FB	Total & Unionized Ammonia, Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-GR2	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-FB	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-GR2	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-GR2	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-TB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-EB	Dissolved Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	E. coli	100-mL Polyethylene	1	
535XMDALR-GR2	E. coli	260-mL Polyethylene	1	
535XMDALR-GR2	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XMDALR-FB	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XMDALR-GR2	Pesticides	1-L Amber Glass	5	
535XMDALR-FB	Pesticides	1-L Amber Glass	5	
535XMDALR-MS	Pesticides	1-G Amber Glass	3	

MLJ LLC Discharge Field Sheet

Sampler: F. Wulff
Date: 7/21/09
Site ID: 535XMDALR
Site Name: Monte Drain @ Langworth Road

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) m/s

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): 3.0 ft
Water Depth (H): 1.5 ft
Top of Sediment to Top of Culvert (S): ~~0.0~~ 3.0 ft
Sed. Depth (D-S): ~~3~~0.0 ft
Velocity @ 0.2H: 0.66 ft/s
Velocity @ 0.6H: 0.55 ft/s
Velocity @ 0.8H: 043 ft/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.8		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW)
Right Edge Water (REW)
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 2.06

Discharge calculated by (date and initials): FW 7/22/09

Double checked by (date and initials): F.W. 7/22/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): 7/23/09SH double checker: F.W. 7/23/09 Pg of Pgs

Station Name: Dry Creek @ Wellsford Rd
StationID: 535XDCAWR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 4 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 07/21/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) ~~FieldMeasure~~

Arrival Time: 10:34
SAMPLE TIME: 10:50
Departure Time: 11:18

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel) Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in) Bridge, Other
STARTING BANK: LB / (RB) / NA
STREAM WIDTH (ft / m): 3.10 WATER DEPTH (ft / m): 0.69
HYDRO-MODIFICATION: None, (Bridge) Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / (DS) / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand) By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble), Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), (Cloudy (>4" vis)), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, (20 - 50 cfs), (50) - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1S, 1N, 1SE, 1SW, 1W, 1E PICTURE NAME: OCAWR_Irr4NM_072109_S,SE,SW,W,E,N
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.6602	-120.8743
*Actual:	37.66062	-120.87397
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 0 / 13

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	25.79
Water Temp (Celsius):	23.78
SC (uS/cm):	119
DO (mg/L):	5.90
pH:	7.22
TDS:	0.078
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	71.26

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDCAWR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDCAWR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAWR-GR	E. coli	100-mL Polyethylene	1	
535XDCAWR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XDCAWR-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	Management plan sample

MLJ LLC Discharge Field Sheet

Sampler: S. Henderson
Date: 7/21/2009
Site ID: 535XOCAWN
Site Name: Dry Creek @ Wellsford Rd

Method: wading / bridge
Meter: MMP / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.75	1.4	0.2 or 0.6	1.33	
			0.8 only		
2	3.10	2.0	0.2 or 0.6	2.01	
			0.8 only		
3	4.45	2.25	0.2 or 0.6	1.75	
			0.8 only		
4	5.80	1.8	0.2 or 0.6	1.78	
			0.8 only		
5	7.15	2.1	0.2 or 0.6	1.46	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 6.5
Right Edge Water (REW) 0.4
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 71.26

Discharge calculated by (date and initials):
CH 7/22/09

Double checked by (date and initials):
F.W. 7/22/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

Administrative Record
Page 17565

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) SH 7/23/09 double checker: F.W. 7/23/09 Pg of Pgs

Station Name: Dry Creek at Waterford Rd
StationID: 535XDCWF
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 4 2009 MPM
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 07/21/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 11:37
SAMPLE TIME: 11:50
Departure Time: 12:20

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB / (RB) / NA
STREAM WIDTH (ft / m): 0.30 WATER DEPTH (ft / m): 0.73
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / (NA) under

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.65876	-120.77887
*Actual:	37.65948	-120.78036
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 23

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud), Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), (Murky (<4" vis))
WADEABLE: (YES) / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, (Green), Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, (5 - 20 cfs), 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, E, S, W)
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 101, SE, IS, INV, E PICTURE NAME: DCWF_Irr4MPM_072109_W,SE,E,S,NW
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	27.74
Water Temp (Celsius):	24.88
SC (uS/cm):	103
DO (mg/L):	6.89
pH:	7.03
TDS:	0.067
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	24.73

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDCWF-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	Management Plan Sample

July Management Plan Monitoring
Measure Field Results
Cows in stream at the time of sampling upstream 100 yds.

MLJ LLC Discharge Field Sheet

Sampler: S. Henderson
Date: 7/21/2009
Site ID: 535FOCWF
Site Name: Dry Creek @ Waterford Rd

Method: wading / bridge
Meter: AMB / other
Meter Units: ft/s m/s

1.72

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.92	1.8	0.2 or 0.6	0.39	30 sec
			0.8 only		
2	3.44	2.4	0.2 or 0.6	0.51	
			0.8 only		
3	5.16	0.90	0.2 or 0.6	0.53	
			0.8 only		
4	6.88	0.90	0.2 or 0.6	0.66	
			0.8 only		✓
5	8.60	1.0	0.2 or 0.6	0.85	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

2.1

Left Edge Water (LEW) 0.2
Right Edge Water (REW) 10.5
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 24.73

Discharge calculated by (date and initials):
SH 7/22/09

Double checked by (date and initials):
F.W. 7/22/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): CH 7/23/09 double checker: F.W. 7/23/09 Pg of Pgs

Station Name: Prairie Flower Drain @ Crows Landing Rd
StationID: 535XPFDCL
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 4 2009
Personnel: F. Wulff, S. Henderson

DATE (mm/dd/yyyy): 07/21/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 14:21
SAMPLE TIME: 14:40
Departure Time: 14:52

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, (Thalweg) Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in) Bridge, Other
STARTING BANK: LB (RB) NA
STREAM WIDTH (ft / m): 5.60 WATER DEPTH (ft / m): 0.61
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, (Culvert) Other
HYDROMODLOC: US (DS) NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: (Indiv bottle by hand) By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None) Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud) Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), (Murky (<4" vis))
WADEABLE: (YES) / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, Green, (Yellow), (Brown) Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, (1 - 5 cfs), 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right →
SKY CODE: (Clear) Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1S, 1E, 1W
PICTURE NAME: PFDCL_Irr4NM_072109_N,S,E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1" (None)
OTHER PRESENCE: (Vascular) (Nonvascular), OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4422	-121.0024
*Actual:	37.44186	-121.00346
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 15

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	31.82
Water Temp (Celsius):	26.28
SC (uS/cm):	13606
DO (mg/L):	12.22
pH:	8.02
TDS:	0.888
YSI Meter ID:	#3
Stage:	
Calculated Site Discharge:	4.15

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XPFDCL-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XPFDCL-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XPFDCL-GR	E. coli	100-mL Polyethylene	1	
535XPFDCL-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Administrative Record
Page 17567

MLJ LLC Discharge Field Sheet

Sampler: F. Wulff
Date: 7/21/09
Site ID: 535XPFDC1
Site Name: Prairie Flower Drain @ Crows Landing Rd

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) m/s

	Interval Midpoint (meters or feet)	Interval Depth (meters or feet)	Velocity		Duration
1	0.9	1.5	0.2 or 0.6	0.02	30sec
			0.8 only		
2	1.8	2.0	0.2 or 0.6	0.18	
			0.8 only		
3	2.7	2.0	0.2 or 0.6		
			0.8 only		
4	3.6		0.2 or 0.6		
			0.8 only		
5	4.5	1	0.2 or 0.6		
			0.8 only		
6	0.7	1.3	0.2 or 0.6	0.02	30sec
			0.8 only		
7	1.4	1.7	0.2 or 0.6	0.06	
			0.8 only		
8	2.1	2.0	0.2 or 0.6	0.23	
			0.8 only		
9	2.8	2.0	0.2 or 0.6	0.35	
			0.8 only		
10	3.5	2.0	0.2 or 0.6	0.13	
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

SH 7/21/09

Left Edge Water (LEW): 5.6
Right Edge Water (REW): 0.0
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 4.15

Discharge calculated by (date and initials):
SH 7/22/09

Double checked by (date and initials):
F.W. 7/22/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

5.6

674.6

East San Joaquin Water Quality Coalition

Irrigation 5 NM, MPM, & Sed
Field Sheets

2009 August 18

Adminsitrative Record
Page 17569

Meter Calibration Log

Team 1

Team 1 members: S. Henderson, K. Calinan
Primary multiparameter meter ID: #2 07A1894AF
Backup multiparameter meter ID: ~~#3~~ 07K101587
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07A1894AF
Serial number: 07K101587
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.00	4.04	4.00	4.00	8/17/09	RW
pH 7	7.07	6.97	7.00	7.01	8/17/09	RW
pH 10	9.97	10.05	9.99	10.01	8/17/09	RW
1413 µS/cm	1414	1408	1413	1413	8/17/09	RW
pH 4	4.00	4.01	4.00	4.00	8/19/09	RW
pH 7	6.97	6.99	7.00	7.00	8/19/09	RW
pH 10	10.05	10.04	10.01	10.01	8/19/09	RW
1413 µS/cm	1416	1423	1413	1413	8/19/09	RW

Team 2

Team 2 members: F. Wulff, R. West
Primary multiparameter meter ID: #4 07K101586
Backup multiparameter meter ID: #1 07A1894AE
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07K101586
Serial number: 07A1894AE
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.11	3.94	4.00	4.00	8/17/09	RW
pH 7	6.95	7.06	7.00	7.00	8/17/09	RW
pH 10	10.07	10.00	10.01	10.00	8/17/09	RW
1413 µS/cm	1378	1450	1413	1413	8/17/09	RW
pH 4	4.01	4.00	4.00	4.00	8/19/09	RW
pH 7	6.99	7.03	7.00	7.00	8/19/09	RW
pH 10	10.03	9.96	10.00	9.99	8/19/09	RW
1413 µS/cm	1414	1412	1413	1413	8/19/09	

Administrative Record
Page 17570

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 8/20/09 double checker: FV 8/20/09 Pg of Pgs

Station Name: Miles Creek @ Reilly Rd
StationID: 535XMCARR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 5 2009 MPM
Personnel: S. Henderson, K. Callinan

DATE (mm/dd/yyyy): 8/18/09
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 13:50
SAMPLE TIME: 13:20
Departure Time: 13:35

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, (Thalweg), Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB)/ RB/ NA
STREAM WIDTH (ft / m): 8.95 **WATER DEPTH (ft / m):** 0.38
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / (DS) / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.25821	-120.47546
*Actual:	37.25881	- 120.47504
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m):

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, (Other) Vegetation
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud), Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), (Murky (<4" vis))
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N, W, E, S, X
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: IMG_15
PICTURE NAME: MCARR_IRR5MPM_08189_N,S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	29.43
Water Temp (Celsius):	23.07
SC (uS/cm):	81
DO (mg/L):	6.58
pH:	7.17
TDS:	0.053
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	7.02

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XMCARR-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	Management Plan Sample
535XMCARR-GR	Total Metals; Copper only	500-mL Plastic (w/HNO3)	1	Management Plan Sample
535XMCARR-GR	Dissolved Copper, hardness (as CaCO3) **FILTERED**	500-mL Plastic (w/HNO3)	1	Management Plan Sample

August Management plan monitoring
Measure Field Results

Administrative Record
Page 17571

MLJ LLC Discharge Field Sheet

Sampler: S. Henderson
Date: 8/18/09
Site ID: 535 YUCARK
Site Name: Mills Creek @ Kelly Rd.

Method: wading / bridge
Meter: MMB / other
Meter Units: f/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.5	0.5	0.2 or 0.6	0.14	303
			0.8 only		
2	3.5	0.7	0.2 or 0.6	0.65	
			0.8 only		
3	5.0	1.0	0.2 or 0.6	0.06	
			0.8 only		
4	5.8	1.0	0.2 or 0.6	0.19	
			0.8 only		
5	6.6	0.9	0.2 or 0.6	0.06	
			0.8 only		
6	7.4	1.15	0.2 or 0.6	0.81	
			0.8 only		
7	8.2	1.4	0.2 or 0.6	0.85	
			0.8 only		
8	9.0	1.25	0.2 or 0.6	0.19	
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0.15
Right Edge Water (REW) 9.10
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 7.02

Discharge calculated by (date and initials):
SH 8/19/09

Double checked by (date and initials):
KC 8/19/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): RW 8/20/09 double checker: FW 8/20/09 Pg of Pgs

Station Name: Duck Slough @ Gurr Rd
StationID: 535XDSAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 5 2009

DATE (mm/dd/yyyy): 8/18/09
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: ~~15:25~~
SAMPLE TIME: 15:40
Departure Time: 15:52

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

Personnel: K Cullinan, S. Henderson

SAMPLE LOCATION: Bank, Near Bank, (Thalweg), Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB) / RB/ NA
STREAM WIDTH (ft / m): 2.10
WATER DEPTH (ft / m): 0.15
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, (Other) Dam
HYDROMODLOC: (US) / DS / NA all US.

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2142	-120.5596
*Actual:	37.21414	-120.5602960
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft/ m): 16

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble), Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), (Cloudy (>4" vis)), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, Green, Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, (1 - 5 cfs), 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, E, S, W)
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: (E), (W)
PICTURE NAME: DSAGR_18AUG09_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, (Trash), None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	34.21
Water Temp (Celsius):	26.08
SC (uS/cm):	47
DO (mg/L):	8.45
pH:	7.63
TDS:	0.030
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	2.16

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDSAGR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDSAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDSAGR-GR	E. coli	100-mL Polyethylene	1	
535XDSAGR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XDSAGR-GR	Carbamates: Carbofuran	1-L Amber Glass	2	

- 100% flow from Dean Drain (Duck Slough dammed)
- Field crop ~~S~~ NW of bridge being irrigated

MLJ LLC Discharge Field Sheet

Sampler: K. Callinan
Date: 8/18/09
Site ID: 535XDSTBR
Site Name: DUCK SLOUGH @ GUADR RD

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	0.55	0.30	0.2 or 0.6	0.06	30 sec
			0.8 only		
2	0.90	0.40	0.2 or 0.6	0.47	
			0.8 only		
3	1.25	0.50	0.2 or 0.6	1.43	
			0.8 only		
4	1.60	0.50	0.2 or 0.6	1.19	
			0.8 only		
5	1.95	0.35	0.2 or 0.6	1.05	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0.2
Right Edge Water (REW) 2.3
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 2.16

Discharge calculated by (date and initials):
SH 8/19/09

Double checked by (date and initials):
KC 8/19/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

0.35
2.10
18
30

.9
.35
1.25

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 8/20/09 double checker: FW 8/20/09 Pg of Pgs

Station Name: Highline Canal @ Hwy 99
StationID: 535XHCHNN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 5 2009
Personnel: K. Cullinan, S. Henderson

DATE (mm/dd/yyyy): 8/18/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 17:47
SAMPLE TIME: 18:00
Departure Time: 18:05

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4153	-120.7557
*Actual:	37.41249	-120.75938
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 19

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 14, 15 IE, IW
PICTURE NAME: HCHNN_ILRPNM_Sed_08189_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	32.70
Water Temp (Celsius):	24.80
SC (uS/cm):	49
DO (mg/L):	9.86
pH:	9.03
TDS:	0.032
YSI Meter ID:	#1
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHCHNN-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XHCHNN-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHCHNN-GR	E. coli	100-mL Polyethylene	1	
535XHCHNN-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
~~535XHCHNN-GR~~	~~OPs: Chlorpyrifos Only~~	~~1-L Amber Glass~~	~~2~~	

Too deep to take discharge.

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 8/20/09 double checker: FV 8/21/09 Pg of Pgs

Station Name: Highline Canal @ Lombardy Rd.
StationID: 535XHCALR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 5 2009 MPM
Personnel: K. Callinan, S. Henderson

DATE (mm/dd/yyyy): 8/18/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 18:12
SAMPLE TIME: 18:20
Departure Time: 18:32

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4556	-120.7207
*Actual:	37.45553	-120.72194
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 17

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1S, 1E
PICTURE NAME: HCALR_IRR5MPM_081809_N,S,E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other Aquatic Snails

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	36.54
Water Temp (Celsius):	23.28
SC (uS/cm):	39
DO (mg/L):	9.33
pH:	7.58
TDS:	0.025
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHCALR-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	Management Plan Sample
535XHCALR-GR	Total Metals; Copper only	500-mL Plastic (w/HNO3)	1	Management Plan Sample
535XHCALR-GR	Dissolved Copper, hardness (as CaCO3) **FILTERED**	500-mL Plastic (w/HNO3)	1	Management Plan Sample
535XHCALR-GR	Tox tests: Acute Ceriodaphnia	1-Gal Amber Glass	3	Management Plan Sample

August Management plan monitoring
Measure Field Results

* Too deep to measure discharge

Administrative Record
Page 17576

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) RW 8/20/09 double checker: FW 8/21/09

Station Name: Howard Lateral @ Hwy 140
StationID: 535XHLAHO
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 5 2009
Personnel: K Callihan, S. Henderson

DATE (mm/dd/yyyy): 8/18/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem, WaterTox, FieldMeasure, Habitat, SedChem, SedTox

Arrival Time: 16:15
SAMPLE TIME: 16:30
Departure Time: 17:18

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 4.50 **WATER DEPTH (ft / m):** 0.67
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.3079	-120.7820
*Actual:	37.30783	-120.78209
Difference:		

GPS Model: MLJ-LLC Garmin eTrex Datum: NAD 83 Accuracy (ft / m): 22

WATER SAMPLES
Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m
SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

SEDIMENT SAMPLES
Lab Chem/Tox Method=Sed_Grab Position in Water Column: Not Applicable Depth: 2 cm
SAMPLE TYPE: Grab, Integrated
DEVICE: Scoop: Metal, MLJ-LLC Ekman, Other

ALL SAMPLES
Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other Methane
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N, W, E, S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1W **PICTURE NAME:** HLAHO_(REDUNDANT)_080818_N,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1" None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other Excessive green algae
SEDIMENT COLOR: Brown, Black, Grey
SEDIMENT ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SEDIMENT COMPOSITION: Cobble, Gravel, Hard Pan Clay, Silt/Clay, Sand, Unknown, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position In Column: Subsurface

Air Temp (Celsius):	24.19
Water Temp (Celsius):	18.18
SC (uS/cm):	96
DO (mg/L):	11.37
pH:	9.14
TDS:	0.062
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge (cfs):	2.47

WATER SAMPLES
Samples Taken (# of Containers Filled) Method = Water_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHLAHO-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XHLAHO-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XHLAHO-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHLAHO-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XHLAHO-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XHLAHO-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XHLAHO-GR	E. coli	100-mL Polyethylene	1	
535XHLAHO-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

SEDIMENT SAMPLES
Samples Taken (# of Containers Filled) Method = Sed_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHLAHO-IN	Sediment Toxicity Test: Acute *Hyalella azteca*	1-L Widemouth Glass	2	
535XHLAHO-IN	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	3	
535XHLAHO-IN2	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	1	
535XHLAHO-IN	Sediment Total Residue: % Solids	8 oz Widemouth Polyethylene	1	
535XHLAHO-IN	Sediment TOC	8 oz Widemouth Polyethylene	1	
535XHLAHO-IN	Sediment Grain Size	8 oz Widemouth Polyethylene	1	

MLJ LLC Discharge Field Sheet

Sampler: K. Gallindo
Date: 8/19/09
Site ID: 535X HL AHO
Site Name: Howard Lateral 50 Hwy 140

Method: (wading) bridge
Meter: (MMB) other
Meter Units: (ft/s) m/s

A.5

	Interval Midpoint (meters) or feet	Interval Depth meters or (feet)	Velocity		Duration
1	0.90	1.10	0.2 or 0.6	0.06	30 sec
			0.8 only		
2	1.70	1.95	0.2 or 0.6	0.09	
			0.8 only		
3	2.50	2.10	0.2 or 0.6	0.14	
			0.8 only		
4	3.30	2.20	0.2 or 0.6	0.17	
			0.8 only		
5	4.00	1.70	0.2 or 0.6	0.09	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW): 4.6
Right Edge Water (REW): 0.1
Start Time (24 hr):
End Time (24 hr):
Discharge (cfs): 2.47

Discharge calculated by (date and initials):
JH 8/19/09

Double checked by (date and initials):
KC 8/19/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 8/20/09 double checker: FW 8/21/09

Station Name: Cottonwood Creek @ Rd 20
StationID: 545XCCART
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 52009
Personnel: J. Henderson, K. Collins

DATE (mm/dd/yyyy): 8/18/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem, WaterTox, FieldMeasure, Habitat, SedChem, SedTox

Arrival Time: 10:16
SAMPLE TIME: 10:40
Departure Time: 11:23

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 6 1.90 **WATER DEPTH (ft / m):** 0.18
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	36.8686	-120.1818
*Actual:	36.868464	-120.18283
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 16

WATER SAMPLES
Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m
SAMPLE TYPE: Grab, Integrated
DEVICE: Inliv bottle by hand, By pole, UCD 3L PTFE, Other

SEDIMENT SAMPLES
Lab Chem/Tox Method=Sed_Grab Position in Water Column: Not Applicable Depth: 2 cm
SAMPLE TYPE: Grab, Integrated
DEVICE: Scoop, Metal, MLJ-LLC Ekman, Other

ALL SAMPLES
Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: X **PICTURE NAME:**
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other
SEDIMENT COLOR: Brown, Black, Grey
SEDIMENT ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SEDIMENT COMPOSITION: Cobble, Gravel, Hard Pan Clay, Silt/Clay, Sand, Unknown, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	27.44
Water Temp (Celsius):	23.60
SC (uS/cm):	72
DO (mg/L):	8.23
pH:	7.17
TDS:	0.046
YSI Meter ID:	# 2
Stage:	
Calculated Site Discharge (cfs):	0.00

WATER SAMPLES
Samples Taken (# of Containers Filled) Method = Water_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XCCART-GR	Tox tests: Acute FH Minnow, Chronic Selenastrum	1-Gal Amber Glass	4	
545XCCART-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
545XCCART-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XCCART-GR	E. coli	100-mL Polyethylene	1	
545XCCART-GR	Turbidity, TDS, ~~Carbamates, OPs, Herbicides~~ TSS	2-L Plastic Jug	1	
545XCCART-GR	Herbicides: Simazine, Cyanizine	1-L Amber Glass	2	

SEDIMENT SAMPLES
Samples Taken (# of Containers Filled) Method = Sed_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XCCART-IN	Sediment Toxicity Test: Acute *Hyalella azteca*	1-L Widemouth Glass	2	
545XCCART-IN	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	3	
545XCCART-IN2	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	1	
545XCCART-IN	Sediment Total Residue: % Solids	8 oz Widemouth Polyethylene	1	
545XCCART-IN	Sediment TOC	8 oz Widemouth Polyethylene	1	
545XCCART-IN	Sediment Grain Size	8 oz Widemouth Polyethylene	1	

* creek very shallow & muddy - mud/sediment stirred up and captured in samples

* camera not working - no pictures taken

MLJ LLC Discharge Field Sheet

Sampler: S. Henderson
Date: 8/18/09
Site ID: 545XCCART
Site Name: Cottonwood Creek @ Rd 20

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	0.71	0.3	0.2 or 0.6	0.04	30s
			0.8 only		
2	1.02	0.3	0.2 or 0.6	0	
			0.8 only		
3	1.33	0.4	0.2 or 0.6	0.02	
			0.8 only		
4	1.64	0.6	0.2 or 0.6	~~0.05~~	
			0.8 only	0.04 KC	
5	1.95	0.5	0.2 or 0.6	0.02	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 2.3
Right Edge Water (REW) 0.4
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): ~~1.96~~ 0.006

Discharge calculated by (date and initials):
SH 8/19/09

Double checked by (date and initials):
KC 8/19/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

0.31 .71
6|9 .31
1.8 1.02
1

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 8/20/09 double checker: FV 8/21/09

Station Name: Deadman Creek @ Gurr Rd
StationID: 535XDCAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 5 2009
Personnel: S. Tinkham, K. Callinan

DATE (mm/dd/yyyy): 8/18/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem, WaterTox, FieldMeasure, Habitat, SedChem, SedTox

Arrival Time: 14:02
SAMPLE TIME: 14:20
Departure Time: 15:21

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 27.20 **WATER DEPTH (ft / m):** 0.82
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA DS

Geometry Data

	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.1936	-120.5612
*Actual:	37.19494	-120.56139
Difference:		

GPS Model: MLJ-LLC Garmin eTrex Accuracy (ft / m): 8
Datum: NAD 83

WATER SAMPLES
Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m
SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

SEDIMENT SAMPLES
Lab Chem/Tox Method=Sed_Grab Position in Water Column: Not Applicable Depth: 2 cm
SAMPLE TYPE: Grab, Integrated
DEVICE: Scoop: Metal, MLJ-LLC Ekman, Other

ALL SAMPLES
Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: E, W **PICTURE NAME:** DAGR_IRRSNM-Sed-080809_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other Grass blades
SEDIMENT COLOR: Brown, Black, Grey
SEDIMENT ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SEDIMENT COMPOSITION: Cobble, Gravel, Hard Pan Clay, Silt/Clay, Sand, Unknown, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	35.94
Water Temp (Celsius):	25.42
SC (uS/cm):	68
DO (mg/L):	6.94
pH:	7.50
TDS:	0.044
YSI Meter ID:	# 2
Stage:	
Calculated Site Discharge (cfs):	0

WATER SAMPLES
Samples Taken (# of Containers Filled) Method = Water_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAGR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XDCAGR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDCAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAGR-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XDCAGR-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XDCAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XDCAGR-GR	E. coli	100-mL Polyethylene	1	
535XDCAGR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

SEDIMENT SAMPLES
Samples Taken (# of Containers Filled) Method = Sed_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAGR-IN	Sediment Toxicity Test: Acute *Hyalella azteca*	1-L Widemouth Glass	2	
535XDCAGR-IN	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	3	
535XDCAGR-IN2	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	1	
535XDCAGR-IN	Sediment Total Residue: % Solids	8 oz Widemouth Polyethylene	1	
535XDCAGR-IN	Sediment TOC	8 oz Widemouth Polyethylene	1	
535XDCAGR-IN	Sediment Grain Size	8 oz Widemouth Polyethylene	1	

- water flowing in upstream direction (W to E); significant discharge into waterway from pipe DS. ~50yds.

MLJ LLC Discharge Field Sheet

Sampler: K. Cullinan
Date: 8/18/09
Site ID: 537XDCHASK
Site Name: Deadman Creek @ Gumbre Rd

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.4	1.5	0.2 or 0.6	0.10	30sec
			0.8 only		
2	2.6	2.5	0.2 or 0.6	0.14	
			0.8 only	0.04	
3	3.8	2.7	0.2 or 0.6	0.07	
			0.8 only	0.09	
4	5.0	2.4	0.2 or 0.6	0.04	
			0.8 only		
5	6.2	1.6	0.2 or 0.6	0.08	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 7.4 m
Right Edge Water (REW) 0.2 m
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 3.10 — c/cf low moving in U.S. direction (W→E), this value is only calculated to show Rate of flow. -SH

Discharge calculated by (date and initials): SH 8/19/09

Double checked by (date and initials): KC 8/19/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): RW 8/20/09 double checker: FW 8/21/09

Station Name: Mootz Drain @ Langworth Rd
StationID: 535XMDALR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation $ 2009
Personnel: F. Wulff, R. West

DATE (mm/dd/yyyy): 08/18/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem, WaterTox, FieldMeasure, Habitat, SedChem, SedTox

Arrival Time: 08:57
SAMPLE TIME: 09:30
Departure Time: 11:58

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.70582	-120.89303
*Actual:	37.70545	-120.89432
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 14 ft

WATER SAMPLES
Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m
SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

SEDIMENT SAMPLES
Lab Chem/Tox Method=Sed_Grab Position in Water Column: Not Applicable Depth: 2 cm
SAMPLE TYPE: Grab, Integrated
DEVICE: Scoop: Metal, MLJ-LLC Ekman, Other

ALL SAMPLES
Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: MDALR_100509NM-Rd_081809_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other
SEDIMENT COLOR: Brown, Black, Grey
SEDIMENT ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SEDIMENT COMPOSITION: Cobble, Gravel, Hard Pan Clay, Silt/Clay, Sand, Unknown, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	25.38
Water Temp (Celsius):	20.53
SC (uS/cm):	149
DO (mg/L):	4.90
pH:	7.13
TDS:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge (cfs):	6.63

WATER SAMPLES
Samples Taken (# of Containers Filled) Method = Water_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	2	
535XMDALR-GR	TOC	40-mL Glass Amber vial, set of 3	3	
535XMDALR-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XMDALR-GR	Total Metals	500-mL Plastic (w/HNO3)	2	
535XMDALR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	
535XMDALR-GR	E. coli	100-mL Polyethylene	1	
535XMDALR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

SEDIMENT SAMPLES
Samples Taken (# of Containers Filled) Method = Sed_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMDALR-IN	Sediment Toxicity Test: Acute *Hyalella azteca*	1-L Widemouth Glass	2	
535XMDALR-IN	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	3	
535XMDALR-IN2	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	1	
535XMDALR-IN	Sediment Total Residue: % Solids	8 oz Widemouth Polyethylene	1	
535XMDALR-IN	Sediment TOC	8 oz Widemouth Polyethylene	3	
535XMDALR-IN	Sediment Grain Size	8 oz Widemouth Polyethylene	1	

QC Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR2	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR2	Nitrate + Nitrite as N, Total Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-FB	Nitrate + Nitrite as N, Total Ammonia, Total Phosphorus (as P)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-GR2	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-FB	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-GR2	Pesticides	1-L Amber Glass	5	
535XMDALR-FB	Pesticides	1-L Amber Glass	5	
535XMDALR-MS	Pesticides	1-G Amber Glass	3	
~~535XMDALR-GR2~~	~~Paraquat~~	~~1-L Plastic~~	~~1~~	
~~535XMDALR-FB~~	~~Paraquat~~	~~1-L Plastic~~	~~1~~	
~~535XMDALR-MS~~	~~Paraquat~~	~~1-L Plastic~~	~~1~~	
535XMDALR-GR2	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-GR2	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-TB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-EB	Dissolved Metals	500-mL Plastic (w/HNO3)	1	
~~535XMDALR-GR2~~	~~Glyphosate~~	~~40-mL Glass vial~~	~~2~~	
~~535XMDALR-FB~~	~~Glyphosate~~	~~40-mL Glass vial~~	~~2~~	
535XMDALR-FB	E. coli	100-mL Polyethylene	1	
535XMDALR-GR2	E. coli	260-mL Polyethylene	1	
535XMDALR-GR2	Turbidity, TDS TSS, ~~Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)~~	2-L Plastic Jug	1	
535XMDALR-FB	Turbidity, TDS TSS, ~~Nitrate + Nitrite (as N), Soluble Orthophosphate (as P)~~	2-L Plastic Jug	1	
535XMDALR-IN2	Sediment Toxicity Test: Acute Hyalella azteca	1-L Widemouth Glass	2	
535XMDALR-IN2	Sediment Total Residue: % Solids	8 oz Widemouth Polyethylene	1	
535XMDALR-IN2	Sediment TOC	8 oz Widemouth Polyethylene	1	
535XMDALR-IN2	Sediment Grain Size	8 oz Widemouth Polyethylene	1	

MLJ LLC Discharge Field Sheet

Sampler: F. Wulff
Date: 8-18-2009
Site ID: 535XMDALR-GR2
Site Name: Mott's Drain @ Langworth Rd.

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): 3A+
Water Depth (H): 1.8
Top of Sediment to Top of Culvert (S): 3
Sed. Depth (D-S): 0
Velocity @ 0.2H: 1.72
Velocity @ 0.6H: 1.40
Velocity @ 0.8H: 1.11

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.8		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): 0.63

Discharge calculated by (date and initials):
SH 8/19/09

Double checked by (date and initials):
KC 8/19/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): HB 8/19/09 double checker: FW 8/21/09 Pg of Pgs

Station Name: Dry Creek @ Wellsford Rd
StationID: 535XDCAWR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 5 2009
Personnel: F. Wulff, R. West

DATE (mm/dd/yyyy): 08/18/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) FieldMeasure

Arrival Time: 12:10
SAMPLE TIME: 12:30
Departure Time: 13:00

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, (Thalweg), Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB (RB) NA
STREAM WIDTH (ft / m): 8.0
WATER DEPTH (ft / m): 0.7
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / (NA) overhead

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble), Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), (Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, Green, (Yellow), (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, (20 - 50 cfs), 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E,W
PICTURE NAME: 2CAWR_IRRNM-Rd_08180g_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, (None), Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.6602	-120.8743
*Actual:	37.66063	-120.87544
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 0 / 16

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	27.26
Water Temp (Celsius):	22.32
SC (uS/cm):	118
DO (mg/L):	7.52
pH:	7.55
TDS:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	4707

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDCAWR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDCAWR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAWR-GR	E. coli	100-mL Polyethylene	1	
535XDCAWR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XDCAWR-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	Management Plan Sample

MLJ LLC Discharge Field Sheet

Sampler: R. West
Date: 8/18/09
Site ID: 535 x DCAWR
Site Name: Dry Creek @ Wallsford Rd.

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s / m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.93	0.9	0.2 or 0.6	0.50	30 sec
			0.8 only		
2	3.26	2.0	0.2 or 0.6	1.82	
			0.8 only		
3	4.59	2.3	0.2 or 0.6	1.60	
			0.8 only		
4	5.92	0.9	0.2 or 0.6	0.79	
			0.8 only		
5	7.25	2.2	0.2 or 0.6	1.04	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 8.6
Right Edge Water (REW) 0.60
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 47.07

Discharge calculated by (date and initials):
[illegible] 8/19/09

Double checked by (date and initials):
KC 8/19/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): ~~H 8/19~~ double checker: FW 8/21/09 Pg of Pgs

Station Name: Dry Creek at Waterford
StationID: 535XDCWF
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 5 2009 MPM
Personnel: F. Wulff, R. West

DATE (mm/dd/yyyy): 08/18/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 13:20
SAMPLE TIME: 13:30
Departure Time: 13:47

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB / (RB) / NA
STREAM WIDTH (ft / m): 7.90 WATER DEPTH (ft / m): 0.94
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: (US) / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.65876	-120.77887
*Actual:	37.65949	-120.78045
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 48 ft

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud), Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), (Murky (<4" vis))
WADEABLE: (YES) / NO
WIND: (Calm), (Light Breeze), Gusty
WATERCOLOR: Colorless, Green, Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, (No Observed Flow), Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 155, 1W
PICTURE NAME: DCWF-[illegible]_081809_S,W
PRECIPITATION (last 24 hrs): (Unknown), <1", >1", None
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	29.12
Water Temp (Celsius):	23.13
SC (uS/cm):	141
DO (mg/L):	7.83 ~~0.092~~ Raw
pH:	7.18
TDS:	
YSI Meter ID:	# 4
Stage:	
Calculated Site Discharge:	20.76

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDCWF-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	Management Plan Sample

August Management plan monitoring
Measure Field Results

Administrative Record
Page 17587

MLJ LLC Discharge Field Sheet

Sampler: F. Wulff.
Date: 8-18-09
Site ID: 535XDCWF
Site Name: Dry Creek @ Waterford

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.71	~~1.0 1.77~~ REW	0.2 or 0.6	0.01	30sec
			0.8 only		
2	3.02	2.10	0.2 or 0.6	0.48	
			0.8 only		
3	~~4.33 5.18~~ REW	3.10	0.2 or 0.6	0.59	
			0.8 only	0.65	
4	5.64	2.70	0.2 or 0.6	0.57	
			0.8 only	0.44	
5	6.95	1.40	0.2 or 0.6	0.37	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		✓
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 8.3
Right Edge Water (REW) 0.4
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 20.76

Discharge calculated by (date and initials):
SH 8/19/09

Double checked by (date and initials):
KC 8/19/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 8/21/09 double checker: FW 8/21/09 Pg of Pgs

Station Name: Deadman Creek @ Hwy59
StationID: 535DMCAHF
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 5 2009 MPM
Personnel: S. Henderson, K. Calkins

DATE (mm/dd/yyyy): 8/18/09
PurposeFailure: Dry Site
Purpose (Circle all that apply): (WaterChem) WaterTox Habitat FieldMeasure

Arrival Time: 13:49
SAMPLE TIME: 14:00
Departure Time: 13:55

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.1981	-120.4869
*Actual:	37.197658	-120.485806
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 22

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S X
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: DMCAHF_IRR5MPM_C81809_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535DMCAHF-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	Management Plan Sample

August Management plan monitoring
Measure Field Results

*Dry Site

Administrative Record
Page 17589

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): JH 8/19/09 double checker: FV 8/21/09 Pg of Pgs

Station Name: Prairie Flower Drain @ Crows Landing Rd
StationID: 535XPFDCL
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 5 2009
Personnel: F. Wulff & R. West

DATE (mm/dd/yyyy): 08/18/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 16:20
SAMPLE TIME: 16:40
Departure Time: 16:52

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 4.40 WATER DEPTH (ft / m): 0.61
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4422	-121.0024
*Actual:	37.44183	-121.00341
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 16 ft

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other organic odor
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E 1W
PICTURE NAME: PFDCL_IRR5MIN-20_081809_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	30.41
Water Temp (Celsius):	24.88
SC (uS/cm):	1984
DO (mg/L):	16.94
pH:	7.92
TDS:	
YSI Meter ID:	4
Stage:	
Calculated Site Discharge:	2.85

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XPFDCL-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XPFDCL-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XPFDCL-GR	E. coli	100-mL Polyethylene	1	
535XPFDCL-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XPFDCL-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	Management Plan sample

MLJ LLC Discharge Field Sheet

Sampler: F. Wulff
Date: 8-18-09
Site ID: 535XPFDC
Site Name: Prairie Flower Drain @ Crows Landing Rd

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	0.98	1.0	0.2 or 0.6	0	
			0.8 only		
2	1.61	1.5	0.2 or 0.6	0.06	
			0.8 only		
3	2.24	2.0	0.2 or 0.6	0.19	
			0.8 only		
4	2.87	1.6	0.2 or 0.6	0.29	
			0.8 only		
5	3.60	1.6	0.2 or 0.6	0.17	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW): 4.75
Right Edge Water (REW): 0.35
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 2.85

Discharge calculated by (date and initials):
CH 8/19/09

Double checked by (date and initials):
KC 8/19/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 8/19/09 double checker: FW 8/21/09 Pg of Pgs

Station Name: Merced River @ Santa Fe
StationID: 535XMRSFD
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 5 2009
Personnel: F. Wulff, R. West

DATE (mm/dd/yyyy): 08-18-2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1745
SAMPLE TIME: 1800
Departure Time: 1822

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N, W, E, S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: MRSFD_1QR5NM-Sed_081809-E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4271	-120.6721
*Actual:	37.42484	-120.67283
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 20

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	30.51
Water Temp (Celsius):	27.19
SC (uS/cm):	48
DO (mg/L):	8.14
pH:	7.55
TDS:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	50

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMRSFD-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMRSFD-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMRSFD-GR	Total Metals: Copper only	500-mL Plastic (w/HNO3)	1	
535XMRSFD-GR	Dissolved Metals, hardness (as CaCO3): Copper only	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMRSFD-GR	E. coli	100-mL Polyethylene	1	
535XMRSFD-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Retrieve discharge information from CDEC

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): ~~8/19/09~~ double checker: FV 8/21/09 Pg of Pgs

Station Name: Duck Slough @ Hwy 99
StationID: 535XDSAHN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 5 2009 MPM
Personnel: S Henderson, K. Callinan

DATE (mm/dd/yyyy): 8/18/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 8:50
SAMPLE TIME: 9:00
Departure Time: 9:21

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S X
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: IN, ~~IMAGE~~ PICTURE NAME: DSHHN_IRR5 MPM_08/809_N,E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2501	-120.4100
*Actual:	37.25043	-120.40934
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 17

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	21.33
Water Temp (Celsius):	21.24
SC (uS/cm):	33
DO (mg/L):	7.37
pH:	7.65
TDS:	0.021
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDSAHN-GR	Total Metals; Copper only	500-mL Plastic (w/HNO3)	1	Management Plan Sample
535XDSAHN-GR	Dissolved Copper, hardness (as CaCO3) **FILTERED**	500-mL Plastic (w/HNO3)	1	Management Plan Sample

August Management plan monitoring
Measure Field Results

Too deep to measure discharge.

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 8/19/09 | double checker: FW 8/21/09

Station Name: Mustang Creek @ East Ave
StationID: 535XMCAEA
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 5 2009
Personnel: F. Wulff, R. West

DATE (mm/dd/yyyy): 08/18/2009
PurposeFailure: Dry Site
Purpose (Circle all that apply): WaterChem, WaterTox, FieldMeasure, Habitat, SedChem, SedTox

Arrival Time: 1832
SAMPLE TIME:
Departure Time: 1840

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4918	-120.6839
*Actual:	37.49184	-120.66511
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (0 m): 14

WATER SAMPLES
Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m
SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

SEDIMENT SAMPLES
Lab Chem/Tox Method=Sed_Grab Position in Water Column: Not Applicable Depth: 2 cm
SAMPLE TYPE: Grab, Integrated
DEVICE: Scoop: Metal, MLJ-LLC Ekman, Other

ALL SAMPLES
Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right →
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: (E, DX, IS IN
PICTURE NAME: MCAEA_IRR5NM-2d_081809_E,S,N
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other
SEDIMENT COLOR: Brown, Black, Grey
SEDIMENT ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SEDIMENT COMPOSITION: Cobble, Gravel, Hard Pan Clay, Silt/Clay, Sand, Unknown, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position In Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge (cfs):	

WATER SAMPLES
Samples Taken (# of Containers Filled) Method = Water_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMCAEA-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMCAEA-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMCAEA-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMCAEA-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XMCAEA-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMCAEA-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMCAEA-GR	E. coli	100-mL Polyethylene	1	
535XMCAEA-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

SEDIMENT SAMPLES
Samples Taken (# of Containers Filled) Method = Sed_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMCAEA-IN	Sediment Toxicity Test: Acute *Hyalella azteca*	1-L Widemouth Glass	2	
535XMCAEA-IN	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	3	
535XMCAEA-IN2	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	1	
535XMCAEA-IN	Sediment Total Residue: % Solids	8 oz Widemouth Polyethylene	1	
535XMCAEA-IN	Sediment TOC	8 oz Widemouth Polyethylene	1	
535XMCAEA-IN	Sediment Grain Size	8 oz Widemouth Polyethylene	1	

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) SH 8/19/09 double checker: FW 8/21/09

Station Name: Ash Slough @ Ave 21
StationID: 545XASAAT
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 5 2009
Personnel: S. Henderson & Cellivan

DATE (mm/dd/yyyy): 8/18/09
PurposeFailure: Dry Site
Purpose (Circle all that apply): WaterChem, FieldMeasure, SedChem, WaterTox, Habitat, SedTox

Arrival Time: 12:00
SAMPLE TIME: —
Departure Time: 12:05

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.0545	-120.4158
*Actual:	37.05444	-120.41592
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 13

WATER SAMPLES
Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m
SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

SEDIMENT SAMPLES
Lab Chem/Tox Method=Sed_Grab Position in Water Column: Not Applicable Depth: 2 cm
SAMPLE TYPE: Grab, Integrated
DEVICE: Scoop: Metal, MLJ-LLC Ekman, Other

ALL SAMPLES
Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1S **PICTURE NAME:** ASHAT-180RNM-Sed C0809_N,S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other
SEDIMENT COLOR: Brown, Black, Grey
SEDIMENT ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SEDIMENT COMPOSITION: Cobble, Gravel, Hard Pan Clay, Silt/Clay, Sand, Unknown, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position In Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge (cfs):	

WATER SAMPLES
Samples Taken (# of Containers Filled) Method = Water_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XASAAT-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
545XASAAT-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
545XASAAT-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XASAAT-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
545XASAAT-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
545XASAAT-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
545XASAAT-GR	E. coli	100-mL Polyethylene	1	
545XASAAT-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

SEDIMENT SAMPLES
Samples Taken (# of Containers Filled) Method = Sed_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XASAAT-IN	Sediment Toxicity Test: Acute *Hyalella azteca*	1-L Widemouth Glass	2	
545XASAAT-IN	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	3	
545XASAAT-IN2	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	1	
545XASAAT-IN	Sediment Total Residue: % Solids	8 oz Widemouth Polyethylene	1	
545XASAAT-IN	Sediment TOC	8 oz Widemouth Polyethylene	1	
545XASAAT-IN	Sediment Grain Size	8 oz Widemouth Polyethylene	1	

* Dry Site

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): SH 8/19/09 double checker: FW 8/21/09

Station Name: Lateral 2 ½ Near Keyes Rd
StationID: 535LTHNKR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 5 2009
Personnel: F. Wulff, R. West

DATE (mm/dd/yyyy): 8/18/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem, WaterTox, FieldMeasure, Habitat, SedChem, SedTox

Arrival Time: 14:38
SAMPLE TIME: 15:10
Departure Time: 16:02

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 09/17/07

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 2.92 **WATER DEPTH (ft / m):** 0.61
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.5478	-121.09274
*Actual:	37.54774	-121.08488
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 18

WATER SAMPLES
Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m
SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

SEDIMENT SAMPLES
Lab Chem/Tox Method=Sed_Grab Position in Water Column: Not Applicable Depth: 2 cm
SAMPLE TYPE: Grab, Integrated
DEVICE: Scoop: Metal, MLJ-LLC Ekman, Other

ALL SAMPLES
Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog/Hazy
PICTURE NUMBER: 7E, 1W
PICTURE NAME: LTHNKR-IRRGNM-Sed_081809_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other
SEDIMENT COLOR: Brown, Black, Grey
SEDIMENT ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SEDIMENT COMPOSITION: Cobble, Gravel, Hard Pan Clay, Silt/Clay, Sand, Unknown, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position In Column: Subsurface

Air Temp (Celsius):	32.74
Water Temp (Celsius):	23.28
SC (uS/cm):	700
DO (mg/L):	9.93
pH:	7.8
TDS:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge (cfs):	15.81

WATER SAMPLES
Samples Taken (# of Containers Filled) Method = Water_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535LTHNKR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535LTHNKR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535LTHNKR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535LTHNKR-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535LTHNKR-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535LTHNKR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535LTHNKR-GR	E. coli	100-mL Polyethylene	1	
535LTHNKR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

SEDIMENT SAMPLES
Samples Taken (# of Containers Filled) Method = Sed_Grab
Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535LTHNKR-IN	Sediment Toxicity Test: Acute *Hyalella azteca*	1-L Widemouth Glass	2	
535LTHNKR-IN	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	3	
535LTHNKR-IN2	Sediment Chemistry: Pyrethroids & Chlorpyrifos	8 oz Widemouth Polyethylene	1	
535LTHNKR-IN	Sediment Total Residue: % Solids	8 oz Widemouth Polyethylene	1	
535LTHNKR-IN	Sediment TOC	8 oz Widemouth Polyethylene	1	
535LTHNKR-IN	Sediment Grain Size	8 oz Widemouth Polyethylene	1	

MLJ LLC Discharge Field Sheet

Sampler: R. West
Date: 8/18/09
Site ID: S35LTHNKR
Site Name: Lateral 2½ near Kay Ranch

Method: wading / bridge
Meter: MMB / other
Meter Units: cfs m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.11	1.00	0.2 or 0.6	1.08	
			0.8 only		
2	1.60	2.00	0.2 or 0.6	1.48	
			0.8 only		
3	2.09	2.00	0.2 or 0.6	1.25	
			0.8 only		
4	2.58	1.90	0.2 or 0.6	1.14	
			0.8 only		
5	3.07	1.00	0.2 or 0.6	1.15	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 3.54
Right Edge Water (REW) 0.62
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 15.81

Discharge calculated by (date and initials):
SH 8/19/09

Double checked by (date and initials):
KC 8/19/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

East San Joaquin Water Quality Coalition

Irrigation 6 NM & MPM
Field Sheets

2009 September 22

Adminsitrative Record
Page 17598

Meter Calibration Log

Team 1

Team 1 members: Rachel West, John Swanson
Primary multiparameter meter ID: (2)
Backup multiparameter meter ID: (1)
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07A1894AF
Serial number: 07A1894AE
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.08	4.04	4.00	4.00	9-21-09	
pH 7	7.00	7.14	7.00	7.00	9-21-09	
pH 10	10.14	9.94	10.02	10.00	9-21-09	
1413 µS/cm	1418	1419	1413	1413	9-21-09	
pH 4	4.10	4.02	4.00	4.00	9-23-09	
pH 7	6.91	7.05	7.00	7.00	9-23-09	
pH 10	10.19	9.95	10.03	9.99	9-23-09	
1413 µS/cm	1410	1409	1413	1413	9-23-09	

Team 2

Team 2 members: Frank Wulff, Daniel Corcoran
Primary multiparameter meter ID: (4)
Backup multiparameter meter ID: (3)
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07K101586
Serial number: 07K101587
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.17	4.03	4.00	4.00	9-21-09	
pH 7	7.05	7.05	7.00	7.00	9-21-09	
pH 10	10.10	9.99	10.03	10.00	9-21-09	
1413 µS/cm	1440	1467	1413	1413	9-21-09	
pH 4	3.90	4.01	4.00	4.00	9-23-09	
pH 7	7.01	6.98	7.00	7.00	9-23-09	
pH 10	10.01	9.94	10.00	9.99	9-23-09	
1413 µS/cm	1405	1408	1413	1413	9-23-09	

Administrative Record
Page 17599

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) FW 09/23/09 double checker: RW 9/24/09 Pg of Pgs

Station Name: Ash Slough @ Ave 21
StationID: 545XASAAT
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 6 2009

DATE (mm/dd/yyyy): 09 22 2009
PurposeFailure: Dry Site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1125
SAMPLE TIME: NA
Departure Time: 1135

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

Personnel: R. WEST J. SWANSON

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.0545	-120.4158
*Actual:	37.05463	-120.41709
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 40 FT

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): **WATER DEPTH (ft / m):**
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1 NE 1 SW **PICTURE NAME:** ASAAT_Irr6NM_092209_NE,SW
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) **Field Dup: Yes / No**

Samples Collected	Analyte	Container	Number	Notes
545XASAAT-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
545XASAAT-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
545XASAAT-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XASAAT-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
545XASAAT-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
545XASAAT-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
545XASAAT-GR	E. coli	100-mL Polyethylene	1	
545XASAAT-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

SITE DRY

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) FW 09/22/09 double checker: RW 9/24/09 Pg of Pgs

Station Name: Cottonwood Creek @ Rd 20
StationID: 545XCCART
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 6 2009

DATE (mm/dd/yyyy): 09 22 2009
PurposeFailure: Dry Site
Purpose (Circle all that apply): (WaterChem) (WaterTox) (Habitat) (FieldMeasure)

Arrival Time: 1025
SAMPLE TIME: NA
Departure Time: 1035

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

Personnel: R. WEST J. SWANSON

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	36.8686	-120.1818
*Actual:	36.86846	-120.18308
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 20 FT.

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, (Dry Waterbody Bed) No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E 1W
PICTURE NAME: CCART_Irr6NM-092209_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XCCART-GR	Tox tests: Acute FH Minnow, Chronic Selenastrum	1-Gal Amber Glass	4	
545XCCART-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
545XCCART-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XCCART-GR	E. coli	100-mL Polyethylene	1	
545XCCART-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
545XCCART-GR	Herbicides: Simazine, Cyanizine	1-L Amber Glass	2	

SITE DRY

Administrative Record
Page 17601

Administrative Record
Page 17602

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) FW 9/23/09 double checker: RW 9/24/09 Pg of Pgs

Station Name: Deadman Creek @ Hwy 59
StationID: 535DMCAHF
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 6 2009 MPM
Personnel: R. WEST J. SWANSON

DATE (mm/dd/yyyy): 09 22 2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 1155
SAMPLE TIME: NA
Departure Time: 1210

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.1981	-120.4869
*Actual:	37.19775	-120.48805
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 12 FT.

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E 1W
PICTURE NAME: DCAHF_Irr6MPM_092209_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled) Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535DMCAHF-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	Management Plan Sample

September Management Plan Monitoring
Measure Field Results

SITE DRY

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FW 09/23/09 double checker: [illegible] 9.28.09 Pg of Pgs

Station Name: Mustang Creek @ East Ave
StationID: 535XMCAEA
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 6 2009
Personnel: F. Wolff D. Corcoran

DATE (mm/dd/yyyy): 09/22/09
PurposeFailure: Dry etc
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1535
SAMPLE TIME:
Departure Time: 1545

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None) Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud) Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: (Calm) Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry, Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right XX →
SKY CODE: (Clear) Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 15 IN
PICTURE NAME: MCAEA_IrrGNM_092209_S,N
PRECIPITATION (last 24 hrs): Unknown, <1", >1" (None)
OTHER PRESENCE: (Vascular) Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4918	-120.6839
*Actual:	37.49187	-120.68504
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 20

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMCAEA-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMCAEA-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMCAEA-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMCAEA-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XMCAEA-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMCAEA-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMCAEA-GR	E. coli	100-mL Polyethylene	1	
535XMCAEA-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Administrative Record
Page 17603

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FV 09/23/09 double checker: RW 9-24-09 Pg of Pgs

Station Name: Hilmar Drain @ Central Ave
StationID: 535XHDACA
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 6 2009 MPM
Personnel: F. Wolff, D. Corcoran

DATE (mm/dd/yyyy): 09/22/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1358
SAMPLE TIME: 1410
Departure Time: 14:20

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Bnk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: H0ACA_Irr6MPM_092209_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.39058	-120.9582
*Actual:	37.39059	-120.95916
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 25

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	29.72
Water Temp (Celsius):	20.99
SC (uS/cm):	934
DO (mg/L):	7.15
pH:	7.55
TDS:	0.607
YSI Meter ID:	4
Stage:	
Calculated Site Discharge:	-88

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHDACA-GR 1 2 3	Tox tests: Chronic Selenastrum	1-Gal Amber Glass	3	Management Plan Sample

September Management Plan Monitoring
Measure Field Results
Discharge not measured due to toxicity monitoring only

Administrative Record
Page 17604

Administrative Record
Page 17605

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FW 09/23/09 double checker: RW 9-24-09 Pg of Pgs

Station Name: Merced River @ Santa Fe
StationID: 535XMRSFD
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 6 2009
Personnel: F Wolff, D Corcoran

DATE (mm/dd/yyyy): 09/22/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1454
SAMPLE TIME: 1510
Departure Time: 1529

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → X N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 15E, 1W
PICTURE NAME: MRSFD_Irr6NM_092209_SE,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4271	-120.6721
*Actual:	37.42777	-120.67372
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 30

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	30.56
Water Temp (Celsius):	25.50
SC (uS/cm):	40
DO (mg/L):	7.91
pH:	7.73
TDS:	0.026
YSI Meter ID:	~~EP04~~
Stage:	
Calculated Site Discharge:	78

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

	Samples Collected	Analyte	Container	Number	Notes
✓	535XMRSFD-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
✓	535XMRSFD-GR	TOC	40-mL Glass Amber vial, set of 3	1	
✓	535XMRSFD-GR	Total Metals: Copper only	500-mL Plastic (w/HNO3)	1	
✓	535XMRSFD-GR	Dissolved Metals, hardness (as CaCO3): Copper only	500-mL Plastic (w/HNO3)	1	Filtered sample
✓	535XMRSFD-GR	E. coli	100-mL Polyethylene	1	
✓	535XMRSFD-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Retrieve discharge information from CDEC

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FW 09/23/09 double checker: RW 9.24.09

Pg of Pgs

Station Name: Highline Canal @ Hwy 99
StationID: 535XHCHNN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 6 2009
Personnel: R. WEST J. SWANSON

DATE (mm/dd/yyyy): 09 22 2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1550
SAMPLE TIME: 1610
Departure Time: 1625

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: NS / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4153	-120.7557
*Actual:	37.41249	-120.75980
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 20 FT.

Lab Chem/Tox Method=Water Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1W 1E
PICTURE NAME: HCHNN_Irr6NM_092209_W,E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	36.15
Water Temp (Celsius):	25.34
SC (uS/cm):	42
DO (mg/L):	10.28
pH:	8.61
TDS:	0.027
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHCHNN-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XHCHNN-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHCHNN-GR	E. coli	100-mL Polyethylene	1	
535XHCHNN-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Too deep for discharge.

Administrative Record
Page 17606

Administrative Record
Page 17607

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FV 9/23/09 double checker: RW 9-24-09 Pg of Pgs

Station Name: Duck Slough @ Hwy 99
StationID: 535XDSAHN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 6 2009 MPM

DATE (mm/dd/yyyy): 09 22 2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 0840
SAMPLE TIME: 0900
Departure Time: 0930

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

Personnel: R. WEST J. SWANSON

SAMPLE LOCATION: Bank (Near Bank) Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in) Bridge, Other
STARTING BANK: (LB) / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None (Bridge) Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US (DS) NA

Lab Chem/Tox Method=Water Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: (Indiv bottle by hand) By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None) Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud), Unk., Other
WATER CLARITY: Clear (see bottom) (Cloudy (>4" vis)) Murky (<4" vis)
WADEABLE: (YES) NO
WIND: Calm (Light Breeze) Gusty
WATERCOLOR: Colorless, Green, Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, (1 - 5 cfs), 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (SW)
SKY CODE: (Clear) Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: DSAHN_Irr6MPM_092209_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2501	-120.4100
*Actual:	37.25028	- 120.40967
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft) m): 40 FT.

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	22.49
Water Temp (Celsius):	22.38
SC (uS/cm):	26
DO (mg/L):	9.57
pH:	7.41
TDS:	0.017
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes (No)

Samples Collected	Analyte	Container	Number	Notes
535XDSAHN-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	Management Plan Sample
535XDSAHN-GR	Total Metals; Copper only	500-mL Plastic (w/HNO3)	1	Management Plan Sample
535XDSAHN-GR	Dissolved Copper, hardness (as CaCO3) **FILTERED**	500-mL Plastic (w/HNO3)	1	Management Plan Sample

September Management Plan Monitoring
Measure Field Results Too deep to take discharge

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FV 9/23/09 double checker: RW 9.24.09 Pg of Pgs

Station Name: Howard Lateral @ Hwy 140
StationID: 535XHLAHO
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 6 2009
Personnel: ~~FWulff, R. West~~ D. Corcoran ~~J. Swanson~~

DATE (mm/dd/yyyy): 09 22 2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) (WaterTox) (Habitat) (FieldMeasure)

Arrival Time: ~~1550~~ 1651
SAMPLE TIME: ~~1615~~ 1700
Departure Time: 17.32

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, (Thalweg) Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB) RB/ NA
STREAM WIDTH (ft / m): 4.5 WATER DEPTH (ft / m): 0.70
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: (US) DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.3079	-120.7820
*Actual:	~~37.41244~~	~~-120.75987~~
Difference:	~~87.30807~~	~~120.78193~~

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): ~~33~~ 30 FT.

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), (Cloudy) (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, (5 - 20 cfs), 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right XX → N, W, E, S
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: IN15
PICTURE NAME: HLAHO_Irr6NM_092209_N,S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	38.84
Water Temp (Celsius):	28.27
SC (uS/cm):	415
DO (mg/L):	9.60
pH:	9.15
TDS:	0.029
YSI Meter ID:	2
Stage:	
Calculated Site Discharge:	11.28

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XHLAHO-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XHLAHO-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XHLAHO-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHLAHO-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XHLAHO-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XHLAHO-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XHLAHO-GR	E. coli	100-mL Polyethylene	1	
535XHLAHO-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

MLJ LLC Discharge Field Sheet

Sampler: FW/CP
Date: 09/23/09
Site ID: ~~535 x HLA 140~~ 535 x HLA 140
Site Name: Howard Lateral @ Hwy 140

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	0.75	1.1	0.2 or 0.6	0.00	
			0.8 only		
2	1.5	1.9	0.2 or 0.6	0.25	
			0.8 only		
3	2.25	2.3	0.2 or 0.6	0.31	
			0.8 only		
4	3.0	2.7	0.2 or 0.6	0.95	
			0.8 only	0.49	
5	3.75	2.1	0.2 or 0.6	0.67	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 4.5
Right Edge Water (REW) 0
Start Time (24 hr):
End Time (24 hr):
Discharge (cfs): 11.28

Discharge calculated by (date and initials):
RW 9-23-09

Double checked by (date and initials):
FW 9/23/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) F-W 9/23/09 double checker: RW 9-24-09 Pg of Pgs

Station Name: Mootz Drain @ Langworth Rd
StationID: 535XMDALR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 6 2009
Personnel: F. Wulff, D. Corcoran

DATE (mm/dd/yyyy): 09/22/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 08:37
SAMPLE TIME: 09:30
Departure Time: 10:31

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOCK: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: MDLR_Irr6NM_092209_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.70582	-120.89303
*Actual:	37.70545	-120.89568
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 23

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	26.36
Water Temp (Celsius):	20.02
SC (uS/cm):	132
DO (mg/L):	5.62
pH:	6.76
TDS:	0.086
YSI Meter ID:	4
Stage:	
Calculated Site Discharge:	4.83

Samples Taken (# of Containers Filled) Field Dup: Yes / No

	Samples Collected	Analyte	Container	Number	Notes
✓	535XMDALR-GR 2345	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
✓	535XMDALR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	2	
✓	535XMDALR-GR	TOC	40-mL Glass Amber vial, set of 3	3	
✓	535XMDALR-GR 12345	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
✓	535XMDALR-GR	Total Metals	500-mL Plastic (w/HNO3)	2	
✓	535XMDALR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	Filtered sample
✓	535XMDALR-GR	E. coli	100-mL Polyethylene	1	
✓	535XMDALR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

QC Site: See reverse for list of samples to collect

QC Samples Collected	Analyte	Container	Number	Notes
1 2 3 4 5 535XMDALR-GR2	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR2	Total & Unionized Ammonia, Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-FB	Total & Unionized Ammonia, Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-GR2	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-FB	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-GR2	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-GR2	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-TB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-EB	Dissolved Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	E. coli	100-mL Polyethylene	1	
535XMDALR-GR2	E. coli	260-mL Polyethylene	1	
535XMDALR-GR2	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XMDALR-FB	Turbidity, TDS, TSS	2-L Plastic Jug	1	
1 2 3 4 5 535XMDALR-GR2	Pesticides	1-L Amber Glass	5	
1 2 3 4 5 535XMDALR-FB	Pesticides	1-L Amber Glass	5	
1 2 3 535XMDALR-MS	Pesticides	1-G Amber Glass	3	

MLJ LLC Discharge Field Sheet

Sampler: FW, JH
Date: 09/22/09
Site ID: 535XMDALR
Site Name: Moore drain @ Longworth

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): 3 ft
Water Depth (H): 1.6
Top of Sediment to Top of Culvert (S): 3 ft
Sed. Depth (D-S): 0
Velocity @ 0.2H: 1.36
Velocity @ 0.6H: 1.33
Velocity @ 0.8H: 0.88

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.8		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): 4.83

Discharge calculated by (date and initials):
RW 9-23-09

Double checked by (date and initials):
FW 9/23/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FW 9/23/09 double checker: RW 9-24-09 Pg of Pgs

Station Name: Prairie Flower Drain @ Crows Landing Rd
StationID: 535XPFDCL
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 6 2009
Personnel: F.Wu/FF, D. Corcoran

DATE (mm/dd/yyyy): 09/22/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 13:14
SAMPLE TIME: 13:30
Departure Time: 13:45

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: PFDCL_IrrGNM_092209_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4422	-121.0024
*Actual:	37.44180	-121.00340
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 17

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	31.69
Water Temp (Celsius):	24.72
SC (uS/cm):	~~772~~ 2171 (F.W.)
DO (mg/L):	15.72
pH:	7.86
TDS:	1.117
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	2.08

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
✓ 535XPFDCL-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
✓ 535XPFDCL-GR	TOC	40-mL Glass Amber vial, set of 3	1	
✓ 535XPFDCL-GR	E. coli	100-mL Polyethylene	1	
✓ 535XPFDCL-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Adminsitrative Record
Page 17612

MLJ LLC Discharge Field Sheet

Sampler: D Corcoran
Date: 9/22/09
Site ID: 535XPFTDCL
Site Name: Prairie Flower drain @ Crows Landing rd.

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): 2.08

Discharge calculated by (date and initials):
RW 9-23-09

Double checked by (date and initials):
FV 9/23/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): 2.8
Water Depth (H): 2.1
Top of Sediment to Top of Culvert (S): 2.4
Sed. Depth (D-S): 0.4
Velocity @ 0.2H: 0.43
Velocity @ 0.6H: 0.42
Velocity @ 0.8H: 0.32

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FV 9/23/09 Double checker: RW 9-24-09 Pg of Pgs

Station Name: Miles Creek @ Reilly Rd
StationID: 535XMCARR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 6 2009 MPM

DATE (mm/dd/yyyy): 09 22 2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 1220
SAMPLE TIME: 1240
Departure Time: 1310

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

Personnel: R. WEST J. SWANSON

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Geometry Data

	Lat (dd.ddddd)	Long (dd.ddddd)
*GPS/DGPS		
Target:	37.25821	-120.47546
*Actual:	37.25813	- 120.47548
Difference:		

GPS Model: MLJ-LLC Garmin eTrex Datum: NAD 83 Accuracy (ft / m): 37 FT.

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB) / RB/ NA
STREAM WIDTH (ft / m): 6.0 WATER DEPTH (ft / m): 0.12
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / (NA)

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: Calm, Light Breeze, (Gusty)
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1S 1N
PICTURE NAME: MCARR_Irr6MPM_092209_S,N
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	28.13
Water Temp (Celsius):	22.61
SC (uS/cm):	56
DO (mg/L):	6.35
pH:	8.01
TDS:	
YSI Meter ID:	#8
Stage:	
Calculated Site Discharge:	2.25

Samples Taken (# of Containers Filled) Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XMCARR-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	Management Plan Sample

September Management Plan Monitoring
Measure Field Results

MLJ LLC Discharge Field Sheet

Sampler: J.S.
Date: 9-22-09
Site ID: MCARR
Site Name: Miles Creek @ Reilly Rd.

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: ft/s (m/s)

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	0.3	0.4	0.2 or 0.6	0.26	
			0.8 only		
2	0.61	0.5	0.2 or 0.6	0.58	
			0.8 only		
3	0.92	0.4	0.2 or 0.6	0.95	
			0.8 only		
4	1.22	0.3	0.2 or 0.6	0.84	
			0.8 only		
5	1.53	0.3	0.2 or 0.6	0.40	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 6.10 *
Right Edge Water (REW) 0.10
Start Time (24 hr): 1300
End Time (24 hr): 1305

Discharge (cfs): 2.25

Discharge calculated by (date and initials): RW 9-23-09

Double checked by (date and initials): FV. 9/23/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____
Water Depth (H): _____
Top of Sediment to Top of Culvert (S): _____
Sed. Depth (D-S): _____
Velocity @ 0.2H: _____
Velocity @ 0.6H: _____
Velocity @ 0.8H: _____

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FW 9/23/09 double checker: RW 9/24/09 Pg of Pgs

Station Name: Dry Creek @ Wellsford Rd
StationID: 535XDCAWR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 6 2009
Personnel: F. Wulff, O. Corcoran

DATE (mm/dd/yyyy): 09/22/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 10:48
SAMPLE TIME: 11:00
Departure Time: 11:20

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel) Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB / (RB) / NA
STREAM WIDTH (ft / m): 8.3
WATER DEPTH (ft / m): 0.58
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / (NA)

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.6602	-120.8743
*Actual:	37.66062	-120.87541
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 31

Lab Chem/Tox Method=Water Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Dip bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble), Gravel, Sand, Mud, Unk., Other
WATER CLARITY: (Clear (see bottom)), (Cloudy (>4" vis)), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, Green, (Yellow), (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, (20 - 50 cfs, 50) 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 7E, 1W
PICTURE NAME: DCAWR_Irr6NM_092209_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, (None), Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	24.62
Water Temp (Celsius):	21.22
SC (uS/cm):	115
DO (mg/L):	7.25
pH:	7.76
TDS:	
YSI Meter ID:	4
Stage:	
Calculated Site Discharge:	42.20

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
✓ 535XDCAWR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
✓ 535XDCAWR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
✓ 535XDCAWR-GR	E. coli	100-mL Polyethylene	1	
✓ 535XDCAWR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Administrative Record
Page 17616

MLJ LLC Discharge Field Sheet

Sampler: D. Corcoran
Date: 9/22/09
Site ID: 535xOCAWR
Site Name: Dry Creek @ Wellsford Rd.

Method: wading / bridge
Meter: AMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.78	2.3	0.2 or 0.6	0.83	30 sec
			0.8 only		
2	2.76	1.7	0.2 or 0.6	1.16	
			0.8 only		
3	4.14	1.9	0.2 or 0.6	1.23	
			0.8 only		
4	5.52	2.0	0.2 or 0.6	1.12	
			0.8 only		
5	6.90	1.2	0.2 or 0.6	1.03	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0.40
Right Edge Water (REW) 8.70
Start Time (24 hr):
End Time (24 hr):
Discharge (cfs): 42.20

Discharge calculated by (date and initials):
RW 9-23-09

Double checked by (date and initials):
FV 9/23/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) F.W. 9/23/09 double checker: RW 9-24-09 Pg of Pgs

Station Name: Lateral 2 ½ Near Keyes Rd
StationID: 535LTHNKR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 6 2009
Personnel: F. Wulff D. Corcoran

DATE (mm/dd/yyyy): 09/22/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 11:59
SAMPLE TIME: 12:20
Departure Time: 12:49

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 3.2
WATER DEPTH (ft / m): 0.49
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.5478	-121.09274
*Actual:	37.54777	-121.08494
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 30

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Ladiv bottle by hand, Bar pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (4-4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: LTHNKR_IrrGWM_092209_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	28.18
Water Temp (Celsius):	24.08
SC (uS/cm):	198
DO (mg/L):	10.66
pH:	8.32
TDS:	0.129
YSI Meter ID:	~~#4~~
Stage:	
Calculated Site Discharge:	8.41

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
✓ 535LTHNKR-GR 12345	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
✓ 535LTHNKR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
✓ 535LTHNKR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
✓ 535LTHNKR-GR 12345	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
✓ 535LTHNKR-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
✓ 535LTHNKR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
✓ 535LTHNKR-GR	E. coli	100-mL Polyethylene	1	
✓ 535LTHNKR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Cleaning canal upstream of sample Location.

MLJ LLC Discharge Field Sheet

Sampler: R W / S
Date: 09/22/09
Site ID: S35LTHNKR
Site Name: Latura 2 Yr @ Keyes Rd

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.83	1.1	0.2 or 0.6	0.66	
			0.8 only		
2	2.36	1.6	0.2 or 0.6	0.81	
			0.8 only		
3	2.89	1.6	0.2 or 0.6	0.73	
			0.8 only		
4	3.42	1.5	0.2 or 0.6	0.97	
			0.8 only		
5	3.90	0.5	0.2 or 0.6		
			0.8 only	0.51 RW	
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 4.5
Right Edge Water (REW) 1.3 .53
Start Time (24 hr):
End Time (24 hr):
Discharge (cfs): 8.41

Discharge calculated by (date and initials):
RW 9-23-09

Double checked by (date and initials):
F.V. 9/23/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): FW 9/23/09 double checker: DW 9/24/09 Pg of Pgs

Station Name: Duck Slough @ Gurr Rd
StationID: 535XDSAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 6 2009
Personnel: R. West, J Swallow

DATE (mm/dd/yyyy): 09/22/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1435
SAMPLE TIME: FW 1450
Departure Time: 1515

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 4.7 WATER DEPTH (ft / m): 0.13
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2142	-120.5596
*Actual:	37.21452	-120.56068
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m):

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Inany bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs RCW
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: E, W PICTURE NAME: DSAGR_Irr6NM_092209_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1" None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	35.76
Water Temp (Celsius):	25.72
SC (uS/cm):	46
DO (mg/L):	8.41
pH:	9.03
TDS:	
YSI Meter ID:	2
Stage:	
Calculated Site Discharge:	1.73

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDSAGR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDSAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDSAGR-GR	E. coli	100-mL Polyethylene	1	
535XDSAGR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XDSAGR-GR	Carbamates: Carbofuran	1-L Amber Glass	2	

- Duck Slough is not flowing above Deun Drain.
- Floating algal mats everywhere.

MLJ LLC Discharge Field Sheet

Sampler: JS
Date: 9-23-09
Site ID: DSAGR
Site Name: Dicks Slough @ Sunset Rd

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	0.88	0.6	0.2 or 0.6	0.01	
			0.8 only		
2	1.68	0.5	0.2 or 0.6	0.28	
			0.8 only		
3	2.46	0.5	0.2 or 0.6	0.53	
			0.8 only		
4	3.24	0.5	0.2 or 0.6	0.53	
			0.8 only		
5	4.02	0.4	0.2 or 0.6	0	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 4.8
Right Edge Water (REW) 0.1
Start Time (24 hr): 1505
End Time (24 hr): 1513
Discharge (cfs): ~~0.~~ RW 1.73

Discharge calculated by (date and initials): RW 9-23-09

Double checked by (date and initials): F.V. 9/23/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____
Water Depth (H): _____
Top of Sediment to Top of Culvert (S): _____
Sed. Depth (D-S): _____
Velocity @ 0.2H: _____
Velocity @ 0.6H: _____
Velocity @ 0.8H: _____

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) FV 9/23/09 double checker: RW 9-24-09 Pg of Pgs

Station Name: Deadman Creek @ Gurr Rd
StationID: 535XDCAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Irrigation 6 2009

DATE (mm/dd/yyyy): 09 22 2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1325
SAMPLE TIME: 1340
Departure Time: 1430

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

Personnel: R. WEST J. SWANSON

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-In, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): 7.4
WATER DEPTH (ft / m): 0.79
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.1936	-120.5612
*Actual:	37.19495	-120.56111
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 24 FT.

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E 1W
PICTURE NAME: OCAGR_Irr6NM_092209_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	24.28
Water Temp (Celsius):	24.84
SC (uS/cm):	84
DO (mg/L):	7.26
pH:	7.88
TDS:	0.060
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	5.30

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAGR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XDCAGR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDCAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAGR-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XDCAGR-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XDCAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDCAGR-GR	E. coli	100-mL Polyethylene	1	
535XDCAGR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

MLJ LLC Discharge Field Sheet

Sampler: R. WEST
Date: 9-22-09
Site ID: 535 x DCAGR
Site Name: DEADMAN CREEK AT GURR RD.

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) / m/s

	Interval Midpoint (meters or feet)	Interval Depth (meters or feet)	Velocity		Duration
1	1.2	1.7	0.2 or 0.6	0	
			0.8 only		
2	2.4	2.2	0.2 or 0.6	0.6	
			0.8 only		
3	2.36	2.6	0.2 or 0.6	0.01	
			0.8 only		
4	4.8	2.0	0.2 or 0.6	0	
			0.8 only		
5	6.0	1.5	0.2 or 0.6	0	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

9-22-09

Left Edge Water (LEW): 7.6 m
Right Edge Water (REW): 0.2
Start Time (24 hr): 1415
End Time (24 hr): 1421

Discharge (cfs): 5.30

Discharge calculated by (date and initials): RW 9.23-09

Double checked by (date and initials): F.V. 9/23/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____
Water Depth (H): _____
Top of Sediment to Top of Culvert (S): _____
Sed. Depth (D-S): _____
Velocity @ 0.2H: _____
Velocity @ 0.6H: _____
Velocity @ 0.8H: _____

East San Joaquin Water Quality Coalition

Fall 1 NM
Field Sheets

2009 October 20

Adminsitrative Record
Page 17624

Meter Calibration Log

Team 1

Team 1 members: F. Wulff, K. Story
Primary multiparameter meter ID: #2
Backup multiparameter meter ID: #1
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07A1894AF
Serial number: 07A1894AE
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	3.88 RW	3.96	4.01 RW	4.00	10-19-09	RW
pH 7	6.85	7.02	7.00	7.00	10-19-09	RW
pH 10	10.08	10.05	10.01	10.01	10-19-09	RW
1413 µS/cm	1373	1400	1413	14.13	10-19-09	RW
pH 4	4.07	4.08	4.00	4.00	10-21-09	RW
pH 7	6.92	6.96	7.00	7.00	10-21-09	RW
pH 10	10.09	10.15	10.01	10.02	10-21-09	RW
1413 µS/cm	1411	1407	1413	1413	10-21-09	RW

Team 2

Team 2 members: R. West, J. Swanson
Primary multiparameter meter ID: #4
Backup multiparameter meter ID: #3
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07K101586
Serial number: 07K109587
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	4.03	3.96	4.00	4.00	10-19-09	RW
pH 7	7.02	7.08	7.00	7.00	10-19-09	RW
pH 10	10.02	10.11	10.00	10.02	10-19-09	RW
1413 µS/cm	1358	1373	1413	1413	10-19-09	RW
pH 4	3.83	4.01	4.00	4.00	10-21-09	RW
pH 7	7.03	7.05	7.00	7.00	10-21-09	RW
pH 10	9.90	9.87	9.99	9.98	10-21-09	RW
1413 µS/cm	1406	1411	1413	1413	10-21-09	RW

Administrative Record
Page 17625

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 10.21.09 double checker: FW 10/22/09 Pg of Pgs

Station Name: Ash Slough @ Ave 21
StationID: 545XASAAT
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2009
Personnel: J. SWANSON, R. WEST

DATE (mm/dd/yyyy): 10/20/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1040
SAMPLE TIME:
Departure Time: 1045

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER:
PICTURE NAME: ASAAT_Fall1NM_102009_N,S 1N 1S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.0545	-120.4158
*Actual:	37.05448	-120.41572
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 25 FT.

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XASAAT-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
545XASAAT-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
545XASAAT-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XASAAT-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
545XASAAT-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
545XASAAT-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
545XASAAT-GR	E. coli	100-mL Polyethylene	1	
545XASAAT-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

DRY SITE

Administrative Record
Page 17626

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RWS 10.21.09 double checker: FW 10/22/09 Pg of Pgs

Station Name: Deadman Creek @ Gurr Rd
StationID: 535XDCAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2009
Personnel: J. Swanson, R. West

DATE (mm/dd/yyyy): 10/20/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) (WaterTox) (Habitat) (FieldMeasure)

Arrival Time: 1110
SAMPLE TIME: 1130
Departure Time: 1200

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in) Bridge, Other
STARTING BANK: (LB) RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge) Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US (DS) NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: (Indiv bottle by hand) By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None) Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud) Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), (Murky (<4" vis))
WADEABLE: (YES) / NO
WIND: (Calm) (Light Breeze) Gusty
WATERCOLOR: Colorless, Green, (Yellow) (Brown) Other
OBSERVED FLOW: NA, Dry Waterbody Bed, (No Observed Flow), Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N) (W) (E) (S)
SKY CODE: Clear, (Partly Cloudy), Overcast, Fog, Hazy
PICTURE NUMBER:
PICTURE NAME: 1E 1W DCAGR_Fall1NM_102009_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: (Vascular) Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.1936	-120.5612
*Actual:	37.19490	- 120.56110
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft) m): 90 FT.

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	14.82
Water Temp (Celsius):	17.93
SC (uS/cm):	58
DO (mg/L):	6.08
pH:	7.30
TDS:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAGR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XDCAGR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDCAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAGR-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XDCAGR-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XDCAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDCAGR-GR	E. coli	100-mL Polyethylene	1	
535XDCAGR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

No Flow

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): RW 10-21-09 double checker: FW 10/22/09 Pg of Pgs

Station Name: Highline Canal @ Hwy 99
StationID: 535XHCHNN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2009
Personnel: J. SWANSON, R. WEST

DATE (mm/dd/yyyy): 10-20-09
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 1455
SAMPLE TIME: 1510
Departure Time:

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, (Near Bank), Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB) / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge), Pipes, (Concrete Channel), Grade Control, Culvert, Other
HYDROMODLOC: (US) / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: (Concrete), Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), (Cloudy (>4" vis)), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, (Green), (Yellow), (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, (>200cfs)
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: (Clear), (Partly Cloudy), Overcast, Fog, Hazy
PICTURE NUMBER:
PICTURE NAME: HCHNN_Fall1NM_102009_E/W 1E 1W
PRECIPITATION (last 24 hrs): Unknown, <1", (>1"), None
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4153	-120.7557
*Actual:	37.41241	- 120.75977
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 20 FT.

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	19.79
Water Temp (Celsius):	18.41
SC (uS/cm):	32
DO (mg/L):	9.63
pH:	7.01
TDS:	
YSI Meter ID:	4
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XHCHNN-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XHCHNN-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHCHNN-GR	E. coli	100-mL Polyethylene	1	
535XHCHNN-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 10.21.09 double checker: FW 10/22/09 Pg of Pgs

Station Name: Mootz Drain @ Langworth Rd
StationID: 535XMDALR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2009
Personnel: F. Wulff, K. Story

DATE (mm/dd/yyyy): 10/20/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem, WaterTox, Habitat, FieldMeasure

Arrival Time: 08:11
SAMPLE TIME: 09:00
Departure Time: 10:40

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control (DS), Culvert (US), Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: #1 E #2 W
PICTURE NAME: MOALR_Fall1NM_102009_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.70582	-120.89303
*Actual:	37.70543	-120.89449
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (fty m): 23 ft.

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	15.11
Water Temp (Celsius):	15.00
SC (uS/cm):	213
DO (mg/L):	6.35
pH:	8.28
TDS:	0.138
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMDDLP-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDDLP-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	2	
535XMDDLP-GR	TOC	40-mL Glass Amber vial, set of 3	3	
535XMDDLP-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XMDDLP-GR	Total Metals	500-mL Plastic (w/HNO3)	2	
535XMDDLP-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	Filtered sample
535XMDDLP-GR	E. coli	100-mL Polyethylene	1	
535XMDDLP-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

QC Site: See reverse for list of samples to collect

Non-contiguous flow

Administrative Record
Page 17629

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 10-21-09 double checker: FW 10/22/09 Pg of Pgs

Station Name: Mustang Creek @ East Ave
StationID: 535XMCAEA
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2009
Personnel: F. Wulff, K. Story

DATE (mm/dd/yyyy): 10/20/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) (WaterTox) (Habitat) (FieldMeasure)

Arrival Time: [illegible] 14:52
SAMPLE TIME: [illegible] 15:20
Departure Time: 15:47

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB) / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / (DS) / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4918	-120.6839
*Actual:	37.49188	-120.68508
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 23 ft.

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), (Cloudy (>4" vis)), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, (Green), Yellow/Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, (Isolated Pool), 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: Clear, (Partly Cloudy), Overcast, Fog, Hazy
PICTURE NUMBER: (N), (S)
PICTURE NAME: MCAEA_Fall1NM_102009_N,S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	20.68
Water Temp (Celsius):	14.78
SC (uS/cm):	870
DO (mg/L):	2.95
pH:	7.60
TDS:	
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XMCAEA-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMCAEA-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMCAEA-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMCAEA-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XMCAEA-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMCAEA-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMCAEA-GR	E. coli	100-mL Polyethylene	1	
535XMCAEA-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 10-21-09 double checker: FW 10/22/09 Pg of Pgs

Station Name: Merced River @ Santa Fe
StationID: 535XMRSFD
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2009
Personnel: F. Wulff, K. Story

DATE (mm/dd/yyyy): 10/20/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 15:40
SAMPLE TIME: 15:50
Departure Time: 16:15

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4271	-120.6721
*Actual:	37.42496	- 120.67282
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 15 ft

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: MRSFD_Fall1NM_102009_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	19.97
Water Temp (Celsius):	18.54
SC (uS/cm):	38
DO (mg/L):	4.82
pH:	6.89
TDS:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	141

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMRSFD-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMRSFD-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMRSFD-GR	Total Metals: Copper only	500-mL Plastic (w/HNO3)	1	
535XMRSFD-GR	Dissolved Metals, hardness (as CaCO3): Copper only	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMRSFD-GR	E. coli	100-mL Polyethylene	1	
535XMRSFD-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Retrieve discharge information from CDEC

Administrative Record
Page 17631

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) RW 10-21-09 double checker: FW 10/22/09 Pg of Pgs

Station Name: Prairie Flower Drain @ Crows Landing Rd
StationID: 535XPFDCL
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2009
Personnel: F. Wulff, K. Story

DATE (mm/dd/yyyy): 10/20/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 13:36
SAMPLE TIME: 14:00
Departure Time: 14:07

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB / (RB) / NA
STREAM WIDTH (ft / m): 4.1 **WATER DEPTH (ft / m):** 0.24
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, (Culvert), Other
HYDROMODLOC: US / (DS) / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4422	-121.0024
*Actual:	37.44183	- 121.00343
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 28 ft.

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud), Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: Calm, Light Breeze, (Gusty)
WATERCOLOR: Colorless, Green, (Yellow), Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, (1 - 5 cfs), 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: Clear, (Partly Cloudy), Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W **PICTURE NAME:** PFDCL_Fall1NM_102009_E,W
PRECIPITATION (last 24 hrs): Unknown, (<1"), >1", None
OTHER PRESENCE: Vascular, (Nonvascular), OilySheen, Foam, Trash, None, Other

Field Results
SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	19.51
Water Temp (Celsius):	19.50
SC (uS/cm):	2459
DO (mg/L):	13.52
pH:	8.50
TDS:	1.599
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	0.72

Samples Taken (# of Containers Filled) Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XPFDCL-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XPFDCL-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XPFDCL-GR	E. coli	100-mL Polyethylene	1	
535XPFDCL-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Administrative Record
Page 17632

MLJ LLC Discharge Field Sheet

Sampler: F. Wulff
Date: 10/20/2009
Site ID: 535 XPF DCL
Site Name: Prairie Flower Drain @ Crows Landing Rd.

Method: (wading) / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or (feet)	Interval Depth meters or (feet)	Velocity		Duration
1	.69	.7	0.2 or 0.6	0.01	
			0.8 only		
2	1.38	1.8	0.2 or 0.6	0.12	
			0.8 only		
3	2.07	.8	0.2 or 0.6	0.15	
			0.8 only		
4	2.76	.8	0.2 or 0.6	0.12	
			0.8 only		
5	3.65	.7	0.2 or 0.6	-0.2	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0.0

Right Edge Water (REW) 4.1

Start Time (24 hr):

End Time (24 hr):

Discharge (cfs): 0.72

Discharge calculated by (date and initials):
F.W 10/21/09

Double checked by (date and initials):
RW 10.21.09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):

Water Depth (H):

Top of Sediment to Top of Culvert (S):

Sed. Depth (D-S):

Velocity @ 0.2H:

Velocity @ 0.6H:

Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 10-21-09 double checker: FW 10/22/09 Pg of Pgs

Station Name: Lateral 2 ½ Near Keyes Rd
StationID: 535LTHNKR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2009
Personnel: F. Wulff, K. Story

DATE (mm/dd/yyyy): 10/20/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 12:16
SAMPLE TIME: 12:40
Departure Time: 13:12

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 2.45 WATER DEPTH (ft / m): 0.43
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: LTHNKR_Fall1NM_102009_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.5478	-121.09274
*Actual:	37.54766	-121.08491
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 23ft.

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	18.87
Water Temp (Celsius):	19.67
SC (uS/cm):	36
DO (mg/L):	8.87
pH:	8.68
TDS:	.023
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	13.53

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535LTHNKR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535LTHNKR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535LTHNKR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535LTHNKR-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535LTHNKR-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535LTHNKR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535LTHNKR-GR	E. coli	100-mL Polyethylene	1	
535LTHNKR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Administrative Record
Page 17634

MLJ LLC Discharge Field Sheet

Sampler: F. Wulff
Date: 10/20/2009
Site ID: 535 LTHNKR
Site Name: Lateral 2½ Near Keyes Rd

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.31	.9	0.2 or 0.6	1.56	
			0.8 only		
2	1.72	1.2	0.2 or 0.6	1.82	
			0.8 only		
3	2.13	1.4	0.2 or 0.6	1.60	
			0.8 only		
4	2.54	1.5	0.2 or 0.6	1.82	
			0.8 only		
5	2.95	.9	0.2 or 0.6	1.69	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) .9 m
Right Edge Water (REW) 3.35 m
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 13.53

Discharge calculated by (date and initials):
F.W. 10/21/09

Double checked by (date and initials):
RW 10.21.09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 10.21.09 double checker: FW 10/22/09 Pg of Pgs

Station Name: Howard Lateral @ Hwy 140
StationID: 535XHLAHO
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2009
Personnel: J. Swanson, R. West

DATE (mm/dd/yyyy): 10-20-09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1330
SAMPLE TIME: 1350
Departure Time: 1435

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 3.60
WATER DEPTH (ft / m): 0.49
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.3079	-120.7820
*Actual:	37.30780	-120.78212
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 20

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER:
PICTURE NAME: HLAHO_Fall1NM_102009_N,S,2S 1N 1S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	18.81
Water Temp (Celsius):	17.22
SC (uS/cm):	43
DO (mg/L):	8.78
pH:	7.27
TDS:	
YSI Meter ID:	4
Stage:	
Calculated Site Discharge:	2.37

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHLAHO-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XHLAHO-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XHLAHO-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHLAHO-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XHLAHO-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XHLAHO-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XHLAHO-GR	E. coli	100-mL Polyethylene	1	
535XHLAHO-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

MLJ LLC Discharge Field Sheet

Sampler: JSwanson
Date: 10-20-09
Site ID: HLAH0
Site Name: Howard Lateral @ Hwy 140

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	0.60	0.30	0.2 or 0.6	0.02	
			0.8 only		
2	1.20	1.00	0.2 or 0.6	0.07	
			0.8 only		
3	1.80	1.60	0.2 or 0.6	0.21	
			0.8 only		
4	2.40	1.80	0.2 or 0.6	0.24	
			0.8 only		
5	3.00	1.60	0.2 or 0.6	0.17	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 4.0
Right Edge Water (REW) 0.4
Start Time (24 hr): 1420
End Time (24 hr): 1430

Discharge (cfs): 2.37

Discharge calculated by (date and initials):
F.W. 10/21/09

Double checked by (date and initials):
RW 10/22-09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____
Water Depth (H): _____
Top of Sediment to Top of Culvert (S): _____
Sed. Depth (D-S): _____
Velocity @ 0.2H: _____
Velocity @ 0.6H: _____
Velocity @ 0.8H: _____

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 10-21-09 double checker: FW 10/22/09 Pg of Pgs

Station Name: Duck Slough @ Gurr Rd
StationID: 535XDSAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2009
Personnel: J. Swanson, R. West

DATE (mm/dd/yyyy): 10/20/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 1210
SAMPLE TIME: 1230
Departure Time: 1250

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB (RB) NA
STREAM WIDTH (ft / m): 4.70
WATER DEPTH (ft / m): 0.18
HYDRO-MODIFICATION: None (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: (US) / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2142	-120.5596
*Actual:	37.21432	- 120.56081
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 60 FT.

Lab Chem/Tox Method=Water Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble), Gravel, Sand, Mud, Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, (5 - 20 cfs), 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, E, S, W)
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER:
PICTURE NAME: DSAGR_Fall2NM_102009 1E, 1W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, (Trash), None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	16.14
Water Temp (Celsius):	18.10
SC (uS/cm):	42
DO (mg/L):	8.40
pH:	7.40
TDS:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	1.72

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDSAGR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDSAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDSAGR-GR	E. coli	100-mL Polyethylene	1	
535XDSAGR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XDSAGR-GR	Carbamates: Carbofuran	1-L Amber Glass	2	

MLJ LLC Discharge Field Sheet

Sampler: J. Swanson
Date: 10-20-09
Site ID: DSAGR
Site Name: Duck Slough @ Gurr Rd.

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) / m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	0.80	0.20	0.2 or 0.6	0	
			0.8 only		
2	1.60	0.50	0.2 or 0.6	0	
			0.8 only		
3	2.40	0.60	0.2 or 0.6	0.52	
			0.8 only		
4	3.20	0.40	0.2 or 0.6	0.55	
			0.8 only		
5	4.00	0.40	0.2 or 0.6	0.25	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW): 5.20
Right Edge Water (REW): 0.50
Start Time (24 hr): 1235
End Time (24 hr): 1255

Discharge (cfs): 1.72

Discharge calculated by (date and initials):
F.W. 10/21/09

Double checked by (date and initials):
RW 10-21-09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

.78 = .80
64.70
42
50
48

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 10-21-09 double checker: FW 10/22/09 Pg of Pgs

Station Name: Dry Creek @ Wellsford Rd
StationID: 535XDCAWR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2009
Personnel: F. Wulff, K. Story

DATE (mm/dd/yyyy): 10/20/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 10:49
SAMPLE TIME: 11:10
Departure Time: 11:35

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in) Bridge, Other
STARTING BANK: LB / (RB) / NA
STREAM WIDTH (ft / m): 5.15 WATER DEPTH (ft / m): 0.18
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / (DS) / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: (Indiv bottle by hand) By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None) Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble), Gravel, Sand, Mud, Unk., Other
WATER CLARITY: (Clear (see bottom)) Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, Green, Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, (1 - 5 cfs), 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: Clear, (Partly Cloudy), Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: DCAWR_Fall1NM_102009_E,W
PRECIPITATION (last 24 hrs): Unknown, (<1"), >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, (None), Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.6602	-120.8743
*Actual:	37.66016	- 120.87547
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 24 ft.

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	16.04
Water Temp (Celsius):	15.11
SC (uS/cm):	215
DO (mg/L):	4.04
pH:	7.51
TDS:	0.140
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	0.84

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDCAWR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDCAWR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAWR-GR	E. coli	100-mL Polyethylene	1	
535XDCAWR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

MLJ LLC Discharge Field Sheet

Sampler: K. Storey
Date: 10/20/09
Site ID: 533XDCAWR
Site Name: Dry Creek @ Wellsford Rd.

Method: wading / bridge
Meter: MMB / other
Meter Units: f/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	0.86	0.25	0.2 or 0.6	0.05	30 sec
			0.8 only		
2	1.72	0.35	0.2 or 0.6	0.11	
			0.8 only		
3	2.58	0.60	0.2 or 0.6	0.23	
			0.8 only		
4	3.44	0.55	0.2 or 0.6	0.17	
			0.8 only		
5	4.30	0.20	0.2 or 0.6	0.07	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0
Right Edge Water (REW) 5.15
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 0.84

Discharge calculated by (date and initials):
F.W. 10/21/09

Double checked by (date and initials):
RW 10.21.09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RWS 10-21-09 double checker: FW 10/22/09 Pg of Pgs

Station Name: Cottonwood Creek @ Rd 20
StationID: 545XCCART
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 1 2009
Personnel: J. SWANSON R. West

DATE (mm/dd/yyyy): 10/20/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) (WaterTox) (Habitat) (FieldMeasure)

Arrival Time: 0916
SAMPLE TIME: 0930
Departure Time: 0950

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, (Near Bank), Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB) RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: (US) / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, (Gravel), (Sand), Mud, Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), (Light Breeze), Gusty
WATERCOLOR: (Colorless), Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs (RCW) < 1cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: (Clear), (Partly Cloudy), (Overcast), (Fog), (Hazy)
PICTURE NUMBER:
PICTURE NAME: CCART_Fall1NM_102009_W,E 1E 1W
PRECIPITATION (last 24 hrs): Unknown, (<1"), >1", None
OTHER PRESENCE: (Vascular), (Nonvascular), (OilySheen), (Foam), (Trash), (None), (Other) Sandbar

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	36.8686	-120.1818
*Actual:	36.86861	- 120.18303
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 45 FT,

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	15.92
Water Temp (Celsius):	15.00
SC (uS/cm):	41
DO (mg/L):	7.99
pH:	7.36
TDS:	-
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
545XCCART-GR	Tox tests: Acute FH Minnow, Chronic Selenastrum	1-Gal Amber Glass	4	
545XCCART-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
545XCCART-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XCCART-GR	E. coli	100-mL Polyethylene	1	
545XCCART-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
545XCCART-GR	Herbicides: Simazine, Cyanizine	1-L Amber Glass	2	

* water too low flow to get discharge

East San Joaquin Water Quality Coalition

Fall 2 NM & MPM
Field Sheets

2009 November 17

Adminsitrative Record
Page 17643

Meter Calibration Log

Team 1

Team 1 members: F. Wulff, D. Corcoran
Primary multiparameter meter ID: #2
Backup multiparameter meter ID: #1
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07A1894AF
Serial number: 07A1894AE
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	3.97	3.87	4.00	4.00	11-16-09	RW
pH 7	6.75	7.05	7.00	7.00	11-16-09	RW
pH 10	9.87	9.92	9.97	9.99	11-16-09	RW
1413 µS/cm	1401	1419	1413	1413	11-16-09	RW
pH 4	4.01	4.10	4.00	4.00	11-18-09	RW
pH 7	7.35	6.95	7.00	7.00	11-18-09	RW
pH 10	9.84	10.08	9.97	10.01	11-18-09	RW
1413 µS/cm	1408	1400	1413	1413	11-18-09	RW

Team 2

Team 2 members: R. West, J. Swanson
Primary multiparameter meter ID: #4
Backup multiparameter meter ID: #3
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07K101586
Serial number: 07K101587
Serial number:
Serial number:
Serial number:

Discharge Meter: Marsh-McBirney FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	3.95	4.06	4.00	4.00	11-16-09	RW
pH 7	7.03	6.95	7.00	6.99	11-16-09	RW
pH 10	10.04	9.98 RW	10.00	10.00	11-16-09	RW
1413 µS/cm	1414	1399 RW	1413	1413	11-16-09	RW
pH 4	4.08	4.04	4.00	4.00	11-18-09	RW
pH 7	7.00	6.92	7.00	6.99	11-18-09	RW
pH 10	10.08	10.16	10.01	10.03	11-18-09	RW
1413 µS/cm	1427	1380	1413	1413	11-18-09	RW

Administrative Record
Page 17644

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 11-18-09 double checker: F.V. 11/19/09 Pg of Pgs

Station Name: Howard Lateral @ Hwy 140
StationID: 535XHLAHO
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2009
Personnel: F Wolfe, D. Corcoran

DATE (mm/dd/yyyy): 11/17/09
PurposeFailure: site dry.
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 12:37
SAMPLE TIME:
Departure Time: 1240

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.3079	-120.7820
*Actual:	37.30702	-120.78208
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 19 ft

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud), Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, (Dry Waterbody Bed), No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1S
PICTURE NAME: HLAHO_Fall2_111709_N,S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHLAHO-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XHLAHO-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XHLAHO-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHLAHO-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XHLAHO-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XHLAHO-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XHLAHO-GR	E. coli	100-mL Polyethylene	1	
535XHLAHO-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

dry site

Administrative Record
Page 17645

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 11-18-09 double checker: FW 11/19/09 Pg of Pgs

Station Name: Highline Canal @ Hwy 99
StationID: 535XHCHNN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2009
Personnel: F Wulff D. Worcester

DATE (mm/dd/yyyy): 11/17/09
PurposeFailure: dry site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 13:09
SAMPLE TIME:
Departure Time: 13:30

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4153	-120.7557
*Actual:	37.41249	-120.7594
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 19

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1 E 1 W
PICTURE NAME: HCHNN_Fall2_111709_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHCHNN-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XHCHNN-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHCHNN-GR	E. coli	100-mL Polyethylene	1	
535XHCHNN-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Dry SITE

Administrative Record
Page 17646

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 11-18-09 double checker: FW 11/19/09 Pg 1 of 1 Pgs

Station Name: Lateral 2 ½ Near Keyes Rd
StationID: 535LTHNKR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2009

DATE (mm/dd/yyyy): 11/17/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1330
SAMPLE TIME: N/A
Departure Time: 1340

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

Personnel: R. WEST J. SWANSON

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.5478	-121.09274
*Actual:	37.54747	-121.08522
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 27

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER:
PICTURE NAME: 1E 1W LTHNKR_Fall2_111709_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535LTHNKR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535LTHNKR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535LTHNKR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535LTHNKR-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535LTHNKR-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535LTHNKR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535LTHNKR-GR	E. coli	100-mL Polyethylene	1	
535LTHNKR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

DRY SITE

Administrative Record
Page 17647

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 11-18-09 double checker: FW 11/19/09 Pg of Pgs

Station Name: Ash Slough @ Ave 21
StationID: 545XASAAT
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2009
Personnel: F. WulFF, D. Corcoran

DATE (mm/dd/yyyy): 11/17/2009
PurposeFailure: Dry Site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 10:33
SAMPLE TIME:
Departure Time: 10:40

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.0545	-120.4158
*Actual:	37.05492	-120.41594
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 20

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1NE, 1S
PICTURE NAME: ASAAT_Fall2_111709_NG,S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
545XASAAT-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
545XASAAT-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
545XASAAT-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XASAAT-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
545XASAAT-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
545XASAAT-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
545XASAAT-GR	E. coli	100-mL Polyethylene	1	
545XASAAT-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

DRY SITE

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 11-18-09 double checker: FW 11/19/09 Pg of Pgs

Station Name: Mustang Creek @ East Ave
StationID: 535XMCAEA
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2009
Personnel: F. Wulff, D. Corcoran

DATE (mm/dd/yyyy): 11/17/2009
PurposeFailure: Dry Site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 13:45
SAMPLE TIME:
Departure Time: 13:50

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4918	-120.6839
*Actual:	37.4920	-120.6841
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 23

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N, W, E, S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 15, 1NE
PICTURE NAME: MCAEA_Fall2_111709_N6,S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMCAEA-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMCAEA-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMCAEA-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMCAEA-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XMCAEA-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMCAEA-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMCAEA-GR	E. coli	100-mL Polyethylene	1	
535XMCAEA-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Dry SITE

Administrative Record
Page 17649

Administrative Record
Page 17650

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 11-18-09 double checker: FV 11/19/09 Pg of Pgs

Station Name: Dry Creek @ Oakdale Rd
StationID: 535DCAORD
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2009 MPM
Personnel: F. Wulff, D. Corcoran

DATE (mm/dd/yyyy): 11/17/2009
PurposeFailure: Dry Site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 13:54
SAMPLE TIME:
Departure Time: 14:07

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.46047	-120.6153
*Actual:	37.43943	-120.6138
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 42

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: IN, IS
PICTURE NAME: DCAORD_Fall2_111709_N.S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535DCAORD-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	Management Plan Sample

November Management Plan Monitoring
Measure Field Results

DRY SITE

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 11-18-09 double checker: F.W. 11/19/09 Pg 1 of Pgs

Station Name: Mootz Drain @ Langworth Rd
StationID: 535XMDALR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2009
Personnel: R. WEST J. SWANSON

DATE (mm/dd/yyyy): 11/17/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) (WaterTox) (Habitat) (FieldMeasure)

Arrival Time: 0830
SAMPLE TIME: 0930
Departure Time: 1140

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB) / RB / NA F.W.
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, (Grade Control), Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud), Unk., Other
WATER CLARITY: Clear (see bottom), (Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES), NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, Green, (Yellow), Brown, Other RW
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E 1W
PICTURE NAME: RW ~~1E 1W~~ MDALR_Fall2_111709_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, (None), Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.70582	-120.89303
*Actual:	37.70543	-120.89491
Difference:		

GPS Model: (MLJ-LLC Garmin eTrex)
Datum: NAD 83
Accuracy (ft) / m): 50 FT.

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	10.70
Water Temp (Celsius):	8.10
SC (uS/cm):	269
DO (mg/L):	4.98
pH:	7.19
TDS:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XMDDLP-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDDLP-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	2	
535XMDDLP-GR	TOC	40-mL Glass Amber vial, set of 3	3	
535XMDDLP-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XMDDLP-GR	Total Metals	500-mL Plastic (w/HNO3)	2	
535XMDDLP-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	Filtered sample
535XMDDLP-GR	E. coli	100-mL Polyethylene	1	
535XMDDLP-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

QC Site: See reverse for list of samples to collect

Non contiguous water body

QC Samples Collected	Analyte	Container	Number	Notes
535XMDALR-GR2	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDALR-GR2	Total & Unionized Ammonia, Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-FB	Total & Unionized Ammonia, Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMDALR-GR2	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-FB	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDALR-GR2	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-GR2	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	
535XMDALR-TB	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-EB	Dissolved Metals	500-mL Plastic (w/HNO3)	1	
535XMDALR-FB	E. coli	100-mL Polyethylene	1	
535XMDALR-GR2	E. coli	260-mL Polyethylene	1	
535XMDALR-GR2	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XMDALR-FB	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XMDALR-GR2	Pesticides	1-L Amber Glass	5	
535XMDALR-FB	Pesticides	1-L Amber Glass	5	
535XMDALR-MS	Pesticides	1-G Amber Glass	3	

MLJ LLC Discharge Field Sheet

Sampler: _____

Date: _____

Site ID: _____

Site Name: _____

Method: wading / bridge

Meter: MMB / other

Meter Units: ft/s m/s

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____

Water Depth (H): _____

Top of Sediment to Top of Culvert (S): _____

Sed. Depth (D-S): _____

Velocity @ 0.2H: _____

Velocity @ 0.6H: _____

Velocity @ 0.8H: _____

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.8		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): _____

Discharge calculated by (date and initials):

_____

Double checked by (date and initials):

_____

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 11-18-09 double checker: FW 11/19/09 Pg of Pgs

Station Name: Deadman Creek @ Gurr Rd
StationID: 535XDCAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2009
Personnel: F. Wulff, D. Corcoran

DATE (mm/dd/yyyy): 11/17/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox Habitat FieldMeasure

Arrival Time: 11:00
SAMPLE TIME: 11:20
Departure Time: 11:43

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in) Bridge, Other
STARTING BANK: (LB) / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge) Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: (US) / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None) Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, (Mud), Unk., Other
WATER CLARITY: Clear (see bottom), (Cloudy) (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, (0.1 - 1cfs), 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs W→E
WIND DIRECTION (from): circle direction in compass at right (X) →
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 2E,W
PICTURE NAME: DCAGR_Fall2_111709_E,W.
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, (None), Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.1936	-120.5612
*Actual:	37.19499	-120.56134
Difference:		

GPS Model: (MLJ-LLC Garmin eTrex) Datum: NAD 83
Accuracy (ft / m): 42

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	18.66
Water Temp (Celsius):	9.92
SC (uS/cm):	456
DO (mg/L):	12.45
pH:	8.37
TDS:	0.296
YSI Meter ID:	2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDCAGR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XDCAGR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDCAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAGR-GR	Carbamates, OPs, Herbicides	1-L Amber Glass	5	
535XDCAGR-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XDCAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDCAGR-GR	E. coli	100-mL Polyethylene	1	
535XDCAGR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Flow from W → E, opposite direction of normal flow. Non contiguous downstream.

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): FW 11-18-09 double checker: F.W. 11/19/09 Pg of Pgs

Station Name: Duck Slough @ Gurr Rd
StationID: 535XDSAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2009
Personnel: F. Wulff D Gorman

DATE (mm/dd/yyyy): 11/17/09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 11:50
SAMPLE TIME: 12:10
Departure Time: 12:15

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB/ RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2142	-120.5596
*Actual:	37.2148	-120.5607
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 37

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other FW
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right XX →
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1W 2E, 1N
PICTURE NAME: DSAGR_Fall2_111709_N,E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	20.32
Water Temp (Celsius):	12.22
SC (uS/cm):	RN
DO (mg/L):	9.55
pH:	8.27
TDS:	0.094
YSI Meter ID:	2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDSAGR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDSAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDSAGR-GR	E. coli	100-mL Polyethylene	1	
535XDSAGR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XDSAGR-GR	Carbamates: Carbofuran	1-L Amber Glass	2	

Non contiguous water body

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 11-18-09 double checker: FW 11/19/09 Pg 1 of 1 Pgs

Station Name: Prairie Flower Drain @ Crows Landing Rd
StationID: 535XPFDCL
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2009

DATE (mm/dd/yyyy): 11/17/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1400
SAMPLE TIME: 1420
Departure Time: 1440

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

Personnel: R. WEST J. SWANSON

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4422	-121.0024
*Actual:	37.44183	-121.00340
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 21

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: PFDCL_Fall2_111709_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	19.04
Water Temp (Celsius):	12.30
SC (uS/cm):	2415
DO (mg/L):	16.30
pH:	7.66
TDS:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XPFDCL-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XPFDCL-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XPFDCL-GR	E. coli	100-mL Polyethylene	1	
535XPFDCL-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

No Flow visible

Administrative Record
Page 17655

Administrative Record
Page 17656

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 11-18-09 double checker: FW 11/19/09 Pg 1 of 1 Pgs

Station Name: Dry Creek @ Wellsford Rd
StationID: 535XDCAWR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2009

DATE (mm/dd/yyyy): 11/17/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 1200
SAMPLE TIME: 1220
Departure Time:

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

Personnel: R. WEST J. SWANSON

SAMPLE LOCATION: Bank, Near Bank, (Thalweg), Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB / (RB) / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US (DS) NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.6602	-120.8743
*Actual:	37.66067	120.87548
Difference:		

GPS Model: (MLJ-LLC Garmin eTrex)
Datum: NAD 83
Accuracy (ft / m): (25)

Lab Chem/Tox Method=Water Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble), Gravel, Sand, Mud, Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: (Colorless), Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, (0.1 - 1cfs), 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER:
PICTURE NAME: 1E 1W DCAWR_Fall2_111709_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1" (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	15.01
Water Temp (Celsius):	9.09
SC (uS/cm):	179
DO (mg/L):	3.04
pH:	7.38
TDS:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDCAWR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDCAWR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAWR-GR	E. coli	100-mL Polyethylene	1	
535XDCAWR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

FLOW TOO LOW TO MEASURE; < 1 cfs

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 11-18-09 double checker: FV 11/19/09 Pg of Pgs

Station Name: Merced River @ Santa Fe
StationID: 535XMRSFD
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2009
Personnel: F. Wulff, D. Corcoran

DATE (mm/dd/yyyy): 11/17/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 14:17
SAMPLE TIME: 14:30
Departure Time: 14:57

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB)/ RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: (None), Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / (DS) / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4271	-120.6721
*Actual:	37.4250	-120.67283
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 23

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble), Gravel, Sand, Mud, Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, (Green), (Yellow), Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, (>200cfs)
WIND DIRECTION (from): circle direction in compass at right → NW
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1W, 1E
PICTURE NAME: MRSFD_Fall2_111709_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, (Nonvascular), OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	23.13
Water Temp (Celsius):	11.59
SC (uS/cm):	31
DO (mg/L):	12.11
pH:	7.02
TDS:	0.020
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	180

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XMRSFD-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMRSFD-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMRSFD-GR	Total Metals: Copper only	500-mL Plastic (w/HNO3)	1	
535XMRSFD-GR	Dissolved Metals, hardness (as CaCO3): Copper only	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMRSFD-GR	E. coli	100-mL Polyethylene	1	
535XMRSFD-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XMRSFD-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	Management Plan Sample

Retrieve discharge information from CDEC

Too

Administrative Record
Page 17657

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) PW 11-18-09 double checker: FV 11/19/09 Pg of Pgs

Station Name: Cottonwood Creek @ Rd 20
StationID: 545XCCART
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: Fall 2 2009
Personnel: F. Wolff, D. Corcoran

DATE (mm/dd/yyyy): 11/17/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 09:25
SAMPLE TIME: 09:40
Departure Time: 10:00

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m): 2 m
WATER DEPTH (ft / m): 0.36 m
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, ~~Integrated~~
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: CCART_Fall2_111709_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	36.8686	-120.1818
*Actual:	36.86858	-120.18282
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 15

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	16.56
Water Temp (Celsius):	10.13
SC (uS/cm):	90
DO (mg/L):	10.64
pH:	7.50
TDS:	0.059
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	5.11

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
545XCCART-GR	Tox tests: Acute FH Minnow, Chronic Selenastrum	1-Gal Amber Glass	4	
545XCCART-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
545XCCART-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XCCART-GR	E. coli	100-mL Polyethylene	1	
545XCCART-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
545XCCART-GR	Herbicides: Simazine, Cyanizine	1-L Amber Glass	2	

MLJ LLC Discharge Field Sheet

Sampler: O. Corcoran
Date: 11/17/09
Site ID: 54SXCCART
Site Name: Cottonwood Creek @ Rd 20

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	.33	0.8	0.2 or 0.6	0.35	30 sec
			0.8 only		
2	.66	0.85	0.2 or 0.6	0.85	
			0.8 only		
3	.99	1.1	0.2 or 0.6	0.81	
			0.8 only		
4	1.32	1.25	0.2 or 0.6	1.52	
			0.8 only		
5	1.65	0.9	0.2 or 0.6	1.00	
			0.8 only		
6	~~1.98~~		0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 2.0
Right Edge Water (REW) 0
Start Time (24 hr):
End Time (24 hr):

Discharge (cfs): 5.11

Discharge calculated by (date and initials):
F.W. 11/18/09

Double checked by (date and initials):
RW 11/18/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

East San Joaquin Water Quality Coalition

Storm 2 NM & MPM
Field Sheets

2009 December 15

Adminsitrative Record
Page 17660

Meter Calibration Log

Team 1

Team 1 members:
Primary multiparameter meter ID: #2
Backup multiparameter meter ID: #1
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07A1894AF
Serial number: 07A1894AE
Serial number:
Serial number:
Serial number:

Discharge Meter:
Marsh-McBirney
FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	3.77	4.02	4.00	4.00	12.14.09	LW
pH 7	7.07	7.08	7.00	7.00	12.14.09	LW
pH 10	9.98	10.02	9.98	10.01	12.14.09	LW
1413 µS/cm	1431	1419	1413	1413	12.14.09	LW
pH 4	4.07	3.89	4.00	4.00	12.16.09	LW
pH 7	6.92	6.95	7.00	7.00	12.16.09	LW
pH 10	9.96	9.94	9.99	9.99	12.16.09	LW
1413 µS/cm	1392	1406	1413	1413	12.16.09	LW

Team 2

Team 2 members:
Primary multiparameter meter ID: #4
Backup multiparameter meter ID: #3
Discharge meter ID:
GPS Unit ID:
Auxiliary meter ID:
Camera ID:

Serial number: 07K101586
Serial number: 07K101587
Serial number:
Serial number:
Serial number:

Discharge Meter:
Marsh-McBirney
FloMate 2000

Standard Solution	Before		After		Date	Initials
	Primary	Secondary	Primary	Secondary		
pH 4	3.91	4.07	4.00	4.00	12.14.09	LW
pH 7	7.05	7.12	7.00	7.00	12.14.09	LW
pH 10	9.95	10.19	10.00	10.03	12.14.09	LW
1413 µS/cm	1435	1446	1413	1413	12.14.09	LW
pH 4	4.10	4.06	4.00	4.00	12.16.09	LW
pH 7	6.94	6.86	7.00	7.01	12.16.09	LW
pH 10	10.21	10.04	10.03	10.01	12.16.09	LW
1413 µS/cm	1445	1397	1413	1413	12.16.09	LW

Adminsitrative Record
Page 17661

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) CW 12/10/09 | double checker: FW 12/17/09 | Pg 1 of 1 Pgs

Station Name: Mootz Drain Downstream of Langworth Pond
StationID: 535XMDDLP
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: ~~Fall~~ Storm2 2009
Personnel: J. SWANSON F. WULFF

DATE (mm/dd/yyyy): 12/15/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox Habitat FieldMeasure

Arrival Time: 0825
SAMPLE TIME: 08:50
Departure Time: 09.25

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel) Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in) Bridge, Other
STARTING BANK: LB / (RB) / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, (Grade Control), (Culvert), Other
HYDROMODLOC: US / DS / NA

Geometry Data

	Lat (dd.ddddd)	Long (dd.ddddd)
*GPS/DGPS		
Target:	37.70551 ~~37.70582~~	-120.89438 ~~-120.89303~~
*Actual:	37.70556	-120.89391
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 26 / 22 GPS 12-15-09

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), (Murky (<4" vis)
WADEABLE: (YES) NO
WIND: Calm, (Light Breeze), Gusty
WATERCOLOR: Colorless, (Green), Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, (0.1 - 1cfs), 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, (Overcast), Fog, Hazy
PICTURE NUMBER: 8, 5E, 2W, 1NE
PICTURE NAME: MOOLP_Storm2_121509_E..., 1W, 2W, NE
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, (Nonvascular), OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	12.26
Water Temp (Celsius):	9.05
SC (uS/cm):	341
DO (mg/L):	5.51
pH:	6.55
TDS:	
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XMDDLP-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMDDLP-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMDDLP-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMDDLP-GR	Carbamates, OCs, OPs, Herbicides, Group A Pesticides	1-L Amber Glass	5	
535XMDDLP-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMDDLP-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMDDLP-GR	Paraquat	1-L Plastic	1	
535XMDDLP-GR	E. coli	100-mL Polyethylene	1	
535XMDDLP-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XMDDLP-GR	Glyphosate	40-mL Glass Amber vial	2	

10 low flow for discharge. The check board was holding back water in the pond and only

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 12-16-09 | double checker: F.W. 12/17/09 | Pg of Pgs

Station Name: Highline Canal @ Hwy 99
StationID: 535XHCHNN
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: ~~Fall~~ Storm2 2009
Personnel: R. West, D. Corcoran

DATE (mm/dd/yyyy): 12-15-09
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 15:38
SAMPLE TIME: 15:50
Departure Time: 16:00

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, (Near Bank), Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB) RB NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, (Mixed), Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, (Mixed), Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: (Concrete), Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), (Murky (<4" vis))
WADEABLE: (YES) NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: (Colorless), Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, (Isolated Pool), 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → (N, W, E, S)
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: HCHNN_Storm2_121509E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, (Trash), None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4153	-120.7557
*Actual:	37.41242	-120.75946
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 12 ft

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	15.59
Water Temp (Celsius):	10.67
SC (uS/cm):	185
DO (mg/L):	13.93
pH:	8.61
TDS:	-
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XHCHNN-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XHCHNN-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHCHNN-GR	E. coli	100-mL Polyethylene	1	
535XHCHNN-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

non-contiguous flow

Administrative Record
Page 17663

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 12-16-09 double checker: F.W. 12/17/09 Pg of Pgs

Station Name: Deadman Creek @ Gurr Rd
StationID: 535XDCAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: ~~Fall 3~~ Storm2 2009
Personnel: R. West, D. Corcoran

DATE (mm/dd/yyyy): 12-15-09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1135
SAMPLE TIME: 1230
Departure Time: 1409

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.1936	-120.5612
*Actual:	37.194492	-120.56132
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 131ft

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, ~~Integrated~~
DEVICE: ndiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other DC RW
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E 1W
PICTURE NAME: DCAER_Storm2_121509_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	16.81
Water Temp (Celsius):	11.70
SC (uS/cm):	995
DO (mg/L):	5.02
pH:	8.00
TDS:	0.645
YSI Meter ID:	4
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XDCAGR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XDCAGR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	2	
535XDCAGR-GR	TOC	40-mL Glass Amber vial, set of 3	3	
535XDCAGR-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
535XDCAGR-GR	Paraquat	1-L Plastic	1	
535XDCAGR-GR	Total Metals	500-mL Plastic (w/HNO3)	2	
535XDCAGR-GR	Glyphosate	40-mL Glass Amber vial	5	
535XDCAGR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	2	Filtered sample
535XDCAGR-GR	E. coli	100-mL Polyethylene	1	
535XDCAGR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

QC Site: See reverse for list of samples to collect

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) EW 12-16-09 double checker: F.W. 12/17/09 Pg of Pgs

Station Name: Howard Lateral @ Hwy 140
StationID: 535XHLAHO
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: ~~Fall~~ Storm2 2009
Personnel: R. West, D. Corcoran

DATE (mm/dd/yyyy): 12-15-09
PurposeFailure: Dry Site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1510
SAMPLE TIME:
Departure Time: 1515

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.3079	-120.7820
*Actual:	37.30979	-120.78214
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 74

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1S, 1N
PICTURE NAME: HLAHO_Storm2_121509_S,N
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XHLAHO-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XHLAHO-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XHLAHO-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XHLAHO-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
535XHLAHO-GR	Paraquat	1-L Plastic	1	
535XHLAHO-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XHLAHO-GR	Glyphosate	40-mL Glass Amber vial	2	
535XHLAHO-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XHLAHO-GR	E. coli	100-mL Polyethylene	1	
535XHLAHO-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Administrative Record
Page 17665

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) KW 12-16-09 double checker: F.W. 12/17/09 Pg of Pgs

Station Name: Ash Slough @ Ave 21
StationID: 545XASAAT
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: ~~Fall~~ Storm2 2009
Personnel: R. West, D. Corcoran

DATE (mm/dd/yyyy): 12-15-09
PurposeFailure: dry site
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1107
SAMPLE TIME: —
Departure Time: 1110

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.0545	-120.4158
*Actual:	37.05448	-120.41592
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 125 ft

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None) Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, (Sand) Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / ~~NO~~ *
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, (Dry Waterbody Bed), No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right XX →
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, (Hazy)
PICTURE NUMBER: NE, SW
PICTURE NAME: ASAAT_Storm2_121509_SW,NE
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: ~~Algae~~, Vascular, Nonvascular, OilySheen, Foam, (Trash), None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
545XASAAT-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
545XASAAT-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
545XASAAT-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XASAAT-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
545XASAAT-GR	Paraquat	1-L Plastic	1	
545XASAAT-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
545XASAAT-GR	Glyphosate	40-mL Glass Amber vial	2	
545XASAAT-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
545XASAAT-GR	E. coli	100-mL Polyethylene	1	
545XASAAT-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

* Site Dry

Administrative Record
Page 17666

Administrative Record
Page 17667

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 12-16-09 double checker: FW 12/17/09 Pg 1 of 1 Pgs

Station Name: Dry Creek @ Oakdale Rd
StationID: 535DCAORD
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: ~~Fall~~ Storm2 2009 MPM
Personnel: J. SWANSON F. WULFF

DATE (mm/dd/yyyy): 12/15/2009
PurposeFailure: DRY SITE
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1355
SAMPLE TIME:
Departure Time: 1400

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1N, 1S PICTURE NAME: DCAORD_Storm2_121509_N,S
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.46047	-120.6153
*Actual:	37.46046	-120.61509
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft /m): 20

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535DCAORD-GR	OPs: Chlorpyrifos Only	1-L Amber Glass	2	Management Plan Sample

~~November~~ December Management Plan Monitoring
Measure Field Results

Dry site

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 12-16-09 double checker: F.W. 12/17/09 Pg 1 of 1 Pgs

Station Name: Lateral 2 ½ Near Keyes Rd
StationID: 535LTHNKR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: ~~Fall~~ Storm 2 2009
Personnel: J. SWANSON F. WOLFF

DATE (mm/dd/yyyy): 12/15/09
PurposeFailure: DRY SITE
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1120
SAMPLE TIME:
Departure Time: 11:30

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.5478	-121.09274
*Actual:	37.54777	-121.08495
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 70

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB/ NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES, NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 1E, 1W
PICTURE NAME: LTHNKR_Storm2_121509_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	
Water Temp (Celsius):	
SC (uS/cm):	
DO (mg/L):	
pH:	
TDS:	
YSI Meter ID:	
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535LTHNKR-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535LTHNKR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535LTHNKR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535LTHNKR-GR	Carbamates, OCs, OPs, Herbicides, Group A Pesticides	1-L Amber Glass	5	
535LTHNKR-GR	Paraquat	1-L Plastic	1	
535LTHNKR-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535LTHNKR-GR	Glyphosate	40-mL Glass Amber vial	2	
535LTHNKR-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535LTHNKR-GR	E. coli	100-mL Polyethylene	1	
535LTHNKR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW/2/16-09 double checker: F.W. 12/17/09 Pg of Pgs

Station Name: Duck Slough @ Gurr Rd
StationID: 535XDSAGR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: ~~Fall~~ Storm2 2009
Personnel: R. West, D. Corcoran

DATE (mm/dd/yyyy): 12.15.09
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 14:20
SAMPLE TIME: 14:40
Departure Time: 14:50

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, (Near Bank), Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: LB / (RB) / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: (None), Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / (DS) / NA

Lab Chem/Tox Method=Water Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: Indiv bottle by hand, (By pole), UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble), Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), (Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, (Green), Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, (>200cfs)
WIND DIRECTION (from): circle direction in compass at right
SKY CODE: (Clear), Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 2E 3W
PICTURE NAME: DSAGR_storm2_121509_W,E,E2
PRECIPITATION (last 24 hrs): (Unknown), <1", >1", None
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.2142	-120.5596
*Actual:	37.208	- 120.5470
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 16

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	15.92
Water Temp (Celsius):	10.37
SC (uS/cm):	134
DO (mg/L):	10.27
pH:	8.07
TDS:	
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDSAGR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDSAGR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDSAGR-GR	E. coli	100-mL Polyethylene	1	
535XDSAGR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XDSAGR-GR	Carbamates: Carbofuran	1-L Amber Glass	2	

too deep to take discharge.

Administrative Record
Page 17669

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ) Entered in d-base (initial/date) KW 12-16-09 double checker: F.W. 12/17/09 Pg of Pgs

Station Name: Cottonwood Creek @ Rd 20
StationID: 545XCCART
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: ~~Fall 3~~ Storm 2 2009
Personnel: R. West, D. Corcoran

DATE (mm/dd/yyyy): 12-15-09
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure (all circled)

Arrival Time: 0950
SAMPLE TIME: 1000
Departure Time: 1020

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel (circled), Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in (circled), Bridge, Other
STARTING BANK: LB (circled) / RB/ NA
STREAM WIDTH (ft / m (circled)): 1.2
WATER DEPTH (ft / m (circled)): 0.122
HYDRO-MODIFICATION: None, Bridge (circled), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS (circled) / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab (circled), ~~Integrated~~
DEVICE: Indiv bottle by hand (circled), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None (circled), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None (circled), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None (circled), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand (circled), Mud, Unk., Other
WATER CLARITY: Clear (see bottom) (circled), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES (circled) / NO
WIND: Calm (circled), Light Breeze, Gusty
WATERCOLOR: Colorless (circled), Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs (circled), 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right X → N / W / E / S
SKY CODE: Clear, Partly Cloudy (circled), Overcast, Fog, Hazy
PICTURE NUMBER: TG, DW
PICTURE NAME: 1 CCART_Storm2_121509_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None (circled)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam (circled), Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	36.8686	-120.1818
*Actual:	36.86869	-120.18299
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 124 ft

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	12.37
Water Temp (Celsius):	8.34
SC (uS/cm):	192
DO (mg/L):	11.83
pH:	8.37
TDS:	—
YSI Meter ID:	#4
Stage:	
Calculated Site Discharge:	0.01

Samples Taken (# of Containers Filled)

Field Dup: Yes / No (circled)

Samples Collected	Analyte	Container	Number	Notes
545XCCART-GR	Tox tests: Acute FH Minnow, Chronic Selenastrum	1-Gal Amber Glass	4	
545XCCART-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
545XCCART-GR	TOC	40-mL Glass Amber vial, set of 3	1	
545XCCART-GR	E. coli	100-mL Polyethylene	1	
545XCCART-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
545XCCART-GR	Herbicides: Simazine, Cyanizine	1-L Amber Glass	2	

MLJ LLC Discharge Field Sheet

Sampler: D. Corcoran
Date: 12-15-09
Site ID: CCART
Site Name: Cottonwood Creek

Method: wading / bridge
Meter: MMB / other
Meter Units: ft/s m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	.2	.4	0.2 or 0.6		
			0.8 only	0.01	
2	.4	.4	0.2 or 0.6		
			0.8 only	0.01	
3	.6	.4	0.2 or 0.6		
			0.8 only	0.01	
4	.8	.4	0.2 or 0.6		
			0.8 only	0.01	
5	1.0	.3	0.2 or 0.6		
			0.8 only	0.0	
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW): 0
Right Edge Water (REW): 1.2
Start Time (24 hr): 1015
End Time (24 hr): 1020

Discharge (cfs): 0.01

Discharge calculated by (date and initials): F.W. 12/16/09

Double checked by (date and initials): RW 12/16/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D):
Water Depth (H):
Top of Sediment to Top of Culvert (S):
Sed. Depth (D-S):
Velocity @ 0.2H:
Velocity @ 0.6H:
Velocity @ 0.8H:

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) EW 12-10-09 double checker: F.W. 12/17/09 Pg 1 of 1 Pgs

Station Name: Merced River @ Santa Fe
StationID: 535XMRSFD
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: ~~Fall 3~~ Storm2 2009
Personnel: J. SWANSON F. WULFF

DATE (mm/dd/yyyy): 12/15/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 1415
SAMPLE TIME: 1440
Departure Time: 1510

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB) RB/ NA
STREAM WIDTH (ft / m): WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, (Bridge), Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US (DS) NA

Lab Chem/Tox Method=Water Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, (Sewage), Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, (Gravel), Sand, Mud, Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: (Colorless), Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, (50 - 200 cfs), >200cfs
WIND DIRECTION (from): circle direction in compass at right → NX (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, (Overcast), Fog, Hazy
PICTURE NUMBER: 1E 1W
PICTURE NAME: MRSFD_Storm2_121509_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), (Nonvascular), OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4271	-120.6721
*Actual:	37.42499	-120.67280
Difference:		

GPS Model: (MLJ-LLC Garmin eTrex) Accuracy (ft / m): 33
Datum: NAD 83

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	15.44
Water Temp (Celsius):	11.04
SC (uS/cm):	35
DO (mg/L):	10.98
pH:	7.32
TDS:	
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	194

Samples Taken (# of Containers Filled)

Field Dup: (Yes) / No

Samples Collected	Analyte	Container	Number	Notes
535XMRSFD-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMRSFD-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMRSFD-GR	Total Metals: Copper and lead only	500-mL Plastic (w/HNO3)	1	
535XMRSFD-GR	Dissolved Metals, hardness (as CaCO3): Copper and lead only	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMRSFD-GR	E. coli	100-mL Polyethylene	1	
535XMRSFD-GR2	Group A Pesticides	1-L Amber Glass	1	
535XMRSFD-FB	Group A Pesticides	1-L Amber Glass	1	
535XMRSFD-MS	Group A Pesticides	1-L Amber Glass	2	
535XMRSFD-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	
535XMRSFD-GR	OPs; chlorpyrifos, Group A Pesticides	1-L Amber Glass	2	

Retrieve discharge information from CDEC

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RWS 12-16-09 double checker: F.W. 12/17/09 Pg 1 of 1 Pgs

Station Name: Mustang Creek @ East Ave
StationID: 535XMCAEA
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: ~~Fall~~ Storm2 2009
Personnel: J. SWANSON F. WULFF

DATE (mm/dd/yyyy): 12/15/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) (WaterTox) (Habitat) (FieldMeasure)

Arrival Time: 1305
SAMPLE TIME: 1330
Departure Time: 1345

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel), Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in), Bridge, Other
STARTING BANK: (LB) / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: (None), Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / (DS) / NA

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4918	-120.6839
*Actual:	37.49189	-120.68504
Difference:		

GPS Model: (MLJ-LLC Garmin eTrex)
Datum: NAD 83
Accuracy (ft / m): (20)

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab), Integrated
DEVICE: (Indiv bottle by hand), By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None), Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None), Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, (Cobble), Gravel, Sand, Mud, Unk., Other
WATER CLARITY: (Clear (see bottom)), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) / NO
WIND: (Calm), Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, (Brown), Other
OBSERVED FLOW: NA, Dry Waterbody Bed, (No Observed Flow), Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right

SKY CODE: Clear, Partly Cloudy, (Overcast), Fog, Hazy
PICTURE NUMBER: 15, 1E
PICTURE NAME: MCAEA_Storm2_121509_S,E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: (Vascular), Nonvascular, OilySheen, Foam, Trash, None, Other

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	15.19
Water Temp (Celsius):	10.42
SC (uS/cm):	892
DO (mg/L):	8.29
pH:	7.59
TDS:	
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XMCAEA-GR	Tox tests: Acute FH Minnow & Ceriodaphnia, Chronic Selenastrum	1-Gal Amber Glass	5	
535XMCAEA-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XMCAEA-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XMCAEA-GR	Carbamates, OCs, OPs, Herbicides	1-L Amber Glass	5	
535XMCAEA-GR	Paraquat	1-L Plastic	1	
535XMCAEA-GR	Total Metals	500-mL Plastic (w/HNO3)	1	
535XMCAEA-GR	Glyphosate	40-mL Glass Amber vial	2	
535XMCAEA-GR	Dissolved Metals, hardness (as CaCO3)	500-mL Plastic (w/HNO3)	1	Filtered sample
535XMCAEA-GR	E. coli	100-mL Polyethylene	1	
535XMCAEA-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Administrative Record
Page 17673

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date) RW 12-16-09 double checker: F.W. 12/17/09 Pg 1 of 1 Pgs

Station Name: Prairie Flower Drain @ Crows Landing Rd
StationID: 535XPFDCL
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: ~~Fall~~ Storm2 2009
Personnel: J. SWANSON F. WULFF

DATE (mm/dd/yyyy): 12/15/2009
PurposeFailure:
Purpose (Circle all that apply): WaterChem WaterTox Habitat FieldMeasure

Arrival Time: 1150
SAMPLE TIME: 1200
Departure Time: 1215

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water

Details-WQ/Tox

OCCUPATION METHOD: Walk-in, Bridge, Other
STARTING BANK: LB / RB / NA
STREAM WIDTH (ft / m):
WATER DEPTH (ft / m):
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US / DS / NA

Lab Chem/Tox Method=Water_Grab Position in Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: Grab, Integrated
DEVICE: Indiv bottle by hand, By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: YES / NO
WIND: Calm, Light Breeze, Gusty
WATERCOLOR: Colorless, Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → N W E S
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Hazy
PICTURE NUMBER: 5
PICTURE NAME: 1E 1W PFDCL_Storm2_121509_E,W
PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.4422	-121.0024
*Actual:	37.44184	-121.00352
Difference:		

GPS Model: MLJ-LLC Garmin eTrex
Datum: NAD 83
Accuracy (ft / m): 22

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position in Column: Subsurface

Air Temp (Celsius):	13.98
Water Temp (Celsius):	10.42
SC (uS/cm):	2695
DO (mg/L):	10.67
pH:	8.06
TDS:	
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	0.31

Samples Taken (# of Containers Filled)

Field Dup: Yes / No

Samples Collected	Analyte	Container	Number	Notes
535XPFDCL-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XPFDCL-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XPFDCL-GR	E. coli	100-mL Polyethylene	1	
535XPFDCL-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

Administrative Record
Page 17674

MLJ LLC Discharge Field Sheet

Sampler: FW
Date: 12.15.09
Site ID: 535XPFDCL
Site Name: PRAIRIE FLOWER DRAIN @ CROWS LANDING RD.

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) / m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1			0.2 or 0.6		
			0.8 only		
2			0.2 or 0.6		
			0.8 only		
3			0.2 or 0.6		
			0.8 only		
4			0.2 or 0.6		
			0.8 only		
5			0.2 or 0.6		
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) _____

Right Edge Water (REW) _____

Start Time (24 hr): _____

End Time (24 hr): _____

Discharge (cfs): 0.31

Discharge calculated by (date and initials): F.W. 12/16/09

Double checked by (date and initials): RS 12/16/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): 3 FT
Water Depth (H): 2.2
Top of Sediment to Top of Culvert (S): 2.2
Sed. Depth (D-S): 0.8
Velocity @ 0.2H: 0.08
Velocity @ 0.6H: 0.07
Velocity @ 0.8H: ~~0.08~~ 0.02

RS 12-15-09

ESJWQC Field Data Sheet: Water Sampling (EventType = WQ)

Entered in d-base (initial/date): BW 12-16-09 | double checker: F.W. 12/17/09 | Pg 1 of 1 Pgs

Station Name: Dry Creek @ Wellsford Rd
StationID: 535XDCAWR
Funding: 04ES5001
Project ID: ILRP_ESJWQC
Group: ~~Fall~~ Storm2 2009
Personnel: F. WULFF J. SWANSON

DATE (mm/dd/yyyy): 12/15/2009
PurposeFailure:
Purpose (Circle all that apply): (WaterChem) WaterTox (Habitat) (FieldMeasure)

Arrival Time: 0930
SAMPLE TIME: 0950
Departure Time: 10:30

Agency: MLJ-LLC
Protocol: MLJ-LLC FieldSOP 03/13/09

SAMPLE LOCATION: Bank, Near Bank, Thalweg, (Midchannel) Open Water

Details-WQ/Tox

OCCUPATION METHOD: (Walk-in) Bridge, Other
STARTING BANK: LB (RB) NA
STREAM WIDTH (ft / m): 4.8 WATER DEPTH (ft / m) 0.21 m
HYDRO-MODIFICATION: None (Bridge) Pipes, Concrete Channel, Grade Control, Culvert, Other
HYDROMODLOC: US (DS) NA

Lab Chem/Tox Method=Water_Grab Position In Water Column: Subsurface Depth: 0.1 m

SAMPLE TYPE: (Grab) Integrated
DEVICE: (Indiv bottle by hand) By pole, UCD 3L PTFE, Other

Habitat Method: Not Applicable

WATER ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other
PRECIPITATION: (None) Foggy, Drizzle, Rain, Snow
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel (Sand) Mud, Unk., Other
WATER CLARITY: (Clear (see bottom)) Cloudy (>4" vis), Murky (<4" vis)
WADEABLE: (YES) NO
WIND: (Calm) Light Breeze, Gusty
WATERCOLOR: (Colorless) Green, Yellow, Brown, Other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs (1 - 5 cfs) 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs
WIND DIRECTION (from): circle direction in compass at right → XX (N, W, E, S)
SKY CODE: Clear, Partly Cloudy, (Overcast) Fog, Hazy
PICTURE NUMBER: 1E,1W PICTURE NAME: DCAWR_Storm2_121509_W,E
PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, (None) Other

Geometry Data

*GPS/DGPS	Lat (dd.ddddd)	Long (dd.ddddd)
Target:	37.6602	-120.8743
*Actual:	37.66063	-120.87548
Difference:		

GPS Model: (MLJ-LLC Garmin eTrex) Datum: NAD 83
Accuracy (ft / m): 18

Field Results

SampleType=FieldMeasure; Method=Field
Depth: 0.1 m Position In Column: Subsurface

Air Temp (Celsius):	~~11.62~~ ~~10.14~~ JS 12.15.09
Water Temp (Celsius):	8.18
SC (uS/cm):	167
DO (mg/L):	6.65
pH:	7.04
TDS:	
YSI Meter ID:	#2
Stage:	
Calculated Site Discharge:	1.15

Samples Taken (# of Containers Filled)

Field Dup: Yes / (No)

Samples Collected	Analyte	Container	Number	Notes
535XDCAWR-GR	Total Ammonia (as N), Total Phosphorus (as P), Nitrate + Nitrite (as N)	500-mL Plastic (w/H2SO4)	1	
535XDCAWR-GR	TOC	40-mL Glass Amber vial, set of 3	1	
535XDCAWR-GR	Total Metals: Lead only	500-mL Plastic (w/HNO3)	1	
535XDCAWR-GR	Dissolved Metals, hardness (as CaCO3): Lead only	500-mL Plastic (w/HNO3)	1	Filtered sample
535XDCAWR-GR	E. coli	100-mL Polyethylene	1	
535XDCAWR-GR	Turbidity, TDS, TSS	2-L Plastic Jug	1	

MLJ LLC Discharge Field Sheet

Sampler: F. WULFF
Date: 12.15.09
Site ID: 535XDCAWR
Site Name: DRY CREEK AT WELLSFORD RD.

Method: (wading) / bridge
Meter: (MMB) / other
Meter Units: (ft/s) m/s

	Interval Midpoint meters or feet	Interval Depth meters or feet	Velocity		Duration
1	1.2	0.4	0.2 or 0.6	0.06	
			0.8 only		
2	2.0	0.6	0.2 or 0.6	0.11	
			0.8 only		
3	2.8	0.7	0.2 or 0.6	0.15	
			0.8 only		
4	3.6	1.7	0.2 or 0.6	0.11	
			0.8 only		
5	4.4	0.4	0.2 or 0.6	0.05	
			0.8 only		
6			0.2 or 0.6		
			0.8 only		
7			0.2 or 0.6		
			0.8 only		
8			0.2 or 0.6		
			0.8 only		
9			0.2 or 0.6		
			0.8 only		
10			0.2 or 0.6		
			0.8 only		
11			0.2 or 0.6		
			0.8 only		
12			0.2 or 0.6		
			0.8 only		
13			0.2 or 0.6		
			0.8 only		
14			0.2 or 0.6		
			0.8 only		
15			0.2 or 0.6		
			0.8 only		
16			0.2 or 0.6		
			0.8 only		
17			0.2 or 0.6		
			0.8 only		
18			0.2 or 0.6		
			0.8 only		
19			0.2 or 0.6		
			0.8 only		
20			0.2 or 0.6		
			0.8 only		

Left Edge Water (LEW) 0.4
Right Edge Water (REW) 5.2
Start Time (24 hr): 1010
End Time (24 hr): 1015

Discharge (cfs): 1.15

Discharge calculated by (date and initials):
F.W. 12/16/09

Double checked by (date and initials):
RW 12/16/09

If depth is greater than 0.76 m (2.5 ft):
sample at 0.2 and 0.8 below water surface

To Take Discharge In a Culvert, the Culvert Opening Must Be Circular!

Diameter (D): _____
Water Depth (H): _____
Top of Sediment to Top of Culvert (S): _____
Sed. Depth (D-S): _____
Velocity @ 0.2H: _____
Velocity @ 0.6H: _____
Velocity @ 0.8H: _____

Appendix V

Exceedance Reports

Table of Contents

ESJWQC Exceedance Reports 2008-2009 2
Sent: Wednesday, October 22, 2008 at 11:50 AM 2
Sent: Wednesday, November 12, 2008 at 1:02 PM 3
Sent: Monday, November 24, 2008 at 12:46 PM 4
Sent: Monday, December 15, 2008 at 4:38 PM 7
Sent: Thursday, December 18, 2008 at 2:50 PM 12
Sent: Monday, January 5, 2009 at 4:29 PM 15
Sent: Friday, January 23, 2009 at 5:40 PM 18
Sent: Friday, January 23, 2009 at 5:58 PM 21
Sent: Wednesday, January 28, 2009 at 4:09 PM 23
Sent: Wednesday, January 28, 2009 at 4:11 PM 24
Sent: Friday, February 13, 2009 at 3:22 PM 25
Sent: Wednesday, February 18, 2009 at 10:54 AM 27
Sent: Friday, February 20, 2009 at 2:16 PM 29
Sent: Thursday, March 12, 2009 at 4:54 PM 32
Sent: Friday, March 20, 2009 at 11:42 AM 37
Sent: Thursday, March 26, 2009 at 12:23 PM 39
Sent: Thursday, March 26, 2009 at 4:12 PM 40
Sent: Tuesday, April 7, 2009 at 4:25 PM 41
Sent: Friday, April 24, 2009 at 2:02 PM 44
Sent: Monday, May 11, 2009 at 2:17 PM 47
Sent: Friday, May 22, 2009 at 2:01 PM 48
Sent: Friday, May 22, 2009 at 2:07 PM 50
Sent: Tuesday, May 26, 2009 at 12:34 PM 51
Sent: Wednesday, June 17, 2009 at 3:53 PM 52
Sent: Friday, June 19, 2009 at 4:51 PM- Exceedance Report Amendments 55
Sent: Friday, July 10, 2009 10:44 AM 56
Sent: Monday, July 13, 2009 4:14 PM 59
Sent: Monday, July 27, 2009 4:23 PM 61
Sent: Thursday, July 30, 2009 10:53 AM 64
Sent: Friday, August 21, 2009 at 4:46 PM 65
Sent: Wednesday, August 26, 2009 3:58 PM 69
Sent: Friday, August 28, 2009 3:06 PM 71
Sent: Thursday, September 24, 2009 5:49 PM 72
Sent: Tuesday, October 13, 2009 at 7:25 AM 76
Sent: Tuesday, October 13, 2009 at 7:37 AM 77
Sent: Friday, October 23, 2009 at 9:26 AM 79
Sent: Wednesday, November 4, 2009 at 9:35 AM 82
Sent: Friday, November 20, 2009 at 12:25 PM 83
Sent: Friday, November 20, 2009 at 1:38 PM 86
Sent: Monday, December 21, 2009 at 7:47 AM 88
Sent: Tuesday, December 29, 2009 at 12:30 PM 91
Sent: Monday, January 11, 2010 at 7:38 AM 92
Sent: Friday, January 22, 2010 at 8:08 AM 93
Sent: Tuesday, January 26, 2010 at 3:39 PM 94

Adminsitrative Record
Page 17679

ESJWQC Exceedance Reports 2008-2009

Sent: Wednesday, October 22, 2008 at 11:50 AM
From: K Callinan [kcallinan@mlj-llc.com]
To: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Cc:
Subject: Field Exceedance Report - Fall1 2008
Attachments: ESJWQC_08_ER_field_fall1_table_102208.doc

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2005-0833) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a) On October 21, 2008 normal monitoring was conducted in the ESJWQC region for the first fall season sampling event. Ambient water samples were collected for water toxicity and chemistry analyses. During the sampling field parameters were measured. Exceedances of the receiving water quality trigger limits (WQTL) for specific conductance (SC), pH and dissolved oxygen (DO) were detected during this sampling event. See attached Table 1 for details on these exceedances. Raw data for the field exceedances are available upon request as scanned field sheets.

b) Immediate follow-up sampling will not be conducted. If any of the sites listed above experience toxicity in the samples collected during this event and require re-sampling, field parameters will then be measured again at those sites.

c) Measures of SC are consistently high at some sites in the ESJWQC Coalition region. Potential sources of salts and metals (detected in the field as conductivity) include upstream surface water, ground water or drain water from irrigated agricultural lands. DO exceedances are common in the Coalition region due to low flow as well as possible high levels of biological oxygen demand in the test drains (though this may not be the case for all samples). Some sites were sampled for the first time during this monitoring event and experienced first-time exceedances of field parameters. Any exceedance(s) that occur more than once at a site will be addressed in the ESJWQC Management Plan. The next Management Plan update will be submitted on April 1, 2009.

Mike Johnson

--
Krista Callinan
Environmental Specialist
Michael L. Johnson LLC
1490 Drew Ave, Suite 175
Davis, CA 95618

Tel: 530-756-5200
Fax: 530-756-5225
kcallinan@mlj-llc.com

Table 1. Field parameter water quality trigger limit exceedances experienced during normal monitoring (NM) for the first ESJWQC fall sampling event on October 21, 2008.

Sample Site	Sample Type	Sample Date	pH (pH units)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)
Prairie Flower Drain @ Crows Landing Rd	NM	10/22/08		1742	
Lateral 2 ½ near Keyes Rd	NM	10/22/08	9.57		
Dry Creek @ Wellsford Rd	NM	10/22/08			4.91

Sent: Wednesday, November 12, 2008 at 1:02 PM
From: K Callinan [kcallinan@mlj-llc.com]
To: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Cc:
Subject: Field Exceedance Report - November 2008
Attachments: ESJWQC_08_ER_field_fall2_table_111108.doc

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2005-0833) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a) On November 11, 2008 normal monitoring was conducted in the ESJWQC region. Ambient water samples were collected for water toxicity and chemistry analyses. During the sampling field parameters were measured. Exceedances of the receiving water quality trigger limits (WQTL) for specific conductance (SC), pH and dissolved oxygen (DO) were detected during this sampling event. See attached Table 1 for details on these exceedances. Raw data for the field exceedances are available upon request as scanned field sheets.

b) Immediate follow-up sampling will not be conducted. Field parameters will be measured again at these sites during the next monitoring event on December 16, 2008.

c) Exceedances in pH occur occasionally and intermittently in the Coalition region and are difficult to source. The high pH in Lateral 2 ½ and the low pH in Mootz Drain may be due to particular inputs into the water bodies or natural conditions, among other possible sources. Measures of SC are consistently high at some sites in the ESJWQC Coalition region. Potential sources of salts and metals (detected in the field as conductivity) include upstream surface water, ground water or drain water from irrigated agricultural lands. DO exceedances are common in the Coalition region due to low flow as well as possible high levels of biological oxygen demand in the test drains (though this may not be the case for all samples). Some sites were sampled for the first time during this monitoring event and experienced first-time exceedances of field parameters. Any exceedance(s) that occur more than once at a site will be addressed in the ESJWQC Management Plan. The next Management Plan update will be submitted on April 1, 2009.

Mike Johnson

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kcallinan@mlj-llc.com

Table 1. Field parameter water quality trigger limit exceedances experienced during normal monitoring (NM) on November 11, 2008.

Sample Site	Sample Type	Sample Date	pH (pH units)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)
Prairie Flower Drain @ Crows Landing Rd	NM	11/11/08		2151	
Lateral 2 ½ near Keyes Rd	NM	11/11/08	9.09		
Mootz Drain @ Langworth Rd	NM	11/11/08	4.32		3.55

Sent: Monday, November 24, 2008 at 12:46 PM
From: K Callinan [kcallinan@mlj-llc.com]
To: Dania Huggins <dhuggins@waterboards.ca.gov>
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Metals, E.coli, Nutrients and TDS Exceedance Report - October 2008
Attachments: ESJWQC_08_ER_Ecoli_Metals_Nut_Tbl_102108_final.xls

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On October 21, 2008 regular monitoring was conducted in the ESJWQC region. Water was collected for analysis of physical parameters, nutrients, metals and bacteria. Exceedances of receiving water limitations for E. coli, total dissolved solids (TDS), arsenic and nitrate/nitrite were experienced. Data were received from the laboratory on November 20, 2008. The sites, sampling dates, exceedances and discharge measurements are provided in an excel spreadsheet attached to this email with the exceedance trigger limits listed under each constituent in the column headers. Raw data are available upon request. Site pictures taken at the time of sampling at each site and discharge measurements are provided on the MLJ-LLC Sharepoint Website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx, username: ftpuser, password: Aqua2007!).

b.) Follow-up sampling is not required for these exceedances. Sampling occurred again at these sites on November 11, 2008, and results from those samples should indicate where water quality exceedances included in this report are persistent.

c.) Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outline therein.

Mike Johnson

--

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kcallinan@mlj-llc.com

Table 1. ESJWQC_08_ER_Ecoli_Metals_Nut_Tbl_102108_final.xls

Site Name	Monitoring Type	Station Code	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Arsenic (10 ug/L)	Nitrate-Nitrite as N (10 mg/L)
Dry Creek @ Wellsford Rd	NM	535XDCAWR	10/21/2008	550			
Prairie Flower Drain @ Crows Landing	NM	535XPFDCL	10/21/2008	370	1100		27
Lateral 2 1/2 near Keyes Rd	NM	535LTHNKR	10/21/2008	280			
Deadman Creek @ Gurr Rd	NM	535XDCAGR	10/21/2008	1400		12	

FD- field duplicate
J- estimated value; between laboratory reporting limit and minimum detection limit
NM- normal monitoring
NDM- No discharge measured (too deep to wade)

Sent: Monday, December 15, 2008 at 4:38 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins <dhuggins@waterboards.ca.gov>
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: E. coli, TDS, Nutrients and Metals Exceedance Report - November 2008
Attachments: ESJWQC_08_ER_Ecoli_Metals_Nut_Tbl_111108_final.xls; ESJWQC_FieldResults_Discharge_111108.xls; ESJWQC_Site_Pics_111108_compressed.pdf

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On November 11, 2008 regular monitoring was conducted in the ESJWQC region. Water was collected for the analysis of physical parameters, nutrients, metals and bacteria. Final data for this event were received from the laboratory on December 8, 2008. Exceedances of receiving water limitations for E. coli, total dissolved solids (TDS), ammonia, nitrate and arsenic were detected. The sites and exceedances are provided in an excel spreadsheet attached to this email. Raw data are available upon request. Site pictures and flow data from this event are attached to this email. These files can also be found on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx, username: ftpuser, password: Aqua2007!).

Follow-up sampling is not required for these exceedances. Sampling will occur again at these sites tomorrow, on December 16, 2008, and results from those samples should indicate where water quality exceedances included in this report are persistent.

c.) Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outlined therein.

Mike Johnson

--
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Table 1. ESJWQC_08_ER_Ecoli_Metals_Nut_Tbl_111108_final.xls

Site Name	Monitoring Type	Station Code	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Ammonia (10 mg/L or variable)	Arsenic (10 ug/L)	Nitrogen, Nitrate-Nitrite (10 mg/L)
Prairie Flower Drain @ Crows Landing	NM	535XPFDCL	11/11/2008		1500			39
Lateral 2 1/2 near Keyes Rd	NM	535LTHNKR	11/11/2008	370		0.65 (0.57)		
Lateral 2 1/2 near Keyes Rd - FD	NM	535LTHNKR-FD	11/11/2008	310		0.57 (0.57)		
Merced River @ Santa Fe Rd	NM	535XMRSFD	11/11/2008					
Deadman Creek @ Gurr Rd	NM	535XDCAGR	11/11/2008	370			14	

FD- field duplicated
NM- normal monitoring
Not tested

Table 2. ESJWQC_FieldResults_Discharge_111108.xls

ProjectCode	StationName	StationCode	SampleDate	CollectionTime	AnalytewFraction	Result	QACode	FieldResultComments
ILRP_ESJWQC	Mustang Creek @ East Ave	535XMCAEA	11/11/2008	13:35	Discharge cfs		FD	Dry site.
ILRP_ESJWQC	Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	11/11/2008	13:30	Discharge cfs	0.09	None	
ILRP_ESJWQC	Dry Creek @ Wellsford Rd	535XDCAWR	11/11/2008	9:30	Discharge cfs	0.99	None	
ILRP_ESJWQC	Howard Lateral @ Hwy 140	535XHLAHO	11/11/2008	11:59	Discharge cfs		FD	Dry site.
ILRP_ESJWQC	Duck Slough @ Gurr Rd	535XDSAGR	11/11/2008	11:27	Discharge cfs		FD	Dry site.
ILRP_ESJWQC	Ash Slough @ Ave 21	545XASAAT	11/11/2008	9:56	Discharge cfs		FD	Dry site.
ILRP_ESJWQC	Cottonwood Creek @ Rd 20	545XCCART	11/11/2008	9:16	Discharge cfs		FD	Dry site.
ILRP_ESJWQC	Highline Canal	535XHCHNN	11/11/2008	8:09	Discharge cfs		FD	Dry site.

ProjectCode	StationName	StationCode	SampleDate	CollectionTime	AnalytewFraction	Result	QACode	FieldResultComments
	@ Hwy 99							
ILRP_ESJWQC	Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	11/11/2008	10:40	Discharge cfs	0.57	None	
ILRP_ESJWQC	Merced River @ Santa Fe	535XMRSFD	11/11/2008	13:00	Discharge cfs	294	None	
ILRP_ESJWQC	Lateral 2 1/2 near Keys Rd	535LTHNKR	11/11/2008	11:10	Discharge cfs		FUD	Too shallow to take discharge.
ILRP_ESJWQC	Mootz Drain @ Langworth Rd	535XMDALR	11/11/2008	8:30	Discharge cfs	0	None	Non contiguous water body.

Sent: Friday, January 23, 2009 at 12:30 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Re: E. coli, TDS, Nutrients and Metals Exceedance Report - November 2008
Attachments: ESJWQC_08_ER_Ecoli_Metals_Nut_Tbl_111108_final_amended.xls

Dear Dania,

In the E. coli, Nutrients, TDS and Metals Exceedance Report submitted on December 15, 2008, there was one exceedance reported incorrectly. The field duplicate sample collected from Lateral 2 1/2 near Keyes Rd resulted in an ammonia detection of 0.57 mg/L. This detection was reported as an exceedance, however the calculated WQTL (based off of the water pH and temperature) is equal to the level detected in the sample water (0.57 mg/L) and therefore this is not an exceedance. Please refer to the amended exceedance table, attached. The ammonia exceedance in the grab sample from Lateral 2 1/2 near Keyes Rd remains the same.

Please let us know if you have any questions about this discrepancy.

Sincerely,

Krista

Table 1. ESJWQC_08_ER_Ecoli_Metals_Nut_Tbl_111108_final_amended.xls

Site Name	Monitoring Type	Station Code	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Ammonia (10 mg/L or variable)	Arsenic (10 ug/L)	Nitrogen, Nitrate-Nitrite (10 mg/L)
Prairie Flower Drain @ Crows Landing	NM	535XPFDCL	11/11/2008		1500			39
Lateral 2 1/2 near Keyes Rd	NM	535LTHNKR	11/11/2008	370		0.65 (0.57)		
Lateral 2 1/2 near Keyes Rd - FD	NM	535LTHNKR-FD	11/11/2008	310				
Deadman Creek @ Gurr Rd	NM	535XDCAGR	11/11/2008	370			14	

FD- field duplicated
NM- normal monitoring
Not tested

Sent: Thursday, December 18, 2008 at 2:50 PM
From: K Callinan [kcallinan@mlj-llc.com]
To: Dania Huggins <dhuggins@waterboards.ca.gov>
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Field Exceedance Report - December 2008
Attachments: ESJWQC_08_ER_field_table_121608.doc; ESJ_FieldResults_Discharge_121608.xlsx; ESJWQC_Site_Pics_121608_compressed.pdf

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2005-0833) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a) On December 16, 2008 normal monitoring was conducted in the ESJWQC region. Ambient water samples were collected for water toxicity and chemistry analyses. During the sampling field parameters were measured. Exceedances of the receiving water quality trigger limits (WQTL) for specific conductance (SC), pH and dissolved oxygen (DO) were detected during this sampling event. See attached Table 1 for details on these exceedances. Raw data for the field exceedances are available upon request as scanned field sheets. Site pictures and flow data from this event are also attached to this email. These data are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx, username: ftpuser, password: Aqua2007!).

b) Immediate follow-up sampling will not be conducted. Field parameters will be measured again at these sites during the next monitoring event on January 20, 2008.

c) Exceedances in pH occur occasionally and intermittently in the Coalition region and are difficult to source. The high pH in Dry Creek @ Wellsford Rd may be due to particular inputs into the water bodies or natural conditions, among other possible sources. Measures of SC are consistently high at some sites in the ESJWQC Coalition region. Potential sources of salts and metals (detected in the field as conductivity) include upstream surface water, ground water or drain water from irrigated agricultural lands. DO exceedances are common in the Coalition region due to low flow as well as possible high levels of biological oxygen demand in the test drains (though this may not be the case for all samples). Any exceedance(s) that occur more than once at a site will be addressed in the ESJWQC Management Plan. The next Management Plan update will be submitted on April 1, 2009.

Mike Johnson

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Table 1. Field parameter water quality trigger limit exceedances experienced during normal monitoring (NM) on December 16, 2008.

Sample Site	Sample Type	Sample Date	pH (pH units)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)
Prairie Flower Drain @ Crows Landing Rd	NM	12/16/08		2298	
Dry Creek @ Wellsford Rd	NM	12/16/08	8.68		2.77

Adminsitrative Record
Page 17691

Table 2. ESJ_FieldResults_Discharge_121608.xlsx

ProjectCode	StationName	StationCode	SampleDate	CollectionTime	AnalytewFraction	Result	QACode	FieldResultComments
ILRP_ESJWQC	Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	12/16/2008	12:00	Discharge cfs	.09	None	
ILRP_ESJWQC	Duck Slough @ Gurr Rd	535XDSAGR	12/16/2008	14:00	Discharge cfs	.31	None	
ILRP_ESJWQC	Howard Lateral @ Hwy 140	535XHLAHO	12/16/2008	14:56	Discharge cfs		FD	Dry site
ILRP_ESJWQC	Cottonwood Creek @ Rd 20	545XCCART	12/16/2008	9:33	Discharge cfs		FD	Dry site
ILRP_ESJWQC	Ash Slough @ Ave 21	545XASAAT	12/16/2008	10:28	Discharge cfs		FD	Dry site
ILRP_ESJWQC	Highline Canal @ Hwy 99	535XHCHNN	12/16/2008	13:32	Discharge cfs		FD	Dry site
ILRP_ESJWQC	Mustang Creek @ East Ave	535XMCAEA	12/16/2008	12:17	Discharge cfs		FD	Dry site
ILRP_ESJWQC	Mootz Drain @ Langworth Rd	535XMDALR	12/16/2008	8:40	Discharge cfs	0	None	Discharge not measured due to non contiguous water body.
ILRP_ESJWQC	Merced River @ Santa Fe	535XMRSFD	12/16/2008	13:00	Discharge cfs		FNM	No documentatin of the field measurement.
ILRP_ESJWQC	Lateral 2 1/2 near Keys Rd	535LTHNKR	12/16/2008	10:11	Discharge cfs		FD	Dry site
ILRP_ESJWQC	Dry Creek @ Wellsford Rd	535XDCAWR	12/16/2008	9:20	Discharge cfs	0	FLV	Discharge not measured due to no visible flow.
ILRP_ESJWQC	Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	12/16/2008	11:10	Discharge cfs	0.19	None	

Sent: Monday, January 5, 2009 at 4:29 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins <dhuggins@waterboards.ca.gov>
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Pesticide Exceedance Report - November 2008
Attachments: ESJWQC_08_ER_Pesticide_November_table_010509.doc

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an exceedance report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a. On November 11, 2008 normal monitoring was conducted in the ESJWQC region. Data were received from the laboratory on December 23, 2008. One exceedance of chlorpyrifos was detected during this monitoring event. See attached Table 1 for details on this exceedance. Site pictures and flow data for this sampling event were provided to the CVRWQCB by email on December 15 and 16, 2008 and are also available on the MLJ-LLC Sharepoint Website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b. Follow-up sampling for this pesticide exceedance will not be conducted. Monitoring for pesticides occurred again at this site on December 16, 2008, and results from this monitoring event will indicate if the exceedance in this report is persistent.

c. The chlorpyrifos exceedance detected at the Merced River @ Santa Fe sample site will be further addressed in the Coalition Management Plan. The next Management Plan Update will be submitted by April 1, 2008.

Mike Johnson

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Krista Callinan
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Tel: 530-756-5200
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kcallinan@mlj-llc.com

Table 1. Pesticide exceedance from the ESJWQC region for samples collected during normal monitoring (NM) on November 11, 2008. The water quality trigger limit is listed below the constituent header.

Site Name	Sample Type	Sample Date	Chlorpyrifos
			0.015 µg/L
Merced River @ Santa Fe	NM	11/11/08	0.10

Sent: Monday, April 13, 2009 at 3:59 PM
From: K Callinan <kcallinan@mlj-llc.com>

To: Dania Huggins <dhuggins@waterboards.ca.gov>
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Amended Pesticide Exceedance Report - November 2008
Attachments: ESJWQC_08_November_ER_Pesticides_table_010509_amended.doc

Dear Dania,

We are submitting an amended exceedance report for samples collected on November 11, 2008. As a result of as misunderstanding of the pesticide laboratory report data, two exceedances of hexachlorocyclohexane were missed. Please refer to the attached Table 1 for details on these exceedances.

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an exceedance report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a. On November 11, 2008 normal monitoring was conducted in the ESJWQC region. Data were received from the laboratory on December 23, 2008. One exceedance of chlorpyrifos and two exceedances of hexachlorocyclohexane were detected during this monitoring event. See attached Table 1 for details on these exceedances. Site pictures and flow data for this sampling event were provided to the CVRWQCB by email on December 15 and 16, 2008 and are also available on the MLJ-LLC Sharepoint Website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b. Follow-up sampling for these pesticide exceedances will not be conducted. Monitoring for pesticides occurred every month since these samples were collected and results from those monitoring events indicate that the exceedances in this report are not persistent.

c. Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outlined therein.

Mike Johnson

--
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Table 1. Pesticide exceedances from the ESJWQC region for samples collected during normal monitoring (NM) on November 11, 2008. The water quality trigger limit is listed below the constituent header.

Site Name	Sample Type	Sample Date	Chlorpyrifos	Total Hexachlorocyclohexane
			0.015 µg/L	0.0039 µg/L
Merced River @ Santa Fe	NM	11/11/08	0.10	0.051
Lateral 2 ½ near Keyes Rd	NM	11/11/08		0.013

Sent: Friday, June 19, 2009 at 4:35 PM
From: K Callinan [kcallinan@mlj-llc.com]
To: Dania Huggins <dhuggins@waterboards.ca.gov>
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Exceedance Report - update to exceedances from November 2008 sampling
Attachments: ESJWQC_08_ER_Pesticide_November_amended_2_table_061909.doc

Dear Dania,

We are submitting a second amended exceedance report for samples collected on November 11, 2008. The first amended report was submitted on April 13, 2009 for two exceedances of total hexachlorocyclohexane (HCH). In that amended report, results from the field duplicate sample collected from Lateral 2 ½ near Keyes Rd were not included. An exceedance of the WQTL for HCH was detected at this site in both the grab sample (0.013 µg/L, April 13, 2009 amended exceedance report) and the field duplicate sample (0.016 µg/L). Please refer to the attached Table 1 for details on these exceedances.

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an exceedance report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a. On November 11, 2008 normal monitoring was conducted in the ESJWQC region. Data were received from the laboratory on December 23, 2008. One exceedance of chlorpyrifos and two exceedances of hexachlorocyclohexane were detected (plus a field duplicate exceedance) during this monitoring event. See attached Table 1 for details on these exceedances. Site pictures and flow data for this sampling event were provided to the CVRWQCB by email on December 15 and 16, 2008 and are also available on the MLJ-LLC Sharepoint Website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b. Follow-up sampling for these pesticide exceedances were not conducted. Monitoring for pesticides occurred every month since these samples were collected and results from those monitoring events indicate that the exceedances in this report are not persistent.

c. Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outlined therein.

Michael Johnson
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Krista Callinan
Environmental Specialist

Michael L. Johnson LLC
1490 Drew Ave, Suite 175
Davis, CA 95618

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Fax: 530-756-5225
kcallinan@mlj-llc.com

Table 1. Pesticide exceedances from the ESJWQC region for samples collected during normal monitoring (NM) on November 11, 2008. The water quality trigger limit is listed below the constituent header.

Site Name	Sample Type	Sample Date	Chlorpyrifos	Total Hexachlorocyclohexane
			0.015 µg/L	0.0039 µg/L
Merced River @ Santa Fe	NM	11/11/08	0.10	0.051
Lateral 2 ½ near Keyes Rd	NM	11/11/08		0.013
Lateral 2 ½ near Keyes Rd - FD	NM	11/11/08		0.016

Sent: Friday, January 23, 2009 at 5:40 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins <dhuggins@waterboards.ca.gov>
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: E. coli, Nutrients and Physical Parameter Exceedance Report - December 2008
Attachments: ESJWQC_ER_08_E.coli_Nutrients_Inorganics_December_012309_final.xls

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On December 16, 2008 regular monitoring was conducted in the ESJWQC region. Water was collected for the analysis of physical parameters, nutrients, metals and bacteria. Final data for this event were received from the laboratory on January 21, 2009. Exceedances of receiving water limitations for E. coli, total dissolved solids (TDS) and nitrogen were detected. Six of the twelve sites sampled during this event were dry. Details on the sites and constituents sampled, and the exceedances are provided in an excel spreadsheet attached to this email. Raw data are available upon request. Site pictures and flow data from this event have been provided by email but are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx, username: ftpuser, password: Aqua2007!).

Follow-up sampling is not required for these exceedances. Sampling occured again at these sites on January 20, 2009, and results from those samples should indicate where water quality exceedances included in this report are persistent.

c.) Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outlined therein.

Mike Johnson

--
Krista Callinan
Environmental Specialist
Michael L. Johnson LLC
1490 Drew Ave, Suite 175
Davis, CA 95618

Tel: 530-756-5200
Fax: 530-756-5225
kcallinan@mlj-llc.com

Table 1. ESJWQC_ER_08_E.coli_Nutrients_Inorganics_December_012309_final.xls

Site Name	Monitoring Type	Station Code	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Nitrate-Nitrite (10 mg/L)
Mootz Drain @ Langworth Rd	NM	535XMDALR	12/16/2009	>2400		
Prairie Flower Drain @ Crows Landing	NM	535XPFDCL	12/16/2009	1300	2900	40
Deadman Creek @ Gurr Rd - FD	NM	535XDCAGR-FD	12/16/2009	>2400		
Deadman Creek @ Gurr Rd	NM	535XDCAGR	12/16/2009	1400		

FD- field duplicated
J- estimated value; between laboratory reporting limit and minimum detection limit
NM- normal monitoring
analysis not a part of the monitoring plan for this site

Sent: Thursday, February 26, 2009 at 8:14 AM
From: Dania Huggins <dhuggins@waterboards.ca.gov>
To: K Callinan <kcallinan@mlj-llc.com>
Cc:
Subject: Re: E. coli, Nutrients and Physical Parameter Exceedance Report - December 2008
Attachments:

Good morning Krista,

I have a couple of questions regarding this excedance report.

(1) In the "summary" worksheet, last column, you have exceedances for Nitrate-Nitrite, which will be NO3-NO2, did you mean Nitrate as NO3 (which is the same as Nitrate as N= NO3 as N)? or Nitrite as N ((which is the same as NO2 as N)?

(2) The sampling dates in the "summary" worksheet are incorrect 16/Dec/2009.

Thank you

Dania

Dania Huggins

Water Resource Control Engineer
Monitoring and Implementation Unit
Irrigated Lands Conditional Waiver Program
Central Valley Regional Water Quality Control Board
11020 Sun Center Drive Suite 200
Rancho Cordova, CA 95670-6114

dhuggins@waterboards.ca.gov
Phone : 916-464-4843
Fax : 916-464-4780
Ag Waiver Program http://www.waterboards.ca.gov/centralvalley/programs/irrigated_lands/

Sent: Tuesday, March 3, 2009 at 12:38 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins <dhuggins@waterboards.ca.gov>
Cc: none
Subject: Re:E. coli, Nutrients and Physical Parameter Exceedance Report - December 2008
Attachments: ESJWQC_ER_08_E.coli_Nutrients_Inorganics_December_012309_final_amended.xls

Hi Dania,

I'm sorry for my delayed response. With regards to your question on nitrogen analysis, as of the new MRP we have been analyzing nitrate and nitrate together (nitrate-nitrate) which is measured as N in mg/L. We use the 10mg/L trigger limit for this anlaysis. Does that answer your question? I have added "as N" in the column header of our exceedance table for clarification.

Also, you mentioned the incorrect date reported, and I have attached an amended table with the correct date.

Thank you for your feedback,

Krista

Table 1. ESJWQC_ER_08_E.coli_Nutrients_Inorganics_December_012309_final_amended.xls

Site Name	Monitoring Type	Station Code	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Nitrate-Nitrite, as N (10 mg/L)
Mootz Drain @ Langworth Rd	NM	535XMDALR	12/16/2008	>2400		
Prairie Flower Drain @ Crows Landing	NM	535XPFDCL	12/16/2008	1300	2900	40
Deadman Creek @ Gurr Rd - FD	NM	535XDCAGR-FD	12/16/2008	>2400		
Deadman Creek @ Gurr Rd	NM	535XDCAGR	12/16/2008	1400		

FD- field duplicated
J- estimated value; between laboratory reporting limit and minimum detection limit
NM- normal monitoring

Sent: Friday, January 23, 2009 at 5:58 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins <dhuggins@waterboards.ca.gov>
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Field Exceedance Report, Flow and Site Pictures - January 2009
Attachments: ESJWQC_09_ER_Field_Exceedances_&_Flow_January_012309.xls; ESJWQC_Site_Pics_012009_compressed.pdf

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On January 20, 2008 normal monitoring was conducted at sites in the ESJWQC region. During sampling, field parameters were measured. Exceedances of receiving water limitations for dissolved oxygen (DO) and specific conductance (SC) were detected during this sampling event. See attached Table 1 for details, including flow measured at each site. Site pictures taken from each of the monitoring sites during this event are also attached to this email, as a pdf. If you wish to see the raw data for these exceedances, we can supply a scanned copy of the field sheets upon request.

b.) Field parameters will be measured again at these sites on February 17, 2009 for the next winter monitoring event.

c.) DO exceedances are common in the Coalition region due to low flow and possible high levels of biological oxygen demand in the test drains (though this may not be the case for all samples). Sites sampled in previous events have also experienced frequent DO exceedances. Measures of SC are consistently high at some sites in the ESJWQC Coalition region. Potential sources of salts and metals (detected in the field as conductivity) include upstream surface water, ground water or drain water from irrigated agricultural lands. Any exceedance(s) that occur more than once at a site will be addressed in the ESJWQC Management Plan. An update to the Coalition Management Plan will be submitted on April 1, 2009.

Mike Johnson

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Krista Callinan
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Fax: 530-756-5225
kcallinan@mlj-llc.com

Table 1. ESJWQC_09_ER_Field_Exceedances_&_Flow_January_012309.xls

Station Name	Station Code	Sample Date	Collection Time	Group	Discharge (cfs)	Oxygen, Dissolved	Specific Conductivity	Comments
Ash Slough @ Ave 21	545XASAAT	1/20/2009	10:43	Winter1	NR			Dry site, no samples collected.
Cottonwood Creek @ Rd 20	545XCCART	1/20/2009	10:00	Winter1	NR			Dry site, no samples collected.
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	1/20/2009	12:00	Winter1	0	5.61	762	
Dry Creek @ Wellsford Rd	535XDCAWR	1/20/2009	9:10	Winter1	0	5.1	707	Discharge not measured due to no visible flow.
Duck Slough @ Gurr Rd	535XDSAGR	1/20/2009	13:50	Winter1	0.23			
Highline Canal @ Hwy 99	535XHCHNN	1/20/2009	8:47	Winter1	NR			Dry site, no samples collected.
Howard Lateral @ Hwy 140	535XHLAHO	1/20/2009	14:44	Winter1	NR			Dry site, no samples collected.
Merced River @ Santa Fe	535XMRSFD	1/20/2009	14:10	Winter1	222			
Mustang Creek @ East Ave	535XMCAEA	1/20/2009	14:40	Winter1	NR			Dry site, no samples collected.
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	1/20/2009	10:40	Winter1	NR		2414	Too shallow to take discharge.

Sent: Wednesday, January 28, 2009 at 4:09 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins <dhuggins@waterboards.ca.gov>
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Toxicity Exceedance Report - January 2009
Attachments: ESJWQC_09_ER_Toxicity_January_table_012809.doc

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On January 20, 2009, normal monitoring was conducted in the ESJWQC region. Water was collected for analysis of water column toxicity. Toxicity to Pimephales promelas occurred in samples collected from the Deadman Creek @ Gurr Rd site during this monitoring event. See attached Table 1 for details on this exceedance. Site pictures and flow data for this sampling event were provided to the CVRWQCB by email on January 23, 2008 and are also available on the MLJ-LLC Sharepoint Website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b.) Follow-up sampling is not required for these exceedances. Samples will be collected again from this site for the analysis of toxicity on February 17, 2009. Results from the February sampling event will indicate whether the exceedance included in this report is persistent.

c.) Deadman Creek @ Gurr Rd experienced toxicity to Pimephales twice in previous events. Actions that will be taken to address these exceedances are described in detail in the ESJWQC Management Plan. Pimephales toxicity is a priority D constituent in the management plan for Deadman Creek.

Mike Johnson

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Krista Callinan
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Tel: 530-756-5200
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kcallinan@mlj-llc.com

Table 1. Water sample toxicity in samples collected during normal monitoring (NM) for ESJWQC receiving waters on January 20, 2009.

Sample Site	Sample Date	Sample Type	***Pimephales promelas*** (% survival relative to control)
Deadman Creek @ Gurr Rd	1/20/09	NM	87.5

Sent: Wednesday, January 28, 2009 at 4:11 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins <dhuggins@waterboards.ca.gov>
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Pesticide Exceedance Report - December 2008
Attachments: ESJWQC_08_ER_Pesticide_December_table_012809.doc

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an exceedance report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a. On December 16, 2008 normal monitoring was conducted in the ESJWQC region. Data were received from the laboratory on January 27, 2009. One exceedance of chlorpyrifos was detected during this monitoring event. See attached Table 1 for details on this exceedance. Site pictures and flow data for this sampling event were provided to the CVRWQCB by email on December 18, 2008 and are also available on the MLJ-LLC Sharepoint Website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b. Follow-up sampling for this pesticide exceedance will not be conducted. Monitoring for pesticides occurred again at this site on January 20, 2009, and results from that monitoring event will indicate if the exceedance in this report is persistent.

c. The chlorpyrifos exceedance detected at the Mootz Drain @ Langworth Rd is the first to occur at this site. As a result, if additional chlorpyrifos exceedances occur at this site, then these exceedances will be further addressed in the ESJWQC Management Plan. The next Management Plan update will be submitted by April 1, 2008 and will include exceedances through September of 2008.

Mike Johnson

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kcallinan@mlj-llc.com

Table 1. Pesticide exceedance from the ESJWQC region in samples collected during normal monitoring (NM) on December 16, 2008. The water quality trigger limit is listed below the constituent header.

Site Name	Sample Type	Sample Date	Chlorpyrifos
			0.015 µg/L
Mootz Drain @ Langworth Rd	NM	12/16/08	0.017

Sent: Friday, February 13, 2009 at 3:22 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins <dhuggins@waterboards.ca.gov>
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Field Exceedance Report - February 2009
Attachments: ESJ_FieldResults_Discharge_020709.xls; ESJWQC_Site_pictures_020709.pdf

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On February 7, 2009 normal monitoring was conducted at sites in the ESJWQC region. During sampling, field parameters were measured. Exceedances of receiving water limitations for pH, dissolved oxygen (DO) and specific conductance (SC) were detected during this sampling event. See attached Table 1 for details, including flow measured at each site. Site pictures taken from each of the monitoring sites during this event are also attached to this email, as a pdf. If you wish to see the raw data for these exceedances, we can supply a scanned copy of the field sheets upon request.

b.) Field parameters will be measured again at these sites during the next winter monitoring event scheduled for March 17, 2009.

c.) Exceedances in pH occur occasionally and intermittently in the Coalition region and are difficult to source. The high pH experienced during this monitoring event may be due natural conditions of the water body, among other possible sources. DO exceedances are common in the Coalition region and may be due to low flow and/or high levels of biological oxygen demand in the test drains (this may not be the case for all samples). Sites sampled in previous events have also experienced frequent DO exceedances. Measures of SC are consistently high at some sites in the ESJWQC Coalition region. Potential sources of salts and metals (detected in the field as conductivity) include upstream surface water, ground water or drain water from irrigated agricultural lands. Any exceedance(s) that occur more than once at a site will be addressed in the ESJWQC Management Plan. An update to the Coalition Management Plan will be submitted on April 1, 2009.

Mike Johnson

--
Krista Callinan
Environmental Specialist
Michael L. Johnson LLC
1490 Drew Ave, Suite 175
Davis, CA 95618

Tel: 530-756-5200
Fax: 530-756-5225
kcallinan@mlj-llc.com

Table 1. ESJ_FieldResults_Discharge_020709.xls

Station Name	Project Code	Station Code	Sample Date	Collection Time	Group	Discharge	Oxygen, Dissolved	Specific Conductivity	pH	Comments
Cottonwood Creek @ Rd 20	ILRP_ESJWQC	545XCCART	2/7/2009	9:30	Non Contiguous, Storm1	0				Non contiguous water body. Discharge not measured due to non contiguous water body.
Deadman Creek (Dutchman) @ Gurr Rd	ILRP_ESJWQC	535XDCAGR	2/7/2009	11:00	Storm1	0	1	1802		
Dry Creek @ Wellsford Rd	ILRP_ESJWQC	535XDCAWR	2/7/2009	11:10	Storm1	0				Discharge not measured due to no visible flow.
Duck Slough @ Gurr Rd	ILRP_ESJWQC	535XDSAGR	2/7/2009	12:40	Storm1	2.6				
Highline Canal @ Hwy 99	ILRP_ESJWQC	535XHCHNN	2/7/2009	14:20	Storm1	0			8.9	Discharge not measured due to no visible flow.
Lateral 2 1/2 near Keys Rd	ILRP_ESJWQC	535LTHNKR	2/7/2009	12:20	Storm1	ND				Dry site, no samples collected.
Merced River @ Santa Fe	ILRP_ESJWQC	535XMRSFD	2/7/2009	14:20	Storm1	241				
Mootz Drain @ Langworth Rd	ILRP_ESJWQC	535XMDALR	2/7/2009	8:40	Non Contiguous, Storm1	0				Non contiguous water body. Discharge not measured due to non contiguous water body.
Mustang Creek @ East Ave	ILRP_ESJWQC	535XMCAEA	2/7/2009	15:30	Storm1	0		704		Discharge not measured due to no visible flow.
Prairie Flower Drain @ Crows Landing Rd	ILRP_ESJWQC	535XPFDCL	2/7/2009	13:10	Storm1	0.1		2255		Sample time incorrectly recorded as 12:10 on all COCs and all sample lables; actual sample time is 13:10.

ND - No discharge measured

Adminsitrative Record
Page 17704

Sent: Wednesday, February 18, 2009 at 10:54 AM
From: Melissa Turner <mturner@mlj-llc.com>
To: Dania Huggins <dhuggins@waterboards.ca.gov>
Cc: K Callinan <kcallinan@mlj-llc.com>, Francisca Johnson <fjohnson@mlj-llc.com>, mjohnson@mlj-llc.com, Parry Klassen <pklassen@unwiredbb.com>, Lara Reising <ltreising@gmail.com>
Subject: Toxicity Exceedance Report - February 2009 Storm
Attachments: ESJWQC_09_ER_Toxicity_February_table_021809.doc

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a) On February 7, 2009, storm monitoring was conducted in the ESJWQC region. Sampling was originally scheduled for February 17, 2009; however due to rain occurring February 5-6 the Coalition sampled earlier to capture any runoff that may be occurring in the region. Toxicity to Ceriodaphnia dubia, Pimephales promelas and Selenastrum capricornutum occurred in samples collected from the Deadman Creek @ Gurr Rd site during this monitoring event. See attached Table 1 for details on this exceedance. Site pictures and flow data for this sampling event were provided to the CVRWQCB by email on February 13, 2009 and are also available on the MLJ-LLC Sharepoint Website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b) Follow-up sampling is not required for these exceedances. Samples will be collected again from this site for the analysis of toxicity on March 17, 2009.

c) Communication with the toxicity laboratory indicates that the ammonia in the samples was 43.1 mg/L and samples were very dark with a strong manure smell. The toxicity laboratory is conducting a TIE and dilution series to further characterize the source of the toxicity but it appears that ammonia is the cause of the toxicity to all three species. Deadman Creek @ Gurr Rd experienced toxicity to Pimephalesin previous events and actions that will be taken to address these exceedances are described in the ESJWQC Management Plan. Pimephales toxicity is a priority D constituent in the Site Subwatershed Management Plan for Deadman Creek. This is the second toxicity of Selenastrum and will therefore be addressed in the ESJWQC Management Plan update. This is the first toxicity of Ceriodaphnia in samples collected from Deadman Creek @ Gurr Rd; if a second Ceriodaphnia toxicity occurs than it will be addressed in the ESJWQC Management Plan update.

Mike Johnson

Table 1. Water sample toxicity in samples collected during normal monitoring (NM) for ESJWQC receiving waters on February 7, 2009.

Sample Site	Sample Date	Sample Type	*Ceriodaphnia dubia*	*Pimephales promelas*	*Selenastrum capricornutum*
			% survival relative to the control	% survival relative to control	% growth relative to the control
Deadman Creek @ Gurr Rd	2/07/09	NM	0[a]	0[a]	9.6[a]

[a]TIE initiated (0 and 100% sample)

Sent: Wednesday, February 18, 2009 at 11:13 AM
From: Melissa Turner <mturner@mlj-llc.com>
To: Dania Huggins <dhuggins@waterboards.ca.gov>

Cc: K Callinan <kcallinan@mlj-llc.com>, Francisca Johnson <fjohnson@mlj-llc.com>, mjohnson@mlj-llc.com, Parry Klassen <pklassen@unwiredbb.com>, Lara Reising <ltreising@gmail.com>
Subject: Toxicity Exceedance Report - February 2009 Storm
Attachments: ESJWQC_09_ER_Toxicity_February_table_021809.doc

Dania,

The toxicity exceedance report has been updated to include toxicity to Selenastrum in samples collected from Mootz Drain on February 7, 2009. Please see the revised exceedance report below and an updated attached table.

Melissa

From: Melissa Turner [mailto:mturner@mlj-llc.com]
Sent: Wednesday, February 18, 2009 9:54 AM
To: 'Dania Huggins'
Cc: 'K Callinan'; 'Francisca Johnson'; 'mjohnson@mlj-llc.com'; 'Parry Klassen'; 'Lara Reising'
Subject: Toxicity Exceedance Report - February 2009 Storm

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a) On February 7, 2009, storm monitoring was conducted in the ESJWQC region. Sampling was originally scheduled for February 17, 2009; however due to rain occurring February 5-6 the Coalition sampled earlier to capture any runoff that may be occurring in the region. Toxicity to Ceriodaphnia dubia, Pimephales promelas and Selenastrum capricornutum occurred in samples collected from the Deadman Creek @ Gurr Rd site and toxicity to Selenastrum occurred in samples from Mootz Drain @ Langworth Rd during this monitoring event. See attached Table 1 for details on this exceedance. Site pictures and flow data for this sampling event were provided to the CVRWQCB by email on February 13, 2009 and are also available on the MLJ-LLC Sharepoint Website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b) Follow-up sampling is not required for these exceedances. Samples will be collected again from this site for the analysis of toxicity on March 17, 2009.

c) Communication with the toxicity laboratory indicates that the ammonia in the samples collected from Deadman Creek @ Gurr Rd was 43.1 mg/L; samples were very dark with a strong manure smell. The toxicity laboratory is conducting a TIE and dilution series to further characterize the source of the toxicity but it appears that ammonia is the cause of the toxicity to all three species. Deadman Creek @ Gurr Rd experienced toxicity to Pimephalesin previous events and actions that will be taken to address these exceedances are described in the ESJWQC Management Plan. Pimephales. This is the second toxicity of Selenastrum and will therefore be addressed in the ESJWQC Management Plan update. This is the first toxicity of Ceriodaphnia in samples collected from Deadman Creek @ Gurr Rd and the first toxicity of Selenastrum in samples collected from Mootz Drain @ Langworth Rd; if a second toxicity occurs than these exceedances will be addressed in the ESJWQC Management Plan update.

Mike Johnson

Table 1. Water sample toxicity in samples collected during normal monitoring (NM) for ESJWQC receiving waters on February 7, 2009.

Sample Site	Sample Date	Sample Type	*Ceriodaphnia dubia*	*Pimephales promelas*	*Selenastrum capricornutum*
			% survival relative to the control	% survival relative to control	% growth relative to the control
Mootz Drain @ Langworth Rd	2/07/09	NM			72
Mootz Drain @ Langworth Rd (FD)	2/07/09	NM			73
Deadman Creek @ Gurr Rd	2/07/09	NM	0[a]	0[a]	9.6[a]

[a]TIE initiated (0 and 100% sample)
FD – field duplicate

Sent: Friday, February 20, 2009 at 2:16 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Metals, E.coli and Nutrients Exceedance Report - January 2009
Attachments: ESJWQC_09_January_ ER_Ecoli_Nut_Metal_January_022009_final.xls

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On January 20, 2009 regular monitoring was conducted in the ESJWQC region. Water was collected for the analysis of physical parameters, nutrients, metals and bacteria. Final data for this event were received from the laboratory on February 18, 2009. Exceedances of receiving water limitations for E. coli, total dissolved solids (TDS), ammonia, nitrogen and arsenic were detected. Seven of the twelve sites sampled during this event were dry. Details on the sites and constituents sampled, and the exceedances are provided in an excel spreadsheet attached to this email. Raw data are available upon request. Site pictures and flow data from this event have been provided by email but are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx, username: ftpuser, password: Aqua2007!).

Follow-up sampling is not required for these exceedances. Sampling occurred again at these sites on February 7, 2009, and results from those samples should indicate where water quality exceedances included in this report are persistent.

c.) Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outlined therein.

Mike Johnson

--
Krista Callinan
Environmental Specialist

Michael L. Johnson LLC
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Adminsitrative Record
Page 17708

Table 1. ESJWQC_09_January_ ER_Ecoli_Nut_Metal_January_022009_final.xls

Site Name	Monitoring Type	Station Code	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Ammonia (1.5 mg/L)	Arsenic, Total (10 ug/L)	Nitrate-Nitrite (10 mg/L)
Prairie Flower Drain @ Crows Landing	NM	535XPFDCL	1/20/2009		1500			43
Deadman Creek @ Gurr Rd	NM	535XDCAGR	1/20/2009	>2400	470	5.5	18	
Deadman Creek @ Gurr Rd FD	NM	535XDCAGR-FD	1/20/2009	>2400	460	5.4	18	

FD- field duplicate
J- estimated value; between laboratory reporting limit and minimum detection limit
NM- normal monitoring
analysis not a part of the monitoring plan for this site

Adminsitrative Record
Page 17709

Sent: Thursday, March 12, 2009 at 4:54 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: E. coli, Metals, Nutrients Exceedance Report - February 2009
Attachments: ESJWQC_ER_09_E.coli_Nutrients_Inorganics_February_031209_final.xls

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On February 7, 2009 regular monitoring was conducted in the ESJWQC region. Water was collected for the analysis of physical parameters, nutrients, metals and bacteria. Final data for this event were received from the laboratory on March 9, 2009. Exceedances of receiving water limitations for E. coli, total dissolved solids (TDS), ammonia, copper, arsenic and nitrogen were detected. Seven of the twelve sites sampled during this event were dry. Details on the sites and constituents sampled, and the exceedances are provided in an excel spreadsheet attached to this email. Raw data are available upon request. Site pictures and flow data from this event were provided by email on February 13, 2009, but are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx, username: ftpuser, password: Aqua2007!).

Follow-up sampling is not required for these exceedances. Sampling will occur again at these sites on March 17, 2009, and results from those samples should indicate where water quality exceedances included in this report are persistent.

c.) Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outlined therein.

Mike Johnson

--
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kcallinan@mlj-llc.com

Table 1. ESJWQC_ER_09_E.coli_Nutrients_Inorganics_February_031209_final.xls

Site Name	Monitoring Type	Station Code	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Ammonia (mg/L)	Copper, Dissolved (based on hardness)	Arsenic, Total (10 ug/L)	Nitrate-Nitrite, as N (10 mg/L)
Prairie Flower Drain @ Crows Landing	NM	535XPFDCL	2/7/2009		1300				31
Mustang Creek @ East Ave	NM	535XMCAEA	2/7/2009		560		25		12
Duck Slough @ Gurr Rd	NM	535XDSAGR	2/7/2009						13
Deadman Creek @ Gurr Rd	NM	535XDCAGR	2/7/2009	>2400	1100	50		30	
Cottonwood Creek @ Rd 20	NM	545XCCART	2/7/2009	>2400					

NM- normal monitoring
analysis not a part of the monitoring plan for this site

Adminsitrative Record
Page 17711

Sent: Thursday, March 12, 2009 at 5:17 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Chris Jimmerson <cjimmerson@waterboards.ca.gov>
Cc: kcallinan@mlj-llc.com,
Francisca Johnson <fjohnson@mlj-llc.com>,
Lara Reising <ltreising@gmail.com>,
Melissa Turner <mturner@mlj-llc.com>,
Mike Johnson <mjohnson@mlj-llc.com>,
Parry Klassen <pklassen@unwiredbb.com>
Subject: Re: E. coli, Metals, Nutrients Exceedance Report - February 2009
Attachments: ESJWQC_ER_09_E.coli_Nutrients_Inorganics_February_031209_final_amended.xls

Dear Dania,

I am writing to amend this exceedance report (below). During the sampling event on February 7, 2009, three of the 12 monitoring sites were dry during this event and were not sampled. Also, two of the five sites with exceedances were either not flowing or contained isolated pools of water. Attached is an amended exceedance table which notes the flow for each site.

Please let us know if you have any questions on this amended report.

Sincerely,

Krista

- Show quoted text -
On Thu, Mar 12, 2009 at 4:54 PM, K Callinan <kcallinan@mlj-llc.com> wrote:

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On February 7, 2009 regular monitoring was conducted in the ESJWQC region. Water was collected for the analysis of physical parameters, nutrients, metals and bacteria. Final data for this event were received from the laboratory on March 9, 2009. Exceedances of receiving water limitations for E. coli, total dissolved solids (TDS), ammonia, copper, arsenic and nitrogen were detected. Seven of the twelve sites sampled during this event were dry. Details on the sites and constituents sampled, and the exceedances are provided in an excel spreadsheet attached to this email. Raw data are available upon request. Site pictures and flow data from this event were provided by email on February 13, 2009, but are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx, username: ftpuser, password: Aqua2007!).

Follow-up sampling is not required for these exceedances. Sampling will occur again at these sites on March 17, 2009, and results from those samples should indicate where water quality exceedances included in this report are persistent.

c.) Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outlined therein.

Mike Johnson

--
Krista Callinan
Environmental Specialist
Michael L. Johnson LLC
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Tel: 530-756-5200
Fax: 530-756-5225
kcallinan@mlj-llc.com

Table 1. ESJWQC_ER_09_E.coli_Nutrients_Inorganics_February_031209_final_amended.xls

Site Name	Monitoring Type	Station Code	Flow	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Ammonia (mg/L)	Copper, Dissolved (based on hardness)	Arsenic, Total (10 ug/L)	Nitrate-Nitrite, as N (10 mg/L)
Prairie Flower Drain @ Crows Landing	NM	535XPFDCL	Flowing	2/7/2009		1300				31
Mustang Creek @ East Ave	NM	535XMCAEA	No observed flow	2/7/2009		560		25		12
Duck Slough @ Gurr Rd	NM	535XDSAGR	Flowing	2/7/2009						13
Deadman Creek @ Gurr Rd	NM	535XDCAGR	Flowing	2/7/2009	>2400	1100	50		30	
Cottonwood Creek @ Rd 20	NM	545XCCART	Isolated pools	2/7/2009	>2400					

NM- normal monitoring
analysis not a part of the monitoring plan for this site

Sent: Friday, March 20, 2009 at 11:42 AM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Field Exceedance Report - March 2009
Attachments: ESJ_FieldResults_Discharge_031709.xls; ESJWQC_Site_pictures_031709_Compressed.pdf

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On March 17, 2009 normal monitoring was conducted at sites in the ESJWQC region. During sampling, field parameters were measured. Five sites were dry or too shallow to collect samples during this monitoring event including Lateral 2 ½ Near Keys Rd, Cottonwood Creek @ Rd 20, Ash Slough @ Ave 21, Howard Lateral @ Hwy 140 and Highline Canal @ Hwy 99. At sites that were sampled, exceedances of receiving water limitations for pH, dissolved oxygen (DO) and specific conductance (SC) were detected during this sampling event. See attached Table 1 for details, including flow measured at each site. Site pictures taken from each of the monitoring sites during this event are also attached to this email, as a pdf. If you wish to see the raw data for these exceedances, we can supply a scanned copy of the field sheets upon request.

b.) Field parameters will be measured again at these sites on April 21, 2009 for the first irrigation monitoring event.

c.) Exceedances in pH occur occasionally and intermittently in the Coalition region and are difficult to source. The high pH experienced during this monitoring event may be due natural conditions of the water body, among other possible sources. DO exceedances are common in the Coalition region and may be due to low flow and/or high levels of biological oxygen demand in the test drains (this may not be the case for all samples). Sites sampled in previous events have also experienced frequent DO exceedances. Measures of SC are consistently high at some sites in the ESJWQC Coalition region. Potential sources of salts and metals (detected in the field as conductivity) include upstream surface water, ground water or drain water from irrigated agricultural lands. Any exceedance(s) that occur more than once at a site will be addressed in the ESJWQC Management Plan. An update to the Coalition Management Plan will be submitted on April 1, 2009.

Mike Johnson

--
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kcallinan@mlj-llc.com

Table 1. ESJ_FieldResults_Discharge_031709.xls

Station Name	Project Code	Station Code	Sample Date	Collection Time	Group	Discharge	DO	SC	pH	Comments
Deadman Creek (Dutchman) @ Gurr Rd	ILRP_ESJWQC	535XDCAGR	3/17/2009	10:30	Winter2	0				Discharge not measured due to no visible flow.
Dry Creek @ Wellsford Rd	ILRP_ESJWQC	535XDCAWR	3/17/2009	10:50	Winter2	2.73				
Duck Slough @ Gurr Rd	ILRP_ESJWQC	535XDSAGR	3/17/2009	11:20	Non Contiguous, Winter2	0			9.7	Non contiguous waterbody. Discharge not measured due to non contiguous water body.
Merced River @ Santa Fe	ILRP_ESJWQC	535XMRSFD	3/17/2009	13:20	Winter2	261				
Mootz Drain @ Langworth Rd	ILRP_ESJWQC	535XMDALR	3/17/2009	8:50	Non Contiguous, Winter2	0	4.01			Non contiguous water body. Discharge not measured due to non contiguous water body.
Mustang Creek @ East Ave	ILRP_ESJWQC	535XMCAEA	3/17/2009	14:20	Non Contiguous, Winter2	0		1042		Non contiguous water body. Discharge not measured due to no visible flow.
Prairie Flower Drain @ Crows Landing Rd	ILRP_ESJWQC	535XPFDCL	3/17/2009	12:40	Winter2	0.12		2394	8.74	

Sent: Thursday, March 26, 2009 at 12:23 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Pesticide Exceedance Report - February 2009
Attachments: ESJWQC_09_February_ER_Pesticides_table_032609.doc

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On February 7, 2009, normal monitoring was conducted in the ESJWQC region. Water was collected for analysis of pesticides. There was one dry site during this sampling event (Lateral 2 ½ near Keyes Rd). Data were received from the laboratory on March 20, 2008. Exceedance level detections of diuron were found in the grab and the field duplicate samples collected from Mootz Drain @ Langworth Rd during this monitoring event. See attached Table 1 for details on the exceedances. During this event, the water in Mootz Drain was non-contiguous and therefore flow was not measured. Site pictures and flow data for all sites monitored during this sampling event were provided to the CVRWQCB by email on February 13, 2009 and are also available on the MLJ-LLC Sharepoint Website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b.) Follow-up sampling is not required for these exceedances. Samples were collected again from this site for the analysis of pesticides on March 17, 2009. Results from the March sampling event will indicate whether the exceedances included in this report are persistent.

c.) Mootz Drain @ Langworth Rd was added as an ESJWQC sampling site in October of 2008, and this is the first exceedance of diuron to occur at this site. If additional exceedances of diuron occur at this site, then actions that will be taken to address these exceedances will be described in an ESJWQC Management Plan update.

Mike Johnson

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Krista Callinan
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kcallinan@mlj-llc.com

Table 1. Water sample toxicity in samples collected during normal monitoring (NM) for ESJWQC receiving waters on February 7, 2009.

Sample Site	Sample Date	Season	Sample Type	Diuron (µg/L)
Mootz Drain @ Langworth Rd	2/7/2009	Non contiguous, Storm1	NM	2.1

Sample Site	Sample Date	Season	Sample Type	Diuron (µg/L)
Mootz Drain @ Langworth Rd - FD	2/7/2009	Non contiguous, Storm1	NM	2.1

Sent: Thursday, March 26, 2009 at 4:12 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Toxicity Exceedance Report - March 2009
Attachments: ESJWQC_09_March_ER_Toxicity_table_032608.doc

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On March 17, 2009, normal monitoring was conducted in the ESJWQC region. Water was collected for analysis of water column toxicity. Toxicity to Ceriodaphnia dubia occurred in samples collected from the Deadman Creek @ Gurr Rd site during this monitoring event. See attached Table 1 for details on this exceedance. There was no visible flow in the Deadman Creek at this time of sampling. Site pictures and flow data for all sites sampled during this event were provided to the CVRWQCB by email on March 20, 2009 and are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b.) Follow-up sampling is not required for these exceedances. Samples will be collected again from this site for the analysis of toxicity on April 21, 2009. Results from the February sampling event will indicate whether the toxicity included in this report is persistent.

c.) Samples collected from the Deadman Creek @ Gurr Rd site tested toxic to Ceriodaphnia once previous to this event. Actions that will be taken to address these exceedances will be described in detail in an ESJWQC Management Plan update.

Mike Johnson

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Krista Callinan
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Table 1. Water sample toxicity in samples collected during normal monitoring (NM) for ESJWQC receiving waters on March 17, 2009.

Sample Site	Sample Date	Sample Type	*Ceriodaphnia dubia* (% survival relative to control)
Deadman Creek @ Gurr Rd	3/17/09	NM	10*

* TIE initiated (0 and 100% sample)

Sent: Tuesday, April 7, 2009 at 4:25 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: E. coli, Nutrients and Inorganics Exceedance Report - March 2009
Attachments: ESJWQC_ER_09_E.coli_Nutrients_Inorganics_March_040709.xls

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On March 17, 2009 regular monitoring was conducted in the ESJWQC region. Water was collected for the analysis of physical parameters, nutrients, metals and bacteria. Final data for this event were received from the laboratory on April 6, 2009. Exceedances of receiving water limitations for E. coli, total dissolved solids (TDS), arsenic and nitrogen were detected. All sites contained water during the March sampling event, however of those included in this report, Mustang Creek @ East Ave was non-contiguous and Deadman Creek @ Gurr Rd was not flowing. Details on the sites and constituents sampled, and the exceedances are provided in an excel spreadsheet attached to this email. Raw data are available upon request. Site pictures and flow data from this event were provided by email on March 20, 2009, and are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx, username: ftpuser, password: Aqua2007!).

Follow-up sampling is not required for these exceedances. Sampling will occur again at these sites on April 21, 2009, and results from those samples should indicate where water quality exceedances included in this report are persistent.
- Show quoted text -

c.) Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outlined therein.

Mike Johnson

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Davis, CA 95618

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Table 1. ESJWQC_ER_09_E.coli_Nutrients_Inorganics_March_040709.xls

Site Name	Monitoring Type	Station Code	Season	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Arsenic, Total (10 ug/L)	Nitrate-Nitrite, as N (10 mg/L)
Dry Creek @ Wellsford Rd	NM	535XDCAWR	Winter2	3/17/2009	250			
Prairie Flower Drain @ Crows Landing	NM	535XPFDCL	Winter2	3/17/2009		1400		34
Mustang Creek @ East Ave	NM	535XMCAEA	Non Contiguous, Winter2	3/17/2009		710		33
Deadman Creek @ Gurr Rd	NM	535XDCAGR	Winter2	3/17/2009	1600		14	

FD- field duplicate
J- estimated value; between laboratory reporting limit and minimum detection limit
NM- normal monitoring
analysis not a part of the monitoring plan for this site

Sent: Friday, April 24, 2009 at 2:02 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Field Exceedance Report - April 2009
Attachments: ESJ_FieldResults_Discharge_042109.xls; ESJWQC_Site_pictures_042109_Compressed.pdf

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On April 21, 2009 normal monitoring and storm sediment sampling were conducted at sites in the ESJWQC region. During sampling, field parameters were measured. Three sites were dry during this monitoring event including Ash Slough @ Ave 21, Cottonwood Creek @ Rd 20 and Deadman Creek @ Hwy 59. Mustang Creek @ East Ave contained puddled water that was too shallow to collect water samples (see attached site pictures), however sediment was collected from the site. During this sampling event, exceedances of receiving water limitations for pH, dissolved oxygen (DO) and specific conductance (SC) were detected. See attached Table 1 for details, including flow measured at each site. Site pictures taken from each of the monitoring sites during this event are also attached to this email, as a pdf. If you wish to see the raw data for these exceedances, we can supply a scanned copy of the field sheets upon request.

b.) Field parameters will be measured again at these sites on May 19, 2009 for the second irrigation monitoring event.

c.) Exceedances in pH occur occasionally and intermittently in the Coalition region and are difficult to source. The high pH experienced during this monitoring event may be due natural conditions of the water body, among other possible sources. DO exceedances are common in the Coalition region and may be due to low flow and/or high levels of biological oxygen demand in the test drains (this may not be the case for all samples). Sites sampled in previous events have also experienced frequent DO exceedances. Measures of SC are consistently high at some sites in the ESJWQC Coalition region. Potential sources of salts and metals (detected in the field as conductivity) include upstream surface water, ground water or drain water from irrigated agricultural lands. Any exceedance(s) that occur more than once at a site will be addressed in the next ESJWQC Management Plan update.

Mike Johnson

--
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Davis, CA 95618

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Fax: 530-756-5225
kcallinan@mlj-llc.com

Table 1. ESJ_FieldResults_Discharge_042109.xls

Station Name	Station Code	Sample Date	Collection Time	Group	Discharge	DO	SC	pH	Comments
Ash Slough @ Ave 21	545XASAAT	21/Apr/2009	9:55	Irrigation1	-88				Dry site, no samples collected.
Cottonwood Creek @ Rd 20	545XCCART	21/Apr/2009	9:10	Irrigation1	-88				Dry site, no samples collected.
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	21/Apr/2009	12:00	Irrigation1	0.99				
Deadman Creek @ Hwy 59	535DMCAHF	21/Apr/2009	11:28	Irrigation1	-88				Dry site, no samples collected. April Management plan sampling for Selenastrum toxicity.
Dry Creek @ Wellsford Rd	535XDCAWR	21/Apr/2009	11:20	Irrigation1	15.27				Pipe upstream actively discharging into Dry creek.
Duck Slough @ Hwy 99	535XDSAHN	21/Apr/2009	10:40	Irrigation1	-88				April Management plan sampling for Selenastrum toxicity. Discharge not measured due to toxicity monitoring only.
Highline Canal @ Hwy 99	535XHCHNN	21/Apr/2009	15:50	Irrigation1	8.64				April Management plan sampling for Selenastrum toxicity.
Hilmar Drain @ Central Ave	535XHDACA	21/Apr/2009	14:50	Irrigation1	-88		904		April Management plan sampling for Selenastrum toxicity. Discharge not measured due to toxicity monitoring only.
Howard Lateral @ Hwy 140	535XHLAHO	21/Apr/2009	14:30	Irrigation1	0	1.55			Discharge not measured due to flow too low to be measured.
Lateral 2 1/2 near Keys Rd	535LTHNKR	21/Apr/2009	12:50	Irrigation1	16.15			9.2	
Merced River @ Santa Fe	535XMRSFD	21/Apr/2009	15:50	Irrigation1	211				
Miles Creek @ Reilly Rd	535XMCARR	21/Apr/2009	11:20	Irrigation1	-88	6.3			April Management plan sampling for Selenastrum toxicity. Discharge not measured due to toxicity monitoring only.
Mootz Drain @ Langworth Rd	535XMDALR	21/Apr/2009	9:00	Irrigation1	0	3.14			Discharge not measured due to no observed flow.

Station Name	Station Code	Sample Date	Collection Time	Group	Discharge	DO	SC	pH	Comments
Mustang Creek @ East Ave	535XMCAEA	21/Apr/2009	17:00	Irrigation1	0	0.98	1433		Water too shallow to fill bottles, no water samples collected. Discharge not measured due to no visible flow.
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	21/Apr/2009	14:20	Irrigation1	0.3		2223		April Management plan sampling for Selenastrum toxicity.

Sent: Monday, May 11, 2009 at 2:17 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Sediment Toxicity Exceedance Report - April 2009
Attachments: ESJWQC_09_April_ER_Toxicity_Sediment_table_051109.doc

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On April 21, 2009, normal monitoring was conducted in the ESJWQC region. During this event sediment was collected to test for toxicity to Hyalella azteca at Assessment Monitoring locations. Sediment samples were also analyzed for percent solids, grain size and total organic carbon (TOC). Toxicity to Hyalella azteca occurred in samples collected from the Lateral 2 ½ near Keyes Rd site; see attached Table 1 for details. Site pictures and flow data for all sites sampled during this event were provided to the CVRWQCB by email on March 20, 2009 and are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b.) Although samples from the Lateral 2 ½ site were toxic, the percent survival relative to the control was greater than 80% and therefore no additional chemistry will be performed. This is the first of two sediment sampling events that will be conducted for the Coalition in 2009. The second sediment monitoring event will be conducted on August 18, 2009.

c.) Lateral 2 ½ near Keyes Rd has not experienced toxicity to Hyalella previous to this event. If sediment toxicity occurs again at this site, then the toxicity will be included in the ESJWQC Management Plan.

Mike Johnson
--

Krista Callinan
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Tel: 530-756-5200
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kcallinan@mlj-llc.com

Table 1. Sediment toxicity in samples collected during normal monitoring (NM) for ESJWQC receiving waters on April 21, 2009.

Sample Site	Sample Date	Sample Type	*Hyalella azteca* (% survival relative to control)
Lateral 2 ½ near Keyes Rd	4/21/09	NM	90

Sent: Friday, May 22, 2009 at 2:01 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Field Exceedance Report - May 2009
Attachments: ESJ_FieldResults_Discharge_051909.xls; ESJWQC_Site_pictures_051909_Compressed.pdf

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On May 19, 2009 normal monitoring was conducted at sites in the ESJWQC region. During sampling, field parameters were measured. One site was dry during this monitoring event; Mustang Creek @ East Ave. Exceedances of receiving water limitations for dissolved oxygen (DO) and specific conductance (SC) were detected at some of the sites sampled during this event. See attached Table 1 for details, including flow measured at each site. Site pictures taken from each of the monitoring sites during this event are also attached to this email, as a pdf. If you wish to see the raw data for these exceedances, we can supply a scanned copy of the field sheets upon request.

b.) Field parameters will be measured again at these sites on June 16, 2009 for the third irrigation monitoring event.

c.) DO exceedances are common in the Coalition region and may be due to low flow and/or high levels of biological oxygen demand in the test drains (this may not be the case for all samples). Sites sampled in previous events have also experienced frequent DO exceedances. Measures of SC are consistently high at some sites in the ESJWQC region. Potential sources of salts and metals (detected in the field as conductivity) include upstream surface water, ground water or drain water from irrigated agricultural lands. Any exceedance(s) that occur more than once at a site will be addressed in the ESJWQC Management Plan. An update to the Coalition Management Plan will be submitted on April 1, 2009.

Mike Johnson
--

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Table 1. ESJ_FieldResults_Discharge_051909.xls

Station Name	Station Code	Sample Date	Sample Time	Group	Discharge	DO	SC	Comments
Ash Slough @ Ave 21	545XASAAT	19/May/2009	11:30	Irrigation2	0.51	6.99		
Cottonwood Creek @ Rd 20	545XCCART	19/May/2009	9:10	Irrigation2	15.88	6.72		
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	19/May/2009	12:50	Irrigation2	6.74			
Dry Creek @ Wellsford Rd	535XDCAWR	19/May/2009	11:30	Irrigation2	17.9	6.24		
Duck Slough @ Gurr Rd	535XDSAGR	19/May/2009	13:40	Irrigation2	0.19			
Duck Slough @ Hwy 99	535XDSAHN	19/May/2009	9:00	Irrigation2	NA			May Management plan sampling for chlorpyrifos. Too deep to take discharge.
Highline Canal @ Lombardy Rd	535XHCALR	19/May/2009	16:00	Irrigation2	NA			May Management plan sampling for selenastrum toxicity. Discharge not measured due to toxicity monitoring only.
Howard Lateral @ Hwy 140	535XHLAHO	19/May/2009	14:40	Irrigation2	0		810	Discharge not measured due to no visible flow.
Lateral 2 1/2 near Keys Rd	535LTHNKR	19/May/2009	13:00	Irrigation2	5.07			
Merced River @ Santa Fe	535XMRSFD	19/May/2009	15:30	Irrigation2	208			
Mootz Drain @ Langworth Rd	535XMDALR	19/May/2009	9:00	Irrigation2	3.42	4.59		
Mustang Creek @ East Ave	535XMCAEA	19/May/2009	16:14	Irrigation2	NA			Dry site, no samples collected.
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	19/May/2009	14:20	Irrigation2	0.5	4.78	2066	May Management plan sampling for selenastrum toxicity.

*NA - not applicable, discharge not measured (see comments)

Sent: Friday, May 22, 2009 at 2:07 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: E. coli, Nutrients and Physical Parameter Exceedance Report
Attachments: ESJWQC_ER_09_E.coli_Nutrients_TDS_April_052209.xls

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On April 21, 2009 regular monitoring was conducted in the ESJWQC region. Water was collected for the analysis of physical parameters, nutrients, metals and bacteria. Final data for this event were received from the laboratory on May 21, 2009. Exceedances of receiving water limitations for E. coli, total dissolved solids (TDS) and nitrogen were detected. Of the sites included in this report, Mootz Drain @ Langworth Rd was not flowing. Details on the sites and constituents sampled, and the exceedances are provided in an excel spreadsheet attached to this email. Raw data are available upon request. Site pictures and flow data from this event were provided by email on April 24, 2009, and are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx, username: ftpuser, password: Aqua2007!).

b.) Follow-up sampling is not required for these exceedances. Sampling occurred again at these sites on May 19, 2009, and results from those samples should indicate where water quality exceedances included in this report are persistent.

c.) Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outlined therein.

Mike Johnson
--

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Table 1. ESJWQC_ER_09_E.coli_Nutrients_TDS_April_052209.xls

Site Name	Monitoring Type	Station Code	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Nitrate-Nitrite, as N (10 mg/L)
Mootz Drain @ Langworth Rd	NM	535XMDALR	21/Apr/2009	>2400		
Mootz Drain @	NM	535XMDALR-	21/Apr/2009	>2400		

Site Name	Monitoring Type	Station Code	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Nitrate-Nitrite, as N (10 mg/L)
Langworth Rd - FD		FD				
Prairie Flower Drain @ Crows Landing	NM	535XPFDCL	21/Apr/2009	410	1400	24

FD- field duplicate
NM- normal monitoring
analysis not a part of the monitoring plan for this site

Sent: Tuesday, May 26, 2009 at 12:34 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Toxicity Exceedance Report - May 2009
Attachments: ESJWQC_09_May_ER_Toxicity_table_052609.doc

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On May 19, 2009, normal monitoring was conducted in the ESJWQC region. Water was collected for analysis of water column toxicity. Toxicity to Selenastrum capricornutum occurred in samples collected from the Prairie Flower Drain @ Crows Landing Rd, Lateral 2 ½ near Keyes Rd and Howard Lateral @ Hwy 140 sites during this monitoring event. See attached Table 1 for details on these exceedances. There was no visible flow at the Howard Lateral site at the time of sampling. Site pictures and flow data for all sites sampled during this event were provided to the CVRWQCB by email on May 22, 2009 and are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b.) Follow-up sampling is not required for these exceedances. Samples will be collected again from this site for the analysis of toxicity on June 16, 2009. Results from the June sampling event will indicate whether any of the toxicity exceedances in this report are persistent.

c.) Samples collected from the Prairie Flower Drain @ Crows Landing Rd site have tested toxic to Selenastrum previous to this event. Selenastrum toxicity is a priority D constituent in the Management Plan for Priaire Flower Drain. This is the first Selenastrum toxicity to occur at either Lateral 2 ½ near Keyes Rd or Howard Lateral @ Hwy 140. If additional toxicity to Selenastrum occurs at either of these sites, then the exceedances will be addressed in the next ESJWQC Management Plan update.

Mike Johnson
--

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Table 1. Water sample toxicity in samples collected during normal monitoring (NM) for ESJWQC receiving waters on May 19, 2009.

Sample Site	Sample Date	Sample Type	*Selenastrum capricornutum* (% growth relative to control)
Prairie Flower Drain @ Crows Landing Rd	5/19/2009	MP	30*
Lateral 2 ½ near Keyes Rd	5/19/2009	NM	56
Howard Lateral @ Hwy 140	5/19/2009	NM	77

MP – Management Plan sampling
NM – Normal Monitoring
* TIE initiated (0 and 100% sample)

Sent: Wednesday, June 17, 2009 at 3:53 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Field Exceedance Report - June 2009
Attachments: ESJ_FieldResults_Discharge_061609.xls; ESJWQC_Site_pictures_061609_Compressed.pdf

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On June 16, 2009 normal monitoring was conducted at sites in the ESJWQC region. During sampling, field parameters were measured. Two sites were dry during this monitoring event; Ash Slough @ Ave 21 and Mustang Creek @ East Ave. Exceedances of receiving water limitations for dissolved oxygen (DO), specific conductance (SC) and pH were detected at some of the sites sampled during this event. See attached Table 1 for details, including flow measured at each site. Site pictures taken from each of the monitoring sites during this event are also attached to this email, as a pdf. If you wish to see the raw data for these exceedances, we can supply a scanned copy of the field sheets upon request.

b.) Field parameters will be measured again at these sites on July 21, 2009 for the fourth irrigation monitoring event.

c.) DO exceedances are common in the Coalition region and may be due to low flow and/or high levels of biological oxygen demand in the test drains (this may not be the case for all samples). Sites sampled in previous events have also experienced frequent DO exceedances. Measures of SC are consistently high at some sites in the ESJWQC

region. Potential sources of salts and metals (detected in the field as conductivity) include upstream surface water, ground water or drain water from irrigated agricultural lands. Exceedances in pH occur occasionally and intermittently in the Coalition region and are difficult to source. The high pH experienced during this monitoring event may be due natural conditions of the water body, among other possible sources. Any exceedance(s) that occur more than once at a site will be addressed in the ESJWQC Management Plan. An update to the Coalition Management Plan will be submitted on April 1, 2009.

Mike Johnson
--

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Table 1. ESJ_FieldResults_Discharge_061609.xls

Station Name	Station Code	Sample Date	Sample Time	Group	Discharge	DO	SC	pH	Comments
Ash Slough @ Ave 21	545XASAAT	16/Jun/2009	11:00	Irrigation3	NA				Dry site, no samples collected.
Cottonwood Creek @ Rd 20	545XCCART	16/Jun/2009	10:20	Irrigation3	0.51				
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	16/Jun/2009	11:50	Irrigation3	5.4				
Dry Creek @ Wellsford Rd	535XDCAWR	16/Jun/2009	10:50	Irrigation3	44.19				
Duck Slough @ Gurr Rd	535XDSAGR	16/Jun/2009	12:30	Irrigation3	0.49				
Duck Slough @ Hwy 99	535XDSAHN	16/Jun/2009	9:00	Irrigation3, Management Plan Monitoring	NA	6.78			June Management plan sampling for copper. Too deep to take discharge.
Highline Canal @ Hwy 99	535XHCHNN	16/Jun/2009	14:20	Irrigation3	NA			8.95	Too deep to take discharge.
Howard Lateral @ Hwy 140	535XHLAHO	16/Jun/2009	13:30	Irrigation3	5.93				
Lateral 2 1/2 near Keys Rd	535LTHNKR	16/Jun/2009	12:20	Irrigation3	1.55				
Merced River @ Santa Fe	535XMRSFD	16/Jun/2009	14:40	Irrigation3	211				
Mootz Drain @ Langworth Rd	535XMDALR	16/Jun/2009	9:20	Irrigation3	1.18	5.4			
Mustang Creek @ East Ave	535XMCAEA	16/Jun/2009	14:44	Irrigation3	NA				Dry site, no samples collected.
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	16/Jun/2009	13:40	Irrigation3	0.61		2417		

NA - not applicable, discharge was not measured at this site.

Sent: Friday, June 19, 2009 at 4:51 PM- Exceedance Report Amendments
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Exceedance Report amendments - Oct 2008 to Mar 2009
Attachments: ESJWQC_Fall_Winter_09_Exceedance_Reports_Edits_table_061909.doc

Dear Dania,

The Coalition periodically reviews monitoring data as part of its internal monitoring and reporting quality assurance program. After reviewing data from sampling events between October 2008 and January 2009, we identified three exceedance reports that contained typographical errors. Please refer to Table 1, attached, for details on amendments made to each of these reports. These amendments are also described in detail below.
On December 18, 2008 a field exceedance report was submitted for field measurements collected during sampling on December 16, 2008. This report included an exceedance of the water quality trigger limit (WQTL) for pH at the Dry Creek @ Wellsford Rd site. The pH value was misreported as 8.68, while the correct pH value is 8.86 (Table 1).

On January 23, 2009, an exceedance report for E. coli, nutrients and inorganics was submitted for samples collected on December 16, 2008. In the exceedance table attached to this report the sample date was incorrectly reported as 2009 instead of 2008 (Table 1).

On February 18, 2009, a toxicity exceedance report was submitted for samples collected on February 7, 2009. The report included three samples that tested toxic to Selenastrum capricornutum collected from Deadman Creek @ Gurr Rd and Mootz Drain @ Langworth Rd (grab sample and field duplicate sample). The laboratory calculates Selenastrum growth as an absorbance value which is then converted to cell count. However, the exceedance report submitted on February 18, 2009 used the absorbance values to calculate the percent of control values.

Updated percentages based on cell count values are included for the three toxic Selenastrum samples in Table 1; percentages differ by one or two percentage points and does not affect the determination of whether or not the sample was toxic.

Please let us know if you have any questions on these amendments.

Sincerely,
Michael Johnson
--

Krista Callinan
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Fax: 530-756-5225
kcallinan@mlj-llc.com

Table 1. Amendments to submitted exceedance reports – Fall 2008 and Winter 2009.

Exceedance Report File Name	Exceedance Report Date Submitted	Site Name	Sample Date	Parameter	Reported Value	Correct Value	Units
ESJWQC_08_ER_Field_ table_121608	12/18/2008	Dry Creek @ Wellsford Rd	12/16/2008	pH	8.68	8.86	NA
ESJWQC_08_ER_E.coli_Nutrients_Inorganics_ December_012309	1/23/2009	Deadman Creek @ Gurr Rd	12/16/2008	Sample Date	12/16/2009	12/16/2008	NA
		Deadman Creek @ Gurr Rd (FD)	12/16/2008	Sample Date	12/16/2009	12/16/2008	NA
		Mootz Drain @ Langworth Rd	12/16/2008	Sample Date	12/16/2009	12/16/2008	NA
		Prairie Flower Drain @ Crows Landing Rd	12/16/2008	Sample Date	12/16/2009	12/16/2008	NA
ESJWQC_09_ER_Toxicity_February_table_021809	2/18/2009	Deadman Creek @ Gurr Rd	2/7/2009	Selenastrum toxicity	9.6*	7**	% relative to control
		Mootz Drain @ Langworth Rd	2/7/2009	Selenastrum toxicity	72*	71**	% relative to control
		Mootz Drain @ Langworth Rd (FD)	2/7/2009	Selenastrum toxicity	73*	72**	% relative to control

*percent of control based on reported absorbance values.
**percent of control based on reported cell count.

Sent: Friday, July 10, 2009 10:44 AM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: E. coli, Nutrients and Inorganics Exceedance Report - May 2009
Attachments: ESJWQC_ER_09_E.coli_Nutrients_Inorganics_May_070909.xls

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On May 19, 2009 regular monitoring was conducted in the ESJWQC region. Water was collected for

the analysis of physical parameters, nutrients, metals and bacteria. Results for samples collected during this event were delayed due to additional quality control analyses conducted by the laboratory for zinc. The final data were received on July 10, 2009. Exceedances of receiving water limitations for E. coli, total dissolved solids (TDS), ammonia, dissolved copper and nitrogen were detected. Of the sites included in this report, Howard Lateral @ Hwy 140 Rd was not flowing. Details on the sites and constituents sampled, and the exceedances are provided in an excel spreadsheet attached to this email. Raw data are available upon request. Site pictures and flow data from this event were provided by email on May 22, 2009, and are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/ allitems.aspx, username: ftpuser, password: Aqua2007!).

b.) Follow-up sampling is not required for these exceedances. Sampling occurred again at these sites on June 16, 2009, and all exceedances from those samples should indicate where water quality exceedances included in this report are persistent.

c.) Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outlined therein.

Mike Johnson
--

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Table 1. ESJWQC_ER_09_E.coli_Nutrients_Inorganics_May_070909.xls

Site Name	Monitoring Type	Station Code	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Ammonia (mg/L)	Copper, Dissolved (based on hardness)	Nitrate-Nitrite, as N (10 mg/L)
Dry Creek @ Wellsford Rd	NM	535XDCAWR	19/May/2009	260			--	
Mootz Drain @ Langworth Rd	NM	535XMDALR	19/May/2009	>2400				
Mootz Drain @ Langworth Rd - FD	NM	535XMDALR-FD	19/May/2009	>2400				
Prairie Flower Drain @ Crows Landing Rd	NM	535XPFDCL	19/May/2009	>2400	1200	3.2	--	20
Highline Canal @ Hwy 99	NM	535XHCHNN	19/May/2009	340			--	
Howard Lateral @ Hwy 140	NM	535XHLAHO	19/May/2009		530			13
Duck Slough @ Gurr Rd	NM	535XDSAGR	19/May/2009	>2400			7.3	
Deadman Creek @ Gurr Rd	NM	535XDCAGR	19/May/2009	490				
Ash Slough @ Ave 21	NM	545XASAAT	19/May/2009				3	

FD- field duplicate
NM- normal monitoring
-- analysis not a part of the monitoring plan for this site

Sent: Monday, July 13, 2009 4:14 PM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: E. coli, Nutrients and Inorganics Exceedance Report - June 2009
Attachments: ESJWQC_ER_09_E.coli_Nutrients_Inorganics_June_071309.xls

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On June 16, 2009 regular monitoring was conducted in the ESJWQC region. Water was collected for the analysis of physical parameters, nutrients, metals and bacteria. Final data for this event were received from the laboratory on July13, 2009. Exceedances of receiving water limitations for E. coli, total dissolved solids (TDS), ammonia and nitrogen were detected. All sites included in this report were flowing. Details on the sites and constituents sampled, and the exceedances are provided in an excel spreadsheet attached to this email. Raw data are available upon request. Site pictures and flow data from this event were provided by email on June 17, 2009, and are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx, username: ftpuser, password: Aqua2007!).

b.) Follow-up sampling is not required for these exceedances. Sampling will occur again at these sites on July 21, 2009, and exceedances from those samples should indicate where water quality exceedances included in this report are persistent.

c.) Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outlined therein.
Mike Johnson
--

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Table1. ESJWQC_ER_09_E.coli_Nutrients_Inorganics_June_071309.xls

Site Name	Monitoring Type	Station Code	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Ammonia (mg/L)	Nitrate-Nitrite, as N (10 mg/L)
Dry Creek @ Wellsford Rd	NM	535XDCAWR	16/Jun/2009	1600			
Mootz Drain @ Langworth Rd	NM	535XMDALR	16/Jun/2009	390			
Mootz Drain @ Langworth Rd - FD	NM	535XMDALR-FD	16/Jun/2009	370			
Prairie Flower Drain @ Crows Landing	NM	535XPFDCL	16/Jun/2009		1400	1.3 (1.21)	22
Deadman Creek @ Gurr Rd	NM	535XDCAGR	16/Jun/2009	730			

FD- field duplicate
NM- normal monitoring

Sent: Monday, July 27, 2009 4:23 PM
From: Melissa Turner <mturner@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: Parry Klassen pklassen@unwiredbb.com, kcallinan@mlj-llc.com, Mike Johnson <mjohnson@mlj-llc.com>, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>,
Subject Field Exceedance Report ESJWQC - July 2009
Attachments: ESJ_FI~1.XLS; ESJWQC~1.PDF

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On July 21, 2009 normal monitoring was conducted at sites in the ESJWQC region. During sampling, field parameters were measured. Three sites were dry during this monitoring event: Ash Slough @ Ave 21, Cottonwood Creek @ Rd 20, and Mustang Creek @ East Ave. Exceedances of receiving water limitations for dissolved oxygen (DO), specific conductance (SC) and pH were detected at some of the sites sampled during this event. See attached Table 1 for details, including flow measured at each site. Site pictures taken from each of the monitoring sites during this event are also attached to this email, as a pdf. Pictures were taken in each of the cardinal directions at each site during this monitoring event. If you wish to see the raw data for these exceedances, we can supply a scanned copy of the field sheets upon request.

b.) Field parameters will be measured again at these sites on August 18, 2009 for the fifth irrigation monitoring event.

c.) DO exceedances are common in the Coalition region and may be due to low flow and/or high levels of biological oxygen demand in the test drains (this may not be the case for all samples). Sites sampled in previous events have also experienced frequent DO exceedances. Measures of SC are consistently high at some sites in the ESJWQC region. Potential sources of salts and metals (detected in the field as conductivity) include upstream surface water, ground water or drain water from irrigated agricultural lands. Exceedances in pH occur occasionally and intermittently in the Coalition region and are difficult to source. The high pH experienced during this monitoring event may be due natural conditions of the water body, among other possible sources. Any exceedance(s) that occur more than once at a site will be addressed in the ESJWQC Management Plan. An update to the Coalition Management Plan will be submitted on April 1, 2010.

Mike Johnson

Table 1. ESJ_FI~1.XLS

Station Name	Station Code	Sample Date	Collection Time	Group	Discharge	DO	SC	pH	Comments
Ash Slough @ Ave 21	545XASAAT	21/Jul/2009	11:30	Irrigation4	NA				Dry site, no samples collected.
Cottonwood Creek @ Rd 20	545XCCART	21/Jul/2009	10:50	Irrigation4	NA				Dry site, no samples collected.
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	21/Jul/2009	12:30	Irrigation4	0	6.04			Flowing west to east, opposite of usual, due to culvert input downstream of sample location (-2.61 cfs). Actual stream discharge is zero.
Dry Creek @ Wellsford Rd	535XDCAWR	21/Jul/2009	10:50	Irrigation4, Management Plan Monitoring	71.26	5.9			July Management plan sampling for chlorpyrifos.
Dry Creek at Waterford	535XDCWF	21/Jul/2009	11:50	Irrigation4, Management Plan Monitoring	24.73	6.89			July Management plan sampling for chlorpyrifos.
Duck Slough @ Gurr Rd	535XDSAGR	21/Jul/2009	13:20	Irrigation4	2.35				
Duck Slough @ Hwy 99	535XDSAHN	21/Jul/2009	9:50	Irrigation4, Management Plan Monitoring	NA				July Management plan sampling for chlorpyrifos and copper. Too deep to take discharge.
Highline Canal @ Hwy 99	535XHCHNN	21/Jul/2009	8:30	Irrigation4, Management Plan Monitoring	118.93				July Management plan sampling for chlorpyrifos.
Highline Canal @ Lombardy Rd	535XHCALR	21/Jul/2009	16:40	Irrigation4, Management Plan Monitoring	NA				July Management plan sampling for chlorpyrifos and Ceriodaphnia toxicity. Too deep to take discharge.
Howard Lateral @ Hwy 140	535XHLAHO	21/Jul/2009	15:30	Irrigation4	0			8.88	
Lateral 2 1/2 near Keys Rd	535LTHNKR	21/Jul/2009	13:30	Irrigation4	NA				Too shallow to take discharge.

Station Name	Station Code	Sample Date	Collection Time	Group	Discharge	DO	SC	pH	Comments
Merced River @ Santa Fe	535XMRSFD	21/Jul/2009	15:40	Irrigation4	88	6.12			
Miles Creek @ Reilly Rd	535XMCARR	21/Jul/2009	14:00	Irrigation4, Management Plan Monitoring	1.86	6.45			July Management plan sampling for chlorpyrifos and copper.
Mootz Drain @ Langworth Rd	535XMDALR	21/Jul/2009	9:00	Irrigation4	2.06	2.18			
Mustang Creek @ East Ave	535XMCAEA	21/Jul/2009	16:07	Irrigation4	NA				Dry site, no samples collected.
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	21/Jul/2009	14:40	Irrigation4	4.15		1366		

NA - not applicable, discharge was not measured at this site.

Sent: Thursday, July 30, 2009 10:53 AM
From: K Callinan <kcallinan@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: kcallinan@mlj-llc.com, Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>
Subject: Pesticides Exceedance Report ESJWQC - June 2009
Attachments: ESJWQC_09_June_ER_Pesticides_table_072909_FINAL.doc

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On June 16, 2009, normal monitoring was conducted in the ESJWQC region. Water was collected for analysis of pesticides. There were two dry sites during this sampling event (Ash Slough @ Avenue 21 and Mustang Creek @ East Avenue). Finalized data were received from the laboratory on July 28, 2009. Exceedance level detections of chlorpyrifos were found in the grab and field duplicate samples collected from Mootz Drain @ Langworth Rd during this monitoring event. See attached Table 1 for details on the exceedances. Site pictures and flow data for all sites monitored during this sampling event were provided to the CVRWQCB by email on June 17, 2009 and are also available on the MLJ-LLC Sharepoint Website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b.) Follow-up sampling is not required for these exceedances. Samples were collected again from this site for the analysis of pesticides on July 21, 2009. Results from the July sampling event will indicate whether the exceedances included in this report are persistent.

c.) Mootz Drain @ Langworth Rd was added as an ESJWQC sampling site in October of 2008, and this is the second exceedance of chlorpyrifos to occur at this site (the first exceedance was 0.017 µg/L and occurred on December 16, 2008). Actions that will be taken to address these exceedances will be described in an ESJWQC Management Plan update.

Mike Johnson
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Krista Callinan
Environmental Specialist
Michael L. Johnson LLC
1490 Drew Ave, Suite 175
Davis, CA 95618

Tel: 530-756-5200
Fax: 530-756-5225
kcallinan@mlj-llc.com

Table 1. Water sample toxicity in samples collected during normal monitoring (NM) for ESJWQC receiving waters on June 16, 2009.

Sample Site	Sample Date	Season	Sample Type	Chlorpyrifos (µg/L)
Mootz Drain @ Langworth Rd - FD	6/16/2009	Irrigation3	NM	0.066
Mootz Drain @ Langworth Rd - GR	6/16/2009	Irrigation3	NM	0.033

Sent: Friday, August 21, 2009 at 4:46 PM
From: Rachel West <rwest@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen pklassen@unwiredbb.com, Krista <kcallinan@mlj-llc.com>, Rachel West <rwest@mlj-llc.com>
Subject: Field Exceedance Report-ESJWQC-August 2009
Attachments: ESJ_FieldResults_Discharge_081809.xls; ESJWQC_Site_pictures_081809_Compressed.pdf

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On August 18, 2009 normal monitoring, Management Plan monitoring, and sediment sampling were conducted at sites in the ESJWQC region. During sampling, field parameters were measured. Three sites were dry during this monitoring event: Ash Slough @ Ave 21, Deadman Creek @ Hwy 59, and Mustang Creek @ East Ave. Exceedances of receiving water limitations for dissolved oxygen (DO), specific conductance (SC) and pH were detected at some of the sites sampled during this event. See attached Table 1 for details, including flow measured at each site. Site pictures taken from each of the monitoring sites during this event are also attached to this email, as a pdf. If you wish to see the raw data for these exceedances, we can supply a scanned copy of the field sheets upon request.

b.) Field parameters will be measured again at these sites on September 22, 2009 for the sixth irrigation monitoring event.

c.) DO exceedances are common in the Coalition region and may be due to low flow and/or high levels of biological oxygen demand in the test drains (this may not be the case for all samples). Sites sampled in previous events have also experienced frequent DO exceedances. Measures of SC are consistently high at some sites in the ESJWQC region. Potential sources of salts and metals (detected in the field as conductivity) include upstream surface water, ground water or drain water from irrigated agricultural lands. Exceedances in pH occur occasionally and intermittently in the Coalition region and are difficult to source. The high pH experienced during this monitoring event may be due natural conditions of the water body, among other possible sources. Any exceedance(s) that occur more than once at a site will be addressed in the ESJWQC Management Plan. An update to the Coalition Management Plan will be submitted on April 1, 2010.

Mike Johnson

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Rachel C. West
Environmental Scientist
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Michael L. Johnson LLC
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Fax: 530-756-5225

Table 1. ESJ_FieldResults_Discharge_081809.xls

Station Name	Station Code	Sample Date	Collection Time	Group	Discharge	DO	SC	pH	Comments
Ash Slough @ Ave 21	545XASAAT	18/Aug/2009	12:00	Irrigation5	NA				Dry site, no samples collected.
Cottonwood Creek @ Rd 20	545XCCART	18/Aug/2009	10:40	Irrigation5	0.06				Sediment samples collected. SedChem analyzed for toxic samples only. Creek was shallow and sediment was stirred up during sample collection.
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	18/Aug/2009	14:20	Irrigation5	0	6.94			Sediment samples collected. SedChem analyzed for toxic samples only.
Deadman Creek @ Hwy 59	535DMCAHF	18/Aug/2009	13:49	Irrigation5, Management Plan Monitoring	NA				August Management plan sampling for chlorpyrifos. Dry site, no samples collected.
Dry Creek @ Wellsford Rd	535XDCAWR	18/Aug/2009	12:30	Irrigation5, Management Plan Monitoring	47.07				August Management plan sampling for chlorpyrifos.
Dry Creek at Waterford	535XDCWF	18/Aug/2009	13:30	Irrigation5, Management Plan Monitoring	20.76				August Management plan sampling for chlorpyrifos.
Duck Slough @ Gurr Rd	535XDSAGR	18/Aug/2009	15:40	Irrigation5	2.16				
Duck Slough @ Hwy 99	535XDSAHN	18/Aug/2009	9:00	Irrigation5, Management Plan Monitoring	NA				August Management plan sampling for copper. Too deep to take discharge.
Highline Canal @ Hwy 99	535XHCHNN	18/Aug/2009	18:00	Irrigation5	NA			9.03	Too deep to take discharge.
Highline Canal @ Lombardy Rd	535XHCALR	18/Aug/2009	18:20	Irrigation5, Management Plan Monitoring	NA				August Management plan monitoring for chlorpyrifos, copper, and ceriodaphnia toxicity. Too deep to take

Station Name	Station Code	Sample Date	Collection Time	Group	Discharge	DO	SC	pH	Comments
									discharge.
Howard Lateral @ Hwy 140	535XHLAHO	18/Aug/2009	16:30	Irrigation5	2.47			9.14	Sediment samples collected. SedChem analyzed for toxic samples only.
Lateral 2 1/2 near Keys Rd	535LTHNKR	18/Aug/2009	15:10	Irrigation5	15.81				Sediment samples collected. SedChem analyzed for toxic samples only.
Merced River @ Santa Fe	535XMRSFD	18/Aug/2009	18:00	Irrigation5	56				
Miles Creek @ Reilly Rd	535XMCARR	18/Aug/2009	13:20	Irrigation5, Management Plan Monitoring	7.02	6.58			August Management plan sampling for chlorpyrifos and copper.
Mootz Drain @ Langworth Rd	535XMDALR	18/Aug/2009	9:30	Irrigation5	6.63	4.9			Sediment samples collected.
Mustang Creek @ East Ave	535XMCAEA	18/Aug/2009	18:32	Irrigation5	NA				Dry site, no samples collected.
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	18/Aug/2009	16:40	Irrigation5, Management Plan Monitoring	2.85		1984		August Management plan sampling for chlorpyrifos.

NA - not applicable, discharge was not measured at this site.

Sent: Wednesday, August 26, 2009 3:58 PM
From: Rachel West <rwest@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: Francisca Johnson <fjohnson@mlj-llc.com>, Krista <kcallinan@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen pklassen@unwiredbb.com, Rachel West <rwest@mlj-llc.com>
Subject: ESJWQC Caltest Exceedance Report-July 2009
Attachments: ESJWQC_ER_09_E.coli_Nutrients_Inorganics_July_082609.xls

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On July 21, 2009 regular monitoring was conducted in the ESJWQC region. Water was collected for the analysis of physical parameters, nutrients, metals and bacteria. Final data for this event were received from the laboratory on August 24, 2009. Exceedances of receiving water limitations for E. coli, total dissolved solids (TDS), ammonia and nitrogen were detected. Three sites were dry during this sampling event, including Ash Slough @ Ave 21, Cottonwood Creek @ Rd 20 and Mustang Creek @ East Ave. All sites included in this report were flowing. Details on the sites and constituents sampled, and the exceedances are provided in an excel spreadsheet attached to this email. Raw data are available upon request. Site pictures and flow data from this event were provided by email on July 27, 2009, and are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx, username: ftpuser, password: Aqua2007!).

b.) Follow-up sampling is not required for these exceedances. Sampling occurred again at these sites on August 18, 2009. Once results are received, exceedances from those samples should indicate where water quality exceedances included in this report are persistent.

c.) Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outlined therein. The next ESJWQC Management Plan update will be submitted on April 1, 2010.

Michael Johnson
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Table 1. ESJWQC_ER_09_E.coli_Nutrients_Inorganics_July_082609.xls

Site Name	Station Code	Monitoring Type	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Ammonia (mg/L)	Nitrate-Nitrite, as N (10 mg/L)
Dry Creek @ Wellsford Rd	535XDCAWR	NM	21/Jul/2009	270			
Mootz Drain @ Langworth Rd	535XMDALR	NM	21/Jul/2009	2000			
Mootz Drain @ Langworth Rd FD	535XMDALR-FD	NM	21/Jul/2009	1600			
Prairie Flower Drain @ Crows Landing	535XPFDCL	NM	21/Jul/2009		820	1.8	14
Deadman Creek @ Gurr Rd	535XDCAGR	NM	21/Jul/2009	460			

Sent: Friday, August 28, 2009 3:06 PM
From: Rachel West <rwest@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: Francisca Johnson <fjohnson@mlj-llc.com>, Krista <kcallinan@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen pklassen@unwiredbb.com, Rachel West <rwest@mlj-llc.com>
Subject: ESJWCQ Pesticide Exceedance Report-July 2009
Attachments: ESJWQC_09_July_ER_Pesticides_table_082809.doc

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On July 21, 2009, normal monitoring (NM) and Management Plan Monitoring (MPM) were conducted in the ESJWQC region. There were three dry sites during this sampling event (Ash Slough @ Avenue 21, Cottonwood Creek @ Rd 20, and Mustang Creek @ East Avenue). Finalized data were received from the organics laboratory on August 27, 2009. Exceedance level detections of chlorpyrifos were found in the grab samples collected from Highline Canal @ Hwy 99 (MPM), Lateral 2 ½ near Keyes Rd (NM) and Miles Creek @ Reilly Rd (MPM) during this monitoring event. See attached Table 1 for details on the exceedances. Site pictures and flow data for all sites monitored during this sampling event were provided to the CVRWQCB by email on July 21, 2009 and are also available on the MLJ-LLC Sharepoint Website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b.) Samples were collected from Lateral 2 1/2 near Keyes Rd and Miles Creek @ Reilly Rd for the analysis of chlorpyrifos on August 18, 2009, one month after the July exceedance. Highline Canal @ Hwy 99 was not scheduled for sampling during the August 18, 2009 monitoring event since there have been no chlorpyrifos exceedances during previous August sampling events. Results from August sampling will indicate whether the exceedances at Lateral 2 ½ near Keyes Rd and Miles Creek @ Reilly Rd are persistent.

c.) Any exceedance(s) that occur more than once at a site will be addressed in the ESJWQC Management Plan including any follow up actions. Highline Canal @ Hwy 99 and Miles Creek @ Reilly Rd were sampled for chlorpyrifos as part of the ESJWQC Management Plan monitoring schedule. All new exceedances requiring Management Plans as well as Management Plan Monitoring results will be reported in the ESJWQC Management Plan yearly update to be submitted on April 1, 2010.

Mike Johnson

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Fax: 530-756-5225
rwest@mlj-llc.com
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Table 1. Water sample toxicity in samples collected during normal monitoring (NM) and Management Plan Monitoring (MPM) for ESJWQC receiving waters on July 21, 2009.

Sample Site	Sample Date	Season	Sample Type	Chlorpyrifos (µg/L)
Highline Canal @ Hwy 99	7/21/2009	Irrigation4	MPM	0.093
Lateral 2 ½ near Keyes Rd	7/21/2009	Irrigation4	NM	0.049
Miles Creek @ Reilly Rd	7/21/2009	Irrigation4	MPM	0.028

Sent: Thursday, September 24, 2009 5:49 PM
From: Rachel West <rwest@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: Francisca Johnson <fjohnson@mlj-llc.com>, Krista <kcallinan@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen pklassen@unwiredbb.com, Rachel West <rwest@mlj-llc.com>
Subject: ESJWQC September 2009 Field Exceedance Report
Attachments: ESJ_FieldResults_Discharge_092209.xls; ESJWQC_Site_pictures_092209_Compressed.pdf

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On September 22, 2009 normal monitoring and Management Plan monitoring were conducted at sites in the ESJWQC region. During sampling, field parameters were measured. Four sites were dry during this monitoring event: Ash Slough @ Ave 21, Cottonwood Creek @ Rd 20, Deadman Creek @ Hwy 59, and Mustang Creek @ East Ave. Exceedances of receiving water limitations for dissolved oxygen (DO), specific conductance (SC) and pH were detected at some of the sites sampled during this event. See attached Table 1 for details of field water quality trigger limit exceedances as well as the calculated discharge from each site. Site pictures taken from each of the monitoring sites during this event are also attached to this email as a pdf. Scanned copies of the field sheets are available upon request.

b.) Field parameters will be measured again at these sites on October 20, 2009 for the first fall monitoring event except Management Plan monitoring locations (Hilmar Drain @ Central Ave and Miles Creek @ Reilly Ave) which are sampled according the ESJWQC Management Plan Monitoring schedule. Hilmar Drain is already listed under the ESJWQC Management Plan for SC and Miles Creek for DO.

c.) DO exceedances are common in the Coalition region and may be due to low flow and/or high levels of biological oxygen demand in the test drains (this may not be the case for all samples). Sites sampled in previous events have also experienced frequent DO exceedances. Measures of SC are consistently high at some sites in the ESJWQC region. Potential sources of salts and metals (detected in the field as conductivity) include upstream surface water, ground water or drain water from irrigated agricultural lands. Exceedances in pH occur occasionally and intermittently in the Coalition region and are difficult to source. The high pH experienced during this monitoring event may be due natural conditions of the water body, among other possible sources. Any exceedance(s) that occur more than once at a site will be addressed in the ESJWQC Management Plan. An update to the Coalition Management Plan will be submitted on April 1, 2010.

Mike Johnson

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Rachel C. West
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Davis, CA 95618

Tel: 530-756-5200
Fax: 530-756-5225
rwest@mlj-llc.com
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Table 1. ESJ_FieldResults_Discharge_092209.xls

Station Name	Station Code	Sample Date	Collection Time	Group	Discharge, cfs	DO, mg/L	SC, µS/cm	pH	Comments
Ash Slough @ Ave 21	545XASAAT	22/Sep/2009	11:25	Irrigation6	NA				Dry site, no samples collected.
Cottonwood Creek @ Rd 20	545XCCART	22/Sep/2009	10:25	Irrigation6	NA				Dry site, no samples collected.
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	22/Sep/2009	13:40	Irrigation6	5.3				
Deadman Creek @ Hwy 59	535DMCAHF	22/Sep/2009	11:55	Irrigation6, Management Plan Monitoring	NA				Dry site, no samples collected. September Management Plan Monitoring for chlorpyrifos.
Dry Creek @ Wellsford Rd	535XDCAWR	22/Sep/2009	11:00	Irrigation6	42.2				
Duck Slough @ Gurr Rd	535XDSAGR	22/Sep/2009	14:50	Irrigation6	1.73			9	
Duck Slough @ Hwy 99	535XDSAHN	22/Sep/2009	9:00	Irrigation6, Management Plan Monitoring	NA				September Management Plan Monitoring for chlorpyrifos and copper. Too deep to take discharge.
Highline Canal @ Hwy 99	535XHCHNN	22/Sep/2009	16:10	Irrigation6	NA			8.6	Too deep to take discharge.
Hilmar Drain @ Central Ave	535XHDACA	22/Sep/2009	14:10	Irrigation6, Management Plan Monitoring	NA		934		September Management Plan Monitoring for Selenastrum toxicity. Discharge not measured due to toxicity monitoring only.

Station Name	Station Code	Sample Date	Collection Time	Group	Discharge, cfs	DO, mg/L	SC, µS/cm	pH	Comments
Howard Lateral @ Hwy 140	535XHLAHO	22/Sep/2009	17:00	Irrigation6	11.28			9.2	
Lateral 2 1/2 near Keys Rd	535LTHNKR	22/Sep/2009	12:20	Irrigation6	8.41				TID was cleaning the canal the day of sample collection.
Merced River @ Santa Fe	535XMRSFD	22/Sep/2009	15:10	Irrigation6	78				
Miles Creek @ Reilly Rd	535XMCARR	22/Sep/2009	12:40	Irrigation6, Management Plan Monitoring	2.25	6.35			September Management Plan Monitoring for chlorpyrifos.
Mootz Drain @ Langworth Rd	535XMDALR	22/Sep/2009	9:30	Irrigation6	4.83	5.62			
Mustang Creek @ East Ave	535XMCAEA	22/Sep/2009	15:35	Irrigation6	NA				Dry site, no samples collected.
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	22/Sep/2009	13:30	Irrigation6	2.08		2171		

NA - Not applicable; see comments.

Sent: Tuesday, October 13, 2009 at 7:25 AM
From: Rachel West <rwest@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen pklassen@unwiredbb.com, Rachel West <rwest@mlj-llc.com>
Subject: ESJWQC APPL Exceedance Report- August Sampling 2009
Attachments: ESJWQC_09_August_ER_Pesticides_table_101309.doc

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On August 18, 2009, normal monitoring (NM), sediment collection and Management Plan Monitoring (MPM) were conducted in the ESJWQC region. There were three dry sites during this sampling event (Ash Slough @ Avenue 21, Deadman Creek @ Hwy 59, and Mustang Creek @ East Avenue). Finalized data were received from the organics laboratory on October 9, 2009. Exceedance level detections of chlorpyrifos were found in the grab samples collected from Dry Creek @ Wellsford Rd (NM, MPM) during this monitoring event. See attached Table 1 for details on the exceedances. Site pictures and flow data for all sites monitored during this sampling event were provided to the CVRWQCB by email on August 21, 2009 and are also available on the MLJ-LLC Sharepoint Website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b.) Samples were collected from Dry Creek @ Wellsford Rd and upstream at Waterford Rd for chlorpyrifos during the months of July and August as part of the ESJWQC Management Plan Monitoring schedule. This is the first exceedance for this site for 2009. Chlorpyrifos was not detected in samples collected at the upstream location (Dry Creek @ Waterford Rd) on August 18, 2009. Samples will not be collected for chlorpyrifos in Dry Creek again until next July and August as part of the 2010 ESJWQC Management Plan Monitoring schedule.

c.) Dry Creek @ Wellsford Rd was sampled for chlorpyrifos as part of the ESJWQC Management Plan Monitoring schedule. All new exceedances requiring Management Plans as well as Management Plan Monitoring results will be reported in the ESJWQC Management Plan yearly update to be submitted on April 1, 2010.

Mike Johnson

Thanks,
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Rachel C. West
Environmental Scientist
Michael L. Johnson LLC
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Tel: 530-756-5200
Fax: 530-756-5225
rwest@mlj-llc.com

Table 1. Water sample toxicity in samples collected during normal monitoring (NM) and Management Plan monitoring (MPM) for ESJWQC receiving waters on August 18, 2009.

Sample Site	Sample Date	Season	Sample Type	Chlorpyrifos (µg/L)
Dry Creek @ Wellsford Rd.	8-18-09	Irrigation 5	MPM	0.027
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Sent: Tuesday, October 13, 2009 at 7:37 AM
From: Rachel West <rwest@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen pklassen@unwiredbb.com, Rachel West <rwest@mlj-llc.com>
Subject: ESJWQC Caltest Exceedance Report- August 2009
Attachments: ESJWQC_ER_09_E.coli_Nutrients_Inorganics_August_101309.xls

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On August 18, 2009 regular monitoring, sediment collection, and Management Plan Monitoring were conducted in the ESJWQC region. Water was collected for the analysis of physical parameters, nutrients, metals and bacteria. Final data for this event were received from the laboratory on October 8, 2009. Exceedances of receiving water limitations for E. coli, total dissolved solids (TDS), and nitrogen were detected. Two sites were dry during this sampling event: Ash Slough @ Ave 21, and Mustang Creek @ East Ave. All sites with exceedances were contiguous water bodies on the date of sampling. Details on the sites and constituents sampled and associated exceedances are provided in an excel spreadsheet attached to this email. Raw data are available upon request. Site pictures and flow data from this event were provided by email on August 21, 2009, and are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx, username: ftpuser, password: Aqua2007!).

b.) Follow-up sampling is not required for these exceedances. Sampling occurred again at these sites on September 22, 2009. Once results are received, exceedances from those samples should indicate where water quality exceedances included in this report are persistent.

c.) Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outlined therein. The next ESJWQC Management Plan update will be submitted on April 1, 2010.

Michael Johnson
- Show quoted text -

Thanks,
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Rachel C. West
Environmental Scientist
Michael L. Johnson LLC
1490 Drew Ave, Suite 175
Davis, CA 95618

Tel: 530-756-5200
Fax: 530-756-5225
rwest@mlj-llc.com
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Table 1. ESJWQC_ER_09_E.coli_Nutrients_Inorganics_August_101309.xls

Site Name	Station Code	Monitoring Type	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Nitrate-Nitrite, as N (10 mg/L)
Dry Creek @ Wellsford Rd	535XDCAWR	NM	18/Aug/2009	410		
Mootz Drain @ Langworth Rd	535XMDALR	NM	18/Aug/2009	>2400		
Mootz Drain @ Langworth Rd	535XMDALR	FD	18/Aug/2009	>2400		
Prairie Flower Drain @ Crows Landing	535XPFDCL	NM & MPM	18/Aug/2009		1200	22
Lateral 2 1/2 near Keyes Rd	535LTHNKR	NM	18/Aug/2009			15

FD- field duplicate
NM- normal monitoring

Sent: Tuesday, October 13, 2009 at 8:17 AM
From: Rachel West <rwest@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen pklassen@unwiredbb.com, Rachel West <rwest@mlj-llc.com>
Subject: Re: ESJWQC Caltest Exceedance Report- August 2009
Attachments: ESJWQC_ER_09_E.coli_Nutrients_Inorganics_August_101309.xls

Dear Dania,

Below you will find another copy of the exceedance report with an edit to the number of dry sites recorded during the August sampling event. The first report I sent this morning indicated two dry sites which was incorrect. I have changed the number to three and listed all of the sites that were dry.

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On August 18, 2009 regular monitoring, sediment collection, and Management Plan Monitoring were conducted in the ESJWQC region. Water was collected for the analysis of physical parameters, nutrients, metals and bacteria. Final data for this event were received from the laboratory on October 8, 2009. Exceedances of receiving water limitations for E. coli, total dissolved solids (TDS), and nitrogen were detected. Three sites were dry during this sampling event: Ash Slough @ Ave 21, Deadman Creek @ Hwy 59 and Mustang Creek @ East Ave. All sites with exceedances were contiguous water bodies on the date of sampling. Details on the sites and constituents sampled and associated exceedances are provided in an excel spreadsheet attached to this email. Raw data are available upon request. Site pictures and flow data from this event were provided by email on

August 21, 2009, and are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx, username: ftpuser, password: Aqua2007!).

b.) Follow-up sampling is not required for these exceedances. Sampling occurred again at these sites on September 22, 2009. Once results are received, exceedances from those samples should indicate where water quality exceedances included in this report are persistent.

c.) Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outlined therein. The next ESJWQC Management Plan update will be submitted on April 1, 2010.

Michael Johnson

Thanks,
Rachel

Sent: Friday, October 23, 2009 at 9:26 AM
From: Rachel West <rwest@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen pklassen@unwiredbb.com, Rachel West <rwest@mlj-llc.com>
Subject: ESJWQC Field Exceedance Report-October 2009
Attachments: ESJ_FieldResults_Discharge_102009.xls; ESJWQC_Site_pictures_102009_Compressed.pdf

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On October 20, 2009 normal monitoring was conducted at sites in the ESJWQC region. During sampling, field parameters were measured. One site was dry during this monitoring event: Ash Slough @ Ave 21. Exceedances of receiving water limitations for dissolved oxygen (DO), specific conductance (SC) and pH were detected at some of the sites sampled during this event. See attached Table 1 for details of field water quality trigger limit exceedances as well as the calculated discharge from each site. Site pictures taken from each of the monitoring sites during this event are also attached to this email as a pdf. Scanned copies of the field sheets are available upon request.

b.) Field parameters will be measured again at these sites on November 17, 2009 for the second fall monitoring event.

c.) DO exceedances are common in the Coalition region and may be due to low flow and/or high levels of biological oxygen demand in the test drains (this may not be the case for all samples). Sites sampled in previous events have also experienced frequent DO exceedances. Measures of SC are consistently high at some sites in the ESJWQC region. Potential sources of salts and metals (detected in the field as conductivity) include upstream surface water, ground water or drain water from irrigated agricultural lands. Exceedances in pH occur occasionally and intermittently in the Coalition region and are difficult to source. The high pH experienced during this monitoring event may be due natural conditions of the water body, among other possible sources. Any exceedance(s) that

occur more than once at a site will be addressed in the ESJWQC Management Plan. An update to the Coalition Management Plan will be submitted on April 1, 2010.

Mike Johnson

Thanks,

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Rachel C. West
Environmental Scientist
Michael L. Johnson LLC
1490 Drew Ave, Suite 175
Davis, CA 95618

Tel: 530-756-5200
Fax: 530-756-5225
rwest@mlj-llc.com
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Table 1. ESJ_FieldResults_Discharge_102009.xls

Station Name	Station Code	Sample Date	Collection Time	Group	Discharge, cfs	DO, mg/L	SC, µS/cm	pH	Comments
Ash Slough @ Ave 21	545XASAAT	20/Oct/2009	10:40	Fall1	NA				Dry site, no samples collected.
Cottonwood Creek @ Rd 20	545XCCART	20/Oct/2009	9:30	Fall1	NA				Too shallow to take discharge.
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	20/Oct/2009	11:30	Fall1	0	6.08			Discharge not measured due to no visible flow.
Dry Creek @ Wellsford Rd	535XDCAWR	20/Oct/2009	11:10	Fall1	0.84	4.04			
Duck Slough @ Gurr Rd	535XDSAGR	20/Oct/2009	12:30	Fall1	1.72				
Highline Canal @ Hwy 99	535XHCHNN	20/Oct/2009	15:10	Fall1	NA				Too deep to take discharge.
Howard Lateral @ Hwy 140	535XHLAHO	20/Oct/2009	13:50	Fall1	2.37				
Lateral 2 1/2 near Keys Rd	535LTHNKR	20/Oct/2009	12:40	Fall1	13.53			8.7	
Merced River @ Santa Fe	535XMRSFD	20/Oct/2009	15:50	Fall1	141	4.82			
Mootz Drain @ Langworth Rd	535XMDALR	20/Oct/2009	9:00	Fall1, Non Contiguous	0	6.35			Discharge not measured due to non contiguous water body.
Mustang Creek @ East Ave	535XMCAEA	20/Oct/2009	15:20	Fall1, Non Contiguous	0	2.95	870		Discharge not measured due to non contiguous water body.
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	20/Oct/2009	14:00	Fall1	0.72		2459		

NA - Not applicable; see comments.

Sent: Wednesday, November 4, 2009 at 9:35 AM
From: Rachel West <rwest@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen pklassen@unwiredbb.com, Rachel West <rwest@mlj-llc.com>
Subject: ESJWQC E. coli, nutrient, inorganics and metals Exceedance Report- September 2009
Attachments: ESJWQC_ER_09_E.coli_Nutrients_TDS_September_110409.xls

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On September 22, 2009 normal monitoring (NM) and Management Plan Monitoring (MPM) were conducted in the ESJWQC region. Water was collected for the analysis of physical parameters, nutrients, metals and bacteria. Final data for this event were received from the laboratory on November 2, 2009. Exceedances of receiving water limitations for E. coli, total dissolved solids (TDS), and nitrogen were detected. Four sites were dry during this sampling event: Ash Slough @ Ave 21 (NM), Cottonwood Creek @ Rd 20 (NM), Deadman Creek @ Hwy 59 (MPM) and Mustang Creek @ East Ave (NM). All sites with exceedances were contiguous water bodies on the date of sampling. Details on the sites and constituents sampled and associated exceedances are provided in an excel spreadsheet attached to this email. Raw data are available upon request. Site pictures and flow data from this event were provided by email on September 24, 2009, and are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx, username: ftpuser, password: Aqua2007!).

b.) Sampling occurred again at these sites on October 20, 2009. Once results are received, exceedances from those samples should indicate where water quality exceedances included in this report are persistent.

c.) Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outlined therein. The next ESJWQC Management Plan update will be submitted on April 1, 2010.

Michael Johnson

Thanks,

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Rachel C. West
Environmental Scientist
Michael L. Johnson LLC
1490 Drew Ave, Suite 175
Davis, CA 95618

Tel: 530-756-5200
Fax: 530-756-5225
rwest@mlj-llc.com
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Table 1. ESJWQC_ER_09_E.coli_Nutrients_TDS_September_110409.xls

Site Name	Station Code	Monitoring Type	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Nitrate-Nitrite, as N (10 mg/L)
Mootz Drain @ Langworth Rd	535XMDALR	NM	22/Sep/2009	1700		
Mootz Drain @ Langworth Rd - FD	535XMDALR	NM	22/Sep/2009	1700		
Prairie Flower Drain @ Crows Landing	535XPFDCL	NM	22/Sep/2009	1300	1400	35
Howard Lateral @ Hwy 140	535XHLAHO	NM	22/Sep/2009	330		

FD- field duplicate
NM- normal monitoring

Sent: Friday, November 20, 2009 at 12:25 PM
From: Rachel West <rwest@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen pklassen@unwiredbb.com, Rachel West <rwest@mlj-llc.com>
Subject: ESJWQC Field Exceedance Report-November 2009
Attachments: ESJ_FieldResults_Discharge_111709.xls; ESJWQC_Site_pictures_111709_Compressed.pdf

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On November 17, 2009 normal monitoring (NM) and Management Plan Monitoring (MPM) were conducted at sites in the ESJWQC region. During sampling, field parameters were measured. Six sites were dry during this monitoring event: Ash Slough @ Ave 21, Dry Creek @ Oakdale Rd, Howard Lateral @ Hwy 140, Highline Canal @ Hwy 99, Lateral 2 ½ near Keyes Rd, and Mustang Creek @ East Ave. Three sites were non contiguous water bodies: Deadman Creek @ Gurr Rd, Duck Slough @ Gurr Rd, and Mootz Drain @ Langworth Rd. Exceedances of receiving water limitations for dissolved oxygen (DO) and specific conductance (SC) were detected at some of the sites sampled during this event. See attached Table 1 for details of field water quality trigger limit exceedances as well as the calculated discharge from each site. Site pictures taken from each of the monitoring sites during this event are also attached to this email as a pdf. Scanned copies of the field sheets are available upon request.

b.) Field parameters will be measured again at these sites on December 15, 2009 for the third fall monitoring event.

c.) DO exceedances are common in the Coalition region and may be due to low flow and/or high levels of biological oxygen demand in the test drains (this may not be the case for all samples). Sites sampled in previous events have also experienced frequent DO exceedances. Measures of SC are consistently high at some sites in the ESJWQC region. Potential sources of salts and metals (detected in the field as conductivity) include upstream surface water, ground water or drain water from irrigated agricultural lands. Exceedances in pH occur occasionally and

intermittently in the Coalition region and are difficult to source. The high pH experienced during this monitoring event may be due natural conditions of the water body, among other possible sources. Any exceedance(s) that occur more than once at a site will be addressed in the ESJWQC Management Plan. An update to the Coalition Management Plan will be submitted on April 1, 2010.

Mike Johnson

Thanks,

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Rachel C. West
Environmental Scientist
Michael L. Johnson LLC
1490 Drew Ave, Suite 175
Davis, CA 95618

Tel: 530-756-5200
Fax: 530-756-5225
rwest@mlj-llc.com
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Table 1. ESJ_FieldResults_Discharge_111709.xls

Station Name	Station Code	Sample Date	Collection Time	Group	Discharge, cfs	DO, mg/L	SC, µS/cm	Comments
Ash Slough @ Ave 21	545XASAAT	11/17/2009	10:33	Fall2	NA			Dry site, no samples collected.
Cottonwood Creek @ Rd 20	545XCCART	11/17/2009	9:40	Fall2	5.11			
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	11/17/2009	11:20	Fall2, Non Contiguous	0			Non contiguous water body. Discharge recorded as zero due to non contiguous water body and flow moving in upstream direction, from west to east.
Dry Creek @ Oakdale Rd	535DCAORD	11/17/2009	13:54	Fall2, Management Plan Monitoring	NA			Dry site, no samples collected. November Management Plan Monitoring for chlorpyrifos.
Dry Creek @ Wellsford Rd	535XDCAWR	11/17/2009	12:20	Fall2	0	3.04		Discharge recorded as zero, too low velocity to be measured.
Duck Slough @ Gurr Rd	535XDSAGR	11/17/2009	12:10	Fall2, Non Contiguous	0		1215	Non contiguous water body. Discharge recorded as zero due to non contiguous water body.
Highline Canal @ Hwy 99	535XHCHNN	11/17/2009	13:09	Fall2	NA			Dry site, no samples collected.
Howard Lateral @ Hwy 140	535XHLAHO	11/17/2009	12:37	Fall2	NA			Dry site, no samples collected.
Lateral 2 1/2 near Keys Rd	535LTHNKR	11/17/2009	13:30	Fall2	NA			Dry site, no samples collected.
Merced River @ Santa Fe	535XMRSFD	11/17/2009	14:30	Fall2	180			
Mootz Drain @ Langworth Rd	535XMDALR	11/17/2009	9:30	Fall2, Non Contiguous	0	4.98		Non contiguous water body. Discharge recorded as zero due to non contiguous water body.
Mustang Creek @ East Ave	535XMCAEA	11/17/2009	13:45	Fall2	NA			Dry site, no samples collected.
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	11/17/2009	14:20	Fall2	0		2415	Discharge recorded as zero due to no visible flow.

NA - Not applicable; see comments.

Sent: Friday, November 20, 2009 at 1:38 PM
From: Rachel West <rwest@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen pklassen@unwiredbb.com, Rachel West <rwest@mlj-llc.com>
Subject: ESJCWQ E. coli, nutrients, inorganics and metals Exceedance Report-October 2009
Attachments: ESJWQC_ER_09_E.coli_Nutrients_Inorganics_Metals_October_112009.xls

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On October 20, 2009 normal monitoring (NM) was conducted in the ESJWQC region. Water was collected for the analysis of physical parameters, nutrients, metals and bacteria. Final data for this event were received from the laboratory on November 16, 2009. Exceedances of receiving water limitations for E. coli, total dissolved solids (TDS), copper, and nitrogen were detected. Ash Slough @ Ave 21 (NM) was dry during this sampling event and Mootz Drain @ Langworth Rd (NM) and Mustang Creek @ East Ave (NM) were both non contiguous water bodies. Details on the sites and constituents sampled and associated exceedances are provided in an excel spreadsheet attached to this email. Raw data are available upon request. Site pictures and flow data from this event were provided by email on October 23, 2009, and are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx, username: ftpuser, password: Aqua2007!).

b.) Sampling occurred again at these sites on November 17, 2009. Once results are received, exceedances from those samples should indicate where water quality exceedances included in this report are persistent.

c.) Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outlined therein. The next ESJWQC Management Plan update will be submitted on April 1, 2010.

Michael Johnson

Thanks,

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Rachel C. West
Environmental Scientist
Michael L. Johnson LLC
1490 Drew Ave, Suite 175
Davis, CA 95618

Tel: 530-756-5200
Fax: 530-756-5225
rwest@mlj-llc.com
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Table 1. ESJWQC_ER_09_E.coli_Nutrients_Inorganics_Metals_October_112009.xls

Site Name	Station Code	Monitoring Type	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Copper, Dissolved (based on hardness)	Nitrate-Nitrite, as N (10 mg/L)
Deadman Creek @ Gurr Rd	535XDCAGR	NM	20/Oct/2009	490			
Dry Creek @ Wellsford Rd	535XDCAWR	NM	20/Oct/2009	490		NA	
Howard Lateral @ Hwy 140	535XHLAHO	NM	20/Oct/2009	240		3.3 (1.57)	
Mootz Drain @ Langworth Rd*	535XMDALR	NM	20/Oct/2009	240			
Mustang Creek @ East Ave*	535XMCAEA	NM	20/Oct/2009	250	670	44 (24.20)	
Prairie Flower Drain @ Crows Landing	535XPFDCL	NM	20/Oct/2009	1300	1400	NA	25

*non contiguous water body
NM - normal monitoring
NA - Not Applicable. Analysis not a part of the monitoring plan for this site.

Sent: Wednesday, February 10, 2010 at 10:43 AM
From: Rachel West <rwest@mlj-llc.com>
To: Dania Huggins <dhuggins@waterboards.ca.gov>
CC: Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Michael Johnson <mjohnson@mlj-llc.com>, Parry Klassen <pklassen@unwiredbb.com>, Rachel West <rwest@mlj-llc.com>
Subject: ESJWQC Ammonia Exceeance Report-October 2009
Attachements: ESJWQC_09_October_ER_Ammonia_table_021010.doc

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On October 20, 2009 normal monitoring (NM) was conducted in the ESJWQC region. Water was collected for the analysis of physical parameters, nutrients, metals and bacteria. Final data for this event were received from the laboratory on November 16, 2009. Upon the initial review an exceedance of receiving water limitations for ammonia was overlooked in samples taken from Mustang Creek @ East Ave (NM) (see attached Table 1). This exceedance report is being sent to account for the ammonia exceedance at Mustang Creek @ East Ave (NM) that was not recorded in the original exceedance report sent on November 20, 2009. Mustang Creek @ East Ave (NM) was sampled as a non contiguous water body during this monitoring event. Raw data are available upon request. Site pictures and flow data from this event were provided by email on October 23, 2009, and are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx, username: ftpuser, password: Aqua2007!).

b.) Sampling occurred again at this site on November 17, 2009. Lab results received from November and December 2009 samples did not exceed ammonia limitations.

c.) Exceedances that occur at a site more than once will be addressed in the Coalition Management Plan. Actions that will be taken to address these exceedances will be outlined therein. The next ESJWQC Management Plan update will be submitted on April 1, 2010.

Michael Johnson

Thanks,

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Rachel C. West
Environmental Scientist
Michael L. Johnson LLC
1490 Drew Ave, Suite 175
Davis, CA 95618

Tel: 530-756-5200
Fax: 530-756-5225
rwest@mlj-llc.com

Table 1. Water sample exceedance in samples collected during normal monitoring (NM) for ESJWQC receiving waters on October 20, 2009.

Sample Site	Sample Date	Season	Sample Type	Ammonia (mg/L)
Mustang Creek @ East Ave.	10/20/2009	Fall 1	NM	2.30

Sent: Monday, December 21, 2009 at 7:47 AM
From: Rachel West <rwest@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen pklassen@unwiredbb.com, Rachel West <rwest@mlj-llc.com>
Subject: ESJWQ Field Exceedance Report-December 2009
Attachments: ESJ_FieldResults_Discharge_121509.xls; ESJWQC_Site_pictures_121509_Compressed.pdf

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On December 15, 2009 normal monitoring (NM) and Management Plan Monitoring (MPM) were conducted at sites in the ESJWQC region. This was considered the second storm event monitored during 2009. During sampling, field parameters were measured. Four sites were dry during this monitoring event: Ash Slough @ Ave 21, Dry Creek @ Oakdale Rd, Howard Lateral @ Hwy 140, and Lateral 2 ½ near Keyes Rd. Two sites were non contiguous water bodies: Deadman Creek @ Gurr Rd and Highline Canal @ Hwy 99. Exceedances of receiving water limitations for dissolved oxygen (DO), pH and specific conductance (SC) were detected at some of the sites
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sampled during this event. See attached Table 1 for details of field water quality trigger limit exceedances as well as the calculated discharge from each site. Site pictures taken from each of the monitoring sites during this event are also attached to this email as a pdf. Scanned copies of the field sheets are available upon request.

b.) Field parameters will be measured again at these sites on January 19, 2010 for the first winter monitoring event.

c.) DO exceedances are common in the Coalition region and may be due to low flow and/or high levels of biological oxygen demand in the test drains (this may not be the case for all samples). Two of the three sites with DO exceedances were non contiguous water bodies; the third has flow below 2 cfs. Measures of SC are consistently high at some sites in the ESJWQC region. Potential sources of salts and metals (detected in the field as conductivity) include upstream surface water, ground water or drain water from irrigated agricultural lands. All sites with SC exceedances were either non contiguous water bodies or had flows less than 1 cfs. Exceedances in pH occur occasionally and intermittently in the Coalition region and are difficult to source. The slightly high pH experienced during this monitoring event occurred at a location that was a non contiguous water body. Any exceedance(s) that occur more than once at a site will be addressed in the ESJWQC Management Plan. An update to the Coalition Management Plan will be submitted on April 1, 2010.

Mike Johnson

Thanks,
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Rachel C. West
Environmental Scientist
Michael L. Johnson LLC
1490 Drew Ave, Suite 175
Davis, CA 95618

Tel: 530-756-5200
Fax: 530-756-5225
rwest@mlj-llc.com
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Table 1. ESJ_FieldResults_Discharge_121509.xls

Station Name	Station Code	Sample Date	Collection Time	Group	Discharge, cfs	DO, mg/L	pH	SC, µS/cm	Comments
Ash Slough @ Ave 21	545XASAAT	12/15/2009	11:07	Storm2	NA				Dry site, no samples collected.
Cottonwood Creek @ Rd 20	545XCCART	12/15/2009	10:00	Storm2	0.01				
Deadman Creek (Dutchman) @ Gurr Rd	535XDCAGR	12/15/2009	12:30	Non Contiguous, Storm2	0	5.02		995	Non contiguous water body. Discharge recorded as zero due to non contiguous water body.
Dry Creek @ Oakdale Rd	535DCAORD	12/15/2009	13:55	Storm2	NA				Dry site, no samples collected.
Dry Creek @ Wellsford Rd	535XDCAWR	12/15/2009	9:50	Storm2	1.15	6.65			
Duck Slough @ Gurr Rd	535XDSAGR	12/15/2009	14:40	Storm2	NA				Too deep to take discharge.
Highline Canal @ Hwy 99	535XHCHNN	12/15/2009	15:50	Non Contiguous, Storm2	0		8.61		Non contiguous water body. Discharge recorded as zero due to non contiguous water body.
Howard Lateral @ Hwy 140	535XHLAHO	12/15/2009	15:10	Storm2	NA				Dry site, no samples collected.
Lateral 2 1/2 near Keys Rd	535LTHNKR	12/15/2009	11:20	Storm2	NA				Dry site, no samples collected.
Merced River @ Santa Fe	535XMRSFD	12/15/2009	14:40	Storm2	194				
Mootz Drain Downstream of Langworth Pond	535XMDDLP	12/15/2009	8:50	Storm2	0	5.51			Discharge recorded as zero due to no visible flow.
Mustang Creek @ East Ave	535XMCAEA	12/15/2009	13:30	Storm2	0			892	Discharge recorded as zero due to no visible flow.
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	12/15/2009	12:00	Storm2	0.31			2695	

NA - Not applicable; see comments.

Sent: Tuesday, December 29, 2009 at 12:30 PM
From: Rachel West <rwest@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen pklassen@unwiredbb.com, Rachel West <rwest@mlj-llc.com>
Subject: ESJWQC Water Toxicity Exceedance Report-December 2009
Attachments: ESJWQC_09_December_ER_Toxicity_table_122909.doc

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.

a.) On December 15, 2009, normal monitoring (NM) and Management Plan Monitoring (MPM) were conducted in the ESJWQC region. Water was collected for analysis of water column toxicity. Toxicity to Pimephales promelas occurred in the grab and field duplicate (FD) samples collected from Deadman Creek @ Gurr Rd. See attached Table 1 for details on these exceedances. Deadman Creek @ Gurr Rd was a non contiguous water body at the time of sampling. Site pictures and flow data for all sites sampled during this event were provided to the CVRWQCB by email on December 21, 2009 and are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b.) Follow-up sampling is not required for these exceedances. Samples will be collected again from this site on January 19, 2010. Results from the January sampling event will indicate whether the toxicity is persistent.

c.) Samples collected from the Deadman Creek @ Gurr Rd site have tested toxic to P. promelas previous to this event in January and March 2009. The toxic samples collected on December 15, 2009 contained high amounts of ammonia (as measured by the toxicity laboratory) indicating that the source of the toxicity was an upstream dairy. Results from the chemistry laboratory are expected in the next couple of weeks and the Coalition will report any chemistry exceedances (including ammonia) at that time. Actions that will be taken to address these exceedances will be described in detail in an ESJWQC Management Plan update.

Mike Johnson

Thanks,

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Rachel C. West
Environmental Scientist
Michael L. Johnson LLC
1490 Drew Ave, Suite 175
Davis, CA 95618

Tel: 530-756-5200
Fax: 530-756-5225
rwest@mlj-llc.com
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Table 1. Water sample toxicity in samples collected during normal monitoring (NM) and Management Plan Monitoring (MPM) for ESJWQC receiving waters on December 15, 2009.

Sample Site	Sample Date	Sample Type	*Pimephales promelas* (% survival relative to control)
Deadman Creek @ Gurr Rd-Grab	12-15-2009	NM	75
Deadman Creek @ Gurr Rd-FD	12-15-2009	NM	57.5

MP – Management Plan sampling
NM – Normal Monitoring
FD- Field Duplicate

Sent: Monday, January 11, 2010 at 7:38 AM
From: Rachel West <rwest@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen pklassen@unwiredbb.com, Rachel West <rwest@mlj-llc.com>
Subject: ESJWQC E. coli, nutrient, inorganics and metals Exceedanc Report- November 2009
Attachments: ESJWQC_ER_09_E.coli_Nutrients_Inorganics_November_010710.xls

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On November 17, 2009 normal monitoring (NM) and Management Plan Monitoring (MPM) were conducted in the ESJWQC region. Water was collected for the analysis of physical parameters, nutrients, metals and bacteria. Final data for this event were received from the laboratory on December 31, 2009. Exceedances of receiving water limitations for E. coli, total dissolved solids (TDS), ammonia, and nitrate/nitrite were detected. There were six dry sites during this sampling event: Ash Slough @ Ave 21 (NM), Howard Lateral @ Hwy 140 (NM), Highline Canal@ Hwy 99 (NM), Lateral 2 ½ near Keyes Rd (NM), Dry Creek @ Oakdale Rd (MPM), and Mustang Creek @ East Ave (NM).ighline CanaH Deadman Creek @ Gurr Rd (NM), Duck Slough @ Gurr Rd (NM) and Mootz Drain @ Langworth Rd (NM) were all non contiguous water bodies. Details on the sites and constituents sampled and associated exceedances are provided in an excel spreadsheet attached to this email. Raw data are available upon request. Site pictures and flow data from this event were provided by email on November 20, 2009, and are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b.) Sampling results from December 15, 2009 will be assessed for persistent water quality exceedances at the sites included in this report.

c.) Exceedances that occur at a site more than once will be addressed in the Coalition's Management Plan. Actions that will be taken to address these exceedances will be outlined therein. The next ESJWQC Management Plan update will be submitted on April 1, 2010.

Michael Johnson

Thanks,

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Table 1. ESJWQC_ER_09_E.coli_Nutrients_Inorganics_November_010710.xls

Site Name	Station Code	Monitoring Type	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Ammonia (mg/L)	Nitrate-Nitrite, as N (10 mg/L)
Dry Creek @ Wellsford Rd	535XDCAWR	NM	17/Nov/2009	730			
Mootz Drain @ Langworth Rd	535XMDALR	NM	17/Nov/2009	>2400		2.1	
Mootz Drain @ Langworth Rd-FD	535XMDALR	NM	17/Nov/2009	>2400		5	
Prairie Flower Drain @ Crows Landing	535XPFDCL	NM	17/Nov/2009	>2400	1500	8.8	36
Duck Slough @ Gurr Rd	535XDSAGR	NM	17/Nov/2009	340			
Deadman Creek @ Gurr Rd	535XDCAGR	NM	17/Nov/2009	2000			
Cottonwood Creek @ Rd 20	545XCCART	NM	17/Nov/2009	770			

FD- field duplicate
J- estimated value; between laboratory reporting limit and minimum detection limit
NM- normal monitoring

Sent: Friday, January 22, 2010 at 8:08 AM
From: Rachel West <rwest@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen pklassen@unwiredbb.com, Rachel West <rwest@mlj-llc.com>
Subject: ESJWQC Pesticide Exceedance Report-December 2009
Attachments: ESJWQC_09_December_ER_Pesticides_table_012110.doc

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues: a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedances.
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a.) On December 15, 2009, normal monitoring (NM) and Management Plan Monitoring (MPM) were conducted in the ESJWQC region. There were four dry sites during this sampling event (Ash Slough @ Avenue 21, Dry Creek @ Oakdale Rd, Howard Lateral @ Hwy 140, and Lateral 2 ½ Near Keyes Rd). Finalized data were received from the organics laboratory on January 19, 2010. An exceedance level detection of DDE was found in the grab sample collected from Mustang Creek @ East Avenue (NM, MPM) during this monitoring event. There was no flow at this site during the December monitoring event. See attached Table 1 for details on the exceedances. Site pictures and flow data for all sites monitored during this sampling event were provided to the CVRWQCB by email on December 21, 2009 and are also available on the MLJ-LLC Sharepoint Website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b.) This is the first exceedance of DDE for this site. Samples collected from Mustang Creek @ East Avenue on January 19, 2010 as part of the 2010 ESJWQC monitoring schedule will indicate whether the exceedance at this site is persistent. .

c.) Mustang Creek @ East Avenue has been dry or an isolated pool during all monitoring events in 2009 except February and December. Both events were following a storm event. The samples collected during the December monitoring event were after a storm that supplied most of the water in the creek and may have also moved and/or suspended some of the surrounding sediment into the water column. All derivatives of DDE are due to legacy applications that become mobilized in the water column when there are increased suspended solids. All new exceedances requiring Management Plans as well as Management Plan Monitoring results will be reported in the ESJWQC Management Plan yearly update to be submitted on April 1, 2010.

Mike Johnson

Thanks,

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Table 1. Water sample toxicity in samples collected during normal monitoring (NM) and Management Plan monitoring (MPM) for ESJWQC receiving waters on December 15, 2009.

Sample Site	Sample Date	Season	Sample Type	DDE (µg/L)
Mustang Creek @ East Avenue	12-15-09	Storm 2	NM	0.022

Sent: Tuesday, January 26, 2010 at 3:39 PM
From: Rachel West <rwest@mlj-llc.com>
To: Dania Huggins dhuggins@waterboards.ca.gov
Cc: Francisca Johnson <fjohnson@mlj-llc.com>, Lara Reising <ltreising@gmail.com>, Melissa Turner <mturner@mlj-llc.com>, Mike Johnson <mjohnson@mlj-llc.com>, Parry Klassen pklassen@unwiredbb.com, Rachel West <rwest@mlj-llc.com>
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Subject: ESJWQC E. coli, nutrients and metals Exceedance Report-Dec. 2009
Attachments: ESJWQC_ER_09_E coli_Nutrients_Inorganics_metals_December_012610.xls

Dear Dania,

As required in the Monitoring and Reporting Program (Order No. R5-2008-0005) for Coalition Groups, an Exceedance Report is being submitted to address the following issues a) the exceedances, b) the follow-up monitoring, and c) any analysis or other actions the Coalition Group may take to address the exceedance.

a.) On December 15, 2009 normal monitoring (NM) and Management Plan Monitoring (MPM) were conducted in the ESJWQC region as a storm event. Water was collected for the analysis of physical parameters, nutrients, metals and bacteria. Final data for this event were received from the laboratory on January 25, 2009. Exceedances of receiving water limitations for E. coli, total dissolved solids (TDS), ammonia, copper and nitrate/nitrite were detected. There were four dry sites during this sampling event: Ash Slough @ Ave 21 (NM), Dry Creek @ Oakdale Rd (MPM), Howard Lateral @ Hwy 140 (NM), and Lateral 2 ½ near Keyes Rd (NM).ighline CanaH Deadman Creek @ Gurr Rd (NM) and Highline Canal @ Hwy 99 were both non contiguous water bodies. Details on the sites and constituents sampled and associated exceedances are provided in an excel spreadsheet attached to this email. Raw data are available upon request. Site pictures and flow data from this event were provided by email on December 21, 2009, and are also available on the MLJ-LLC Sharepoint website (http://sharepoint.mlj-llc.com/mlj-db/database/forms/allitems.aspx).

b.) Sampling results from January 19, 2010 will be assessed for persistent water quality exceedances at the sites included in this report.

c.) Exceedances that occur at a site more than once will be addressed in the Coalition's Management Plan. Actions that will be taken to address these exceedances will be outlined therein. The next ESJWQC Management Plan update will be submitted on April 1, 2010.

Michael Johnson

Thanks,

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Rachel C. West
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Table 1. ESJWQC_ER_09_E coli_Nutrients_Inorganics_metals_December_012610.xls

Site Name	Station Code	Monitoring Type	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Ammonia (mg/L)	Copper, Dissolved (based on hardness)	Nitrate-Nitrite, as N (10 mg/L)
Deadman Creek @ Gurr Rd	535XDCAGR	NM, Non Contiguous	12/15/2009	>2400	610	15		
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Site Name	Station Code	Monitoring Type	Sample Date	E. Coli (235 MPN/100)	TDS (450 mg/L)	Ammonia (mg/L)	Copper, Dissolved (based on hardness)	Nitrate-Nitrite, as N (10 mg/L)
Deadman Creek @ Gurr Rd FD	535XDCAGR	NM, Non Contiguous	12/15/2009		610	15		
Dry Creek @ Wellsford Rd	535XDCAWR	NM	12/15/2009	820			NA	
Duck Slough @ Gurr Rd	535XDSAGR	NM	12/15/2009	>2400			NA	
Mootz Drain Downstream of Langworth Pond	535XMDDLP	NM	12/15/2009	>2400				
Mustang Creek @ East Ave	535XMCAEA	NM	12/15/2009				25 (22.9)	
Prairie Flower Drain @ Crows Landing	535XPFDCL	NM	12/15/2009	2000	1600		NA	36

FD - field duplicate
NM - normal monitoring
NA - Not Applicable. Analysis not a part of the monitoring plan for this site.

Appendix VI

Toxicity Identification Evaluation Report

Adminsitrative Record
Page 17775

Identification of Causes of Toxicity to *Ceriodaphnia dubia*, Fathead Minnow (*Pimephales promelas*), and Green Algae *(Selenastrum capricornutum)* in Agriculture-Dominated Discharge Samples from the East San Joaquin Water Quality Coalition: October 2008 – December 2009

FINAL REPORT

Submitted to:

Michael L. Johnson LLC
Ecosystems Consulting
1490 Drew Ave., Suite 175
Davis, CA. 95618

Submitted by:

AQUA-Science
17 Arboretum Drive
Davis, CA 95616

February 2, 2010

Adminsitrative Record
Page 17776

TABLE OF CONTENTS

1.0 EXECUTIVE SUMMARY 2

2.0 INTRODUCTION 2

3.0 MATERIALS AND METHODS 3
- 3.1 Test Events 3
- 3.2 Test Samples 4
- 3. 3 Toxicity Test Protocols 5
- 3.4 Algae Toxicity Tests 5
- 3.5 *Ceriodaphnia dubia* Toxicity Tests 6
- 3.6 Fathead Minnow Toxicity Tests 6
- 3.7 Statistical Analysis 6
- 3.8 Chemical Analysis 6
- 3.9 Toxicity Identification Evaluation (TIE) Requirements 7
- 3.10 Toxicity Identification Evaluations (TIEs) 7
  - 3.10.1 Algae Phase I TIEs 8
  - 3.10.2 *C. dubia* and Fathead Minnow Phase I TIEs 9

4.0 RESULTS AND DISCUSSION 10

REFERENCES

Adminsitrative Record
Page 17777

Identification of Causes of Toxicity to *Ceriodaphnia dubia*, Fathead Minnow (*Pimephales promelas*), and Green Algae *(Selenastrum capricornutum)* in Agriculture-Dominated Discharge Samples from the East San Joaquin Water Quality Coalition: October 2008 – December 2009

1.0 EXECUTIVE SUMMARY

A total of 97 samples of agriculturally-dominated discharge, collected from within the boundaries of the East San Joaquin Water Quality Coalition during fifteen test events from October 2008 through December 2009, were screened for toxicity to green algae *(Selenastrum capricornutun)*, the invertebrate *Ceriodaphnia dubia*, and/or larval fathead minnows *(Pimephales promelas)*. Statistically significant toxicity was detected in 5 of 78 algae tests (6%), 2 of 65 *C. dubia* tests (3%), and 4 of 69 fathead minnow tests (6%). Samples that produced ≥ 50% effect on the test species were subjected to Phase I Toxicity Identification Evaluations (TIEs) to identify chemical class of the toxicant(s) responsible for the toxicity. Phase I TIEs were conducted on two samples that caused algal chronic toxicity, two samples that caused acute *C. dubia* toxicity and one sample that caused acute fathead minnow toxicity. One sample, Deadman's Creek @ Gurr Rd (2/7/09), contained high levels of total ammonia (43 mg/L), and Phase I TIEs conducted with all three species identified ammonia as the cause of toxicity to this sample. The algae Phase I TIE on the Prairie Flower Drain @ Crows Landing Rd sample indicated that cationic metals and ammonia were the cause of toxicity for this sample. The *C. dubia* Phase I TIE with the Deadman's Creek @ Gurr (3/17/09) sample indicated that pyrethroid insecticides were the cause of toxicity.

2.0 INTRODUCTION

AQUA-Science (A-S) was retained by MLJ-LLC (Davis, CA) to conduct aquatic toxicity tests and toxicity identification evaluations (TIEs) on samples collected from the East San Joaquin Water Quality Coalition (ESJWQC) in response to monitoring requirements of the Conditional Waiver of Waste Discharge for Irrigated Lands (Ag Waiver). A total of 97 samples collected during fifteen test events (October 2008 through December 2009) were tested using three-species toxicity tests with the cladoceran (*Ceriodaphnia dubia*), green algae (*Selenastrum capricornutum*), and larval fathead minnows (*Pimephales promelas*). TIEs were conducted on 2 samples with algae, 2 samples with *C. dubia*, and 1 sample with fathead minnows that demonstrated a ≥50% effect on the test species endpoint. Results of these analyses are reported herein.

Adminsitrative Record
Page 17778

3.0 MATERIALS AND METHODS

3.1 Test Events

Samples were collected during October 2008 through December 2009, including Management Plan Monitoring (MPM). The number of samples collected in each event is shown in Table 1 below:

Table 1. ESJ Test Events and Toxic Samples

Sample Date	*Test Event*	*No. Samples/Species*	*Toxic Samples/TIEs*
10/21/08	ESJ 08-09	3 *Ceriodaphnia* 3 fathead minnow 3 algae	None
11/11/08	ESJ 08-10	3 *Ceriodaphnia* 3 fathead minnow 3 algae	None
12/16/08	ESJ 08-11	3 *Ceriodaphnia* 3 fathead minnow 3 algae	None
1/20/09	ESJ 09-01	2 *Ceriodaphnia* 2 fathead minnow 2 algae	Deadman's Creek @ Gurr Rd (fathead minnow) – No TIE required
2/7/09	ESJ 09-02	4 *Ceriodaphnia* 4 fathead minnow 4 algae	Mootz Drain @ Langworth Rd GR and Mootz Drain @ Langworth Rd GR2 (algae) – no TIE required Deadman's Creek @ Gurr Rd (*C. dubia*, fathead minnow and algae) - TIEs conducted on all three species
3/17/09	ESJ 09-03	4 *Ceriodaphnia* 4 fathead minnow 4 algae	Deadman's Creek @ Gurr Rd (*C. dubia*) – TIE conducted
4/21/09	ESJ 09-04	5 *Ceriodaphnia* 5 fathead minnow 10 algae	None
5/19/09	ESJ 09-05	6 *Ceriodaphnia* 7 fathead minnow 10 algae	Howard Lateral @ Hwy 140 and Lateral 2½ nr Keyes Rd (algae) – no TIEs required Prairie Flower Drain @ Crows Landing Rd (algae) – TIE conducted
6/16/09	ESJ 09-06	5 *Ceriodaphnia* 6 fathead minnow 6 algae	None

Adminsitrative Record
Page 17779

Sample Date	*Test Event*	*No. Samples/Species*	*Toxic Samples/TIEs*
7/21/09	ESJ 09-07	6 *Ceriodaphnia* 5 fathead minnow 5 algae	None
8/18/09	ESJ 09-08	6 *Ceriodaphnia* 6 fathead minnow 6 algae	None
9/22/09	ESJ 09-09	5 *Ceriodaphnia* 5 fathead minnow 6 algae	None
10/20/09	ESJ 09-10	6 *Ceriodaphnia* 7 fathead minnow 7 algae	None
11/17/09	ESJ 09-11	3 *Ceriodaphnia* 4 fathead minnow 4 algae	None
12/15/09	ESJ 09-10	4 *Ceriodaphnia* 5 fathead minnow 5 algae	Deadman's Creek @ Gurr Rd GR and Deadman's Creek @ Gurr Rd GR2 (fathead minnow) – no TIEs required
	Total	**65 *Ceriodaphnia*** **69 fathead minnow** **78 algae**	**2 *C. dubia* TIEs** **1 fathead minnow TIE** **2 algae TIEs**

3.2 Test Samples

Test samples (5 gallons/site) were subsurface grabs obtained by MLJ-LLC sampling personnel under the direction of Dr. Mike Johnson. Sample name and GPS coordinates of the sample sites are shown in Table 2. Field measurements included temperature, dissolved oxygen (DO), pH, conductivity, and flow. Samples were placed in ice chests with sufficient wet ice to maintain sample temperature at ≤6 °C. Upon arrival at A-S, temperature, DO, conductivity, hardness, alkalinity, and pH were measured. Samples were stored in the dark at 4 °C until tested, within 24 hours of collection.

Table 2. ESJ Sample Information

Site Name	*Site ID*	*GPS Coordinates*
Cottonwood Creek @ Rd 20	545XCCART	36.86860, -120.18180
Deadman's Creek @ Gurr Rd	535XDCAGR	37.19360, -120.56120
Deadman's Creek @ Hwy 59	535DMCAHF[a]	37.19810, -120.48690
Highline Canal @ Lombardy Ave	535XHCALR	37.45560, -120.72070
Hilmar Drain @ Central Ave	535XHDACA	37.39060, -120.95820
Mustang Creek @ East Ave	535XMCAEA[a]	37.49180, -120.68390
Prairie Flower Drain @ Crows Landing Rd	535XPFDCL	37.44220, -121.00240

Adminsitrative Record
Page 17780

Site Name	*Site ID*	*GPS Coordinates*
Mootz Drain @ Langworth Rd	535XMDALR	37.70582, -120.89303
Lateral 2½ nr. Keyes Rd	535LTHNKR	37.54780, -121.09274
Howard Lateral @ Hwy 140	535XHLAHO	37.30790, -120.78200
Ash Slough @ Ave 21	545XASAAT	37.05450, -120.41580
Highline Canal @ Hwy 99	535XHCHNN	37.41530, -120.75570
Duck Slough @ Hwy 99	535XDSAHN[a]	37.25010, -120.41000
Miles Creek @ Reilly Rd	535XMCARR	37.25820, -120.47550
Mootz Drain downstream of Langworth Pond	535XMDDLP	37.70551, -120.89438

a Samples from the indicated sites were never collected since the site was dry during toxicity collection events

3. 3 Toxicity Test Protocols

The 96-hour acute *C. dubia* and 96-hour acute fathead minnow toxicity tests were conducted in accordance with the U.S. Environmental Protection Agency (USEPA) 5th edition protocol (USEPA 2002a). The 96-hour chronic algal toxicity tests were conducted in accordance with the USEPA 4th Edition protocol (USEPA 2002b). Control water for the toxicity tests and TIEs was reverse osmosis and granular carbon-treated well water amended with dry salts to attain USEPA moderately hard specifications (EPAMH).

3.4 Algae Toxicity Tests

Algal toxicity tests were conducted in 4 replicates of 125-mL flasks containing 50-mL of test sample filtrate (0.45 µm). A fifth replicate was used as a surrogate for daily water quality measurements. The flasks, containing algal assay media without EDTA, were inoculated with 1 x 10^4 cells/mL of a 2-4 day-old culture of *S. capricornutum* (University of Texas Algae Type Collection, Austin, TX) in log phase growth. A sixth replicate was tested without algae inoculate to confirm the absence of indigenous algae. This replicate was also used as a sample blank and for water quality measurements. Flasks were placed on a shaker table (100 rpm) in an environmental chamber at 25 °C ± 2 °C with continuous lighting (400 ± 40 fc) and were randomized twice daily. After the 96-hour test period, the absorbance was measured with a spectrophotometer at 750 nm (Model DR2800, Hach Co., Loveland, CO). The absorbance units were corrected to cell number using a calibration curve as follows:

$$\text{cell number} = (\text{absorbance units @ 750 nm} \times 13.026) - 0.0328 \qquad (R^2 = 0.9995)$$

Using this conversion, the test was acceptable if the mean algal density in the control flasks was greater than or equal to 2 x 10^5 cells/mL and the coefficient of variation in the control replicates was ≤20%.

Adminsitrative Record
Page 17781

3.5 *Ceriodaphnia dubia* Toxicity Tests

C. dubia 96-hour acute toxicity tests were initiated with < 24 hour old neonates collected from in-house cultures. Each sample was tested using four replicates of 5 neonates each in a 20-mL glass scintillation vials containing 18-mL of test solutions. Test duration was 96 hours, and test solutions were renewed daily. *C. dubia* were fed a mixture of green algae (*S. capricornutum*) and YTC (a mixture of yeast, organic alfalfa and trout chow) 4 hours prior to 24-hour test solution renewal. Tests were conducted at 25 ± 2 °C with a 16 hour light:8 hour dark photoperiod. Mortality was noted daily. The test was acceptable if control survival was ≥90%.

3.6 Fathead Minnow Toxicity Tests

Fathead minnows were obtained from Aquatox, Inc. (Hot Springs, AK), and were maintained in EPA moderately hard (EPAMH) water until tested at 6-10 days old. Each test sample was tested using 4 replicates of 10 fish each in 400 mL glass beakers containing 250 mL of test solutions. Test duration was 96 hours and test solutions were renewed daily. Fish were fed *Artemia* nauplii 4 hours prior to daily sample renewal. Tests were conducted at 25 ± 2 °C with a 16 hour light:8 hour dark photoperiod. Mortality was noted daily. The test was acceptable if control survival was ≥90%.

3.7 Statistical Analysis

Each test sample was subjected to statistical analysis using ToxCalc v. 5.23 (Tidepool Scientific, McKinleyville, CA, USA) according to USEPA procedures (USEPA 2002a,b) to determine if the observed effect was statistically different ($p<0.05$) from the control. In the TIEs, mortality data from the dilution series tests were used to estimate EC_{50} values, e.g., the calculated concentration of the test sample that results a 50% effect on the test endpoint, respectively. Toxic units (TUs) were calculated from the EC_{50} values ($100/EC_{50}$). *Note that throughout this document, the term "EC" represents EC, IC or LC, as appropriate.*

3.8 Chemical Analysis

During monthly normal monitoring events selected water samples were collected for chemical analysis of four major groups of pesticides (organochlorines, organophosphates, triazines, and carbamates) plus glyphosate and paraquat dichloride. In addition, total (arsenic, boron, cadmium, copper, lead, molybdenum, nickel, selenium and zinc) and dissolved (cadmium, copper, lead, nickel and zinc) metals were analyzed using inductively coupled argon plasma-mass spectrometry analysis (EPA 200.8). Starting in April 2009, the ESJWQC omitted analysis for organochlorines, glyphosate, paraquat dichloride, arsenic, cadmium, molybdenum and lead except during an event with high total suspended solids (TSS). A high TSS event occurred on 12/15/09. The ESJWQC Quality Assurance Program Plan (QAPP) includes a list of all

Adminsitrative Record
Page 17782

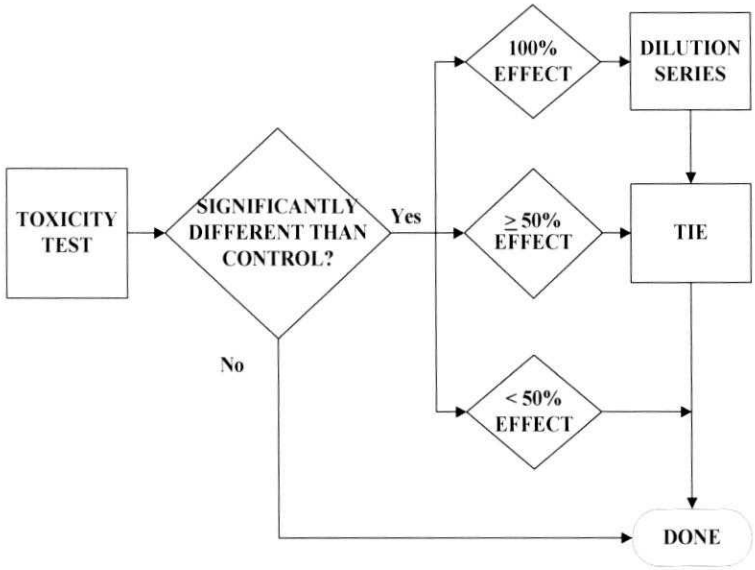
pesticides that were analyzed, associated analytical methods, collection containers, reporting limits and hold times. All samples were collected as outlined in the ESJWQC QAPP meeting all quality assurance requirements.

Management Plan Monitoring was conducted at selected sites for toxicity as outlined in the ESJWQC Management Plan. Depending on the Management Plan schedule, this may or may not have corresponded with specific chemistry analysis.

3.9 Toxicity Identification Evaluation (TIE) Requirements

Figure 1 shows the TIE requirements for samples that show toxicity. Briefly, if the toxicity test detected < 50% effect when compared to the control, no further action was required. If a ≥50% effect was detected, a TIE is initiated on the toxic sample. If there was a 100% effect, the TIE incorporated a dilution series toxicity test.

Figure 1. Toxicity Identification Evaluation (TIE) Requirements



3.10 Toxicity Identification Evaluations (TIEs)

The purpose of the Phase I TIE is to identify the chemical class of the toxicant(s) in the test sample (USEPA 1991). The purpose of the Phase II TIE is to gain the identity of the material(s) responsible for the sample toxicity (USEPA 1993a). The purpose of the Phase III TIE is to determine if there is a robust relationship between the concentrations of the suspected toxicant(s) identified, and the amount of toxicity measured in the test sample (USEPA 1993b).

Adminsitrative Record
Page 17783

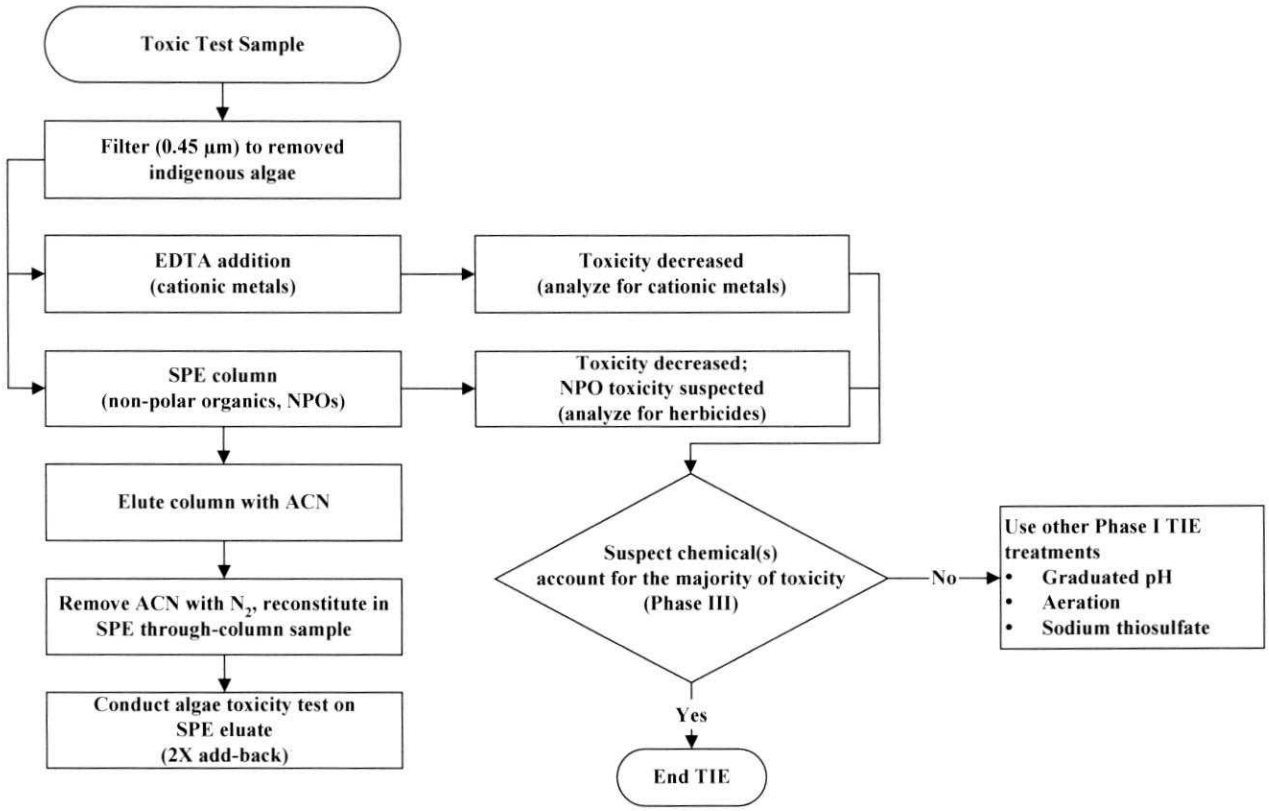
The Phase I TIEs conducted in this study employed treatments that are designed to identify toxicity caused by non-polar organics (NPOs) and cationic chemicals (including divalent metals). Two additional treatments (PBO addition and OP-specific enzyme addition) were included for *C. dubia* to identify toxicity caused by metabolically-activated organophosphate insecticide(s) (OPs). Furthermore, if ammonia measurements were high in the original sample, a Zeolite treatment and add-back was included to assess ammonia toxicity. We believe this suite of treatments is optimal for identification of the chemical class of toxicants prevalent in agriculturally-dominated discharges. If the Phase I TIE treatments were successful in identifying the chemical class of the toxicant(s), a Phase III TIE analysis was conducted on the sample to confirm if the concentration(s) of the suspect toxicant(s) could, based on their EC_{50} values, account for the level of toxicity detected in the sample. We relied primarily on the USEPA ECOTOX Data Base (http://cfpub.epa.gov/ecotox/) and other published sources for the EC_{50} information. Since the EXOTOX database contains a range of values for each constituent of interest, we used the most conservative (lowest) value that appeared to be reasonably supported by the other available information. Unfortunately, no toxicity information was available for some constituents, precluding the assessment of their role in the sample toxicity. This lack of toxicity information for chemicals of interest in ambient TIEs is problematic and we recommend that studies be conducted, under conditions used in these types of toxicity tests, to generate this information.

3.10.1 Algae Phase I TIEs

Algae Phase I TIEs included a baseline toxicity test, solid phase extraction (SPE) column treatment to identify non-polar organic chemicals (NPOs), ethylenediamine tetrachloroacetic acid (EDTA) addition to identify cationic metal toxicity, and EDTA addition to SPE-treated sample to determine the interaction between cationic chemicals and NPOs. The SPE column was eluted three times with 1-mL of acetonitrile (ACN), which was reduced to dryness using a gentle stream of nitrogen. The ACN was removed from the eluate because algae are affected by even low concentrations of organic solvent (Miller et al, 2005). The eluate residue was reconstituted in the SPE through-column sample and added back to the sample at 2X. The algae Phase I TIE flow chart is shown in Figure 2 (Miller et al, 2005).

Adminsitrative Record
Page 17784

Figure 2. Phase I TIE Flowchart Modified for Algae

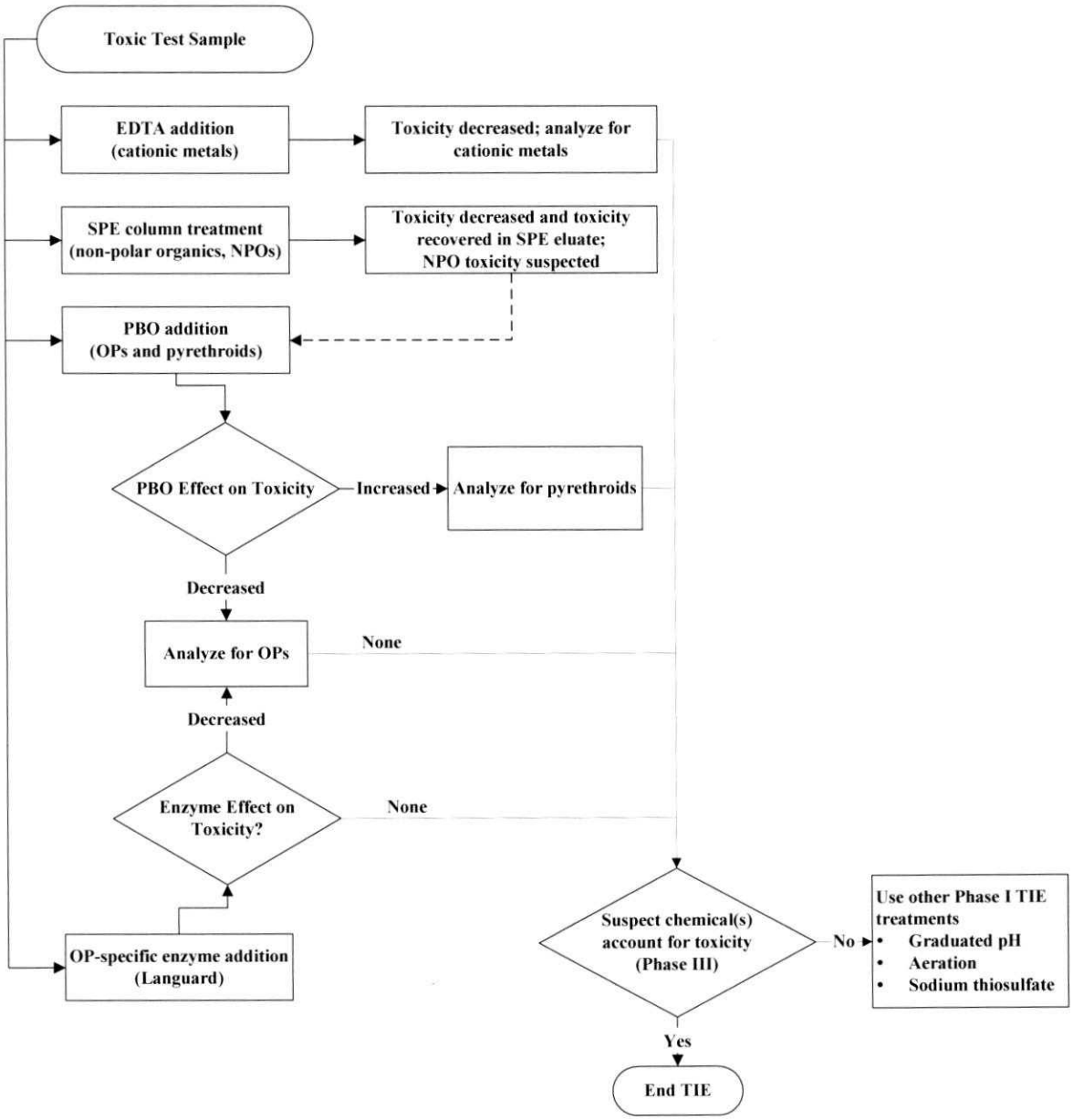


3.10.2 *C. dubia* and Fathead Minnow Phase I TIEs

The Phase I *C. dubia* and fathead minnow TIEs incorporated the same series of treatments as the algae, with the addition of a piperonyl butoxide (PBO) treatment. PBO binds *in vivo* with mixed-function oxidase enzymes that metabolize non-polar organic chemicals such as organophosphorous (OP) and pyrethroid insecticides. With OPs, PBO prevents the metabolism to their toxic oxone form, decreasing/preventing toxicity (Ankley et al, 1991). With pyrethroids, PBO prevents metabolism to less toxic forms, increasing/prolonging toxicity (Wheelock et al, 2004). In some cases, an OP-specific enzyme (Landguard™, Orica Watercare, Watkins, CO) was added to the test sample. Removal or decreased toxicity after addition of this enzyme was further evidence that the toxicity was caused by OP insecticide(s). The *C. dubia* Phase I TIE flow chart is shown in Figure 3.

Adminsitrative Record
Page 17785

Figure 3. Phase I TIE Flowchart for *C. dubia* and Fathead Minnows



4.0 RESULTS AND DISCUSSION

Phase I and Phase III TIE results for algae, *C. dubia* and fathead minnows are summarized below, and in Table 3, Table 4 and Table 5, respectively. Ammonia analyses are located in Appendix VI.

The Deadman's Creek @ Gurr Rd (2/7/09) sample caused statistically significant toxicity to *C. dubia*, fathead minnows and algae. With all three test species, the sample toxicity was completely removed by Zeolite and the toxicity was recovered when ammonia was added back to

Adminsitrative Record
Page 17786

the Zeolite-treated sample, suggesting that ammonia was the cause of the toxicity. Ammonia measured in the sample (43 mg/L NH_3) was sufficient to cause the observed toxicity in all three species.

The algae TIE on the Prairie Flower Drain @ Crows Landing Rd (5/19/09) sample showed partial removal of toxicity with EDTA and Zeolite, and complete removal of toxicity with SPE treatment coupled with EDTA addition. Collectively, these results indicate that cationic metal(s) and ammonia were responsible for the toxicity. Ammonia measured in the sample (3.1 mg/L NH_3) was possibly sufficient to cause detectable toxicity to algae. The role of cationic metals in the sample toxicity could not be confirmed because metals analysis was not conducted on this sample.

The *C. dubia* TIE on the Deadman's Creek @ Gurr Rd (3/17/09) sample was removed by SPE treatment and synergized by PBO, a characteristic of pyrethroid insecticide toxicity. Pyrethroid insecticides were not analyzed in this sample, precluding confirmation.

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Approved by/Issue Date: Jeff Mill 2/4/10

Jeff Miller, Ph.D., DABT

Adminsitrative Record
Page 17787

Table 3. Summary of Chronic Algae TIEs

Sampling Event (Sample Date) TIE Date	*Test Sample (Sample ID)*	*Inhibition of Algal Growth*	*Phase I TIE Toxicity Reduced or Eliminated by Indicated Treatment*					*Suspected Toxicants*	*Phase III TIE*	*App. No.*
			SPE Column[a]	*SPE Column Add-Back*[b]	*EDTA Addition*[c]	*SPE + EDTA*[d]	*Zeolite*			
Winter-Storm 1 (2/7/09) 2/11/09	Deadman's Creek @ Gurr Rd (535XDCAGR)	67%	n/t[e]	n/t	n/t	n/t	Yes	Ammonia[f] (NH_3)	NH_3 = 43 mg/L Ammonia toxicity confirmed	I
Irrigation 2 (5/19/09) 5/27/09	Prairie Flower Drain @ Crows Landing Rd (535XPFDCL)	47%	No	No	Partial	Yes	Partial	Cationic metals and ammonia	NH_3 = 3.1 mg/L Ammonia caused partial toxicity; Cationic metals not analyzed	II

a Sample treated with C-8 solid-phase (SPE) extraction column
b SPE column eluted and the eluate added back to the SPE through-column sample
c Sample amended with ethylenediaminetetraacetic acid (EDTA)
d EDTA added to the SPE through-column treatment
e n/t = Treatment not conducted
f Toxicity was recovered in the Zeolite-treated sample with ammonia add-back

Adminsitrative Record
Page 17788

Table 4. Summary of Acute *C. dubia* TIEs

Sampling Event (Sample Date) TIE Date	*Test Sample (Sample ID)*	*Mortality (%)*	*Phase I - Toxicity Reduced or Eliminated by Indicated Treatment*						*Suspected Toxicants*	*Phase III TIE*	*App. No.*
			SPE Column[b]	*SPE Column Add-Back*[c]	*PBO Addition*[d]	*OP Enzyme*[e]	*EDTA Addition*[f]	*Zeolite*			
Winter-Storm 1 (2/7/09) 2/17/09	Deadman's Creek @ Gurr Rd (535XDCAGR)	100%	n/t[g]	n/t	n/t	n/t	n/t	Yes	Ammonia[h] (NH_3)	NH_3 = 43 mg/L Ammonia toxicity confirmed	III
Winter 2 (3/17/09) 3/25/09	Deadman's Creek @ Gurr Rd (535XDCAGR)	50%	Yes	No	Toxicity increased	n/t	No	n/t	Pyrethroid insecticides	Pyrethroids not analyzed – cause of toxicity not confirmed	IV

a Toxicity of baseline TIE sample (TUa = $100/EC_{50}$)
b Sample treated with C-8 solid-phase (SPE) extraction column
c SPE column eluted and the eluate added back to the SPE through-column sample
d Sample amended with piperonyl butoxide (PBO)
e Sample amended with ethylenediaminetetraacetic acid (EDTA)
f Landguard™ hydrolyzes OP insecticides, including chlorpyrifos
g n/t = Treatment not conducted
h Toxicity was recovered in the Zeolite-treated sample with ammonia add-back

Adminsitrative Record
Page 17789

Table 5. Summary of Acute Fathead Minnow TIE

Sampling Event (Sample Date) TIE Date	*Test Sample (Sample ID)*	*Mortality (%)*	*Phase I - Toxicity Reduced or Eliminated by Indicated Treatment*						*Suspected Toxicants*	*Phase III TIE*	*App. No.*
			SPE Column[b]	*SPE Column Add-Back*[c]	*PBO Addition*[d]	*OP Enzyme*[e]	*EDTA Addition*[f]	*Zeolite*			
Winter-Storm 1 (2/7/09) 2/17/09	Deadman's Creek @ Gurr Rd (535XDCAGR)	100%	n/t[g]	n/t	n/t	n/t	n/t	Yes	Ammonia[h] (NH_3)	NH_3 = 43 mg/L Ammonia toxicity confirmed	V

a Toxicity of baseline TIE sample (TUa = $100/EC_{50}$)
b Sample treated with C-8 solid-phase (SPE) extraction column
c SPE column eluted and the eluate added back to the SPE through-column sample
d Sample amended with piperonyl butoxide (PBO)
e Sample amended with ethylenediaminetetraacetic acid (EDTA)
f Landguard™ hydrolyzes OP insecticides, including chlorpyrifos
g n/t = Treatment not conducted
h Toxicity was recovered in the Zeolite-treated sample with ammonia add-back

Adminsitrative Record
Page 17790

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Wheelock, CE, JL Miller, MJ Miller, SJ Gee, G Shan, BD Hammock. 2004. Development of toxicity identification evaluation (TIE) procedures for pyrethroid detection using esterase activity. *Environ. Toxicol. Chem.* 23:2699-2708.

APPENDIX I

ALGAE PHASE I TIEs

ESJ 09-02 TIE
(2/7/09 Sample Date)

Deadman's Creek @ Gurr Rd

Adminsitrative Record
Page 17792

Summary of Chronic Phase I Algae TIE
Deadman's Creek @ Gurr Rd 2/7/09 Sample
(535XDCAGR)

Treatment	*Conc. (%)*	*Absorbance @ 750 nm*	*Cells/mL (x 10^6)* [a]	*Comments*
Baseline	Lab Control	0.0940	1.1916	67% decrease in algal cell growth. Ammonia (NH_3) = 43 mg/L)
	100	0.0310*	0.3710	
Zeolite Treatment	100	0.1290	1.6476	Zeolite treatment (ammonia removal) eliminated toxicity NH_3 = 2.0 mg/L (95% removal)
Zeolite-Treated with Ammonia Add-back	100	0.0070*	0.0584	Toxicity recovered in ammonia add-back treatment NH_3 = 39.1 mg/L (92% of original concentration) Ammonia toxicity confirmed

Sample Date: 2/7/09

Test Date: 2/11/09

a Cell number x 10^6 = 13.026 x absorbance @ 750 nm – 0.0328

* Significantly different from control ($p<0.05$)

Conclusion:

Toxicity was eliminated by Zeolite treatment, and the toxicity was recovered in the ammonia add-back treatment. These TIE results confirm ammonia-caused toxicity.

ESJ 09-02 TIE (2/17/09)

Sample	Rep	Absorbance	Mean	Cell Number (13.026*abs-0.0328)	Mean	Cell Number x 10^6	Mean	% difference
Control #1	A	0.086		1.0874		1087436		
	B	0.102	0.0940	1.2959	1.1916	1295852	1191644	--
Deadman's Creek	A	0.044		0.5403		540344		
@ Gurr Rd	B	0.018	0.0310	0.2017	0.3710	201668	371006	-67
Zeolite TX	A	0.131		1.6736		1673606		
	B	0.127	0.1290	1.6215	1.6476	1621502	1647554	37
Zeolite Add-Back	A	0.009		0.0844		84434		
	B	0.005	0.0070	0.0323	0.0584	32330	58382	-93

3/13/09

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ALGAL BIOASSAY - CELL DETERMINATION

Test Number:	ESJ 09-02 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/013	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	ESJ Ag Waiver Sample (020709) without EDTA		
Test Species:	*Selenastrum capricornutum*	Animal Lot No.:	UTEX: 100208
Initiation Date:	February 17, 2009	Termination Date:	February 21, 2009

Absorbance @ 750 nm with Hach DR 2800 Spectrophotometer					
Conc. (%)	Replicate	1	2	3	Mean
Control	A	0.085	0.086	0.086	0.086
	B	0.102	0.102	0.102	0.102
Dead @ Gurr (1)	A	0.044	0.044	0.045	0.044
	B	0.019	0.018	0.016	0.018
Gurr Zeolite	A	0.130	0.131	0.131	0.131
	B	0.125	0.128	0.128	0.127
Gurr Addback	A	0.009	0.010	0.009	0.009
	B	0.005	0.006	0.004	0.005
Control w/o	A	0.000	0.000	0.000	0.000
Gurr w/o	A	0.069	0.072	0.070	0.070
Gurr Zeo	A	0.033	0.036	0.034	0.034
Gurr Add	A	0.050	0.050	0.050	0.050

Technician: [signature] Date: 2/21/09 Statistics File No.

(1) See Lab Notes GS 2/21/09

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ALGAL BIOASSAY DATA SHEETS

1.0 TEST AND CLIENT INFORMATION

Test Number:	ESJ 09-02 TIE	Study Director:	J. L. Miller
Protocol No.:	EPA 821-R-02-013	Technician(s):	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	ESJ Ag Waiver Samples (020709) without EDTA		
Initiation Date:	February 17, 2009	Termination Date:	February 21, 2009

2.0 TEST CONDITIONS & TEST SPECIES INFORMATION

Species	*Selenastrum capricornutum*	Temperature	25.0°C ± 1.0°C
Source	University of Texas (UTEX)	Agitation	100 RPM continuous
Media	EPA Algal Assay Media (AAM)	Lighting	400 ft candles
Innoculation	10,000 cells/mL		
Comments			

3.0 DILUTION WATER INFORMATION

Dilution Water Source	D.O. (mg/L)	pH (units)	E. C. (µmhos)	Other	COMMENTS
R/O EPAMH	7.5	8.67	484		0.22 µm Metrigard vacuum filtered
Dead @ Gurr Rd (535XDCAGR)	5.4	7.73	1823		0.22 µm Metrigard vacuum filtered
Dead @ Gurr Zeolite Tx.	6.6	7.92	1260		0.22 µm Metrigard vacuum filtered
Dead @ Gurr Addback	7.3	7.96	1584		0.22 µm Metrigard vacuum filtered

4.0 PREPARATION OF EXPOSURE SOLUTIONS

Test Solution Conc.	Control	100	100 Zeo.	Addback					Comments
Sample (mL)	0	150	150	150					TECH: DES
Dilution Water (mL)	150	0	0	0					TIME: 1200
TOTAL	150 mL	150 mL	150 mL	150 mL					

									Comments

Technician: _____ Date: 02/17/09

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ALGAL BIOASSAY DATA SHEETS

5.0 TEST INITIAITON

WITHOUT EDTA

	Sample	Counts		
Coulter Counter	Isoton	7	7	6
Background Check	Control	44	57	58
	Dead @ Gurr	655	589	619
	Dead @ Gurr Zeo	1746	1667	1756
	Addback	1868	1987	1899

6.0 ALGAE COUNT

Replicate	Dilution Factor				Cell Counts			Mean
	Dil 1	Dil 2	Count	Factor	1	2	3	
1	0.25ml	QS to 20	0.5ml	160:1	51775	51735	50482	51331
2	sample	ml						

Calculations:

Time of Inoculation: 1510

Target: 10,000 cells/mL test solution

Algal Stock Concentration:

51331 X 160 = 8.2130×10^6

Average cell count x Dilution Factor = cells/mL algal stock

Inoculation: 10,000 cells/mL solution x 150 mL test solution/concentration

8.2130×10^6 cells/mL algal stock

= 0.1826 mL algal stock/conc. = 183 µL algal stock/conc.

Final Algal Density Check:

Time: 1600

	ID	Count 1	Count 2	Count 3	Dilution	Adj. Avg.
Flask #1	∅-A	278	328	272	40:1	9600
Flask #2	Dead-A	896	819	910	40:1	7640
	Zeo-B	1994	2036	2029	40:1	11960
	Add-A	2212	2181	2145	40:1	10440

Technician: _____ Date: 2/17/09

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ALGAL BIOASSAY DATA SHEETS

6.0 Lab Notes

2/17/09

ESJ 09-02 TIE
96 Hr. Static Growth
Selenastrum capricornutum

Ambient Samples (02/07/09)

Deadman Creek @ Gurr Rd (535XDCAGR)

1.0 Stock Preparation
0.15 liters of Ambient Sample filtered through 0.22 µm Metrigard filter.
0.15 liters of Ambient Sample filtered through 0.22 µm Metrigard filter then treated with Zeolite.
0.15 liters of Ambient Sample filtered through 0.22 µm Metrigard filter, treated with Zeolite, and ammonia added back.
0.15 liters R/O EPAMH filtered through 0.22 µm Metrigard filter

2.0 Water Quality Measurement
Water quality of dilution and effluent measured after addition of EPA Algal Assay Media (AAM). Section 3.0, page 1

EPA Algal Assay Media Addition (Without EDTA)
Algal Assay Media prepared as per EPA 821-R-02-013; Section 14-Tables 1 and 2
Added 0.15 mL each of #1-5 EPA AAM to 0.15 L **Ambient Sample**
Added 0.15 mL each of #1-5 EPA AAM to 0.15 L R/O EPAMH; **Control Water**

Added 0.15 mL each of #1-5 EPA AAM to 0.15 L **Zeolite Tx.**
Added 0.15 mL each of #1-5 EPA AAM to 0.15 L **Ammonia Addback**

Stirred samples on magnetic stir plates for apprx. 10 minutes.

4.0 Background Counts
Particle background counts measured with electronic particle counter - Coulter Counter, model ZBI.
Counts recorded on section 2.0, page 2.

5.0 Exposure Series Preparation and Algal Inoculation
All concentrations prepared as described in secton 4.0, page 1, and held in 125 mL solution beakers .
All solutions were inoculated with pure culture algal stock in log phase growth to achieve a concentration of 10,000 cells/mL, calculations in secton 6.0 page 2. All solutions thoroughly stirred. Divided the 150 mL solution beaker into 3-50 mL aliquots and distributed into flasks A, B and C. Placed all flasks randomly on a shaker table with 100 rpm continous rotation in environmental chamber (continuous light at 25 °C ± 1 °C)
All flasks randomly rotated twice daily.

Technician: _____ Date: 02/17/09

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Environmental Toxicology Specialists

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-02 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/013	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	ESJ Ag Waiver Sample (020709) without EDTA		
Test Species:	*Selenastrum capricornutum*	Animal Lot No.:	UTEX: 100208
Initiation Date:	February 17, 2009	Termination Date:	February 21, 2009

	OBSERVATIONS Day (0) Date: 02/17/09					96 Hour Obsv.			
Test Conc (%)	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
Control	24	7.5	8.67	①70/100	484	25	7.2	8.07	482
Dead @ Gurr	24	5.4	7.73	①850/480	1823	25	6.9	8.63	1401
Gurr Zeolite	24	6.6	7.92	—	1260	25	7.3	8.53	1114
Gurr Addback	24	7.3	7.96	—	1584	25	7.1	8.71	1385
						GS 2/21/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L): Meter ID 04

^^= pH: Meter ID 02

^=Conductivity/Salinity (µmohs): Meter ID 03

**Alkalinity (mg/L CaCO3); HACH Test Kit

~=Water Hardness (mg/L CaCO3); HACH Test Kit

ADDITIONAL COMMENTS: ① Measurement taken in 10ml sample vol BES 2/17/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.
Control water ID = R/O EPAMH #071

All surface waters filtered through a 60 µm screen daily

Technician: _____ Date: 2/17/09

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Environmental Toxicology Specialists

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-02 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/013	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	ESJ Ag Waiver Sample (020709) without EDTA		
Test Species:	*Selenastrum capricornutum*	Animal Lot No.:	UTEX: 100208
Initiation Date:	February 17, 2009	Termination Date:	February 21, 2009

Samples Conc.	Day 1				Day 2				Day 3			
	Temp.	D.O.*	pH^^	Cond.^	Temp	D.O.*	pH^^	Cond.^	Temp.	D.O.*	pH^^	Cond.^
Control	25	7.1	7.87	459	26	7.3	8.15	485	25	7.0	8.28	477
Dead @ Gurr	25	6.8	7.75	1566	26	7.1	8.15	1485	26	6.8	8.46	1420
Gurr Zeolite	25	7.2	7.49	1128	26	7.2	8.17	1157	25	7.0	8.44	1131
Gurr Addback	25	7.1	8.33	1414	26	7.3	8.47	1426	25	7.0	8.66	1400
	BES 2/18/09				BES 2/19/09				GS 2/20/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L): Meter ID 04

^^= pH: Meter ID 02

^=Conductivity/Salinity (µmohs): Meter ID 03

**Alkalinity (mg/L CaCO3); HACH Test Kit

~=Water Hardness (mg/L CaCO3); HACH Test Kit

ADDITIONAL COMMENTS:

Water Quality taken in "C" replicate

EPA Algal Assay Media (AAM) Without EDTA

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Environmental Toxicology Consultants

LABORATORY NOTES

Date: 2/21/09 EST 09-02 TIE

Selenastrum capricornutum

Dead at Grab sample screened, then second measurements were taken:

		1	2	3	$\bar{x}$
Grab	w/c	0.070	0.069	0.068	0.069
	A	0.087	0.087	0.088	0.087
	B	0.046	0.047	0.047	0.047

Technician: _____ Date: 2/21/09

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LABORATORY NOTES

Date: 02/15/09

Selenastrum capricornutum

Init: 021509 from 3XB-2 PC

Init: 020109 from 100208 UTEX Slant

Day 0 Date: 02/15/09 Initials: MC

Background: 17, 8, 14	mean	dilution	cells/mL
1X: 5345, 5369, 5355	5356	160:1	1.8570×10^6
2X: 9584, 9764, 9706	9685	160:1	1.5495×10^6
3X: 13443, 13757, 13573	13591	160:1	2.1746×10^6

Day 1 Date: 02/16/09 Initials: BES

Background: 8, 9, 6	mean	dilution	cells/mL	% improvement
1X: 13211, 13938, 12875	13341	160:1	2.1346×10^6	149%
2X: 20853, 20636, 20757	~~20748~~ ① 20749	160:1	3.3198×10^6	114%
3X: 25595, 25190, 25527	25437	160:1	4.0699×10^6	87%

Day 2 Date: 02/17/09 Initials: BES

Background: 7, 7, 6	mean	dilution	cells/mL	% improvement
1X: 36564, 36686, 37196	36815	160:1	5.8904×10^6	176%
2X: 51775, 51735, 50482	51331	160:1	8.2130×10^6	147%
3X: 58936, 57740, 58368	58348	160:1	9.3357×10^6	129%

Used 2X P.C. to start ESJ 09-02 TIE algae tests.

① entry error BES 2/16/09

Technician: (see above) Date: 02/15/09

APPENDIX II

ALGAE PHASE I TIEs

ESJ 09-05 TIE
(5/19/09 Sample Date)

Prairie Flower Drain @ Crows Landing Rd

Adminsitrative Record
Page 17803

Summary of Chronic Phase I Algae TIE
Prairie Flower Drain @ Crows Landing Rd 5/19/09 Sample
(535XPFDCL)

Treatment	*Conc. (%)*	*Absorbance @ 750 nm*	*Cells/mL (x 10^6)* [a]	*Comments*
Baseline	Lab Control	0.0590	0.7357	47% decrease in algal cell growth
	100	0.0315*	0.3775	
C-8 SPE Column Treatment	Tx Control	0.0795	1.0028	SPE treatment had no effect on toxicity and no toxicity was recovered in the column eluate - NPOs did not have a role in sample toxicity
	Column Blank	0.0430	0.5273	
	100	0.0305*	0.3645	
	2X Add-back	0.1870	2.4031	
EDTA Treatment	EDTA Control	0.0875	1.1070	EDTA treatment reduced toxicity and EDTA+SPE treatment eliminated toxicity – Cationic chemical toxicity suspected
	100	0.0505*	0.6250	
	C-8 + EDTA	0.1130	1.4391	
Zeolite Treatment	Zeolite Control	0.0565	0.7032	Zeolite treatment slightly reduced toxicity – Ammonia had a minor role in sample toxicity
	100	0.0485	0.5990	

Sample Date: 5/19/09

Test Date: 5/27/09

a Cell number x 10^6 = 13.026 x absorbance @ 750 nm – 0.0328

* Significantly different from control ($p<0.05$)

Conclusion:

The sample reduced algae growth by 47%. Toxicity was reduced by EDTA and eliminated by the EDTA+SPE treatment, indicating that cationic chemical(s) were the major cause of the sample toxicity. Zeolite treatment reduced toxicity, indicating that ammonia had a minor role in the sample toxicity. SPE treatment did not appreciably reduce toxicity, indicating that NPOs did not have a role in the toxicity.

09-05 TIE (5/19/09)

Sample	Rep	Absorbance	Mean	Cell Number (13.026*abs-0.0328)	Mean	Cell Number x 10^6	Mean	% diff
Baseline Control	A	0.052		0.6446		644552		
	B	0.066	0.0590	0.8269	0.7357	826916	735734	
Prairie Flower Drain	A	0.036		0.4361		436136		
	B	0.027	0.0315	0.3189	0.3775	318902	377519	-47
EDTA Control	A	0.090		1.1395		1139540		
	B	0.085	0.0875	1.0744	1.1070	1074410	1106975	
EDTA	A	0.044		0.5403		540344		
	B	0.057	0.0505	0.7097	0.6250	709682	625013	-42
	A	0.127		1.6215		1621502		
C8 + EDTA	B	0.099	0.1130	1.2568	1.4391	1256774	1439138	29
Tx Blank	A	0.083		1.0484		1048358		
	B	0.076	0.0795	0.9572	1.0028	957176	1002767	
Column blank	A	0.047		0.5794		579422		
	B	0.039	0.0430	0.4752	0.5273	475214	527318	--
C-8	A	0.033		0.3971		397058		
	B	0.028	0.0305	0.3319	0.3645	331928	364493	-29
2X Add-back	A	0.217		2.7938		2793842		
	B	0.157	0.1870	2.0123	2.4031	2012282	2403062	
Zeolite Control	A	0.052		0.6446		644552		
	B	0.061	0.0565	0.7618	0.7032	761786	703169	
Zeolite	A	0.048		0.5924		592448		
	B	0.049	0.0485	0.6055	0.5990	605474	598961	-45

6/12/09

Algal Cell Growth Test WITH EDTA-Growth-Absorbance

Start Date:	5/27/2009	Test ID:	a1320905Ta	Sample ID:	Prairie Flower Drain
End Date:	5/31/2009	Lab ID:	CAAS-Aqua-Science 946160	Sample Type:	BASELINE
Sample Date:	5/19/2009	Protocol:	EPA CF4-EPA 821-R-02-013	Test Species:	SC-Selenastrum capricornutum
Comments:	ESJ 09-05 TIE: Algae Bioassay				

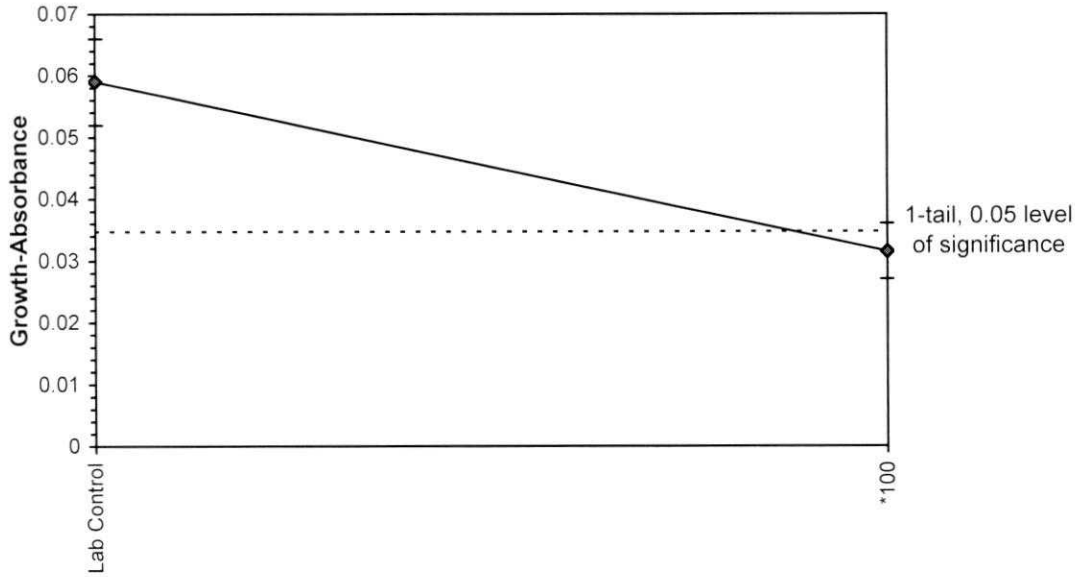
Conc-%	1	2
Lab Control	0.0520	0.0660
100	0.0360	0.0270

			Transform: Untransformed					1-Tailed		
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD
Lab Control	0.0590	1.0000	0.0590	0.0520	0.0660	16.779	2			
*100	0.0315	0.5339	0.0315	0.0270	0.0360	20.203	2	3.305	2.920	0.0243

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Normality of the data set cannot be confirmed				
F-Test indicates equal variances (p = 0.73)	2.41975	16210.7		

Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates significant differences	0.0243	0.41185	0.00076	6.9E-05	0.08065	1, 2

Dose-Response Plot



ToxCalc v5.0.23
Administrative Record
Page 17806

Reviewed by:

Algal Cell Growth Test WITH EDTA-Growth-Absorbance

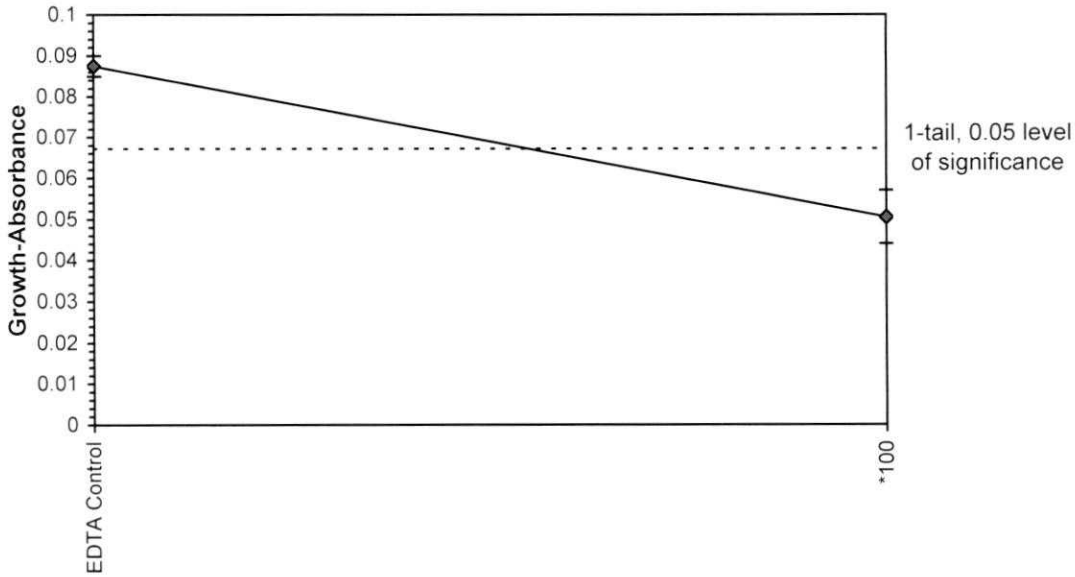
Start Date:	5/27/2009	Test ID:	a1320905Tb	Sample ID:	PRAIRIE FLOWER DRAIN
End Date:	5/31/2009	Lab ID:	CAAS-Aqua-Science 946160	Sample Type:	EDTA
Sample Date:	5/19/2009	Protocol:	EPA CF4-EPA 821-R-02-013	Test Species:	SC-Selenastrum capricornutum
Comments:	ESJ 09-05 TIE: Algae Bioassay				

Conc-%	1	2
EDTA Control	0.0900	0.0850
100	0.0440	0.0570

			Transform: Untransformed					1-Tailed		
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD
EDTA Control	0.0875	1.0000	0.0875	0.0850	0.0900	4.041	2			
*100	0.0505	0.5771	0.0505	0.0440	0.0570	18.203	2	5.313	2.920	0.0203

Auxiliary Tests	Statistic		Critical		Skew	Kurt
Normality of the data set cannot be confirmed						
F-Test indicates equal variances (p = 0.47)	6.76		16210.7			
Hypothesis Test (1-tail, 0.05)	**MSDu**	**MSDp**	**MSB**	**MSE**	**F-Prob**	**df**
Homoscedastic t Test indicates significant differences	0.02034	0.2324	0.00137	4.8E-05	0.03365	1, 2

Dose-Response Plot



Administrative Record
Page 17807
Reviewed by:

Algal Cell Growth Test WITH EDTA-Growth-Absorbance

Start Date:	5/27/2009	Test ID:	a1320905Tc	Sample ID:	PRAIRIE FLOWER DRAIN
End Date:	5/31/2009	Lab ID:	CAAS-Aqua-Science 946160	Sample Type:	SPE
Sample Date:	5/19/2009	Protocol:	EPA CF4-EPA 821-R-02-013	Test Species:	SC-Selenastrum capricornutum
Comments:	ESJ 09-05 TIE: Algae Bioassay				

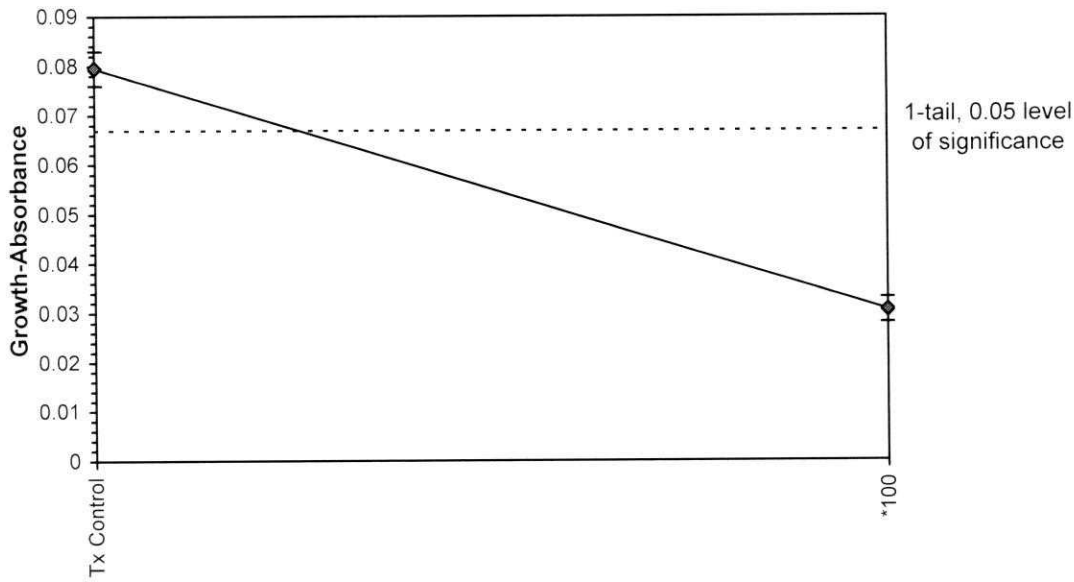
Conc-%	1	2
Tx Control	0.0830	0.0760
100	0.0330	0.0280

			Transform: Untransformed					1-Tailed		
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD
Tx Control	0.0795	1.0000	0.0795	0.0760	0.0830	6.226	2			
*100	0.0305	0.3836	0.0305	0.0280	0.0330	11.592	2	11.392	2.920	0.0126

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Normality of the data set cannot be confirmed				
F-Test indicates equal variances (p = 0.79)	1.96	16210.7		

Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates significant differences	0.01256	0.15798	0.0024	1.9E-05	0.00762	1, 2

Dose-Response Plot



Adminsitrative Record
Page 17808

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Algal Cell Growth Test WITH EDTA-Growth-Absorbance

Start Date:	5/27/2009	Test ID:	a1320905Td	Sample ID:	PRAIRIE FLOWER DRAIN
End Date:	5/31/2009	Lab ID:	CAAS-Aqua-Science 946160	Sample Type:	ZEOLITE
Sample Date:	5/19/2009	Protocol:	EPA CF4-EPA 821-R-02-013	Test Species:	SC-Selenastrum capricornutum
Comments:	ESJ 09-05 TIE: Algae Bioassay				

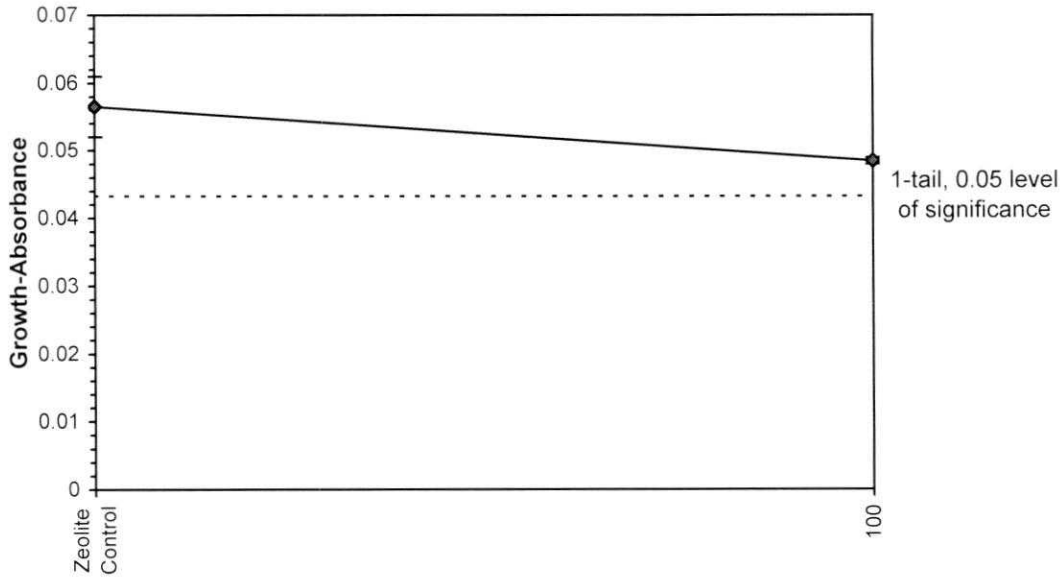
Conc-%	1	2
Zeolite Control	0.0520	0.0610
100	0.0480	0.0490

			Transform: Untransformed					1-Tailed		
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD
Zeolite Control	0.0565	1.0000	0.0565	0.0520	0.0610	11.264	2			
100	0.0485	0.8584	0.0485	0.0480	0.0490	1.458	2	1.767	2.920	0.0132

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Normality of the data set cannot be confirmed				
F-Test indicates equal variances (p = 0.14)	81	16210.7		

Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates no significant differences	0.01322	0.234	6.4E-05	2.1E-05	0.21928	1, 2

Dose-Response Plot



Administrative Record
Page 17809
Reviewed by:

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ALGAL BIOASSAY - CELL DETERMINATION

Test Number:	ESJ 09-05 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/013	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	ESJ Ag Waiver Samples (051909) WITHOUT EDTA		**BASELINE**
Test Species:	*Selenastrum capricornutum*	Animal Lot No.:	UTEX: 100208
Initiation Date:	May 27, 2009	Termination Date:	May 31, 2009

Absorbance @ 750 nm with Hach DR 2800 Spectrophotometer					
Conc. (%)	Replicate	1	2	3	Mean
Baseline Control	A	0.052	0.052	0.053	0.052
	B	0.066	0.066	0.067	0.066
	C				
	D				
Prairie Flower Drain @ Crows Landing	A	0.036	0.035	0.037	0.036
	B	0.026	0.028	0.027	0.027
	C				
	D				
	A				
	B				
	C				
	D				
	A				
	B				
	C				
	D				
	A				
	B				
	C				
	D				
	A				
	B				
	C				
	D				

w/o algae

Baseline Control	A	-0.001	-0.001	-0.001	-0.001
Prairie Flower	A	0.012	0.013	0.012	0.012

Technician: [signature] Date: 5/31/09

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ALGAL BIOASSAY - CELL DETERMINATION

Test Number:	ESJ 09-05 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/013	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	ESJ Ag Waiver Samples (051909) WITHOUT EDTA		**1 mg/L EDTA / C-8 + EDTA**
Test Species:	*Selenastrum capricornutum*	Animal Lot No.:	UTEX: 100208
Initiation Date:	May 27, 2009	Termination Date:	May 31, 2009

Absorbance @ 750 nm with Hach DR 2800 Spectrophotometer					
Conc. (%)	Replicate	1	2	3	Mean
EDTA Control	A	0.090	0.090	0.089	0.096
	B	0.086	0.085	0.085	0.085
	C				
	D				
Prairie Flower Drain @ Crows Landing + 1 mg/L EDTA	A	0.047	0.047	0.043	0.044
	B	0.056	0.059	0.056	0.057
	C				
	D				
Prairie Flower Drain @ Crows Landing C-8 + EDTA	A	0.127	0.128	0.127	0.127
	B	0.100	0.100	0.097	0.099
	C				
	D				
	A				
	B				
	C				
	D				
	A				
	B				
	C				
	D				
	A				
	B				
	C				
	D				

w/o algae

EDTA Control	A	0.000	0.000	0.000	0.000
EDTA	A	0.014	0.014	0.014	0.014
C-8 + EDTA	A	0.019	0.017	0.014	0.017

Technician: [signature] Date: 5/31/09

Adminsitrative Record
Page 17811

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ALGAL BIOASSAY - CELL DETERMINATION

Test Number:	ESJ 09-05 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/013	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	ESJ Ag Waiver Samples (051909) WITHOUT EDTA		**C-8 SPE + Add-back**
Test Species:	*Selenastrum capricornutum*	Animal Lot No.:	UTEX: 100208
Initiation Date:	May 27, 2009	Termination Date:	May 31, 2009

Absorbance @ 750 nm with Hach DR 2800 Spectrophotometer					
Conc. (%)	Replicate	1	2	3	Mean
Tx Control	A	0.083	0.083	0.083	0.083
	B	0.076	0.076	0.075	0.076
	C				
	D				
Prairie Flower Drain @ Crows Landing	A	0.047	0.047	0.046	0.047
	B	0.039	0.038	0.039	0.039
	C				
Column Blank	D				
Prairie Flower Drain @ Crows Landing	A	0.033	0.033	0.032	0.033
	B	0.029	0.028	0.028	0.028
	C				
C-8 TC	D				
Prairie Flower Drain @ Crows Landing	A	0.216	0.217	0.217	0.217
	B	0.157	0.157	0.157	0.157
	C				
2X Add-Back	D				
	A				
	B				
	C				
	D				
	A				
	B				
	C				
	D				

w/o algae

Tx Control	A	0.000	0.000	0.000	0.000
Column Blank	A	0.000	0.000	0.000	0.000
C-8 TC	A	0.014	0.014	0.014	0.014
2X Add-back	A				

Technician: [signature] Date: 5/31/09

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Environmental Toxicology Specialists

ALGAL BIOASSAY - CELL DETERMINATION

Test Number:	ESJ 09-05 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/013	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	ESJ Ag Waiver Samples (051909) WITHOUT EDTA		**Zeolite Tx**
Test Species:	*Selenastrum capricornutum*	Animal Lot No.:	UTEX: 100208
Initiation Date:	May 27, 2009	Termination Date:	May 31, 2009

Absorbance @ 750 nm with Hach DR 2800 Spectrophotometer					
Conc. (%)	Replicate	1	2	3	Mean
Zeolite Control	A	0.052	0.053	0.052	0.052
	B	0.061	0.061	0.060	0.061
	C				
	D				
Prairie Flower Drain @ Crows Landing Zeolite Tx	A	0.048	0.048	0.047	0.048
	B	0.050	0.049	0.049	0.049
	C				
	D				
	A				
	B				
	C				
	D				
	A				
	B				
	C				
	D				
	A				
	B				
	C				
	D				
	A				
	B				
	C				
	D				

w/o algae

Zeolite Control	A	0.001	0.001	0.001	0.001
Zeolite Tx	A	0.007	0.007	0.007	0.007

Technician: _____ Date: 5/31/09

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ALGAL BIOASSAY DATA SHEETS

1.0 TEST AND CLIENT INFORMATION

Test Number:	ESJ 09-05 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/013	Technician(s):	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	ESJ Ag Waiver Samples (051909) WITHOUT EDTA		
Initiation Date:	May 27, 2009	Termination Date:	May 31, 2009

2.0 TEST CONDITIONS & TEST SPECIES INFORMATION

Species:	*Selenastrum capricornutum*	Temperature:	25.0°C ± 1.0°C
Source:	University of Texas (UTEX)	Agitation:	100 RPM continuous
Media:	EPA Algal Assay Media (AAM)	Lighting:	400 ft candles
Inoculation:	10,000 cells/mL		

3.0 DILUTION WATER INFORMATION

Dilution Water Source	D.O. (mg/L)	pH (units)	E.C. (µmhos)	Comments
RO EPAMH	6.9	8.11	445	0.22 µm Metrigard vacuum filtered
Prairie Flower - 535XPFDCL	6.8	7.26	20410	0.22 µm Metrigard vacuum filtered

4.0 PREPARATION OF EXPOSURE SOLUTIONS

Test Solution Conc.	Ctrl.	Sites			Comments
Ambient (mL)	0	220			Time: 1030
Control Water (mL)	220	0			Tech: BES
TOTAL	220 mL	220 mL			

Technician: [signature] Date: 5/27/09

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Environmental Toxicology Specialists

ALGAL BIOASSAY DATA SHEETS

5.0 TEST INITIATION

Without EDTA

Sample	Background Counts		
Isoton	15	17	20
R/O EPAMH	126	104	126
Prairie Flower Drain @ Crows Landing	121	108	107

6.0 ALGAE COUNT

Replicate	Dilution Factor				Cell Counts			Mean
	Dil 1	Dil 2	Count	Factor	1	2	3	
1	0.25ml Sample	@5 to 20ml	0.5ml	160:1	49192	49208	49258	49219

Calculations:

Time of Inoculation: 1500

Target: 10,000 cells/mL test solution

Algae Stock Concentration:

49219 x 160 = 7.8750×10^6

Average Cell Count x Dilution Factor = cells/mL algal stock

Inoculation:

10,000 cells/mL solution x ~~250~~ 150 mL test solution/concentration (100ml)

7.8750×10^6 cells/mL algal stock

= 0.190 (0.127) mL stock/conc. = 190 (127) µl algal stock/conc.

Final Algal Density Check

Time: 1530

	ID	Rep	Count 1	Count 2	Count 3	Dilution	Adj. Avg.
Flask #1	Control #1	B	376	383	366	40:1	10400
Flask #2	Prairie Flower	A	375	375	359	40:1	10320
Flask #3							
Flask #4							
Flask #5							
Flask #6							

Technician: [signature] Date: 5/27/09

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Environmental Toxicology Specialists

ALGAL BIOASSAY DATA SHEETS

7.0 LAB NOTES

5/27/09

ESJ 09-05 TIE

96 Hr. Static Growth

Selenastrum capricornutum

1.0 Stock Preparation

0.5 liters of Ambient samples (5/19/2009) vacuum filtered through 0.22 µm Metrigard filter
0.5 liters of R/O EPAMH vacuum filtered through 0.22 µm Metrigard filter

2.0 Water Quality Measurement

Water quality of dilution and effluent measured after addition of EPA Algal Assay Media (AAM).
Section 3.0, page 1

3.0 Algal Assay Media Addition

Algal Assay Media prepared as per EPA 821/R-02/013; Section 14 - Tables 1 and 2 (**without EDTA**)

Added 0.22 mL each of #1-5 EPA AAM to 0.22 L:	**Prairie Flower Drain @ Crows Landing**
Added 0.5 mL each of #1-5 EPA AAM to 0.5 liters R/O EPAMH:	**Control Water**
Added 0.22 mL each of #1-5 EPA AAM to 0.22 L:	**1 mg/L EDTA Control**
Added 0.22 mL each of #1-5 EPA AAM to 0.22 L:	**1 mg/L EDTA**
Added 0.22 mL each of #1-5 EPA AAM to 0.22 L:	**C-8 Column Blank**
Added 0.22 mL each of #1-5 EPA AAM to 0.22 L:	**C-8 SPE TC**
Added 0.22 mL each of #1-5 EPA AAM to 0.22 L:	**C-8 SPE TC + 1 mg/L EDTA**
Added 0.22 mL each of #1-5 EPA AAM to 0.22 L:	**Zeolite Blank**
Added 0.22 mL each of #1-5 EPA AAM to 0.22 L:	**Zeolite Tx**
Added 0.1 mL each of #1-5 EPA AAM to 0.1 L:	**Tx Control**
Added 0.1 mL each of #1-5 EPA AAM to 0.1 L:	**2X Add-back**

Stirred samples on magnetic stir plates for approximately 10 minutes.

4.0 Background Counts

Particle background counts measured with electronic particle counter - Coulter Counter, model ZBI.
Counts recorded on section 5.0, page 2.

5.0 Exposure Series Preparation and Algal Inoculation

All concentrations prepared as described in section 4.0, page 1, and held in 250 mL solution beakers.
All solutions were inoculated with pure culture algal stock in log phase growth to achieve a concentration of 10,000 cells/mL, calculations in section 6.0, page 2. All solutions stirred thoroughly.
Divided the 150 mL in solution beaker into 3-50mL aliquots and distributed into flasks A, B and C (water quality rep). Placed flasks randomly on a shaker table with 100 rpm continuous rotation in environmental chamber.
Continuous light at 25°C ± 1°C.
All flasks randomly rotated twice daily.

Technician: _____ Date: 5/27/09

AQUA-Science

Environmental Toxicology Specialists

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-05 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/013	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	ESJ Ag Waiver Samples (051909) WITHOUT EDTA		
Test Species:	*Selenastrum capricornutum*	Animal Lot No.:	UTEX: 100208
Initiation Date:	May 27, 2009	Termination Date:	May 31, 2009

	OBSERVATIONS: Day: 0 5/27/2009					96 Hour Observations			
Sample @ 100%	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
Baseline Control	26	6.9	8.11	70/100	445	25	8.4	8.39	444
Prairie Flower	26	6.8	7.26	470/470	2040	25	8.2	8.90	1910
EDTA Control	26	6.9	8.15	—	451	25	8.2	8.78	471
Prairie Flower + EDTA	26	6.9	8.39	—	2020	25	8.0	8.89	1956
Prairie Flower + C-8 + EDTA	26	6.6	7.45	—	2000	26	8.0	8.71	1908
Prairie Flower Column Blank	26	7.5	8.10	—	464	26	8.0	8.77	506
Prairie Flower + C-8	26	6.4	7.41	—	2000	26	7.8	8.92	1886
Zeolite Control	26	7.4	8.21	—	462	26	8.0	8.73	506
Prairie Flower + Zeolite	26	7.3	7.48	—	1533	26	8.0	8.85	1465
				Tech Init/Date		BES 5/31/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L): Meter ID 04

^^= pH: Meter ID 02

^=Conductivity/Salinity (µmohs): Meter ID 03

**Alkalinity (mg/L CaCO3); HACH Test Kit

~=Water Hardness (mg/L CaCO3); HACH Test Kit

ADDITIONAL COMMENTS: ① Measurement taken in lab at sample wt. BES 5/27/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.
Control water ID = R/O CBAMH #256

All surface waters filtered through a 60 µm screen daily

Technician: _____ Date: 5/27/09

AQUA-Science

Environmental Toxicology Specialists

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-05 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/013	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	ESJ Ag Waiver Samples (051909) WITHOUT EDTA		
Test Species:	*Selenastrum capricornutum*	Animal Lot No.:	UTEX: 100208
Initiation Date:	May 27, 2009	Termination Date:	May 31, 2009

	Day 1				Day 2				Day 3			
Samples @ 100%	Temp.	D.O.*	pH^^	Cond.^	Temp	D.O.*	pH^^	Cond.^	Temp.	D.O.*	pH^^	Cond.^
Baseline Control	24	8.4	8.20	443	25	8.0	8.03	438	25	8.3	8.41	440
Prairie Flower	25	8.6	7.99	1945	25	8.0	8.27	1907	25	8.2	8.63	1906
EDTA Control	24	8.5	9.07	446	25	8.1	8.95	437	25	8.3	9.26	455
Prairie Flower + EDTA	25	8.6	8.23	1981	25	8.0	8.64	1955	25	8.3	8.92	1950
Prairie Flower + C-8 + EDTA	25	8.4	8.11	2010	25	7.8	8.79	1976	25	8.2	9.01	1931
Prairie Flower Column Blank	25	8.5	8.92	471	25	7.8	9.25	462	25	8.2	9.37	470
Prairie Flower + C-8	25	8.5	8.25	1931	25	7.9	8.74	1884	25	8.2	8.98	1883
Zeolite Control	25	8.4	8.87	468	25	7.9	9.11	460	25	8.1	9.26	469
Prairie Flower + Zeolite	25	8.4	8.29	1499	25	7.7	8.61	1468	25	8.0	8.85	1466
Tech Init/Date	DES 5/28/09				GS 5/29/09				GS 5/30/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L): Meter ID 04

^^= pH: Meter ID 02

^=Conductivity/Salinity (µmohs): Meter ID 03

ADDITIONAL COMMENTS:

Water Quality taken in "E" replicate

EPA Algal Assay Media (AAM) Without EDTA

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Environmental Toxicology Specialists

TIE ADD-BACK CALCULATION DATA SHEET

Client:	MJL - LLC	Test Species:	Algae
TIE No.:	ESJA 09-05 TIE	TIE Type:	phase I
Sample Date:	5/19/09		

1.0 **Through-column volume:** 1000 mL

2.0 **Eluate concentration factor:**

Through-column volume 1000 mL / eluate volume 2 mL = 500 X/mL

3.0 **Total volume of add-back needed:**

2 reps X 50 mL/rep = 100 mL

Calculations

Add-Back Level 1:

100 mL total volume needed X add-back level 2 / eluate concentration factor 500 X/mL

= 0.4 mL (400 µL) of eluate

Add-Back Level 2: N/A

_____ mL total volume needed X add-back level _____ / eluate concentration factor _____ X/mL

= _____ mL (_____ µL) of eluate

Processed by/Date: [signature]

LABORATORY NOTES

052709

EDTA STANDARD

① 221.3mg of EDTA plus 20ml of ultraPure to give a 1° standard of:

$$\frac{221.3\text{ mg}}{20\text{ ml}} \times \frac{10\text{ mg}}{\text{ml}}$$

② Making 2° standard:
1:10 dilution 1ml of 1° EDTA standard to 9ml of ultraPure

③ Math: $\left(\frac{1\text{mg}}{1000\text{ml}}\right)(150\text{g}) = \left(\frac{10\text{ mg}}{\text{ml}}\right)(x)$

$x = 0.015\text{ml}$
$= 15\text{ml}$

dilution factor 10
so; $15\text{ ml} \times 10 = 150\text{ml}$

Technician: [signature] Date: 5/27/09

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Environmental Toxicology Consultants

LABORATORY NOTES

Date: 052509 ESI 09-05 TIE

Selenastrum capricornutum

Init: 052509 from 3X-1 PC

Init: 032309 from 100208 UTEX Slant

Day 0 Date: 052509 Initials: BES

Background: 10, 12, 10		mean	dilution	cells/mL
1X:	4246, 4364, 4303	4304	160:1	0.6886 x10^6
2X:	8013, 8179, 8096	8096	160:1	1.2954x10^6
3X:	11197, 12258, 12615	12023	160:1	1.9237 x10^6

Day 1 Date: 052609 Initials: BES

Background: 17, 13, 17		mean	dilution	cells/mL	% improvement
1X:	13727, 13897, 13836	13820	160:1	2.2112x10^6	221%
2X:	22861, 22950, 22783	22867	160:1	3.6587x10^6	182%
3X:	29409, 29096, 29077	29194	160:1	4.6710x10^6	143%

Day 2 Date: 05 27 09 Initials: BES

Background: 15, 17, 20		mean	dilution	cells/mL	% improvement
1X:	43295, 41696, 42093	42361	160:1	6.7778x10^6	207%
2X:	49192, 49208, 49258	49219	160:1	7.8750x10^6	115%
3X:	45131, 45035, 45222	45129	160:1	7.2206x10^6	55%

Used 2X P.C. to start ESI 09-05 TIE algae tests.

Technician: (see above) Date: 05/25/09

AQUA-Science

Environmental Toxicology Specialists

Meter Calibration Log for Ag Waiver

Meters calibrated on 05/27/09
Sample field date: 5/19/2009
Test initiation date: 5/27/2009
Technician's initials: MC/BD

NOTE: Please enter initial calibration values into calibration logbook.

Initial Calibration

	Temp	EC (µS/cm) Meter- 03			DO (mg/L) Meter - 04		pH Meter- 02		
Calibration specifics	NAP	internal[1]	998 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer
Calibration readings	NAP	0.464	999	109.5	N/A	7.6	4.00	10.00	7.00

1. Internal cell constant for the below listed sites 0.464
2. Internal cell constant for the below listed sites N/A /water calibrated at 30 °C and 100% saturation (7.6 mg/L)

Sample ID:	Species		
ESJ 09-05 TIE : Initial Water Quality - Day 0	Cerio	FHM	Algae
Prairie Flower Drain @ Crows Landing - 535XPFDCL			BGT

Calibration Verification

	Temp	EC (µS/cm)			DO (mg/L)		pH		
Calibration specifics	NAP	internal[1]	998 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer check
Calibration readings	NAP	NAP	983	104.4	NAP	7.6	3.99	9.95	6.92

1. Internal cell constant N/A
2. Internal cell constant N/A /water calibrated at 30 °C and 100% saturation (7.6 mg/L)

Adminsitrative Record
Page 17822

AQUA-Science

Environmental Toxicology Specialists

Meter Calibration Log for Ag Waiver

Meters calibrated on 05/28/09
Sample field date: 5/19/2009
Test initiation date: 5/27/2009
Technician's initials: MC/BLS

NOTE: Please enter initial calibration values into calibration logbook.

Initial Calibration

	Temp	EC (µS/cm) Meter- 03			DO (mg/L) Meter 04		pH Meter- 02		
Calibration specifics	NAP	internal[1]	998 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer
Calibration readings	NAP	0.464	997	109.5	N/A	7.0	4.00	10.04	7.00

1. Internal cell constant for the below listed sites 0.464
2. Internal cell constant for the below listed sites N/A /water calibrated at 34 °C and 100% saturation (7.0 mg/L)

Sample ID:	Species		
ESJ 09-05 TIE : 24-hr Water Quality - Day 0	Cerio	FHM	Algae
Prairie Flower Drain @ Crows Landing - 535XPFDCL			BLS

Calibration Verification

	Temp	EC (µS/cm)			DO (mg/L)		pH		
Calibration specifics	NAP	internal[1]	998 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer check
Calibration readings	NAP	NAP	983	104.4	NAP	7.6	3.94	10.01	6.95

1. Internal cell constant N/A
2. Internal cell constant N/A /water calibrated at 30 °C and 100% saturation (7.6 mg/L)

Adminsitrative Record
Page 17823

AQUA-Science

Environmental Toxicology Specialists

Meter Calibration Log for Ag Waiver

Meters calibrated on 5/29/09
Sample field date: 5/19/2009
Test initiation date: 5/27/2009
Technician's initials: GS

NOTE: Please enter initial calibration values into calibration logbook.

Initial Calibration

	Temp	EC (µS/cm) Meter- 03			DO (mg/L) Meter -04		pH Meter- 02		
Calibration specifics	NAP	internal[1]	998 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer
Calibration readings	NAP	0.465	997	110.1	N/A	7.8	4.00	10.00	7.00

1. Internal cell constant for the below listed sites 0.465
2. Internal cell constant for the below listed sites N/A /water calibrated at 28 °C and 100% saturation (7.6 mg/L)

Sample ID: ESJ 09-05 TIE : 24-hr Water Quality - Day 1	Species: Cerio	FHM	Algae
Prairie Flower Drain @ Crows Landing - 535XPFDCL			GS

Calibration Verification

	Temp	EC (µS/cm)			DO (mg/L)		pH		
Calibration specifics	NAP	internal[1]	998 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer check
Calibration readings	NAP	NAP	984	104.7	NAP	7.6	4.02	10.05	7.03

1. Internal cell constant N/A
2. Internal cell constant N/A /water calibrated at 28 °C and 100% saturation (7.6 mg/L)

Page _____

AQUA-Science

Environmental Toxicology Specialists

Meter Calibration Log for Ag Waiver

Meters calibrated on 5/30/09
Sample field date: 5/19/2009
Test initiation date: 5/27/2009
Technician's initials: GS

NOTE: Please enter initial calibration values into calibration logbook.

Initial Calibration

	Temp	EC (µS/cm) Meter- 03			DO (mg/L) Meter- 04		pH Meter- 02		
Calibration specifics	NAP	internal[1]	998 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer
Calibration readings	NAP	0.465	998	110.1	N/A	7.9	4.00	10.00	6.99

1. Internal cell constant for the below listed sites 0.465
2. Internal cell constant for the below listed sites N/A /water calibrated at 27 °C and 100% saturation (7.9 mg/L)

Sample ID:	Species		
ESJ 09-05 TIE : 24-hr Water Quality - Day 2	Cerio	FHM	Algae
Prairie Flower Drain @ Crows Landing - 535XPFDCL			GS

Calibration Verification

	Temp	EC (µS/cm)			DO (mg/L)		pH		
Calibration specifics	NAP	internal[1]	998 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer check
Calibration readings	NAP	NAP	985	104.5	NAP	7.4	4.04	10.03	6.97

1. Internal cell constant N/A
2. Internal cell constant N/A /water calibrated at 29 °C and 100% saturation (7.4 mg/L)

Adminsitrative Record
Page 17825

AQUA-Science

Environmental Toxicology Specialists

Meter Calibration Log for Ag Waiver

Meters calibrated on 5/31/09
Sample field date: 5/19/2009
Test initiation date: 5/27/2009
Technician's initials: BLS

NOTE: Please enter initial calibration values into calibration logbook.

Initial Calibration

	Temp	EC (µS/cm) Meter- 03			DO (mg/L) Meter - 04		pH Meter- 02		
Calibration specifics	NAP	internal[1]	998 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer
Calibration readings	NAP	0.466	997	110.7	N/A	8.0	4.01	9.99	7.00

1. Internal cell constant for the below listed sites 0.466
2. Internal cell constant for the below listed sites N/A /water calibrated at 27 °C and 100% saturation (8.0 mg/L)

Sample ID:	Species		
ESJ 09-05 TIE : 24-hr Water Quality - Day 3	Cerio	FHM	Algae
Prairie Flower Drain @ Crows Landing - 535XPFDCL			BLS

Calibration Verification

	Temp	EC (µS/cm)			DO (mg/L)		pH		
Calibration specifics	NAP	internal[1]	998 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer check
Calibration readings	NAP	NAP	983	104.7	NAP	7.3	4.05	10.00	7.04

1. Internal cell constant N/A
2. Internal cell constant N/A /water calibrated at 30 °C and 100% saturation (9.3 mg/L)

Page _____

AQUA-Science

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Alkalinity and Hardness Calibration Log for Ag Waiver

Date: 5/27/09
Sample field date: 5/19/2009
Test initiation date: 5/27/2009
Technician initials: BLS

Initial Calibration

	Alkalinity	Hardness
Calculated Value	100	100
Actual Value:	97	95

Sample ID:

ESJ 09-05 TIE : Initial Water Quality - Day 0	Alkalinity	Hardness
Prairie Flower Drain @ Crows Landing - 535XPFDCL	457	471
-		
-		
-		

Calibration Verification

	Alkalinity	Hardness
Calculated Value	100	100
Actual Value:	99	101

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Alkalinity and Hardness Calibration Log for Ag Waiver

Date: 5/30/09
Sample field date: 5/19/2009
Test initiation date: 5/27/2009
Technician initials: BLS

Initial Calibration

	Alkalinity	Hardness
Calculated Value	100	100
Actual Value:	101	97

Sample ID:

ESJ 09-05 TIE : Initial Water Quality - Day 3	Alkalinity	Hardness
Prairie Flower Drain @ Crows Landing - 535XPFDCL	452	469
-		
-		
-		

Calibration Verification

	Alkalinity	Hardness
Calculated Value	100	100
Actual Value:	98	97

APPENDIX III

ACUTE *C. DUBIA* TIEs

ESJ 09-02 TIE
(2/7/09 Sample Date)

Deadman's Creek @ Gurr Rd

Adminsitrative Record
Page 17829

Summary of Acute Phase I *C. dubia* TIE
Deadman's Creek @ Gurr Rd 2/7/09 Sample
(535XDCAGR)

Treatment	*Conc. (%)*	*96-hr Survival (%)*	*Comment*
Baseline	Lab Control	100	100% mortality was observed in the undiluted sample. Ammonia (NH_3) = 43 mg/L)
	100	0*	
Zeolite Column	Zeolite Control	100	Zeolite treatment (ammonia removal) eliminated the toxicity NH_3 = 2.0 mg/L (95% removal)
	100	100	
Zeolite Column Ammonia Add-Back	Add-back	100	Toxicity recovered in ammonia add-back treatment NH_3 = 39.1 mg/L (92% of original concentration) Ammonia toxicity confirmed
		0*	

Sample Date: 2/7/09
Test Date: 2/17/09
* significantly different from control ($p<0.05$)

Conclusion:

Toxicity was eliminated by Zeolite treatment, and the toxicity was recovered in the ammonia add-back treatment. These TIE results confirm ammonia-caused toxicity.

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MORTALITY AND BEHAVIOR OBSERVATIONS

Test Number:	ESJ 09-02 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	East San Joaquin Ambient Sample (02/07/09) Deadman Creek @ Gurr Rd.		
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO: 021709
Initiation Date:	February 17, 2009	Termination Date:	February 21, 2009

Ambient (%)	Vessel No.	Cumulative Mortality Day 1	Day 2	Day 3	Day 4	Comments
Control	A	0	0	0	0 ⑥	n=5 animals/rep
	B	0	0	0 ①	0 ⑤	
						Test Initiation Info:
						Time: 1645
Dead @ Gurr	A	5				Tech: CW
	B	5				
						Test Termination Info:
						Time: 1450
Gurr Zeolite	A	0	0	0 ①	0 ⑥	Tech: CW
	B	0	0	0 ①	0 ⑤	⑤neonates present CW 02/20/09
						⑥neonates present CW 02/21/09
Gurr Addback	A	5				
	B	5				
Technician Initials		MC	CW	CW	CW	
Observation Time		1500	1405	1430	1450	
Observation Date		2/18/09	02/19/09	02/20/09	02/21/09	

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DOSE PREPARATION SHEET

2/17/09

ESJ 09-02 TIE

96 hr. Static Acute bioassay w/ 48 hr. Changeout

Ceriodaphnia dubia

Deadman Creek @ Gurr (535XDCAGR)

Dead @ Gurr ambient sample, 0.45 µm filtered

Dead @ Gurr ambient sample, 0.45 µm filtered, Zeolite treated

Dead @ Gurr ambient sample, 0.45 µm filtered, Zeolite treated, ammonia added back

Control water = Reverse Osmosis water amended with EPA salts to achieve EPAMH specifications (R/O EPAMH)

All surface waters filtered through 60 µm screen

Sample	Amount Sample (mL)	Dilution Water (mL)	Total (mL)*
Control	0	40	40
Dead @ Gurr	40	0	40
Gurr Zeolite	40	0	40
Gurr Addback	40	0	40

	Day 0	Day 2
Tech	GS	BLS
Time	1423	1050
Date	2/17/09	2/19/09

n = 5 animals/replicate - 2 replicates/concentration

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WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-02 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	East San Joaquin Ambient Sample (020709) Deadman Creek @ Gurr Rd.		
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO 021709
Initiation Date:	February 17, 2009	Termination Date:	February 21, 2009

	OBSERVATIONS Day (0) Date: 02/17/09					48 ~~24~~ Hour Obsv.			
Ambient (%)	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
Lab Control	24	7.1	7.85	67/98	392	25	6.7	8.00	461
Dead @ Gurr	24	4.3②/7.2	7.50	②880/480	1750	②25	③5.1	③7.99	③1616
Gurr Zeolite	24	7.1	7.22	—	1178	25	5.5	7.51	1196
Gurr Addback	24	7.5	7.79	—	1545	②25	③6.4	③8.29	③1462
						BSS 2/19/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L); Meter ID: 04

^^=pH Meter ID: 02

^=Conductivity/Salinity (µmohs); Meter ID: 03

**Alkalinity (mg/L $CaCO_3$); HACH Test Kit

~=Water Hardness (mg/L $CaCO_3$); HACH Test Kit

ADDITIONAL COMMENTS: ① Desaturated GS 2/17/09

② Measurements taken in 10 mL sample vol. GS 2/17/09

③ Total mortality, water quality taken after 24 hrs. GS 2/18/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.

Dilution water ID = R/O EPAMH H080

Technician: [signature] Date: 2/17/09

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Environmental Toxicology Consultants

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-02 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	East San Joaquin Ambient Sample (020709) Deadman Creek @ Gurr Rd.		
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO 021709
Initiation Date:	February 17, 2009	Termination Date:	February 21, 2009

	OBSERVATIONS Day (2) Date: 02/19/09					48 ~~24~~ Hour Obsv.			
Ambient (%)	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
Lab Control	24	7.4	7.97	68/96	407	25	7.6	8.17	453
Dead @ Gurr	—	—	—	—	—	—	—	—	—
Gurr Zeolite	26	9.6/7.5 ①	7.34	—	1178	25	7.4	8.17	1200
Gurr Addback	—	—	—	—	—	—	—	—	—
						02/21/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L); Meter ID: 04

^^=pH Meter ID: 02

^=Conductivity/Salinity (µmohs); Meter ID: 07

**Alkalinity (mg/L $CaCO_3$); HACH Test Kit

~=Water Hardness (mg/L $CaCO_3$); HACH Test Kit

ADDITIONAL COMMENTS:

① desaturated before use. BES 2/19/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.

Dilution water ID = R/O EPA MILLI 075

Technician: [signature] Date: 2/19/09

APPENDIX IV

ACUTE *C. DUBIA* TIEs

ESJ 09-03 TIE
(3/17/09 Sample Date)

Deadman's Creek @ Gurr Rd

Summary of Acute Phase I *C. dubia* TIE
Deadman's Creek @ Gurr Rd 3/17/09 Sample
(535XDCAGR)

Treatment	*Conc. (%)*	*Survival (%)*	*Toxic Units (TUa)*[a]	*Comment*
Baseline	Lab Control	100	NOEC = 50%	Based on the NOEC, the sample
	6.25	100	**(2.0 TUa)**	contained 2.0 TUa
	12.5	100		
	25	100	EC_{50} > 100%	
	50	95	**(< 1.0 TUa)**	
	100	50*		
Baseline + 100 ppb PBO	PBO Control	80	NOEC = 12.5%	Toxicity increased by PBO;
	6.25	60	**(8.0 TUa)**	pyrethroid insecticide toxicity
	12.5	75		suspected
	25	40*	EC_{50} = 90%	
	50	80	**(1.0 TUa)**	
	100	35*		
C-8 SPE Through-Column	Column Blank	100	--	Toxicity removed by SPE
	100	100		extraction. Non-polar organic
				(NPO) toxicity indicated
C-8 SPE Column 2X Add-Back	MeOH Ctrl	100	--	Toxicity not recovered in
	2X add-back	100		methanol eluate
EDTA Addition	EDTA Control	100	--	Toxicity not appreciably
	100	90		reduced by EDTA treatment;
				toxicity not caused by cationic
				chemicals
OP-Specific Enzyme			--	Toxicity unaffected at 10 mg/L
	Control	100		and at 50 mg/L. OP insecticide
10 mg/L	100	95		toxicity not suspected.
	Control	100		
50 mg/L	100	100		

Sample Date: 3/17/09 Test Date: 3/25/09

a TUa = 100/NOEC; TUa = 100/EC_{50} * significantly different from control ($p<0.05$)

Conclusion: Toxicity caused by pyrethroid insecticides.

Adminsitrative Record
Page 17836

Acute Ceriodaphnia Test-96 Hr Survival

Start Date:	3/25/2009	Test ID:	a1310903Ta	Sample ID:	DEADMAN'S CREEK @ GURR
End Date:	3/29/2009	Lab ID:	CAAS-Aqua-Science 946160	Sample Type:	BASELINE
Sample Date:	3/17/2009	Protocol:	EPA A5-EPA 821-R-02-012	Test Species:	CD-Ceriodaphnia dubia
Comments:	ESJ 09-03 TIE: Ceriodaphnia Bioassay				

Conc-%	1	2	3	4
Control	1.0000	1.0000	1.0000	1.0000
6.25	1.0000	1.0000	1.0000	1.0000
12.5	1.0000	1.0000	1.0000	1.0000
25	1.0000	1.0000	1.0000	1.0000
50	0.8000	1.0000	1.0000	1.0000
100	0.4000	0.6000	0.6000	0.4000

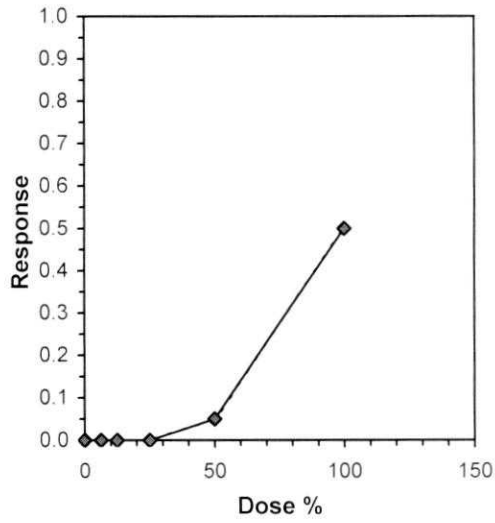
			Transform: Arcsin Square Root					Rank	1-Tailed	Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	Sum	Critical	Mean	N-Mean
Control	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4			1.0000	1.0000
6.25	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4	18.00	10.00	1.0000	1.0000
12.5	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4	18.00	10.00	1.0000	1.0000
25	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4	18.00	10.00	1.0000	1.0000
50	0.9500	0.9500	1.2857	1.1071	1.3453	9.261	4	16.00	10.00	0.9500	0.9500
*100	0.5000	0.5000	0.7854	0.6847	0.8861	14.802	4	10.00	10.00	0.5000	0.5000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.01)	0.76627	0.884	-1.1065	2.91044
Equality of variance cannot be confirmed				

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Steel's Many-One Rank Test	50	100	70.7107	2

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)		Skew
IC05	50.000	7.062	23.333	58.889	-0.7960
IC10	55.556	4.523	33.333	64.444	-0.8989
IC15	61.111	4.062	43.333	70.000	-0.6923
IC20	66.667	3.801	55.933	75.556	-0.4715
IC25	72.222	3.695	60.667	82.381	-0.1071
IC40	88.889				
IC50	>100				

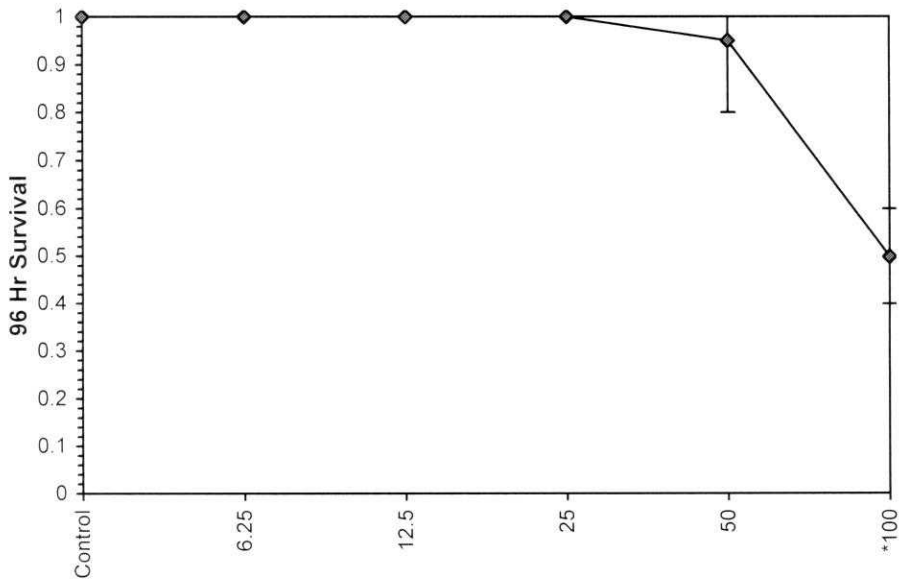


Adminsitrative Record
Page 17837
Reviewed by:

Acute Ceriodaphnia Test-96 Hr Survival

Start Date:	3/25/2009	Test ID:	a1310903Ta	Sample ID:	DEADMAN'S CREEK @ GURR
End Date:	3/29/2009	Lab ID:	CAAS-Aqua-Science 946160	Sample Type:	BASELINE
Sample Date:	3/17/2009	Protocol:	EPA A5-EPA 821-R-02-012	Test Species:	CD-Ceriodaphnia dubia
Comments:	ESJ 09-03 TIE: Ceriodaphnia Bioassay				

Dose-Response Plot



Adminsitrative Record
Page 17838

Reviewed by:

Acute Ceriodaphnia Test-96 Hr Survival

Start Date:	3/25/2009	Test ID:	a1310903Ta	Sample ID:	DEADMAN'S CREEK @ GURR
End Date:	3/29/2009	Lab ID:	CAAS-Aqua-Science 946160	Sample Type:	BASELINE
Sample Date:	3/17/2009	Protocol:	EPA A5-EPA 821-R-02-012	Test Species:	CD-Ceriodaphnia dubia
Comments:	ESJ 09-03 TIE: Ceriodaphnia Bioassay				

Conc-%	1	2	3	4
Control	1.0000	1.0000	1.0000	1.0000
6.25	1.0000	1.0000	1.0000	1.0000
12.5	1.0000	1.0000	1.0000	1.0000
25	1.0000	1.0000	1.0000	1.0000
50	0.8000	1.0000	1.0000	1.0000
100	0.4000	0.6000	0.6000	0.4000

			Transform: Arcsin Square Root						1-Tailed	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD
Control	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4			
6.25	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4	0.000	2.410	0.1158
12.5	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4	0.000	2.410	0.1158
25	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4	0.000	2.410	0.1158
50	0.9500	0.9500	1.2857	1.1071	1.3453	9.261	4	1.239	2.410	0.1158
*100	0.5000	0.5000	0.7854	0.6847	0.8861	14.802	4	11.655	2.410	0.1158

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.01)	0.76627	0.884	-1.1065	2.91044
Equality of variance cannot be confirmed				

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test	50	100	70.7107	2	0.06202	0.06529	0.20245	0.00462	1.8E-09	5, 18

CETIS v1.5.2.2
Administrative Record
Page 17839

Reviewed by:

Acute Ceriodaphnia Test-96 Hr Survival

Start Date:	3/25/2009	Test ID:	a1310903Tb	Sample ID:	DEADMAN'S CREEK @ GURR
End Date:	3/29/2009	Lab ID:	CAAS-Aqua-Science 946160	Sample Type:	PBO TX
Sample Date:	3/17/2009	Protocol:	EPA A5-EPA 821-R-02-012	Test Species:	CD-Ceriodaphnia dubia

Comments: ESJ 09-03 TIE: Ceriodaphnia Bioassay

Conc-%	1	2	3	4
PBO Control	0.8000	0.8000	0.8000	0.8000
6.25	0.4000	1.0000	0.6000	0.4000
12.5	0.8000	1.0000	0.6000	0.6000
25	0.2000	0.6000	0.6000	0.2000
50	0.8000	1.0000	0.6000	0.8000
100	0.4000	0.2000	0.6000	0.2000

			Transform: Arcsin Square Root					Rank	1-Tailed	Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	Sum	Critical	Mean	N-Mean
PBO Control	0.8000	1.0000	1.1071	1.1071	1.1071	0.000	4			0.8000	1.0000
6.25	0.6000	0.7500	0.9002	0.6847	1.3453	34.607	4	14.00	10.00	0.6750	0.8438
12.5	0.7500	0.9375	1.0561	0.8861	1.3453	20.748	4	16.00	10.00	0.6750	0.8438
*25	0.4000	0.5000	0.6749	0.4636	0.8861	36.139	4	10.00	10.00	0.6000	0.7500
50	0.8000	1.0000	1.1114	0.8861	1.3453	16.874	4	18.00	10.00	0.6000	0.7500
*100	0.3500	0.4375	0.6245	0.4636	0.8861	32.527	4	10.00	10.00	0.3500	0.4375

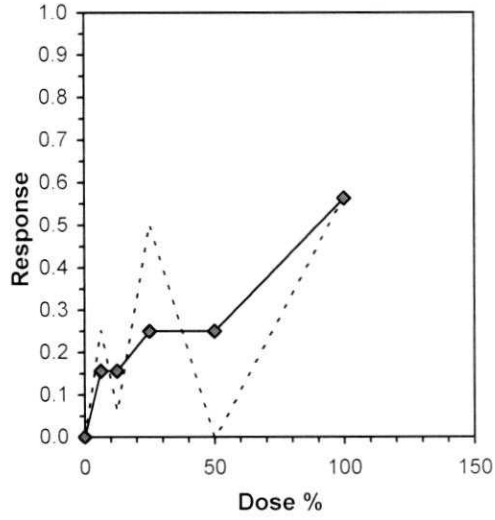
Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.90176	0.884	0.63379	-0.4174
Equality of variance cannot be confirmed				

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Steel's Many-One Rank Test	12.5	25	17.6777	8

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)		Skew
IC05*	2.000	5.223	0.484	23.345	4.9060
IC10*	4.000	8.333	0.968	26.854	3.4473
IC15*	6.000	12.289	1.453	83.297	2.3242
IC20	18.333	17.986	0.000	85.000	1.1850
IC25	50.000	21.295	0.000	76.667	0.3790
IC40	74.000				
IC50	90.000				

* indicates IC estimate less than the lowest concentration



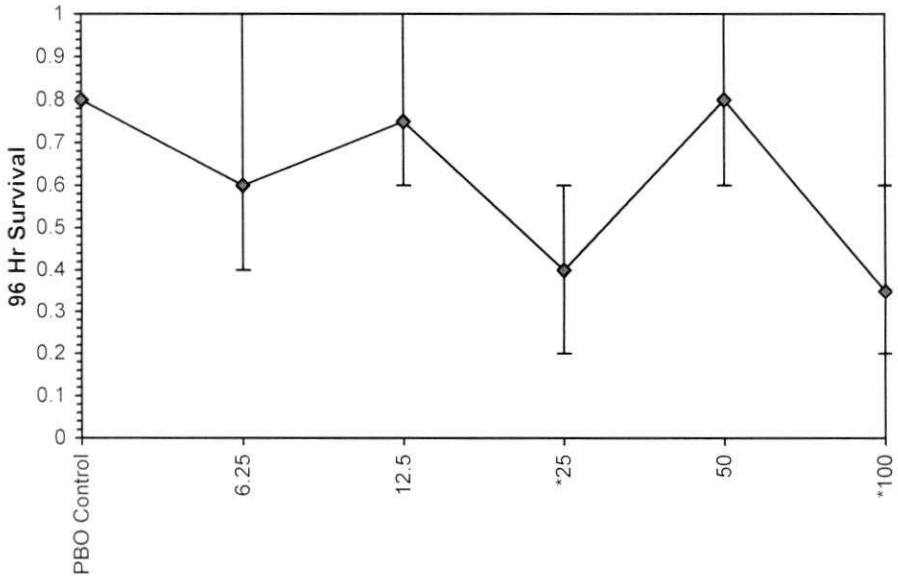
Toxicity Review
Administrative Record
Page 17840

Reviewed by:

Acute Ceriodaphnia Test-96 Hr Survival

Start Date:	3/25/2009	Test ID:	a1310903Tb	Sample ID:	DEADMAN'S CREEK @ GURR
End Date:	3/29/2009	Lab ID:	CAAS-Aqua-Science 946160	Sample Type:	PBO TX
Sample Date:	3/17/2009	Protocol:	EPA A5-EPA 821-R-02-012	Test Species:	CD-Ceriodaphnia dubia
Comments:	ESJ 09-03 TIE: Ceriodaphnia Bioassay				

Dose-Response Plot



Administrative Record
Page 17841

Reviewed by:

Acute Ceriodaphnia Test-96 Hr Survival

Start Date:	3/25/2009	Test ID:	a1310903Tb	Sample ID:	DEADMAN'S CREEK @ GURR
End Date:	3/29/2009	Lab ID:	CAAS-Aqua-Science 946160	Sample Type:	PBO TX
Sample Date:	3/17/2009	Protocol:	EPA A5-EPA 821-R-02-012	Test Species:	CD-Ceriodaphnia dubia
Comments:	ESJ 09-03 TIE: Ceriodaphnia Bioassay				

Conc-%	1	2	3	4
PBO Control	0.8000	0.8000	0.8000	0.8000
6.25	0.4000	1.0000	0.6000	0.4000
12.5	0.8000	1.0000	0.6000	0.6000
25	0.2000	0.6000	0.6000	0.2000
50	0.8000	1.0000	0.6000	0.8000
100	0.4000	0.2000	0.6000	0.2000

			Transform: Arcsin Square Root					1-Tailed		
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD
PBO Control	0.8000	1.0000	1.1071	1.1071	1.1071	0.000	4			
6.25	0.6000	0.7500	0.9002	0.6847	1.3453	34.607	4	1.352	2.410	0.3688
12.5	0.7500	0.9375	1.0561	0.8861	1.3453	20.748	4	0.333	2.410	0.3688
*25	0.4000	0.5000	0.6749	0.4636	0.8861	36.139	4	2.825	2.410	0.3688
50	0.8000	1.0000	1.1114	0.8861	1.3453	16.874	4	-0.028	2.410	0.3688
*100	0.3500	0.4375	0.6245	0.4636	0.8861	32.527	4	3.154	2.410	0.3688

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.90176	0.884	0.63379	-0.4174
Equality of variance cannot be confirmed				

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test	12.5	25	17.6777	8	0.34696	0.4337	0.19011	0.04683	0.01212	5, 18

Administrative Record
Page 17842

Reviewed by:

Acute Ceriodaphnia Test-96 Hr Survival

Start Date:	3/25/2009	Test ID:	a1310903Tc	Sample ID:	DEADMAN'S CREEK @ GURR
End Date:	3/29/2009	Lab ID:	CAAS-Aqua-Science 946160	Sample Type:	EDTA TX
Sample Date:	3/17/2009	Protocol:	EPA A5-EPA 821-R-02-012	Test Species:	CD-Ceriodaphnia dubia
Comments:	ESJ 09-03 TIE: Ceriodaphnia Bioassay				

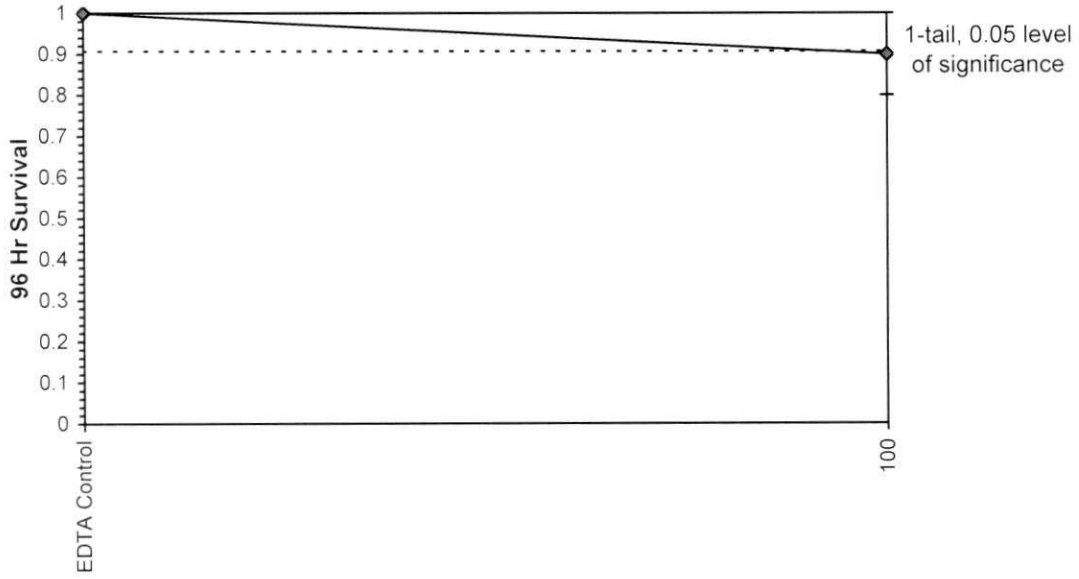
Conc-%	1	2	3	4
EDTA Control	1.0000	1.0000	1.0000	1.0000
100	1.0000	0.8000	1.0000	0.8000

			Transform: Arcsin Square Root					1-Tailed		
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD
EDTA Control	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4			
100	0.9000	0.9000	1.2262	1.1071	1.3453	11.212	4	1.732	2.353	0.1618

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.84935	0.749	2.7E-15	-0.7
Equality of variance cannot be confirmed				

Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Heteroscedastic t Test indicates no significant differences	0.09264	0.09752	0.02835	0.00945	0.13397	1, 6

Dose-Response Plot



Administrative Record
Page 17843

Reviewed by:

AQUA-Science

Environmental Toxicology Consultants

MORTALITY AND BEHAVIOR OBSERVATIONS

Test Number:	ESJ 09-03 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	Deadman's Creek @ Gurr (535XDCAGR) 3/17/09 **Baseline**		
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO: 032509
Initiation Date:	March 25, 2009	Termination Date:	March 29, 2009

Ambient (%)	Vessel No.	Cumulative Mortality Day 1	Day 2	Day 3	Day 4	Comments
Lab Ctrl.	A	Ø	Ø	Ø ①	Ø ②	n=5 animals/rep
	B	Ø	Ø	Ø ①	Ø ②	
	C	Ø	Ø	Ø ①	Ø ②	Test Initiation Info:
	D	Ø	Ø	Ø	Ø ②	Time: 1450
6.25	A	Ø	Ø	Ø ①	Ø ②	Tech: CW
	B	Ø	Ø	Ø ①	Ø ②	
	C	Ø	Ø	Ø	Ø ②	Test Termination Info:
	D	Ø	Ø	Ø	Ø ②	Time: 1310
12.5	A	Ø	Ø	Ø	Ø ②	Tech: MC
	B	Ø	Ø	Ø	Ø ②	① neonates present CW 03/28/09
	C	Ø	Ø	Ø	Ø ②	② neonates present MC 03/29/09
	D	Ø	Ø	Ø	Ø ②	
25	A	Ø	Ø	Ø ①	Ø ②	
	B	Ø	Ø	Ø ①	Ø ②	
	C	Ø	Ø	Ø	Ø ②	
	D	Ø	Ø	Ø ①	Ø ②	
50	A	Ø	Ø	1	1 ②	
	B	Ø	Ø	Ø ①	Ø ②	
	C	Ø	Ø	Ø	Ø ②	
	D	Ø	Ø	Ø ①	Ø ②	
100	A	Ø	Ø	3 ①	3 ②	
	B	Ø	Ø	2 ①	2 ②	
	C	1	1	2 ①	2 ②	
	D	Ø	1	2 ①	3 ②	
Technician Initials		CW	CW	CW	MC	
Observation Time		1330	1225	1325	1310	
Observation Date		03/26/09	03/27/09	03/28/09	03/29/09	

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Environmental Toxicology Consultants

MORTALITY AND BEHAVIOR OBSERVATIONS

Test Number:	ESJ 09-03 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	Deadman's Creek @ Gurr (535XDCAGR) 3/17/09 **+ 100 ppb PBO**		
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO: 032509
Initiation Date:	March 25, 2009	Termination Date:	March 29, 2009

Ambient (%)	Vessel No.	Cumulative Mortality Day 1	Day 2	Day 3	Day 4	Comments
PBO Ctrl.	A	Ø	Ø	Ø	1	n=5 animals/rep
	B	Ø	Ø	Ø	1	
	C	Ø	Ø	Ø	1	Test Initiation Info:
	D	Ø	Ø	Ø	1	Time: 1505
6.25	A	Ø	Ø	Ø	3	Tech: QW
	B	Ø	Ø	Ø	Ø	
	C	Ø	Ø	Ø	2	Test Termination Info:
	D	Ø	Ø	Ø	3	Time: 1317
12.5	A	Ø	Ø	Ø	1	Tech: MC
	B	Ø	Ø	Ø	Ø	
	C	Ø	Ø	Ø	2	Dummy error MC 03/29/09
	D	Ø	Ø	Ø	2	
25	A	Ø	Ø	Ø	4	
	B	Ø	Ø	Ø	2	
	C	Ø	Ø	Ø	2	
	D	Ø	Ø	Ø	4	
50	A	Ø	Ø	Ø	1	
	B	Ø	Ø	Ø	Ø	
	C	Ø	Ø	Ø	2	
	D	Ø	Ø	Ø	1	
100	A	Ø	Ø	Ø	3	
	B	Ø	Ø	1	4	
	C	Ø	Ø	Ø	2	
	D	Ø	Ø	Ø	4	
Technician Initials		QW	QW	QW	~~QW~~ MC	
Observation Time		1340	1235	1345	1317	
Observation Date		03/26/09	03/27/09	03/28/09	03/29/09	

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Environmental Toxicology Specialists

MORTALITY AND BEHAVIOR OBSERVATIONS

Test Number:	ESJ 09-03 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians:	Miller/Walker/Yip/Concepcion/Sanford/Soyster
Test Material:	Dead @ Gurr (535XDCAGR) 03/17/09 **SPE TC, MeOH Ctrl., 2X Addback, + EDTA**		
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO: 032509
Initiation Date:	March 25, 2009	Termination Date:	March 29, 2009

Tx. Ambient (%)	Vessel No.	Cumulative Mortality Day 1	Day 2	Day 3	Day 4	Comments
Column Blank	A	Ø	Ø	Ø	Ø ③	n=5 animals/rep
	B	Ø	Ø	Ø ②	Ø ③	
	C	Ø	Ø	Ø	Ø ③	Test Initiation Info:
	D	Ø	Ø	Ø	Ø ③	Time: 1515
100 C8TC	A	Ø	Ø	Ø ②	Ø ③	Tech: QW
	B	Ø	Ø	Ø	Ø ③	
	C	Ø	Ø	Ø	Ø ③	Test Termination Info:
	D	Ø	Ø	Ø ②	Ø ③	Time: ~~1330~~ 1326
MeOH Ctrl	A	Ø	Ø	Ø	Ø ③	Tech: MC
	B	Ø	Ø	Ø	Ø ③	①entry error QW 03/28/09
						②neonates present QW 03/28/09
2X Addback	A	Ø	Ø	Ø	Ø ③	
	B	Ø	Ø	Ø	Ø ③	
EDTA Ctrl	A	Ø	Ø	Ø	Ø ③	
	B	Ø	Ø	Ø	Ø ③	
	C	Ø	Ø	Ø	Ø ③	
	D	Ø	Ø	Ø	Ø ③	
100 + EDTA	A	Ø	Ø	Ø	Ø ③	
	B	Ø	Ø	1 ②	1 ③	
	C	Ø	Ø	Ø ④	Ø ③	
	D	Ø	Ø	Ø ②	1 ③	
Technician Initials		QW	QW	QW	MC	
Observation Time		1335	1230	1330	1326	
Observation Date		03/26/09	03/27/09	03/28/09	03/29/09	

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DOSE PREPARATION SHEET

3/25/09

ESJ 09-03 TIE

96 hr. Static Acute bioassay w/ 24 hr. Changeout

Ceriodaphnia dubia

Baseline

Test Concentrations: Control, 6.25, 12.5, 25, 50, 100 %

ESJ Sample: Deadman's Creek @ Gurr (535XDCAGR)

Sample Date: 3/17/2009

Control water = Reverse Osmosis water amended with EPA salts to achieve EPAMH specifications (R/O EPAMH)

All surface waters filtered through 60 µm screen

Sample	Amount Sample (mL)	Dilution Water (mL)	Total (mL)*
Control	0	100	100
6.25	6.25	QS to 100	100
12.5	12.5	QS to 100	100
25	25	QS to 100	100
50	50	QS to 100	100
100	100	0	100

* 20 mL used to measure pH, 80 mL inoculated for test

	Day 0	Day 1	Day 2	Day 3
Tech	GS	GS	GS	
Time	1115	0907	0915	0910
Date	3/25/09	3/26/09	3/27/09	03/28/09

n = 5 animals/replicate - 4 replicates/concentration

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Environmental Toxicology Specialists

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-03 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	Deadman's Creek @ Gurr (535XDCAGR) 03/17/09	**Baseline**	
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO: 032509
Initiation Date:	March 25, 2009	Termination Date:	March 29, 2009

	OBSERVATIONS Day (0) Date: 03/25/09					24 Hour Obsv.			
Ambient (%)	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
Lab Control	24	8.2	7.83	68/92	373	25	6.6	7.90	393
6.25	24	8.2	7.86	②90/110	380	25	6.7	7.81	399
12.5	24	8.2	7.77	—	386	25	6.8	7.76	405
25	24	8.2	7.72	②140/160	399	25	6.9	7.68	418
50	24	8.3	7.61	—	428	25	6.7	7.58	447
100	24	10.2①/8.2	7.50	216/220	480	25	6.8	7.45	502
						GS 3/26/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L): Meter ID 04

^^= pH: Meter ID 02

^=Conductivity/Salinity (µmohs): Meter ID 03

**Alkalinity (mg/L CaCO3); HACH Test Kit

~=Water Hardness (mg/L CaCO3); HACH Test Kit

ADDITIONAL COMMENTS: ① desaturated before use GS 3/25/09
② Measurements taken in 10mL sample vol. GS 3/25/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.
Dilution water ID = RIO EPA M #152

All surface waters filtered through a 60 µm screen daily

Technician: [signature] Date: 3/25/09

AQUA-Science

Environmental Toxicology Specialists

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-03 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	Deadman's Creek @ Gurr (535XDCAGR) 03/17/09	**Baseline**	
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO: 032509
Initiation Date:	March 25, 2009	Termination Date:	March 29, 2009

	OBSERVATIONS Day (1) Date: 03/26/09					24 Hour Obsv.			
Ambient (%)	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
Lab Control	24	8.0	7.81	70/86	316	25	7.3	8.30	341
6.25	24	7.9	7.75	–	324	25	7.3	8.27	351
12.5	24	7.9	7.69	–	334	25	7.3	8.23	358
25	24	7.9	7.60	–	355	25	7.4	8.14	379
50	24	7.9	7.46	–	398	25	7.4	8.05	422
100	24	11.24/7.9	7.28	–	477	25	7.2	7.89	498
						GS 3/27/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L): Meter ID 04

^^= pH: Meter ID 02

^=Conductivity/Salinity (µmohs): Meter ID 03

**Alkalinity (mg/L CaCO3); HACH Test Kit

~=Water Hardness (mg/L CaCO3); HACH Test Kit

ADDITIONAL COMMENTS: D desalinated before use GS 3/26/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.
Dilution water ID = RO EPAMH #161

All surface waters filtered through a 60 µm screen daily

Technician: [signature] Date: 3/26/09

AQUA-Science

Environmental Toxicology Specialists

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-03 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	Deadman's Creek @ Gurr (535XDCAGR) 03/17/09		**Baseline**
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO: 032509
Initiation Date:	March 25, 2009	Termination Date:	March 29, 2009

	OBSERVATIONS Day (2) Date: 03/27/09					24 Hour Obsv.			
Ambient (%)	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
Lab Control	24	8.1	8.04	67/87	308	25	6.8	7.88	315
6.25	24	8.1	7.72	100/100	320	25	6.7	7.80	331
12.5	24	8.1	7.53	—	329	25	6.7	7.71	340
25	24	8.2	7.41	140/150	350	25	6.8	7.64	358
50	24	8.1	7.30	—	393	25	6.8	7.55	402
100	24	10.6/8.2	7.11	214/196	477	25	6.7	7.40	489
						QC 03/28/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L): Meter ID 04

^^= pH: Meter ID 02

^=Conductivity/Salinity (µmohs): Meter ID 03

**Alkalinity (mg/L CaCO3); HACH Test Kit

~=Water Hardness (mg/L CaCO3); HACH Test Kit

ADDITIONAL COMMENTS: ① desaturated before use GS 3/27/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.
Dilution water ID = R10 EPAM1 # 160

All surface waters filtered through a 60 µm screen daily

Technician: _____ Date: 3/27/09

AQUA-Science

Environmental Toxicology Specialists

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-03 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	Deadman's Creek @ Gurr (535XDCAGR) 03/17/09	**Baseline**	
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO: 032509
Initiation Date:	March 25, 2009	Termination Date:	March 29, 2009

	OBSERVATIONS Day (3) Date: 03/28/09					24 Hour Obsv.			
Ambient (%)	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
Lab Control	24	7.9	7.87	87/87	311	24	8.0	8.45	329
6.25	24	7.9	7.85	—	321	24	8.1	8.42	334
12.5	24	7.9	7.81	—	331	24	8.1	8.37	343
25	24	7.9	7.74	—	356	24	8.2	8.30	366
50	24	7.9	7.64	—	399	24	8.2	8.19	410
100	24	9.5/7.8@	7.60	—	484	24	8.1	8.05	495
						BJS 3/29/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L): Meter ID 04

^^= pH: Meter ID 02

^=Conductivity/Salinity (µmohs): Meter ID 03

**Alkalinity (mg/L CaCO3); HACH Test Kit

~=Water Hardness (mg/L CaCO3); HACH Test Kit

ADDITIONAL COMMENTS: @desaturated before use AW 03/28/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.
Dilution water ID = R/O EPAMH # 160

All surface waters filtered through a 60 µm screen daily

Technician: Alex Walker Date: 03/28/09

AQUA-Science

Environmental Toxicology Specialists

DOSE PREPARATION SHEET

3/25/09

ESJ 09-03 TIE

96 hr. Static Acute bioassay w/ 24 hr. Changeout

Ceriodaphnia dubia

ESJ Sample: Deadman's Creek @ Gurr (535XDCAGR)

Sample Date: 3/17/2009

Control water = Reverse Osmosis water amended with EPA salts to achieve EPAMH specifications (R/O EPAMH)

All surface waters filtered through 60 µm screen

SPE Through Column

Test Concetrations: Column Blank, 100% SPE TC, MeOH Control, 2X Addback

SPE TC Eluate: 357x

Sample	Amount Sample (mL)	Dilution Water (mL)	Total (mL)*	Amt. MeOH/ Eluate (mL)
Column Blank	0	100	100	0
100	100	0	100	0
MeOH Ctrl.	0	40	40	0.224
2X Addback	0	40	40	0.224

+ 8 mg/L EDTA

Test Concentrations: Control, 100 + 8 mg/L EDTA

EDTA Standard: 10 mg/mL EDTA

Sample	Amount Sample (mL)	Dilution Water (mL)	Total (mL)*	Amt EDTA (mL)
EDTA Ctrl.	0	100	100	0.08
100	100	0	100	0.08

+ Enzyme

Test Concentrations: 10 mg/L Control, 100% + 10 mg/L, 50 mg/L Control, 100% + 50 mg/L

Enzyme Preparation: 100 mg of enzyme in 10 mL R/O EPAMH = 10 mg/mL

Sample	Amount Sample (mL)	Dilution Water (mL)	Total (mL)*	Amt Enzyme (mL)
10 mg/L Ctrl	0	100	100	0.1
100% + 10 mg/L	100	0	100	0.1
50 mg/L Ctrl	0	100	100	0.5
100% + 50 mg/L	100	0	100	0.5

* 20 mL used to measure pH, 80 mL inoculated for test; n = 5 animals/replicate - 4 replicates/concentration

	Day 0	Day 1	Day 2	Day 3
Tech	GS	GS	GS	
Time	1034	0855	0900	0850
Date	3/25/09	3/26/09	3/27/09	03/28/09

AQUA-Science

Environmental Toxicology Consultants

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-03 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	Dead @ Gurr (535XDCAGR) 03/17/09	**SPE TC, EDTA addition, Enzyme addition**	
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO: 032509
Initiation Date:	March 25, 2009	Termination Date:	March 29, 2009

	OBSERVATIONS Day (0) Date: 03/25/09					24 Hour Obsv.			
Ambient (%)	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
Column Blk.	24	10.2/9.5	7.96	—	362	25	6.2	7.97	381
100 SPE TC	24	9.5/8.5	7.61	—	468	25	6.5	7.62	482
EDTA Ctrl.	24	8.2	7.88	—	374	25	6.1	7.92	393
100 + EDTA	24	9.4/8.5	7.51	—	483	25	6.7	7.64	496
10 mg/L enzyme Ctrl.	24	8.2	7.94	—	372	25	6.6	7.98	396
100% + 10 mg/L enzyme	24	8.3	7.59	—	481	25	6.7	7.69	499
50 mg/L enzyme Ctrl.	24	8.2	7.91	—	372	25	6.6	7.94	395
100% + 50 mg/L enzyme	24	8.3	7.62	—	477	25	6.8	7.68	493
						GS 3/26/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L): Meter ID 04

^^= pH: Meter ID 02

^=Conductivity/Salinity (µmohs): Meter ID 03

**Alkalinity (mg/L CaCO3); HACH Test Kit

~=Water Hardness (mg/L CaCO3); HACH Test Kit

ADDITIONAL COMMENTS: @ desaturated GS 3/25/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.

Dilution water ID = RO EPAMM #152

All surface waters filtered through a 60 µm screen daily

Technician: _____ Date: 3/25/09

AQUA-Science
Environmental Toxicology Consultants

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-03 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	Dead @ Gurr (535XDCAGR) 03/17/09	**SPE TC, EDTA addition, Enzyme addition**	
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO: 032509
Initiation Date:	March 25, 2009	Termination Date:	March 29, 2009

	OBSERVATIONS Day (1) Date: 03/26/09					24 Hour Obsv.			
Ambient (%)	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
Column Blk.	24	10.4@/8.4	8.32	—	370	25	7.0	8.30	391
100 SPE TC	24	9.4@/8.2	7.85	—	480	25	6.9	7.92	499
EDTA Ctrl.	24	7.9	7.97	—	317	25	7.0	8.31	341
100 + EDTA	24	11.2@/7.8	7.49	—	481	25	7.1	7.93	494
10 mg/L enzyme Ctrl.	24	8.0	8.40	—	313	25	7.2	8.32	342
100% + 10 mg/L enzyme	24	11.2@/8.0	7.86	—	477	25	7.2	7.99	493
50 mg/L enzyme Ctrl.	24	8.0	8.36	—	312	25	7.1	8.33	342
100% + 50 mg/L enzyme	24	11.2@/8.0	7.88	—	472	25	7.2	8.00	488
						GS 3/27/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L): Meter ID 04

^^= pH: Meter ID 02

^=Conductivity/Salinity (µmohs): Meter ID 03

**Alkalinity (mg/L CaCO3); HACH Test Kit

~=Water Hardness (mg/L CaCO3); HACH Test Kit

ADDITIONAL COMMENTS: @ desaturated GS 3/26/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.
Dilution water ID = RO EPAMM #161

All surface waters filtered through a 60 µm screen daily

Technician: [signature] Date: 3/26/09

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Environmental Toxicology Consultants

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-03 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	Dead @ Gurr (535XDCAGR) 03/17/09	**SPE TC, EDTA addition, Enzyme addition**	
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO: 032509
Initiation Date:	March 25, 2009	Termination Date:	March 29, 2009

	OBSERVATIONS Day (2) Date: 03/27/09					24 Hour Obsv.			
Ambient (%)	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
Column Blk.	25	11.2/8.4	8.43	—	373	25	6.0	7.91	380
100 SPE TC	25	9.0/8.2	7.92	—	482	25	6.3	7.71	480
EDTA Ctrl.	24	8.2	8.26	—	318	25	6.3	7.95	391
100 + EDTA	24	10.6/8.0	7.72	—	484	25	6.5	7.58	494
10 mg/L enzyme Ctrl.	24	8.1	8.20	—	308	25	6.5	7.91	394
100% + 10 mg/L enzyme	24	10.6/8.1	7.84	—	476	25	6.6	7.59	500
50 mg/L enzyme Ctrl.	24	8.1	8.12	—	309	25	6.6	7.96	391
100% + 50 mg/L enzyme	24	10.6/8.2	7.80	—	473	25	6.7	7.61	497
						CW 03/28/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L): Meter ID 04

^^= pH: Meter ID 02

^=Conductivity/Salinity (µmohs): Meter ID 03

**Alkalinity (mg/L CaCO3); HACH Test Kit

~=Water Hardness (mg/L CaCO3); HACH Test Kit

ADDITIONAL COMMENTS: ① desaturated BS 3/27/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.

Dilution water ID = RO EPAMH #160

All surface waters filtered through a 60 µm screen daily

Technician: _____ Date: 3/27/09

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Environmental Toxicology Consultants

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-03 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	Dead @ Gurr (535XDCAGR) 03/17/09	**SPE TC, EDTA addition, Enzyme addition**	
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO: 032509
Initiation Date:	March 25, 2009	Termination Date:	March 29, 2009

	OBSERVATIONS Day (3) Date: 03/28/09					24 Hour Obsv.			
Ambient (%)	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
Column Blk.	24	10.9/8.2①	8.75	—	375	24	7.8	8.31	398
100 SPE TC	24	9.1/8.1①	7.90	—	486	24	7.6	8.11	501
EDTA Ctrl.	24	8.0	7.98	—	315	24	8.0	8.43	329
100 + EDTA	24	9.5/8.0①	7.64	—	485	24	8.1	8.14	488
10 mg/L enzyme Ctrl.	24	8.0	7.96	—	316	24	7.9	8.48	330
100% + 10 mg/L enzyme	24	9.5/8.0①	7.62	—	478	24	8.0	8.13	492
50 mg/L enzyme Ctrl.	24	8.0	7.99	—	310	24	7.9	8.46	328
100% + 50 mg/L enzyme	24	9.5/7.9①	7.65	—	475	24	8.0	8.17	489
						BJS	3/29/09		

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L): Meter ID 04

^^= pH: Meter ID 02

^=Conductivity/Salinity (µmohs): Meter ID 03

**Alkalinity (mg/L CaCO3); HACH Test Kit

~=Water Hardness (mg/L CaCO3); HACH Test Kit

ADDITIONAL COMMENTS: ① desaturated DO 03/28/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.
Dilution water ID = R/O RPAMH #160

All surface waters filtered through a 60 µm screen daily

Technician: Walker Date: 03/28/09

AQUA-Science

Environmental Toxicology Specialists

DOSE PREPARATION SHEET

3/25/09

ESJ 09-03 TIE

96 hr. Static Acute bioassay w/ 24 hr. Changeout

Ceriodaphnia dubia

+ PBO @ 100 µg/L

Test Concentrations: Control, 6.25, 12.5, 25, 50 and 100% + PBO

PBO Standard: 0.1 mg/mL Pipernoyl butoxide (PBO)

ESJ Sample: Deadman's Creek @ Gurr Rd (535XDCAGR)

Sample Date: 3/17/2009

Control water = Reverse Osmosis water amended with EPA salts to achieve EPAMH specifications (R/O EPAMH)

All surface waters filtered through 60 µm screen

Sample	Amount Sample (mL)	Dilution Water (mL)	Total (mL)*	Amt PBO (µL)
Control	0	100	100	100
6.25	6.25	QS to 100	100	100
12.5	12.5	QS to 100	100	100
25	25	QS to 100	100	100
50	50	QS to 100	100	100
100	100	0	100	100

* 20 mL used to measure pH, 80 mL inoculated for test

	Day 0	Day 1	Day 2	Day 3
Tech	GS	GS	GS	
Time	1115	0907	0915	~~0919~~ 0915
Date	3/25/09	3/26/09	3/27/09	03/28/09

n = 5 animals/replicate - 4 replicates/concentration

① entry errors 03/28/09

AQUA-Science

Environmental Toxicology Specialists

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-03 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	Deadman's Creek @ Gurr (535XDCAGR) 3/17/09		**+ 100 ppb PBO**
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO: 032509
Initiation Date:	March 25, 2009	Termination Date:	March 29, 2009

	OBSERVATIONS Day (0) Date: 03/25/09					24 Hour Obsv.			
Ambient (%)	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
PBO Control	24	8.2	8.17	—	371	25	6.9	7.90	395
6.25	24	8.2	8.10	—	377	25	6.5	7.90	396
12.5	24	8.2	8.05	-	386	25	6.1	7.86	402
25	24	8.2	8.00	—	399	25	5.4	7.80	415
50	24	8.2	7.87	-	428	25	4.5	7.66	443
100	24	10.2/8.2	7.69	—	481	25	4.4	7.51	496
						GS 3/26/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L): Meter ID 04

^^= pH: Meter ID 02

^=Conductivity/Salinity (µmohs): Meter ID 03

**Alkalinity (mg/L CaCO3); HACH Test Kit

~=Water Hardness (mg/L CaCO3); HACH Test Kit

ADDITIONAL COMMENTS: ① desaturated before use GS 3/25/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.
Dilution water ID = R/O EPAMM #152

All surface waters filtered through a 60 µm screen daily

Technician: [signature] Date: 3/25/09

AQUA-Science

Environmental Toxicology Specialists

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-03 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	Deadman's Creek @ Gurr (535XDCAGR) 3/17/09	**+ 100 ppb PBO**	
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO: 032509
Initiation Date:	March 25, 2009	Termination Date:	March 29, 2009

	OBSERVATIONS Day (1) Date: 03/26/09					24 Hour Obsv.			
Ambient (%)	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
PBO Control	24	8.0	8.49	—	316	25	5.6	8.36	333
6.25	24	7.9	8.39	—	323	25	4.8	8.32	344
12.5	24	7.9	8.32	-	334	25	4.1	8.27	352
25	24	7.9	8.22	—	355	25	3.0	8.18	374
50	24	7.9	8.05	-	400	25	1.6	8.02	417
100	24	11.2/7.9	7.82	—	477	25	3.0	7.83	502
						GS 3/27/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L): Meter ID 04

^^= pH: Meter ID 02

^=Conductivity/Salinity (µmohs): Meter ID 03

**Alkalinity (mg/L CaCO3); HACH Test Kit

~=Water Hardness (mg/L CaCO3); HACH Test Kit

ADDITIONAL COMMENTS: @ desaturated before use GS 3/26/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.
Dilution water ID = RO EPAMH #161

All surface waters filtered through a 60 µm screen daily

Technician: [signature] Date: 3/26/09

AQUA-Science

Environmental Toxicology Specialists

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-03 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	Deadman's Creek @ Gurr (535XDCAGR) 3/17/09	**+ 100 ppb PBO**	
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO: 032509
Initiation Date:	March 25, 2009	Termination Date:	March 29, 2009

	OBSERVATIONS Day (2) Date: 03/27/09					24 Hour Obsv.			
Ambient (%)	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
PBO Control	24	8.1	7.28	~~67/87~~	309	25	5.3	7.15	321
6.25	24	8.1	7.23	—	319	25	4.6	7.10	335
12.5	24	8.1	7.20	-	329	25	3.8	7.09	341
25	24	8.1	7.14	—	350	25	2.9	7.01	363
50	24	8.1	7.01	-	394	25	2.0	6.92	408
100	24	10.6/8.1	6.86	—	477	25	1.4	6.74	492
						QD 03/28/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L): Meter ID 04

^^= pH: Meter ID 02

^=Conductivity/Salinity (µmohs): Meter ID 03

**Alkalinity (mg/L CaCO3); HACH Test Kit

~=Water Hardness (mg/L CaCO3); HACH Test Kit

ADDITIONAL COMMENTS: @ desaturated before use GS 3/27/09
@ entry error GS 3/27/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.
Dilution water ID = RIO EPAMM #160

All surface waters filtered through a 60 µm screen daily

Technician: [signature] Date: 3/27/09

AQUA-Science

Environmental Toxicology Specialists

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-03 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	Deadman's Creek @ Gurr (535XDCAGR) 3/17/09	**+ 100 ppb PBO**	
Test Species:	*Ceriodaphnia dubia*	Animal Lot No.:	A/S RO: 032509
Initiation Date:	March 25, 2009	Termination Date:	March 29, 2009

	OBSERVATIONS Day (3) Date: 03/28/09					24 Hour Obsv.			
Ambient (%)	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
PBO Control	24	8.0	7.98	—	311	24	7.0	8.50	331
6.25	24	7.9	8.01	—	320	24	6.1	8.48	335
12.5	24	7.9	8.00	-	331	24	5.9	8.42	345
25	24	7.8	7.90	—	355	24	5.8	8.36	367
50	24	7.8	7.83	-	397	24	4.9	8.20	406
100	24	9.5/7.9	7.66	—	482	24	3.6	8.02	487
						BJS 3/27/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L): Meter ID 04

^^= pH: Meter ID 02

^=Conductivity/Salinity (µmohs): Meter ID 03

**Alkalinity (mg/L CaCO3); HACH Test Kit

~=Water Hardness (mg/L CaCO3); HACH Test Kit

ADDITIONAL COMMENTS: ①desaturated before use CW 03/28/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.
Dilution water ID = R10 EPAMH #160

All surface waters filtered through a 60 µm screen daily

Technician: CeeWalker Date: 03/28/09

LABORATORY NOTES

03/25/09 PBO Std. Preparation
LSJ 09-03 File

PBO density = 1.059 mg/mL

Want 20 mL of 0.1 mg/mL PBO standard

$(0.1\ mg/mL)(20\ mL) = (1.059\ mg/mL)(x\ mL)$

$= 1.89\ mL$ PBO; QS to 20 mL w/ MeOH

Technician: Ann Walker Date: 03/25/09

AQUA-Science

Environmental Toxicology Specialists

Meter Calibration Log for Ag Waiver

Meters calibrated on 3/25/09
Sample field date: 3/17/2009
Test initiation date: 3/25/2009
Technician's initials: GS

NOTE: Please enter initial calibration values into calibration logbook.

Initial Calibration

	Temp	EC (µS/cm) Meter- 03			DO (mg/L) Meter - 04		pH Meter- 02		
Calibration specifics	NAP	internal[1]	994 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer
Calibration readings	NAP	0.465	995	117.3	N/A	7.8	4.00	10.04	6.97

1. Internal cell constant for the below listed sites 0.465
2. Internal cell constant for the below listed sites N/A /water calibrated at 28 °C and 100% saturation (7.8 mg/L)

Sample ID:	Species		
ESJ 09-03 TIE : Initial Water Quality - Day 0	Cerio	FHM	Algae
Deadman's Creek @ Gurr Rd - 535XDCAGR	GS		
-			
-			
-			

Calibration Verification

	Temp	EC (µS/cm)			DO (mg/L)		pH		
Calibration specifics	NAP	internal[1]	992 µS/cm	101.0 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer check
Calibration readings	NAP	NAP	966	120.5	NAP	7.6	3.99	9.95	6.94

1. Internal cell constant N/A
2. Internal cell constant N/A /water calibrated at 28 °C and 100% saturation (7.6 mg/L)

Adminsitrative Record
Page 17863

AQUA-Science

Environmental Toxicology Specialists

Meter Calibration Log for Ag Waiver

Meters calibrated on 3/26/09
Sample field date: 3/17/2009
Test initiation date: 3/25/2009
Technician's initials: BJS

NOTE: Please enter initial calibration values into calibration logbook.

Initial Calibration

	Temp	EC (µS/cm) Meter- 03			DO (mg/L) Meter 04		pH Meter- 02		
Calibration specifics	NAP	internal[1]	9941 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer
Calibration readings	NAP	0.465	995	117.8	N/A	8.2	4.00	10.03	6.98

1. Internal cell constant for the below listed sites 0.465
2. Internal cell constant for the below listed sites N/A /water calibrated at 25 °C and 100% saturation (8.2 mg/L)

Sample ID:	Species		
ESJ 09-03 TIE : 24-hr Water Quality - Day 0	Cerio	FHM	Algae
Deadman's Creek @ Gurr Rd - 535XDCAGR	GJ		
-			
-			
-			

Calibration Verification

	Temp	EC (µS/cm)			DO (mg/L)		pH		
Calibration specifics	NAP	internal[1]	992 µS/cm	101.0 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer check
Calibration readings	NAP	NAP	965	120.4	NAP	7.8	3.98	9.96	6.95

1. Internal cell constant N/A
2. Internal cell constant N/A /water calibrated at 29 °C and 100% saturation (7.8 mg/L)

Adminsitrative Record
Page 17864

AQUA-Science

Environmental Toxicology Specialists

Meter Calibration Log for Ag Waiver

Meters calibrated on 3/26/09
Sample field date: 3/17/2009
Test initiation date: 3/25/2009
Technician's initials: BLS

NOTE: Please enter initial calibration values into calibration logbook.

Initial Calibration

	Temp	EC (µS/cm) Meter- 03			DO (mg/L) Meter - 04		pH Meter- 02		
Calibration specifics	NAP	internal[1]	994 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer
Calibration readings	NAP	0.465	995	1178	N/A	8.2	4.00	10.03	6.98

1. Internal cell constant for the below listed sites 0.465
2. Internal cell constant for the below listed sites N/A /water calibrated at 25 °C and 100% saturation (8.2 mg/L)

Sample ID:	Species		
ESJ 09-03 TIE : Initial Water Quality - Day 1	Cerio	FHM	Algae
Deadman's Creek @ Gurr Rd - 535XDCAGR	GS		
-			
-			
-			

Calibration Verification

	Temp	EC (µS/cm)			DO (mg/L)		pH		
Calibration specifics	NAP	internal[1]	992 µS/cm	101.0 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer check
Calibration readings	NAP	NAP	965	120.4	NAP	7.8	3.98	9.96	6.95

1. Internal cell constant N/A
2. Internal cell constant N/A /water calibrated at 29 °C and 100% saturation (7.8 mg/L)

Adminsitrative Record
Page 17865

AQUA-Science

Environmental Toxicology Specialists

Meter Calibration Log for Ag Waiver

Meters calibrated on 3/27/09
Sample field date: 3/17/2009
Test initiation date: 3/25/2009
Technician's initials: GS

NOTE: Please enter initial calibration values into calibration logbook.

Initial Calibration

	Temp	EC (µS/cm) Meter- 03			DO (mg/L) Meter 04		pH Meter- 02		
Calibration specifics	NAP	internal[1]	994 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer
Calibration readings	NAP	0.465	994	118.7	N/A	8.1	4.00	10.02	6.98

1. Internal cell constant for the below listed sites 0.465
2. Internal cell constant for the below listed sites N/A /water calibrated at 26 °C and 100% saturation (8.1 mg/L)

Sample ID:	Species		
ESJ 09-03 TIE : 24-hr Water Quality - Day 1	Cerio	FHM	Algae
Deadman's Creek @ Gurr Rd - 535XDCAGR	GS		
-			
-			
-			

Calibration Verification

	Temp	EC (µS/cm)			DO (mg/L)		pH		
Calibration specifics	NAP	internal[1]	992 µS/cm	101.0 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer check
Calibration readings	NAP	NAP	969	121.3	NAP	7.4	4.05	10.04	6.98

1. Internal cell constant N/A
2. Internal cell constant N/A /water calibrated at 29 °C and 100% saturation (7.4 mg/L)

Adminsitrative Record
Page 17866

AQUA-Science

Environmental Toxicology Specialists

Meter Calibration Log for Ag Waiver

Meters calibrated on 3/27/09
Sample field date: 3/17/2009
Test initiation date: 3/25/2009
Technician's initials: GS

NOTE: Please enter initial calibration values into calibration logbook.

Initial Calibration

	Temp	EC (µS/cm) Meter- 03			DO (mg/L) Meter - 04		pH Meter- 02		
Calibration specifics	NAP	internal[1]	994 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer
Calibration readings	NAP	0.465	994	118.7	N/A	8.1	4.00	10.02	6.98

1. Internal cell constant for the below listed sites 0.465
2. Internal cell constant for the below listed sites N/A /water calibrated at 26 °C and 100% saturation (8.1 mg/L)

Sample ID: ESJ 09-03 TIE : Initial Water Quality - Day 2	Species: Cerio	FHM	Algae
Deadman's Creek @ Gurr Rd - 535XDCAGR	GS		
-			
-			
-			

Calibration Verification

	Temp	EC (µS/cm)			DO (mg/L)		pH		
Calibration specifics	NAP	internal[1]	992 µS/cm	101.0 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer check
Calibration readings	NAP	NAP	969	121.3	NAP	7.4	4.05	10.04	6.98

1. Internal cell constant N/A
2. Internal cell constant N/A /water calibrated at 29 °C and 100% saturation (7.4 mg/L)

Adminsitrative Record
Page 17867

AQUA-Science

Environmental Toxicology Specialists

Meter Calibration Log for Ag Waiver

Meters calibrated on 03/28/09
Sample field date: 3/17/2009
Test initiation date: 3/25/2009
Technician's initials: [illegible]

NOTE: Please enter initial calibration values into calibration logbook.

Initial Calibration

	Temp	EC (µS/cm) Meter- 03			DO (mg/L) Meter - 04		pH Meter- 02		
Calibration specifics	NAP	internal[1]	998 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer
Calibration readings	NAP	0.469	998	104.6	N/A	8.0	4.00	10.02	6.97

1. Internal cell constant for the below listed sites 0.469
2. Internal cell constant for the below listed sites N/A /water calibrated at 17 °C and 100% saturation (8.0 mg/L)

Sample ID:	Species		
ESJ 09-03 TIE : 24-hr Water Quality - Day 2	Cerio	FHM	Algae
Deadman's Creek @ Gurr Rd - 535XDCAGR	[illegible]		
-			
-			
-			

Calibration Verification

	Temp	EC (µS/cm)			DO (mg/L)		pH		
Calibration specifics	NAP	internal[1]	997 µS/cm	101.0 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer check
Calibration readings	NAP	NAP	968	122.0	NAP	7.4	3.90	9.91	6.88

1. Internal cell constant N/A
2. Internal cell constant N/A /water calibrated at 18 °C and 100% saturation (7.4 mg/L)

Page _____

Adminsitrative Record
Page 17868

AQUA-Science

Environmental Toxicology Specialists

Meter Calibration Log for Ag Waiver

Meters calibrated on 03/28/09
Sample field date: 3/17/2009
Test initiation date: 3/25/2009
Technician's initials: CW

NOTE: Please enter initial calibration values into calibration logbook.

Initial Calibration

	Temp	EC (µS/cm) Meter- 03			DO (mg/L) Meter - 04		pH Meter- 02		
Calibration specifics	NAP	internal[1]	998 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer
Calibration readings	NAP	0.469	998	104.6	N/A	8.0	4.00	10.02	6.97

1. Internal cell constant for the below listed sites 0.469
2. Internal cell constant for the below listed sites N/A /water calibrated at 27 °C and 100% saturation (8.0 mg/L)

Sample ID:	Species		
ESJ 09-03 TIE : Initial Water Quality - Day 3	Cerio	FHM	Algae
Deadman's Creek @ Gurr Rd - 535XDCAGR	CW		
-			
-			
-			

Calibration Verification

	Temp	EC (µS/cm)			DO (mg/L)		pH		
Calibration specifics	NAP	internal[1]	992 µS/cm	101.0 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer check
Calibration readings	NAP	NAP	968	122.0	NAP	7.4	3.90	9.91	6.88

1. Internal cell constant N/A
2. Internal cell constant N/A /water calibrated at 28 °C and 100% saturation (7.4 mg/L)

Adminsitrative Record
Page 17869

AQUA-Science

Environmental Toxicology Specialists

Meter Calibration Log for Ag Waiver

Meters calibrated on 3/29/09
Sample field date: 3/17/2009
Test initiation date: 3/25/2009
Technician's initials: BLS

NOTE: Please enter initial calibration values into calibration logbook.

Initial Calibration

	Temp	EC (µS/cm) Meter- 03			DO (mg/L) Meter -04		pH Meter- 02		
Calibration specifics	NAP	internal[1]	998 µS/cm	101.2 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer
Calibration readings	NAP	0.468	998	104.4	N/A	8.0	4.06	10.02	6.99

1. Internal cell constant for the below listed sites 0.468
2. Internal cell constant for the below listed sites N/A /water calibrated at 27 °C and 100% saturation (8.0 mg/L)

Sample ID:	Species		
ESJ 09-03 TIE : 24-hr Water Quality - Day 3	Cerio	FHM	Algae
Deadman's Creek @ Gurr Rd - 535XDCAGR	BLS		
-			
-			
-			

Calibration Verification

	Temp	EC (µS/cm)			DO (mg/L)		pH		
Calibration specifics	NAP	internal[1]	992 µS/cm	101.0 µS/cm	internal[2]	water	4 buffer	10 buffer	7 buffer check
Calibration readings	NAP	NAP	967	122.3	NAP	7.8	3.95	9.97	7.03

1. Internal cell constant N/A
2. Internal cell constant N/A /water calibrated at 29 °C and 100% saturation (7.8 mg/L)

APPENDIX V

ACUTE FATHEAD MINNOW TIE

ESJ 09-02 TIE
(2/7/09 Sample Date)

Deadman's Creek @ Gurr Rd

Summary of Acute Phase I Fathead Minnow TIE
Deadman's Creek @ Gurr Rd 2/7/09 Sample
(535XDCAGR)

Treatment	*Conc. (%)*	*96-hr Survival (%)*	*Comment*
Baseline	Lab Control	100	100% mortality was observed in the undiluted sample Ammonia (NH_3) = 43 mg/L
	100	0*	
Zeolite Column	Zeolite Control	100	Zeolite treatment (ammonia removal) eliminated the toxicity NH_3 = 2.0 mg/L (95% removal)
	100	100	
Zeolite Column Ammonia Add-Back	Add-back	100	Toxicity recovered in ammonia add-back treatment NH_3 = 39.1 mg/L (92% of original concentration) Ammonia toxicity confirmed
		0*	

Sample Date: 2/7/09

Test Date: 2/17/09

* significantly different from control ($p<0.05$)

Conclusion:

Toxicity was eliminated by Zeolite treatment, and the toxicity was recovered in the ammonia add-back treatment. These TIE results confirm ammonia-caused toxicity.

Adminsitrative Record
Page 17872

AQUA-Science

Environmental Toxicology Consultants

MORTALITY AND BEHAVIOR OBSERVATIONS

Test Number:	ESJ 09-02 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	East San Joaquin Ambient Sample (02/07/09) Deadman Creek @ Gurr Rd.		
Test Species:	*Pimephales promelas*	Animal Lot No.:	AQTX: 021009
Initiation Date:	February 17, 2009	Termination Date:	February 21, 2009

Ambient (%)	Vessel No.	Cumulative Mortality Day 1	Day 2	Day 3	Day 4	Comments
Control	A	0	0	0	0	n=10 animals/rep
	B	0	0	0	0	
						Test Initiation Info:
						Time: 1614
Dead @ Gurr	A	10	—	—	—	Tech: GS
	B	10	—	—	—	
						Test Termination Info:
						Time: 1410
Gurr Zeolite	A	0	0	0	0	Tech: [illegible]
	B	0	0	0	0	
Gurr Addback	A	10	—	—	—	
	B	10	—	—	—	
Technician Initials		BES	GS	GS	[illegible]	
Observation Time		1420	1429	1437	1410	
Observation Date		2/18/09	2/19/09	2/20/09	2/21/09	

AQUA-Science

Environmental Toxicology Consultants

DOSE PREPARATION SHEET

2/17/09

ESJ 09-02 TIE

96 hr. Static Acute bioassay w/ 48 hr. Changeout

Pimephales promelas

Deadman Creek @ Gurr (535XDCAGR)

Dead @ Gurr ambient sample, 0.45 µm filtered

Dead @ Gurr ambient sample, 0.45 µm filtered, Zeolite treated

Dead @ Gurr ambient sample, 0.45 µm filtered, Zeolite treated, ammonia added back

Control water = Reverse Osmosis water amended with EPA salts to achieve EPAMH specifications (R/O EPAMH)

Sample	Amount Sample (mL)	Dilution Water (mL)	Total (mL)*
Control	0	400	400
Dead @ Gurr	400	0	400
Gurr Zeolite	400	0	400
Gurr Addback	400	0	400

	Day 0	Day 2
Tech	GS	BLS
Time	1423	1050
Date	2/17/09	2/19/09

n = 10 animals/replicate - 2 replicates/concentration

AQUA-Science

Environmental Toxicology Consultants

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-02 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	East San Joaquin Ambient Sample (020709) Deadman Creek @ Gurr Rd.		
Test Species:	*Pimephales promelas*	Animal Lot No.:	AQTX: 021009
Initiation Date:	February 17, 2009	Termination Date:	February 21, 2009

	OBSERVATIONS Day (0) Date: 02/17/09					48 Hour Obsv.			
Ambient (%)	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
Lab Control	24	7.1	7.85	67/98	392	25	6.6	8.19	462
Dead @ Gurr	24	4.3⑤/7.2	7.50	②850/480	1750	24③	3.0④	7.52⑤	1695⑤
Gurr Zeolite	24	7.1	7.22	—	1178	25	5.5	7.59	1257
Gurr Addback	24	7.5	7.79	—	1545	25③	3.6③	7.84③	1490⑤
						BES 2/19/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L); Meter ID: 04

**Alkalinity (mg/L $CaCO_3$); HACH Test Kit

^^=pH Meter ID: 02

~=Water Hardness (mg/L $CaCO_3$); HACH Test Kit

^=Conductivity/Salinity (µmohs); Meter ID: 03

ADDITIONAL COMMENTS: ⑤ Desaturated GS 2/17/09

② Measurements taken in 10 mL sample vol. GS 2/17/09

③ Total Mortality, water quality taken after 24hrs. BES 2/18/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.

Dilution water ID = RIO EDAMA #080

Technician: Elyse Soyster Date: 2/17/09

AQUA-Science

Environmental Toxicology Consultants

WATER QUALITY REPORT FOR AQUATIC BIOASSAYS

Test Number:	ESJ 09-02 TIE	Study Director:	J.L. Miller
Protocol No.:	EPA 821/R-02/012	Technicians:	Walker/Concepcion/Sanford/Soyster/Martin
Test Material:	East San Joaquin Ambient Sample (020709) Deadman Creek @ Gurr Rd.		
Test Species:	*Pimephales promelas*	Animal Lot No.:	AQTX: 021009
Initiation Date:	February 17, 2009	Termination Date:	February 21, 2009

	OBSERVATIONS Day (2) Date: 02/19/09					48 ~~24~~ Hour Obsv.			
Ambient (%)	Temperature (°C)	Dissolved Oxygen*	pH^^	Alkalinity **/ Hardness~	Conductivity ^	Temp	D.O.*	pH^^	Cond. ^
Lab Control	24	7.41	7.97	68/96	407	25	6.9	8.23	452
Dead @ Gurr	—	—	—	—	—	—	—	—	—
Gurr Zeolite	26	ⓓ 9.6/75	7.34	—	1178	25	6.0	7.84	1236
Gurr Addback	—	—	—	—	—	—	—	—	—
						CW 02/21/09			

UNIT INSTRUMENTATION LEGEND

*=Dissolved oxygen (mg/L); Meter ID: 04

**Alkalinity (mg/L $CaCO_3$); HACH Test Kit

^^=pH Meter ID: 02

~=Water Hardness (mg/L $CaCO_3$); HACH Test Kit

^=Conductivity/Salinity (µmohs); Meter ID: 03

ADDITIONAL COMMENTS: ⓓ Desaturated before use 1325 2/19/09

Lab Control = 2x carbon filtered reverse osmosis water at EPA moderately hard level using EPA salts.
Dilution water ID = R/O EPA Unit # 075

Technician: [signature] Date: 2/19/09

APPENDIX VI

AMMONIA ANALYSES

Adminsitrative Record
Page 17877

AQUA-Science
Environmental Toxicology Specialists

AMMONIA ANALYSES

1.0 **Client/Event No:** **ESJ 09-02 TIE** Deadman's Ck @ Gurr Rd. (2/8/09)

2.0 **Method:** HACH DR-2800

3.0 **NH_4 Standard Lot No.** A-8142 (50mg/mL)

4.0 **Ammonia Standard Curve**

Calibrators (mg/L)	Standard (mL)	NH_3-N_a (mg/L)			Conversion to NH_3 ~~(mean x 1.214)~~ a/
		1	2	Mean	
0.1	0.05	0.09	0.1	0.10	0.10
0.5	0.25	0.48	0.51	0.50	0.50
1.0	0.5	1.11	1.14	1.13	1.13
2.0	1.0	2.13	2.06	2.10	2.10
3.0	1.5	–	–	–	– b/

5.0 **Test Samples**

Sample Name	NH_3-N_a (mg/L)			Conversion to NH_3 ~~(mean x 1.214)~~ a/
	1	2	Mean	
Deadman's Creek @ Gurr Rd - 535XDCAGR				
Sample unstripped & filtered (1:25 dil)				
1. 1.66 x 25 = 41.5	41.5	41.6	41.6	42.6 mg/L
2. 1.74 x 25 = 43.5	43.5	43.7	43.6	
Sample filtered & stripped (1:2 dil)				
1. 0.96 x 2 = 1.92	1.92	1.92	1.92	2.02 mg/L
2. 1.09 x 2 = 2.10	2.10	2.13	2.12	95% removal
#1 Sample filtered, stripped + NH_4 (1:2 dil)				
NH_4 calculation:				
42.5 mg/L - 2.02 mg/L x 0.86 mL / 33 mg/L (std) = 1.05 mL std				
check (1:25 dil)				
1.20 + 1.30 / 2 x 25 = 31.3 mg/L				31.3 mg/L
#2 Add 0.3 mL std				
check (1:25 dil)				
1.54 + 1.59 / 2 x 25 = 39.1 mg/L				39.1 mg/L

6.0 **Comments** a/ Hach 2500 auto-converts to NH_3-N b/ not done; > than 2500 std. curve

Removal = 95% Add-back = 39.1/42.6 = 92% of initial NH_4 in Sample

Technician Jeff Hall Date

Adminsitrative Record
Page 17878

Appendix VII

Meeting Agendas and Handouts

Table of Contents

October 7, 21, 28, and November 4, 2008: Merced Community College Pest Management Update Course—3rd, 5th, 6th, and 7th Meetings 3
Meeting Announcement 3
November 12, 2008: Dry Creek @ Wellsford Rd Grower Meeting 5
Meeting Announcement Attachment: Dry Creek @ Wellsford Exceedance Summary 5
Meeting Survey Handout 7
November 20, 2008: Modesto Pesticide Applicator Professional Association Seminar 8
Meeting Agenda 8
December 16, 2008: 2008 Annual Growers Meeting—Stanislaus 10
Meeting Announcement 10
Meeting Agenda 12
December 17, 2008: 2008 Annual Growers Meeting—Merced 13
Meeting Announcement 13
Meeting Agenda 15
December 18, 2008: 2008 Annual Growers Meeting—Madera 16
Meeting Announcement 16
Meeting Agenda 18
February 5, 2009: CAPCA Continuing Education Pest Management Meeting (Stanislaus County) 19
February 9, 2009: Helena Chemical Company Grower Meeting (Modesto) 20
March 2, 2009: Modesto Irrigation District Grower Meeting (Waterford) 21
March 4, 2009: Modesto Irrigation District Grower Meeting (Modesto) 22
March 10, 2009: Merced Grower Meeting 23
March 23, 2009: Helena Chemical Company Grower Meeting (Merced) 24
March 26, 2009: Duck Slough Subwatershed Management Plan Overview Grower Meeting 25
Meeting Announcement 25
Meeting Announcement Attachment: Meeting Survey 26
Meeting Announcement Attachment: Exceedance Chart (Duck Slough @ Gurr Rd) 28
Meeting Announcement Attachment: Exceedance Chart (Duck Slough @ Hwy 99) 29
Meeting Agenda 30
Meeting Survey 31
August 4, 2009: Drip and Micro Sprinkler Irrigation Meeting 33
Meeting Announcement 33
August 12, 2009: Preventing Sediment Discharges from Lower Sierra Foothill Farms/Ranches Meeting 34
Meeting Announcement 34
October 21 and 22, 2009: Cottonwood Creek Subwatershed Grower Meeting Conference Call 35
Meeting Announcement 35
Meeting Power Point Slides 36
December 15, 2009: 2009 Annual Grower Meeting—Merced 40
Meeting Announcement 40

Adminsitrative Record
Page 17880

Meeting Agenda 41
Newsletter 42
Annual Report Letter 44
December 17, 2009: 2009 Annual Grower Meeting—Madera 45
Meeting Announcement 45
Meeting Agenda 46
Newsletter 47
Annual Report Letter 49
Meeting Interactive Audience Survey Results 50
December 21, 2009: 2009 Annual Grower Meeting—Stanislaus 54
Meeting Announcement 54
Meeting Agenda 55
Newsletter 56
Annual Report Letter 58
Meeting Interactive Audience Survey Results 59

October 7, 21, 28, and November 4, 2008: Merced Community College Pest Management Update Course—3rd, 5th, 6th, and 7th Meetings

Meeting Announcement

Merced Community College

Presents

Pest Management Update Course

21 Hours

Next Classes Fall 2008
Sept 23, 30 Oct 7, 14, 21, 28 & Nov 4

From 8am to 11am Each Day
Merced County Agricultural Center
2145 West Wardrobe Ave. Merced

Class Fee $100.00 Total

- Includes all needed materials
- Guest Speakers
- Convenient Location & Times
- Earn Continuing Education Units
- Coffee & Donuts Each Morning

21-Hour Class

- LAWS: HEADQUARTER INSPEC
- LAWS: SPRAYER CALIBRATION & BMPS FOR MIXING/SPRAYING
- LAWS: INTERNET REPORTING & DORMANT SEASON REGULATIONS
- LAWS: MITIGATION IN ORCHARD SYSTEMS/PESTICIDE IN SURFACE WATER
- LAWS: MITGATION IN ROW CROP CROP SYSTEMS FOR PESTICIDES IN SURFACE WATER

A Record of Class Hours Participants Attend Will be Forwarded to The Continuing Education Center for Pest Management For Use By CAPCA & PAPA Members

For Additional Information Call Cindy Lashbook (209) 761-0081 or Robert Vincelette (209) 386-6734. Registration and payment will be due at 7am on the first class meeting you attend. Please make check payable to: Merced College. Class Agendas are Outlined on The Reverse Side of This Flyer

Visit Our Web Site At www.mccd.edu/WpLRC For Additional

November 12, 2008: Dry Creek @ Wellsford Rd Grower Meeting

Meeting Announcement Attachment: Dry Creek @ Wellsford Exceedance Summary

Sampling Site	Date Sampled	Oxygen, Dissolved	pH	Chlorpyrifos (Lorsban)	Diuron	Thiobencarb	*E. coli*	Water flea toxicity	Algae toxicity	Sediment toxicity	Copper[1]	Lead[1]
		7 mg/L	6.5 - 8.5 pH units	0.015 µg/L	2 µg/L	0 µg/L (Prohibited discharge)	235 MPN/100mL	Based on survival	Based on growth	Based on survival	µg/L (Based on hardness)	µg/L (Based on hardness)
Dry Creek at Wellsford Rd	15-Feb-05							toxic				
Dry Creek at Wellsford Rd	22-Mar-05		8.96				900					
Dry Creek at Wellsford Rd	11-May-05		6.26							toxic		
Dry Creek at Wellsford Rd	15-Jun-05	5.9					240					
Dry Creek at Wellsford Rd	13-Jul-05	5.7										
Dry Creek at Wellsford Rd	17-Aug-05		9.18	0.024			900					
Dry Creek at Wellsford Rd	21-Sep-05	6.98					500					
Dry Creek at Wellsford Rd	1-Mar-06						300					
Dry Creek at Wellsford Rd	16-Mar-06						1600					
Dry Creek at Wellsford Rd	18-May-06						280					
Dry Creek at Wellsford Rd	15-Jun-06	6.08										
Dry Creek at Wellsford Rd	13-Jul-06	6.69		0.026								
Dry Creek at Wellsford Rd	10-Aug-06			0.024								
Dry Creek at Wellsford Rd	14-Sep-06					0.1	310	toxic				
Dry Creek at Wellsford Rd	11-Feb-07				37		290		toxic			
Dry Creek at Wellsford Rd	22-Feb-07								toxic			
Dry Creek at Wellsford Rd	28-Feb-07				4		>2400		toxic		8.4 (7.2)	
Dry Creek at Wellsford Rd	7-Mar-07								toxic			
Dry Creek at Wellsford Rd	17-Apr-07										5.1 (5.0)	
Dry Creek at Wellsford Rd	19-Jun-07	5.77										
Dry Creek at Wellsford Rd	17-Jul-07	6.64		0.021								
Dry Creek at Wellsford Rd	31-Jul-07	6.91										
Dry Creek at Wellsford Rd	14-Aug-07	6.58					440					
Dry Creek at Wellsford Rd	11-Sep-07			0.043			420					
Dry Creek at Wellsford Rd	24-Jan-08						>2400					
Dry Creek at Wellsford Rd	25-Feb-08						>2400		toxic		11 (6.0)	1.8 (1.6)
Dry Creek at Wellsford Rd	4-Mar-08									toxic		
Dry Creek at Wellsford Rd	22-Apr-08						>2400					
Dry Creek at Wellsford Rd	20-May-08	5.67					330					

Sampling Site	Date Sampled	Oxygen, Dissolved	pH	Chlorpyrifos (Lorsban)	Diuron	Thiobencarb	*E. coli*	Water flea toxicity	Algae toxicity	Sediment toxicity	Copper[1]	Lead[1]
Dry Creek at Wellsford Rd	17-Jun-08	6.31					>2400					
*Dry Creek at Waterford Rd**	*22-Jul-08*	*6.08*		*0.02*								
Dry Creek at Wellsford Rd	22-Jul-08	6.67					>2400					
*Dry Creek at Waterford Rd**	*19-Aug-08*	*5.93*		*0.023*								
Dry Creek at Wellsford Rd	19-Aug-08	6.85					580					
Dry Creek at Wellsford Rd	28-Aug-08	6.64								toxic		
Dry Creek at Wellsford Rd	2-Oct-08	5.83										

Exceedance triggers or objectives are indicated below the column headers. Triggers and objectives for all constituents sampled can be found on the ESJWQC website; www.esjcoalition.org.

*****Upstream Management Plan Monitoring site – data are shown in italics.

[1]Limit is based on hardness measured in each water sample and is indicated in parenthesis.

Meeting Survey Handout

East San Joaquin Water Quality Coalition

Grower Meeting Survey

Name: _____ Member ID: _____

Company Name: _____

Are you a Coalition member? Yes / No Since (list year): _____

How many other Coalition meetings have you attended prior to this one? 0 1 2 3 >4

Did you find this meeting useful? Yes / No

Did you fill out a Management Practices Survey? Yes / No

Are you interested in conducting a farm specific assessment of your current management practices and receive additional information (and possibly support) for future management practice implementation? Yes / No

If yes, when would you prefer to conduct a farm specific assessment? _____

How can the Coalition reach you? Email / Phone / Other _____

Phone:_____ Email _____

Address: _____

What management practice(s) do you intend to employ after attending this meeting?

_____

_____

Comments/suggestions:

_____

_____

_____

_____

November 20, 2008: Modesto Pesticide Applicator Professional Association Seminar

Meeting Agenda

MODESTO PAPA SEMINAR

The Seasons Catering & Multicultural Center

945 McHenry Avenue, Modesto, Ca 95350

November 20, 2008

(7 DPR have been requested, including laws. Please go to DPR's website, www.cdpr.ca.gov for final accreditation information)

7:00	Registration
7:30	Update on Local County Issues *-Kamaljit Bagri,* *Deputy Ag. Commissioner, Stanislaus Co. Dept. of Ag*.
8:00	License Renewal Information *- Charlotte Carson , PAPA*
8:15	Electronic Filing & Reporting of Pesticide Reports *- Luis Angulo, Agrian*
8:45	Federal & State Regulations For Transporting Hazardous Materials *- Dan Cantieri, CA Highway Patrol, Commercial Industry, Education Program*
9:45	Break
10:00	Non-crop Weed Control Strategies For The Next 90 Days *- Rick Miller, Dow AgroSciences*
10:45	Regulations For Insecticides In Water and Sediment: Mitigate or Regulate? *- Parry Klassen, C.U.R.E.S*
11:45	Lunch
12:45	Importance of Using Adjuvants In Your Spray Program *- Rick Foell , Simplot*

1:30 Burrowing Animal Control Without Pesticides or Traps
- Mark Ayers, Rodent Eradications Services

2:15 Nuisance Ants: Biology & Control
- Bill Donahue, Sierra Research Laboratories

3:15 Program Ends – Thanks for Coming!

DIRECTIONS Fwy 99: Take the Briggsmore/Carpenter exit & turn east on Briggsmore Ave. Follow curve heading south-east and continue past Carver and Tully until you reach McHenry Ave. Turn right on McHenry & continue past Orangeburg & Roseburg. Turn right on Fairmont and park behind the seasons.

December 16, 2008: 2008 Annual Growers Meeting—Stanislaus

Meeting Announcement

East San Joaquin Water Quality Coalition
1201 L Street, Modesto, CA 95354
www.esjcoalition.org

Monday, November 24, 2008

ID# 0000 Farmer Name
Farmer Company
101 America Street
Anytown, CA 99999

ESJWQC ANNOUNCEMENTS

- **Renewal Deadline Extension to February 27, 2009**
- **December Annual Member Meeting Dates**

Dear Farmer Name,

A clarification to our recently mailed membership renewal: the deadline for submitting your membership payment is February 27, 2009.

The 2009 Membership term is January 1, 2009 - December 31, 2009.

Our December Annual Member Meeting locations and dates are listed below. Come enjoy a sponsored lunch and maybe win a donated door prize: wine, jackets and other goodies. Continuing education hours will also be offered.

Each meeting will cover:

- Updates on local water monitoring results
- How results may impact your farming operation
- Preview of upcoming groundwater regulations

MODESTO	MERCED	MADERA
Tuesday, December 16, 2008	**Wednesday, December 17, 2008**	**Thursday, December 18, 2008**
10:00 – 12:00 pm plus sponsored lunch	10:00 – 12:00 pm plus sponsored lunch	10:00 – 12:00 pm plus sponsored lunch
Stanislaus County Ag Center	Merced County Agricultural Commissioners Office	Madera County Farm Bureau
3800 Cornucopia Way, Suite B, Modesto	2139 Wardrobe Ave., Merced	1102 S Pine St., Madera
RSVP to (209) 522-7278	**RSVP to (209) 522-7278**	**RSVP to (559) 674-8871**

For more information, contact:

Parry Klassen
559-288-8125

Wayne Zipser
209-522-7278

East San Joaquin Water Quality Coalition

Membership Policy

January 2009

As a member of the Coalition in good standing, irrigated acres that you own or manage are now legally covered under the requirements described for watershed coalitions in the Irrigated Lands Regulatory Program (Central Valley Regional Water Quality Control Board Resolution No. R5-2003-0105).

Member Responsibilities

As a member of the East San Joaquin Water Quality Coalition (Coalition), you agree to:

1. Respond to requests for information by ESJWQC that enable the Coalition to remain in compliance with requirements of the ILRP.
2. Cooperate with the ESJWQC to take corrective action should water quality problems be tracked back to your farming operation.
3. Implement management practices that minimize or eliminate fertilizer, pesticide and sediment runoff.

ESJWQC Responsibilities

1. Perform activities that enable Coalition members to be in compliance with the Irrigated Lands Regulatory Program.
2. File required reports with the Central Valley Regional Water Quality Control Board (Regional Board) to maintain ILRP coverage for Coalition members.
3. Implement an economical and scientifically valid water monitoring program for waterways within the Coalition boundaries.
4. Spread costs equitably among Coalition members.
5. Communicate to Coalition members where water monitoring indicates water quality problems are related to farming practices and facilitate efforts to solve those problems.

Agenda

East San Joaquin Water Quality Coalition

Annual Member Meeting

December 16, 2008
Stanislaus County Department of Agriculture, Modesto
10:00 am to 12:00 pm; lunch following

10:00 pm Welcome and introductions	Wayne Zipser Stanislaus Co. Farm Bureau
Overview of Irrigated Lands Regulatory Program; Coalition Status New Regulations	Parry Klassen Board Chairman, ESJWQC
Gary Caseri	Ag Commissioner, Stanislaus County
Update on East San Joaquin Water Quality Coalition Activities	Wayne Zipser Stanislaus Co. Farm Bureau
Coaliton Water Monitoring Results	Michael Johnson
Break	Door prize drawings
Priority Management Plans – Pesticides Drive Water Quality Challenges BMP Surveys	Parry Klassen
12:00	Lunch: Sponsored by ESJWQC

2 hours of CE credits, laws and regulations

Sponsored by
East San Joaquin Water Quality Coalition
Stanislaus County Agricultural Commissioner
Stanislaus County Farm Bureau

December 17, 2008: 2008 Annual Growers Meeting—Merced

Meeting Announcement

East San Joaquin Water Quality Coalition
1201 L Street, Modesto, CA 95354
www.esjcoalition.org

Monday, November 24, 2008

ID# 0000 Farmer Name
Farmer Company
101 America Street
Anytown, CA 99999

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Each meeting will cover:
- Updates on local water monitoring results
- How results may impact your farming operation
- Preview of upcoming groundwater regulations

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10:00 – 12:00 pm plus sponsored lunch	10:00 – 12:00 pm plus sponsored lunch	10:00 – 12:00 pm plus sponsored lunch
Stanislaus County Ag Center	Merced County Agricultural Commissioners Office	Madera County Farm Bureau
3800 Cornucopia Way, Suite B, Modesto	2139 Wardrobe Ave., Merced	1102 S Pine St., Madera
RSVP to (209) 522-7278	**RSVP to (209) 522-7278**	**RSVP to (559) 674-8871**

For more information, contact:

Parry Klassen
559-288-8125

Wayne Zipser
209-522-7278

Adminsitrative Record
Page 17892

East San Joaquin Water Quality Coalition

Membership Policy

January 2009

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2. Cooperate with the ESJWQC to take corrective action should water quality problems be tracked back to your farming operation.
3. Implement management practices that minimize or eliminate fertilizer, pesticide and sediment runoff.

ESJWQC Responsibilities

1. Perform activities that enable Coalition members to be in compliance with the Irrigated Lands Regulatory Program.
2. File required reports with the Central Valley Regional Water Quality Control Board (Regional Board) to maintain ILRP coverage for Coalition members.
3. Implement an economical and scientifically valid water monitoring program for waterways within the Coalition boundaries.
4. Spread costs equitably among Coalition members.
5. Communicate to Coalition members where water monitoring indicates water quality problems are related to farming practices and facilitate efforts to solve those problems.

Meeting Agenda

East San Joaquin Water Quality Coalition

Annual Member Meeting

December 17, 2008
Merced Department of Agriculture, Merced
10:00 am to 12:00 pm; lunch following

10:00 pm Welcome and introductions	Diane Westmoreland Pedrozo Merced Co. Farm Bureau
Overview of Irrigated Lands Regulatory Program; Coalition Status New Regulations	Parry Klassen Board Chairman, ESJWQC
David Robinson	Ag Commissioner, Merced County
Update on East San Joaquin Water Quality Coalition Activities	Wayne Zipser Stanislaus Co. Farm Bureau
Coaliton Water Monitoring Results	Michael Johnson
Break	Door prize drawings
Priority Management Plans – Pesticides Drive Water Quality Challenges Merced County watershed review	Parry Klassen
Update on County Laws and Regulations Employees, Pesticides, storage and handling	Merced County Agricultural Commissioners office
12:00	Lunch: Sponsored by ESJWQC

2 hours of CE credits, laws and regulations

Sponsored by
East San Joaquin Water Quality Coalition
Merced County Agricultural Commissioner
Merced County Farm Bureau

December 18, 2008: 2008 Annual Growers Meeting—Madera

Meeting Announcement

East San Joaquin Water Quality Coalition
1201 L Street, Modesto, CA 95354
www.esjcoalition.org

Monday, November 24, 2008

ID# 0000 Farmer Name
Farmer Company
101 America Street
Anytown, CA 99999

ESJWQC ANNOUNCEMENTS

- **Renewal Deadline Extension to February 27, 2009**
- **December Annual Member Meeting Dates**

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Each meeting will cover:

- Updates on local water monitoring results
- How results may impact your farming operation
- Preview of upcoming groundwater regulations

MODESTO	MERCED	MADERA
Tuesday, December 16, 2008	**Wednesday, December 17, 2008**	**Thursday, December 18, 2008**
10:00 – 12:00 pm plus sponsored lunch	10:00 – 12:00 pm plus sponsored lunch	10:00 – 12:00 pm plus sponsored lunch
Stanislaus County Ag Center	Merced County Agricultural Commissioners Office	Madera County Farm Bureau
3800 Cornucopia Way, Suite B, Modesto	2139 Wardrobe Ave., Merced	1102 S Pine St., Madera
RSVP to (209) 522-7278	**RSVP to (209) 522-7278**	**RSVP to (559) 674-8871**

For more information, contact:

Parry Klassen
559-288-8125

Wayne Zipser
209-522-7278

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3. Implement management practices that minimize or eliminate fertilizer, pesticide and sediment runoff.

ESJWQC Responsibilities

1. Perform activities that enable Coalition members to be in compliance with the Irrigated Lands Regulatory Program.
2. File required reports with the Central Valley Regional Water Quality Control Board (Regional Board) to maintain ILRP coverage for Coalition members.
3. Implement an economical and scientifically valid water monitoring program for waterways within the Coalition boundaries.
4. Spread costs equitably among Coalition members.
5. Communicate to Coalition members where water monitoring indicates water quality problems are related to farming practices and facilitate efforts to solve those problems.

Meeting Agenda

Meeting Agenda

East San Joaquin Water Quality Coalition

Annual Meeting

December 18, 2008
Madera County Farm Bureau, Madera
10:00 pm to 12:00 pm

10:00 pm Welcome and introductions	Julia Berry Madera County Farm Bureau
Overview of Irrigated Lands Program; Coalition Status	Parry Klassen Board Chairman, ESJWQC
Update on East San Joaquin Water Quality Coalition Activities	Wayne Zipser Stanislaus Co. Farm Bureau
Coaliton Water Monitoring Results	Michael Johnson
Break	Door prize drawings
Priority Management Plans – Pesticides Drive Water Quality Challenges Merced County watershed review	Parry Klassen
Update on County Laws and Regulations Employees, Pesticides, storage and handling	Stanislaus County Agricultural Commissioners office
Parry Klassen Julia Berry	Question and answer session

12:00 Adjourn

2 hours of CE credits, laws and regulations, have been applied for.

* Please RSVP to 209-522-7278

Sponsored by
East San Joaquin Water Quality Coalition
Madera County Agricultural Commissioner
Madera County Farm Bureau

February 5, 2009: CAPCA Continuing Education Pest Management Meeting (Stanislaus County)

Associated meeting agenda and/or handouts not available.

February 9, 2009: Helena Chemical Company Grower Meeting (Modesto)

Associated meeting agenda and/or handouts not available.

Adminsitrative Record
Page 17899

March 2, 2009: Modesto Irrigation District Grower Meeting (Waterford)

Associated meeting agenda and/or handouts not available.

March 4, 2009: Modesto Irrigation District Grower Meeting (Modesto)

Associated meeting agenda and/or handouts not available.

March 10, 2009: Merced Grower Meeting

Associated meeting agenda and/or handouts not available.

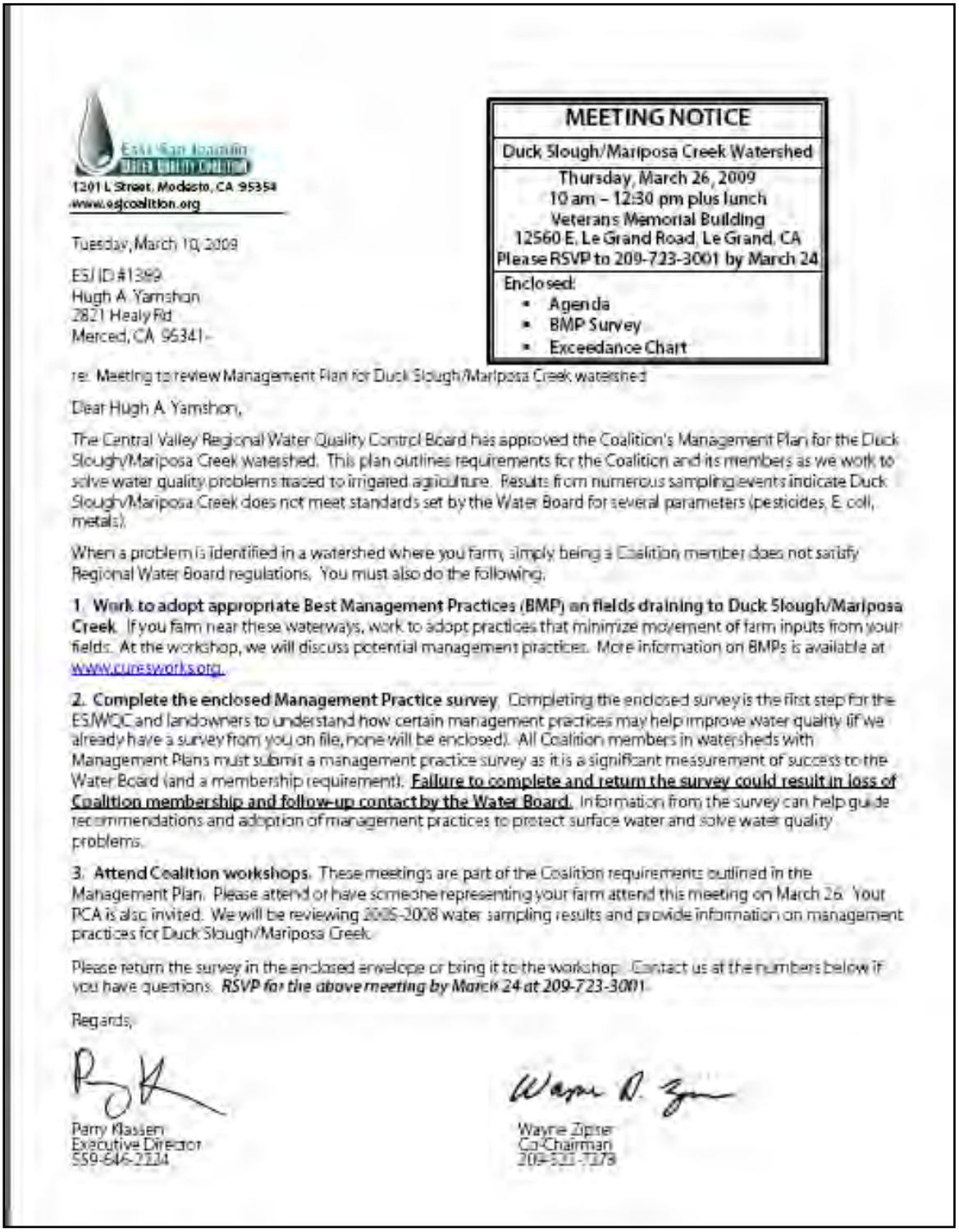
March 23, 2009: Helena Chemical Company Grower Meeting (Merced)

Associated meeting agenda and/or handouts not available.

Adminsitrative Record
Page 17903

March 26, 2009: Duck Slough Subwatershed Management Plan Overview Grower Meeting

Meeting Announcement



East San Joaquin Water Quality Coalition
1201 L Street, Modesto, CA 95354
www.esjcoalition.org

MEETING NOTICE
Duck Slough/Mariposa Creek Watershed
Thursday, March 26, 2009 10 am – 12:30 pm plus lunch Veterans Memorial Building 12560 E. Le Grand Road, Le Grand, CA Please RSVP to 209-723-3001 by March 24
Enclosed: • Agenda • BMP Survey • Exceedance Chart

Tuesday, March 10, 2009

ESJ ID #1389
Hugh A Yamshon
2821 Healy Rd
Merced, CA 95341-

re: Meeting to review Management Plan for Duck Slough/Mariposa Creek watershed

Dear Hugh A Yamshon,

The Central Valley Regional Water Quality Control Board has approved the Coalition's Management Plan for the Duck Slough/Mariposa Creek watershed. This plan outlines requirements for the Coalition and its members as we work to solve water quality problems traced to irrigated agriculture. Results from numerous sampling events indicate Duck Slough/Mariposa Creek does not meet standards set by the Water Board for several parameters (pesticides, E. coli, metals).

When a problem is identified in a watershed where you farm, simply being a Coalition member does not satisfy Regional Water Board regulations. You must also do the following.

1. **Work to adopt appropriate Best Management Practices (BMP) on fields draining to Duck Slough/Mariposa Creek.** If you farm near these waterways, work to adopt practices that minimize movement of farm inputs from your fields. At the workshop, we will discuss potential management practices. More information on BMPs is available at www.cureswork s.org.

2. **Complete the enclosed Management Practice survey.** Completing the enclosed survey is the first step for the ESJWQC and landowners to understand how certain management practices may help improve water quality (if we already have a survey from you on file, none will be enclosed). All Coalition members in watersheds with Management Plans must submit a management practice survey as it is a significant measurement of success to the Water Board (and a membership requirement). **Failure to complete and return the survey could result in loss of Coalition membership and follow-up contact by the Water Board.** Information from the survey can help guide recommendations and adoption of management practices to protect surface water and solve water quality problems.

3. **Attend Coalition workshops.** These meetings are part of the Coalition requirements outlined in the Management Plan. Please attend or have someone representing your farm attend this meeting on March 26. Your PCA is also invited. We will be reviewing 2005-2008 water sampling results and provide information on management practices for Duck Slough/Mariposa Creek.

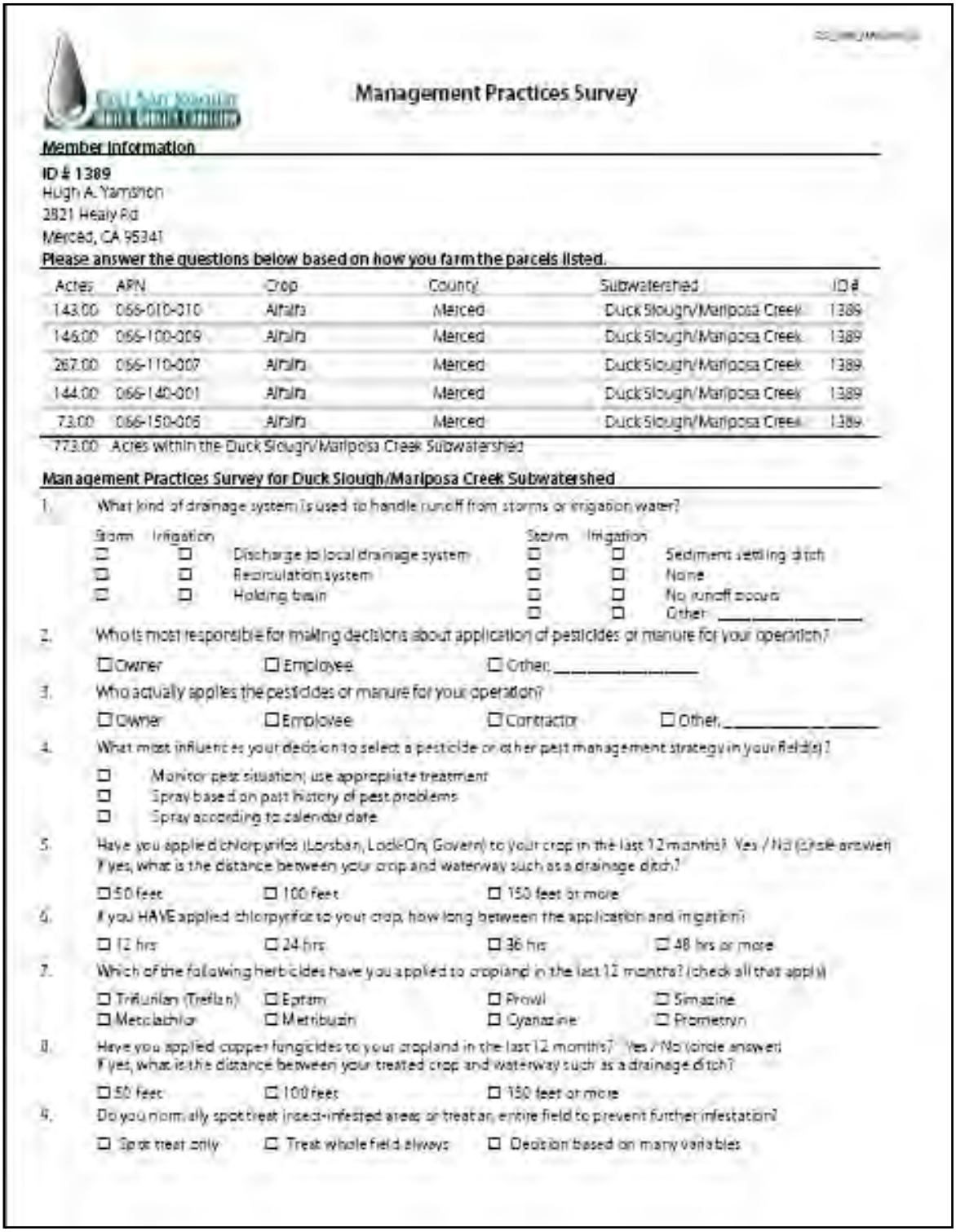
Please return the survey in the enclosed envelope or bring it to the workshop. Contact us at the numbers below if you have questions. ***RSVP for the above meeting by March 24 at 209-723-3001.***

Regards,

Parry Klassen
Executive Director
559-646-2224

Wayne Zipser
Co-Chairman
209-531-7379

Meeting Announcement Attachment: Meeting Survey



Management Practices Survey

Member Information

ID # 1389
Hugh A. Yamshon
2821 Healy Rd
Merced, CA 95341

Please answer the questions below based on how you farm the parcels listed.

Acres	APN	Crop	County	Subwatershed	ID #
143.00	066-010-010	Alfalfa	Merced	Duck Slough/Mariposa Creek	1389
146.00	066-100-009	Alfalfa	Merced	Duck Slough/Mariposa Creek	1389
267.00	066-110-007	Alfalfa	Merced	Duck Slough/Mariposa Creek	1389
144.00	066-140-001	Alfalfa	Merced	Duck Slough/Mariposa Creek	1389
73.00	066-150-006	Alfalfa	Merced	Duck Slough/Mariposa Creek	1389

773.00 Acres within the Duck Slough/Mariposa Creek Subwatershed

Management Practices Survey for Duck Slough/Mariposa Creek Subwatershed

1. What kind of drainage system is used to handle runoff from storms or irrigation water?

Storm	Irrigation		Storm	Irrigation	
☐	☐	Discharge to local drainage system	☐	☐	Sediment settling ditch
☐	☐	Recirculation system	☐	☐	None
☐	☐	Holding basin	☐	☐	No runoff occurs
			☐	☐	Other: _____

2. Who is most responsible for making decisions about application of pesticides or manure for your operation?

☐ Owner ☐ Employee ☐ Other: _____

3. Who actually applies the pesticides or manure for your operation?

☐ Owner ☐ Employee ☐ Contractor ☐ Other: _____

4. What most influences your decision to select a pesticide or other pest management strategy in your field(s)?

☐ Monitor pest situation; use appropriate treatment
☐ Spray based on past history of pest problems
☐ Spray according to calendar date

5. Have you applied chlorpyrifos (Lorsban, Lock-On, Govern) to your crop in the last 12 months? Yes / No (circle answer)
If yes, what is the distance between your crop and waterway such as a drainage ditch?

☐ 50 feet ☐ 100 feet ☐ 150 feet or more

6. If you HAVE applied chlorpyrifos to your crop, how long between the application and irrigation?

☐ 12 hrs ☐ 24 hrs ☐ 36 hrs ☐ 48 hrs or more

7. Which of the following herbicides have you applied to cropland in the last 12 months? (check all that apply)

☐ Trifluralin (Treflan) ☐ Eptam ☐ Prowl ☐ Simazine
☐ Metolachlor ☐ Metribuzin ☐ Cyanazine ☐ Prometryn

8. Have you applied copper fungicides to your cropland in the last 12 months? Yes / No (circle answer)
If yes, what is the distance between your treated crop and waterway such as a drainage ditch?

☐ 50 feet ☐ 100 feet ☐ 150 feet or more

9. Do you normally spot treat insect-infested areas or treat an entire field to prevent further infestation?

☐ Spot treat only ☐ Treat whole field always ☐ Decision based on many variables

10. What is the minimum distance between any pesticide or fertilizer mixing/loading area and any ditches, canals or streams that feed into nearby rivers?

☐ Less than 20 feet ☐ Between 20 and 100 feet ☐ More than 100 feet

11. Is vegetation allowed to grow in and along field drainage ditches to trap sediment?

☐ Yes ☐ No ☐ Some growth in winter

12. What practices have you used to lessen storm or irrigation runoff from fields into ditches, canals or streams? Indicate time frame when practices were installed, in the past 12 months or prior to 2007.

2007 & later	Before 2007	
☐	☐	Gravity tailwater recapture irrigation system
☐	☐	Vegetative filter strips around field edges
☐	☐	Grass row centers (in orchards)
☐	☐	Recirculation - tail water return system
☐	☐	Grass waterways
☐	☐	Others (list) _____
☐	☐	None

13. Which of the following management practices (sometimes referred to as "Best Management Practices" or "BMPs") do you **most frequently** implement to protect surface water quality? (Check all that apply)

2007 & later	Before 2007		2007 & later	Before 2007	
☐	☐	Obtain soil nutrient analysis	☐	☐	Use tailwater return system
☐	☐	Use vegetative buffers and/or grass swales	☐	☐	Obtain a PCA pesticide recommendation
☐	☐	Follow a nutrient management plan	☐	☐	Perform sprayer calibration
☐	☐	Get agronomist's advice on practices	☐	☐	Laser leveling of fields
☐	☐	Attend commodity-specific training session	☐	☐	Other: _____ (or equivalent) fertilizer recommendation
☐	☐	Obtain Certified Crop Advisor (CCA)			

14. If you **are not** already implementing the "BMPs" listed in question 12 & 13 that are applicable to your operation, why not?

☐ Lack of knowledge (for example, engineering)
☐ I don't believe it is applicable for my operation
☐ I'm not convinced it will work
☐ Lack of available equipment
☐ Cost of implementation
☐ Other: _____

15. Please check all the manure types that your agricultural operation has applied in the past 5 years, currently apply, and intend to apply in the next 5 years. (Check all that apply)

	Dairy	Chicken	Other: (Please specify:_____)
Used in the past 5 years	☐	☐	☐
Currently use	☐	☐	☐
Intend to use in the next 5 years	☐	☐	☐

16. Approximately how many total tons of manure do you apply annually (and rate per acre)?

Dairy: _____ Rate/ac: _____
Chicken: _____ Rate/ac: _____
Other: _____ (Please specify) Rate/ac: _____

17. How close are surface water ways (creeks, drains, irrigation ditches or canals, etc) to the fields you apply manure?

☐ Adjacent ☐ Very Close (within 100 ft) ☐ Close (Within 300 ft) ☐ Distant (>300 ft)

THANK YOU

Meeting Announcement Attachment: Exceedance Chart (Duck Slough @ Gurr Rd)

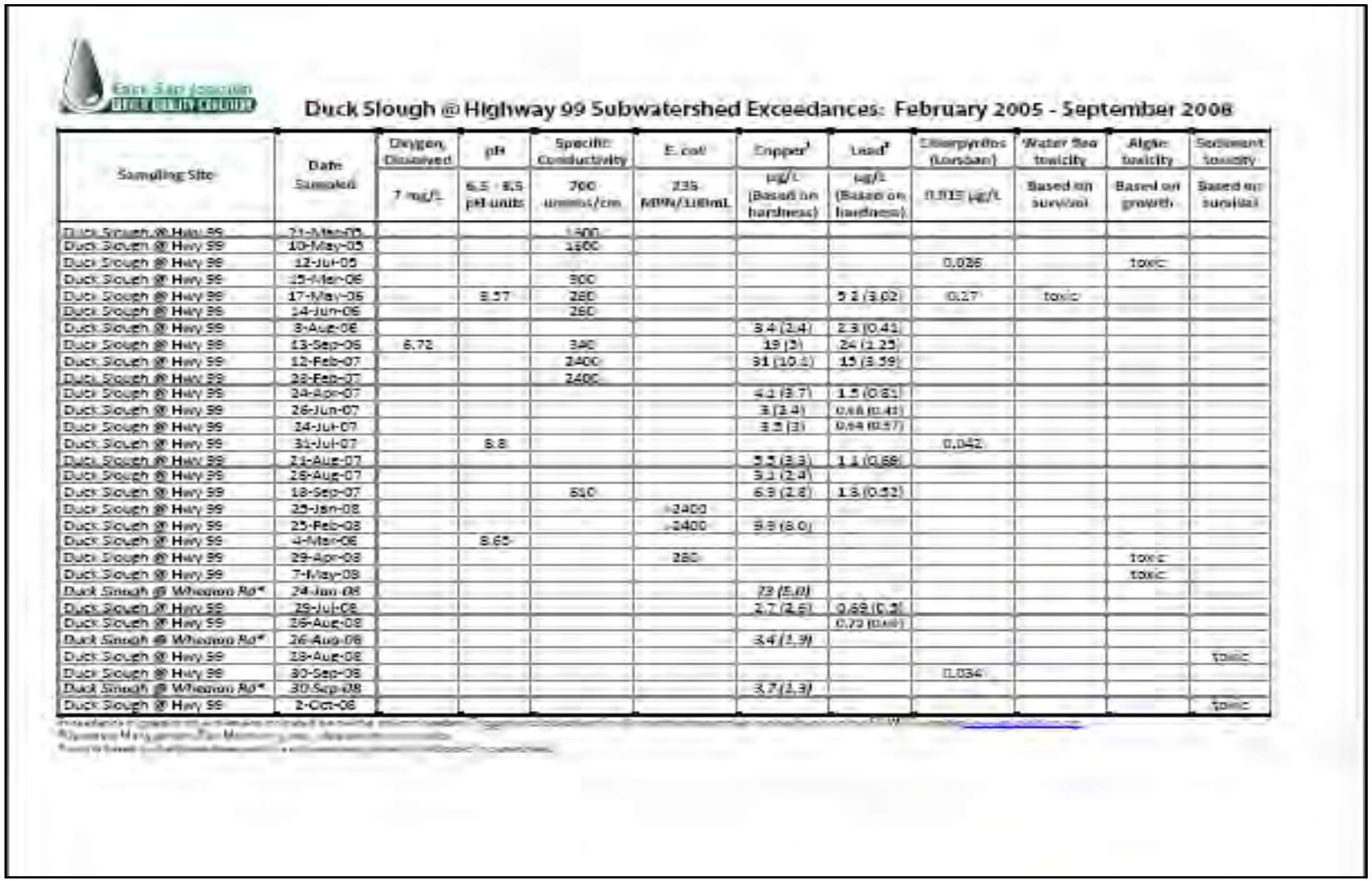
East San Joaquin Water Quality Coalition

Duck Slough @ Gurr Road Subwatershed Exceedances: February 2005 - December 2008

Sampling Site	Date Sampled	Oxygen, Dissolved	pH	Specific Conductivity	E. coli	Total Dissolved Solids	Copper[1]	Lead[1]	Carbofuran	Chlorpyrifos (Lorsban)	Thiobencarb	Water flea toxicity	Algae toxicity	Sediment toxicity
		7 mg/L	6.5 - 8.5 pH units	700 µmhos/cm	235 MPN/100mL	450 mg/L	µg/L (Based on hardness)	µg/L (Based on hardness)	0 µg/L (Prohibited Discharge)	0.015 µg/L	0 µg/L (Prohibited discharge)	Based on survival	Based on growth	Based on survival
Duck Slough @ Gurr	31-Jul-04				330					0.045				
Duck Slough @ Gurr	31-Aug-04													toxic
Duck Slough @ Gurr	29-Sep-04			701		540							toxic	
Duck Slough @ Gurr	16-Feb-05				1600									
Duck Slough @ Gurr	21-Mar-05				1600									
Duck Slough @ Gurr	10-May-05				1600									
Duck Slough @ Gurr	14-Jun-05				300									
Duck Slough @ Gurr	12-Jul-05				300									toxic
Duck Slough @ Gurr	16-Aug-05				240									
Duck Slough @ Gurr	20-Sep-05													toxic
Duck Slough @ Gurr	28-Feb-06											toxic		
Duck Slough @ Gurr	10-Mar-06											toxic		
Duck Slough @ Gurr	15-Mar-06				300							toxic		
Duck Slough @ Gurr	17-May-06		8.6		2000									
Duck Slough @ Gurr	14-Jun-06				690		10 (10.9)				3.8			
Duck Slough @ Gurr	11-Jul-06	6.18					14 (9.3)				0.29			
Duck Slough @ Gurr	19-Sep-06	5.53												
Duck Slough @ Gurr	12-Feb-07				2400		47 (12.4)	13 (4.88)						
Duck Slough @ Gurr	28-Feb-07				2000		11 (8.8)							
Duck Slough @ Gurr	7-Mar-07		9.17											
Duck Slough @ Gurr	29-May-07				820									
Duck Slough @ Gurr	19-Jun-07	5.85					5.4 (3)							
Duck Slough @ Gurr	26-Jun-07						4.6 (3.7)	1 (0.81)						
Duck Slough @ Gurr	24-Jul-07												toxic	
Duck Slough @ Gurr	18-Sep-07				370									
Duck Slough @ Gurr	29-Jan-08				>2400		13 (9.0)	2.7 (2.4)						
Duck Slough @ Gurr	25-Feb-08				>2400		17 (9.3)	3.7 (3.2)						
Duck Slough @ Gurr	29-Apr-08								0.05					
*Duck Slough @ Hwy 59**	24-Jun-08	4.22		643										
*Duck Slough @ Hwy 59**	29-Jul-08	4.82												
Duck Slough @ Gurr	18-Aug-08													toxic
*Duck Slough @ Hwy 59**	10-Sep-08	3.72												
Duck Slough @ Gurr	2-Oct-08													toxic

[illegible]
*[illegible]
[1][illegible]

Meeting Announcement Attachment: Exceedance Chart (Duck Slough @ Hwy 99)



Duck Slough @ Highway 99 Subwatershed Exceedances: February 2005 - September 2008

Sampling Site	Date Sampled	Oxygen, Dissolved	pH	Specific Conductivity	E. coli	Copper[1]	Lead[1]	Chlorpyrifos (LowSan)	Water flea toxicity	Algae toxicity	Sediment toxicity
		7 mg/L	6.5 - 8.5 pH units	700 umhos/cm	235 MPN/100mL	µg/L (Based on hardness)	µg/L (Based on hardness)	0.015 µg/L	Based on survival	Based on growth	Based on survival
Duck Slough @ Hwy 99	21-Mar-05			1400							
Duck Slough @ Hwy 99	10-May-05			1600							
Duck Slough @ Hwy 99	12-Jul-05							0.026		toxic	
Duck Slough @ Hwy 99	15-Mar-06			900							
Duck Slough @ Hwy 99	17-May-06		8.57	280			5.2 (3.02)	0.27	toxic		
Duck Slough @ Hwy 99	14-Jun-06			260							
Duck Slough @ Hwy 99	8-Aug-06					3.4 (2.4)	2.3 (0.41)				
Duck Slough @ Hwy 99	13-Sep-06	6.72		340		19 (5)	24 (1.25)				
Duck Slough @ Hwy 99	12-Feb-07			2400		31 (10.1)	15 (3.59)				
Duck Slough @ Hwy 99	28-Feb-07			2400							
Duck Slough @ Hwy 99	24-Apr-07					4.1 (3.7)	1.5 (0.81)				
Duck Slough @ Hwy 99	26-Jun-07					3 (2.4)	0.68 (0.43)				
Duck Slough @ Hwy 99	24-Jul-07					3.5 (3)	0.94 (0.57)				
Duck Slough @ Hwy 99	31-Jul-07		8.8					0.042			
Duck Slough @ Hwy 99	21-Aug-07					5.5 (3.3)	1.1 (0.68)				
Duck Slough @ Hwy 99	28-Aug-07					5.1 (2.4)					
Duck Slough @ Hwy 99	18-Sep-07			610		6.9 (2.6)	1.8 (0.51)				
Duck Slough @ Hwy 99	25-Jan-08				>2400						
Duck Slough @ Hwy 99	25-Feb-08				>2400	9.9 (8.0)					
Duck Slough @ Hwy 99	4-Mar-08		8.65								
Duck Slough @ Hwy 99	29-Apr-08				280					toxic	
Duck Slough @ Hwy 99	7-May-08									toxic	
Duck Slough @ Wheaton Rd*	24-Jun-08					73 (5.0)					
Duck Slough @ Hwy 99	29-Jul-08					2.7 (2.6)	0.62 (0.2)				
Duck Slough @ Hwy 99	26-Aug-08						0.72 (0.49)				
Duck Slough @ Wheaton Rd*	26-Aug-08					3.4 (1.3)					
Duck Slough @ Hwy 99	23-Aug-08										toxic
Duck Slough @ Hwy 99	30-Sep-08							0.034			
Duck Slough @ Wheaton Rd*	30-Sep-08					3.7 (1.3)					
Duck Slough @ Hwy 99	2-Oct-08										toxic

Meeting Agenda

www.esjcoalition.org

Meeting Agenda

Duck Slough/Mariposa Creek Management Plan Overview

Water Monitoring Results/BMP Outreach Workshop

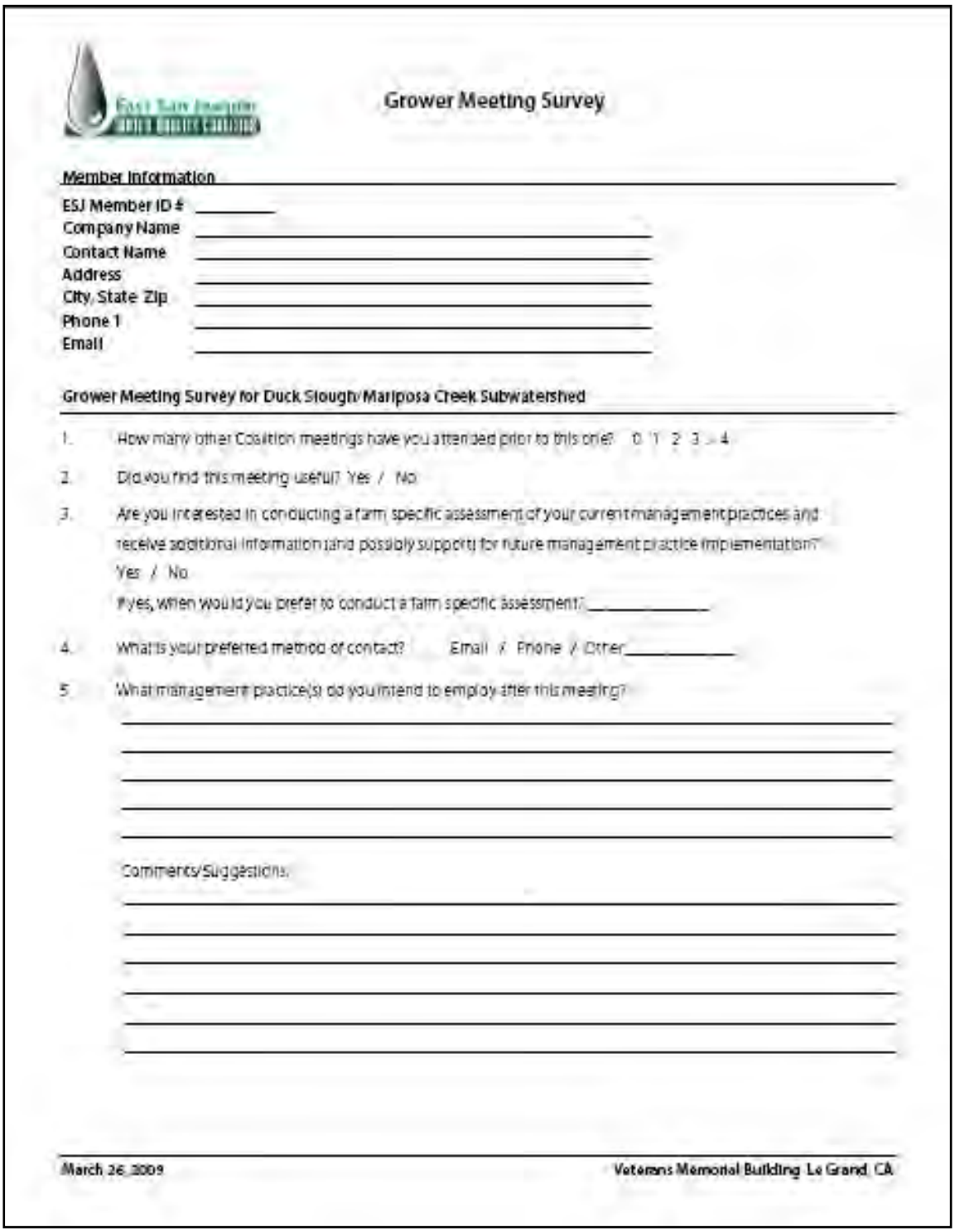
March 26, 2009
10 am – 12:30 pm plus sponsored lunch
Veterans Memorial Building
12560 E. Le Grand Road, Le Grand, CA

10:00 am	**Welcome and Water Coalition background**	Parry Klassen *ESJWQC Executive Director* Diana Westmoreland Pedroso *Merced County Farm Bureau*
10:15 am	**Meeting Purpose/Management Plan overview**	Nassen
10:30 am	**Waterway Monitoring Results** **Duck Slough at Gurr Road and HWY 99** **BMP Surveys**	Michael Johnson LLC *ESJWQC Monitoring Program Manager*
11:00 am	**Coalition Follow-up Activities** Pesticide Use Reports review Further grower contacts *BMPs to address exceedances* Dormant spray applications In season practices	Nassen
	Regional Water Board responsibilities	Dania Huggins Terry Bechtel Central Valley Regional Water Board
	County Agricultural Commissioner follow up	Sean Runyon Merced County Ag Commissioner
11:45 – 12 pm		Open Discussion and Questions
12 pm		Sponsored Lunch

Application pending for Continuing Education Credits

Sponsored by
East San Joaquin Water Quality Coalition
Merced County Agricultural Commissioner
Merced County Farm Bureau

Meeting Survey



Grower Meeting Survey

Member Information

ESJ Member ID # _____
Company Name _____
Contact Name _____
Address _____
City, State Zip _____
Phone 1 _____
Email _____

Grower Meeting Survey for Duck Slough/Mariposa Creek Subwatershed

1. How many other Coalition meetings have you attended prior to this one? 0 1 2 3 > 4
2. Did you find this meeting useful? Yes / No
3. Are you interested in conducting a farm specific assessment of your current management practices and receive additional information (and possibly support) for future management practice implementation?
   Yes / No
   If yes, when would you prefer to conduct a farm specific assessment? _____
4. What is your preferred method of contact? Email / Phone / Other _____
5. What management practice(s) do you intend to employ after this meeting?

_____
_____
_____
_____
_____

Comments/Suggestions:

_____
_____
_____
_____
_____
_____

March 26, 2009 Veterans Memorial Building Le Grand, CA

The Irrigation Meeting
And Lunch
Are
~~~~ FREE ~~~~

Let Us Know If You're Coming So We Can Plan Ahead

Please Contact:
Melanie Fisher
East Stanislaus Resource Conservation District

E-Mail: Melanie.Fisher@ca.nacdnet.net
Phone: (209) 491-9320 X 122
Fax: (209) 491-9331

Name(s) of Persons Attending:
_____

Primary Crop(s) Produced:
_____

Ranch or Company Name:
_____

E-mail or Phone Contact (to confirm Reservation)
_____

Drip and Micro Sprinkler Irrigation Meeting
~~ Tuesday ~~
August 4, 2009
7:30 AM – 4:30PM
~~~~ Stanislaus County Ag Center ~~~~
Harvest Hall
3800 Cornucopia Way
Modesto, CA 95358

Hosted By:
East Stanislaus Resource Conservation District,
University of California Cooperative Extension, Stanislaus,
The USDA - NRCS Modesto Service Center

(More Information on Reverse Side)

August 4, 2009: Drip and Micro Sprinkler Irrigation Meeting

Meeting Announcement

DRIP AND MICRO SPRINKLER IRRIGATION MEETING

~~~ TUESDAY ~~~

AUGUST 4, 2009

7:30 AM – 4:30PM

---~~~ STANISLAUS COUNTY AG CENTER -~~~

HARVEST HALL

3800 CORNUCOPIA WAY

MODESTO, CA 95358

HOSTED BY:

EAST STANISLAUS RESOURCE CONSERVATION DISTRICT,

UNIVERSITY OF CALIFORNIA COOPERATIVE EXTENSION, STANISLAUS,

AND

THE USDA - NRCS MODESTO SERVICE CENTER

7:30-8:00	**Sign-ups, coffee** (Trade Show set-up ~ 6:45-7:30am)
8:00-8:10	**Christopher Hartley, NRCS** and **Kathy Anderson, UCCE**
8:10-8:40	**Ken Oster, NRCS** - Soil Basics and Resources for Growers
8:40-9:10	**David Zoldoske CIT, CSU Fresno** – Drip and Micro Irrigation Overview
9:10-9:40	**Blain Hanson, UCD LAWR**– Drip Irrigation and Soil Salinity
9:40 -10:00	**Manufacturer's Sponsored Coffee Break** --- (Trade Show Open)
10:00-10:30	**Larry Schwankl – UCD LAWR** – Micro Irrigation Maintenance and Chemigation Uniformity
10:30-11:00	**Rob Mikkelsen, IPNI** - Fertilizer Efficiencies with Drip and Micro Systems in Row and Orchard Crops
11:00-11:30	**Ken Shackel, UCD** - Plant Water Relations: Irrigation Advice Directly From the Tree
11:30-12:00	**Terry Prichard, UCD LAWR** – Irrigation Scheduling in Orchard and Row Crops

Manufacturer's Sponsored Lunch – 12:00 to 1:00pm

12:30-1:00	**Christopher Hartley, NRCS** -Irrigation Cost Share and EQIP sign-ups
1:00-1:30	**Bruce Lampinen, UCD** - Water Management and Crop Quality - Pest and Disease Reduction
1:30-1:45	**Roger Baldwin, UCIPM** - Vertebrate Pest Management in Drip/Micro Irrigated Crops
1:45-3:30	**MANUFACTURER'S PRODUCT LINE PRESENTATIONS**
12:00-4:30	**"Product Line ~ Trade Show" and Demonstrations (Pressure Bomb, Pump Efficiency, Table Top Demos, etc)**

(More Information on Reverse Side)
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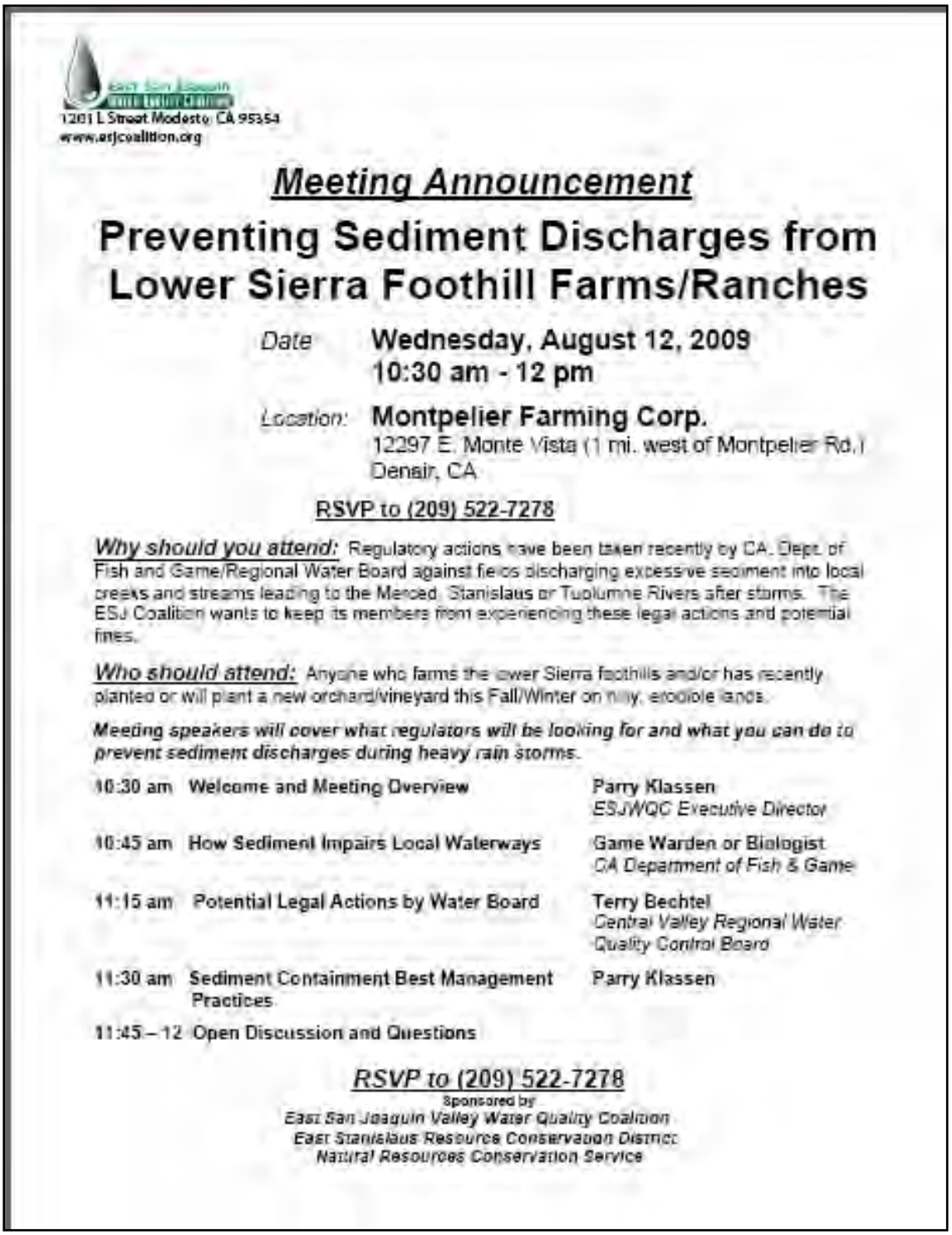
August 12, 2009: Preventing Sediment Discharges from Lower Sierra Foothill Farms/Ranches Meeting

Meeting Announcement



1201 L Street Modesto, CA 95354
www.esjcoalition.org

Meeting Announcement

Preventing Sediment Discharges from Lower Sierra Foothill Farms/Ranches

Date **Wednesday, August 12, 2009**
10:30 am - 12 pm

Location: **Montpelier Farming Corp.**
12297 E. Monte Vista (1 mi. west of Montpelier Rd.)
Denair, CA

RSVP to (209) 522-7278

Why should you attend: Regulatory actions have been taken recently by CA. Dept. of Fish and Game/Regional Water Board against fields discharging excessive sediment into local creeks and streams leading to the Merced, Stanislaus or Tuolumne Rivers after storms. The ESJ Coalition wants to keep its members from experiencing these legal actions and potential fines.

Who should attend: Anyone who farms the lower Sierra foothills and/or has recently planted or will plant a new orchard/vineyard this Fall/Winter on hilly, erodible lands.

Meeting speakers will cover what regulators will be looking for and what you can do to prevent sediment discharges during heavy rain storms.

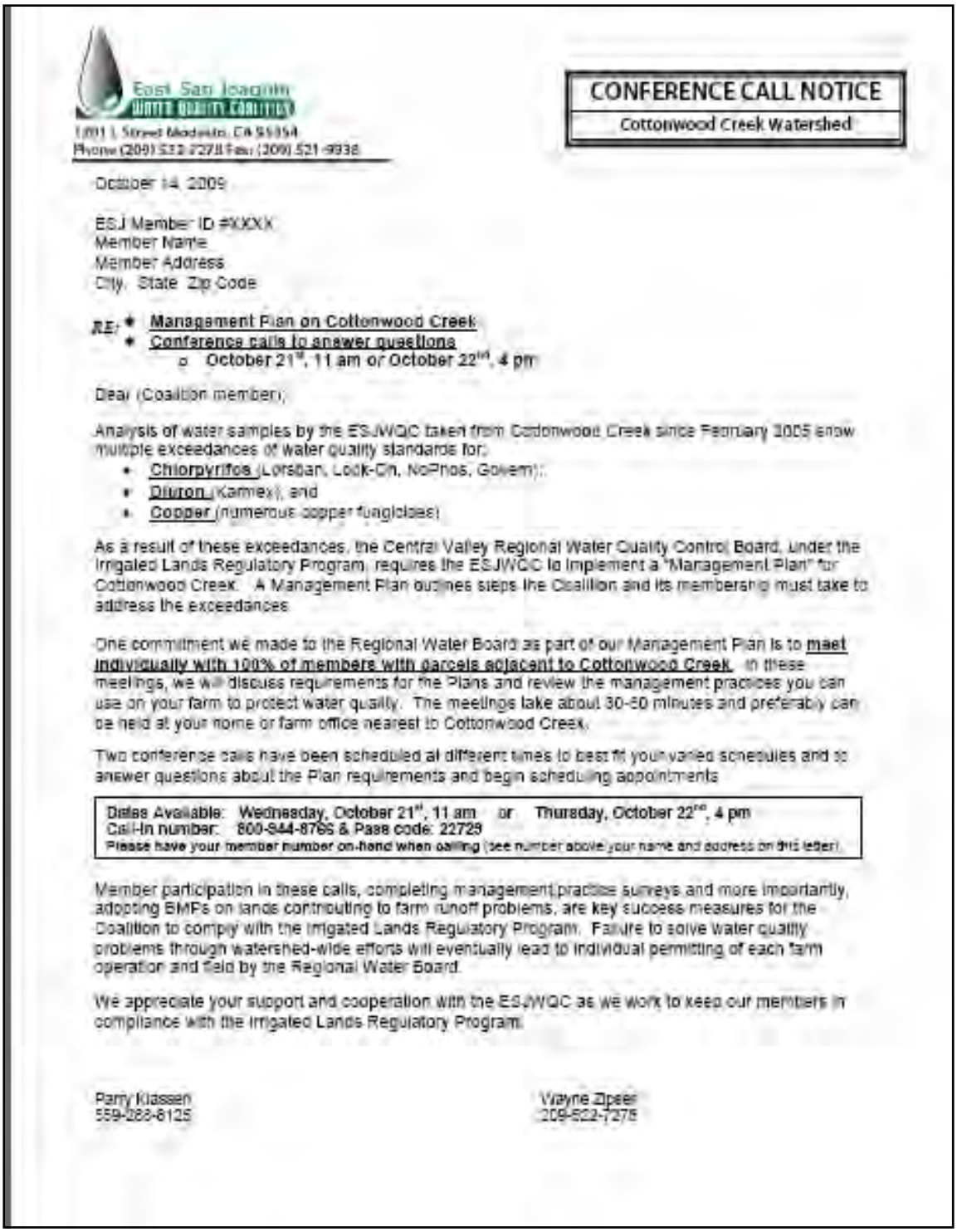
10:30 am	Welcome and Meeting Overview	Parry Klassen *ESJWQC Executive Director*
10:45 am	How Sediment Impairs Local Waterways	Game Warden or Biologist *CA Department of Fish & Game*
11:15 am	Potential Legal Actions by Water Board	Terry Bechtel *Central Valley Regional Water Quality Control Board*
11:30 am	Sediment Containment Best Management Practices	Parry Klassen
11:45 – 12	Open Discussion and Questions	

RSVP to (209) 522-7278

Sponsored by
East San Joaquin Valley Water Quality Coalition
East Stanislaus Resource Conservation District
Natural Resources Conservation Service

October 21 and 22, 2009: Cottonwood Creek Subwatershed Grower Meeting Conference Call

Meeting Announcement



East San Joaquin Water Quality Coalition

[redacted]

CONFERENCE CALL NOTICE
Cottonwood Creek Watershed

October 14, 2009

ESJ Member ID #XXXX
Member Name
Member Address
City, State Zip Code

RE:
- **Management Plan on Cottonwood Creek**
- **Conference calls to answer questions**
  - **October 21st, 11 am** *or* **October 22nd, 4 pm**

Dear (Coalition member),

Analysis of water samples by the ESJWQC taken from Cottonwood Creek since February 2005 show multiple exceedances of water quality standards for:

- **Chlorpyrifos** (Lorsban, Lock-On, NuPhos, Govern);
- **Diuron** (Karmex); and
- **Copper** (numerous copper fungicides)

As a result of these exceedances, the Central Valley Regional Water Quality Control Board, under the Irrigated Lands Regulatory Program, requires the ESJWQC to implement a "Management Plan" for Cottonwood Creek. A Management Plan outlines steps the Coalition and its membership must take to address the exceedances.

One commitment we made to the Regional Water Board as part of our Management Plan is to **meet individually with 100% of members with parcels adjacent to Cottonwood Creek.** In these meetings, we will discuss requirements for the Plans and review the management practices you can use on your farm to protect water quality. The meetings take about 30-60 minutes and preferably can be held at your home or farm office nearest to Cottonwood Creek.

Two conference calls have been scheduled at different times to best fit your varied schedules and to answer questions about the Plan requirements and begin scheduling appointments.

Dates Available: Wednesday, October 21st, 11 am or Thursday, October 22nd, 4 pm
Call-In number: 800-944-8766 & Pass code: 22729
Please have your member number on-hand when calling (see number above your name and address on this letter).

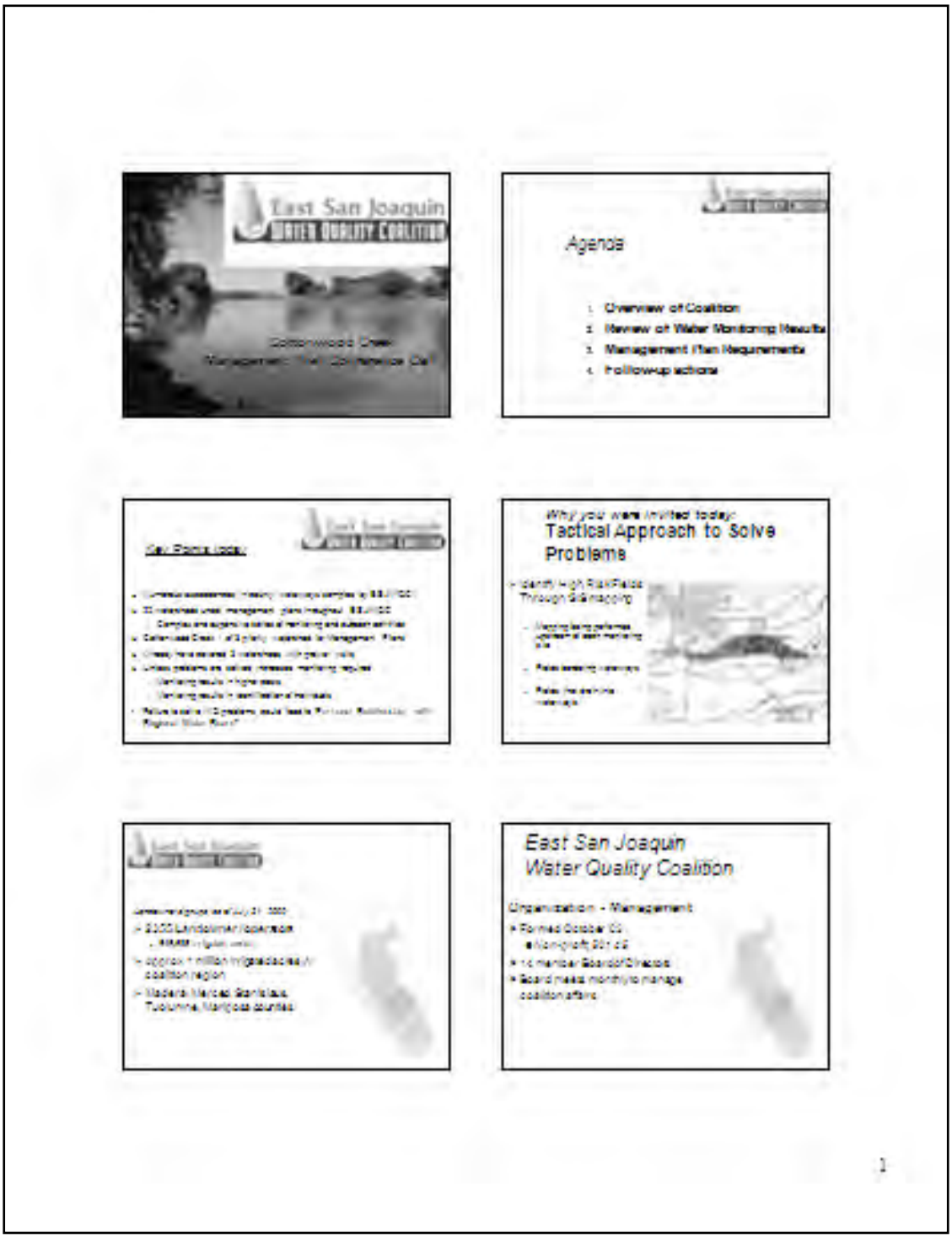
Member participation in these calls, completing management practice surveys and more importantly, adopting BMPs on lands contributing to farm runoff problems, are key success measures for the Coalition to comply with the Irrigated Lands Regulatory Program. Failure to solve water quality problems through watershed-wide efforts will eventually lead to individual permitting of each farm operation and field by the Regional Water Board.

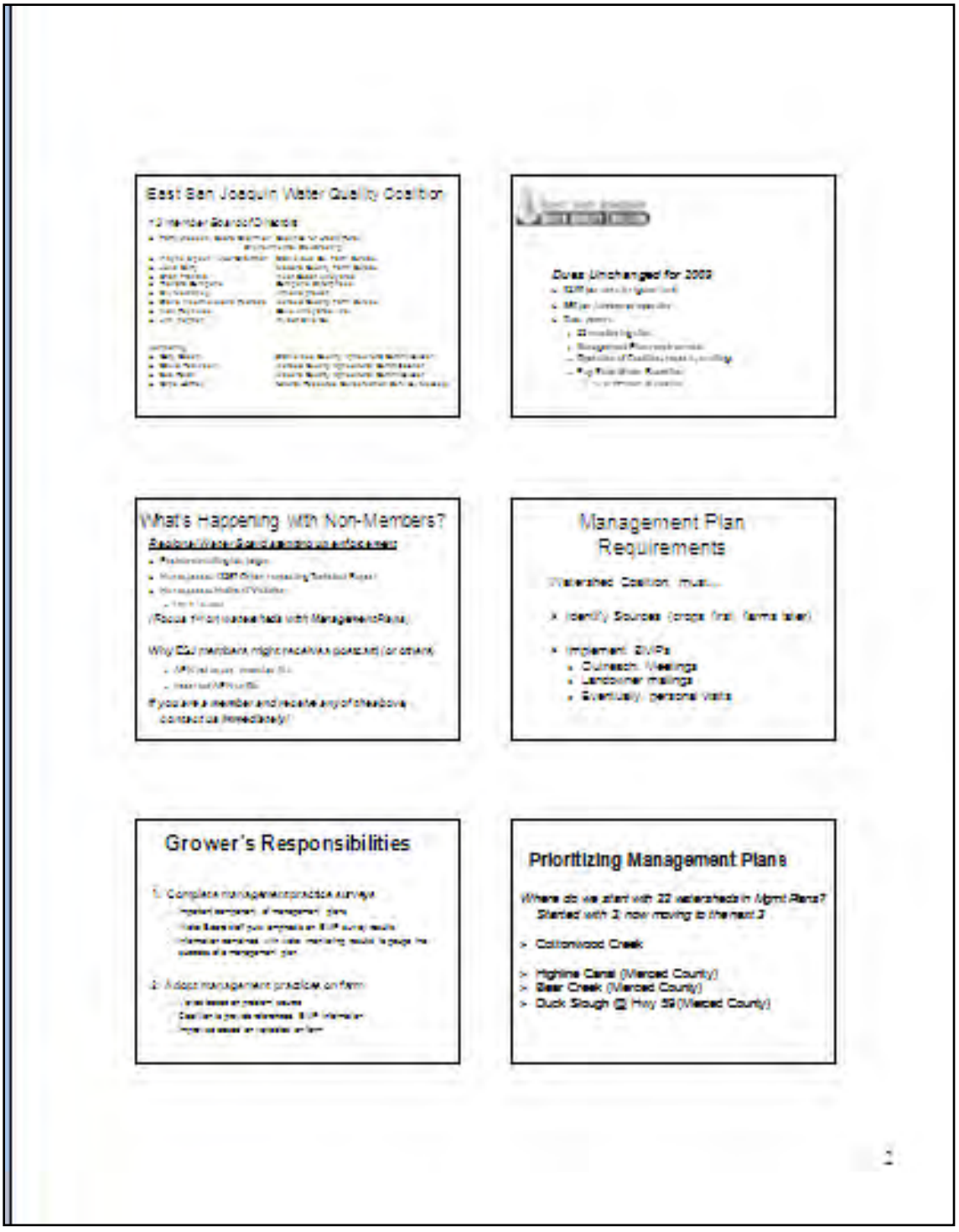
We appreciate your support and cooperation with the ESJWQC as we work to keep our members in compliance with the Irrigated Lands Regulatory Program.

Parry Klassen
559-288-8125

Wayne Zipser
209-522-7275

Meeting Power Point Slides




East San Joaquin Water Quality Coalition
Dues Unchanged for 2009
What's Happening With Non-Members?
Management Plan Requirements
Grower's Responsibilities
Prioritizing Management Plans
Where do we start with 22 watersheds in Mgmt Plans?
Started with 3 now moving to the next 3
Cottonwood Creek
Highline Canal (Merced County)
Bear Creek (Merced County)
Duck Slough @ Hwy 59 (Merced County)

Prioritizing Management Plans

First three priority watersheds

- Visited 54 growers / operations
- Completed survey of farming practices for fields adjacent to waterways
- Only 2 growers refused visits:
  - they were dropped from coalition membership
  - will need to deal with Regional Water Board individually

Cottonwood Creek exceedances

Two or more exceedances
- Chlorpyrifos (2)
- Copper (12)
- Diuron (Karmex) (2) (very large exceedances)

One exceedance
- Simazine (Princep)
- Cyanazine
- Diazinon

Toxicity
- Algae toxicity (2)
- Sediment toxicity (1)
- Fathead minnow toxicity (1)

E coli (12)

Grower's Responsibilities

1. Complete management practice surveys
   - Important component of management plans
   - Water Board staff puts emphasis on BMP survey results
   - Information combined with water monitoring results to gauge the success of a management plan
2. Adopt management practices on farm
   - Varies based on problem source
   - Coalition to provide references BMP information
   - Imperative based on variables on farm

Grower Visits

- We'll set up visits over next two months
  - Myself/Wayne/Julia will make visits
- Should take between 30-60 minutes
- We'll go over management practice surveys
- Discuss potential management practices changes, if needed
- A completed survey summary will be returned for your files
- Results will be compiled on a watershed basis and reported to Regional Water Board

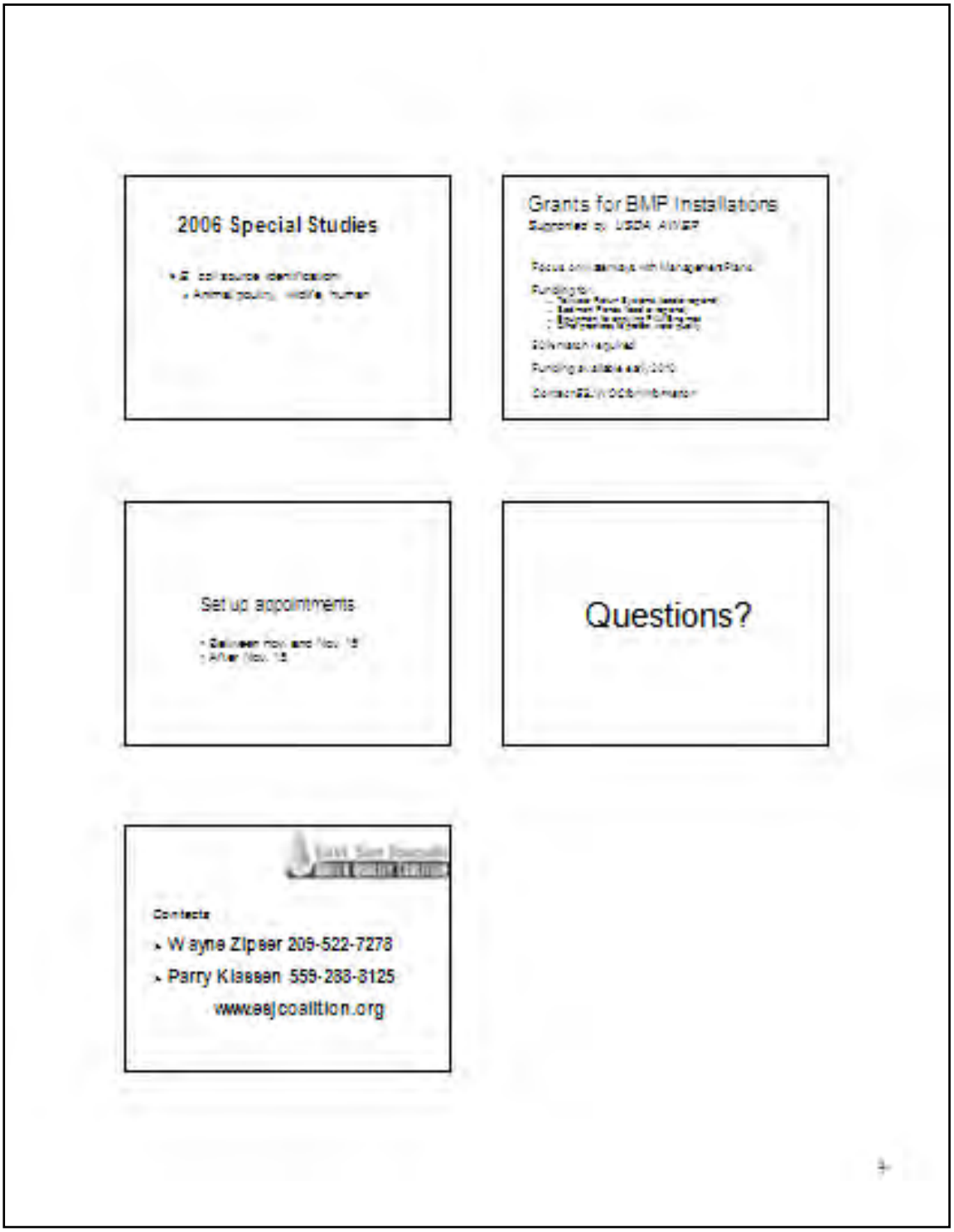
Copper Exceedances

Potential sources
- Fungicide use in tree crops / vegetables
- Dairy cow treatments
- Algae control

Likely transport methods
- Spray drift
- Storm runoff
- Irrigation runoff

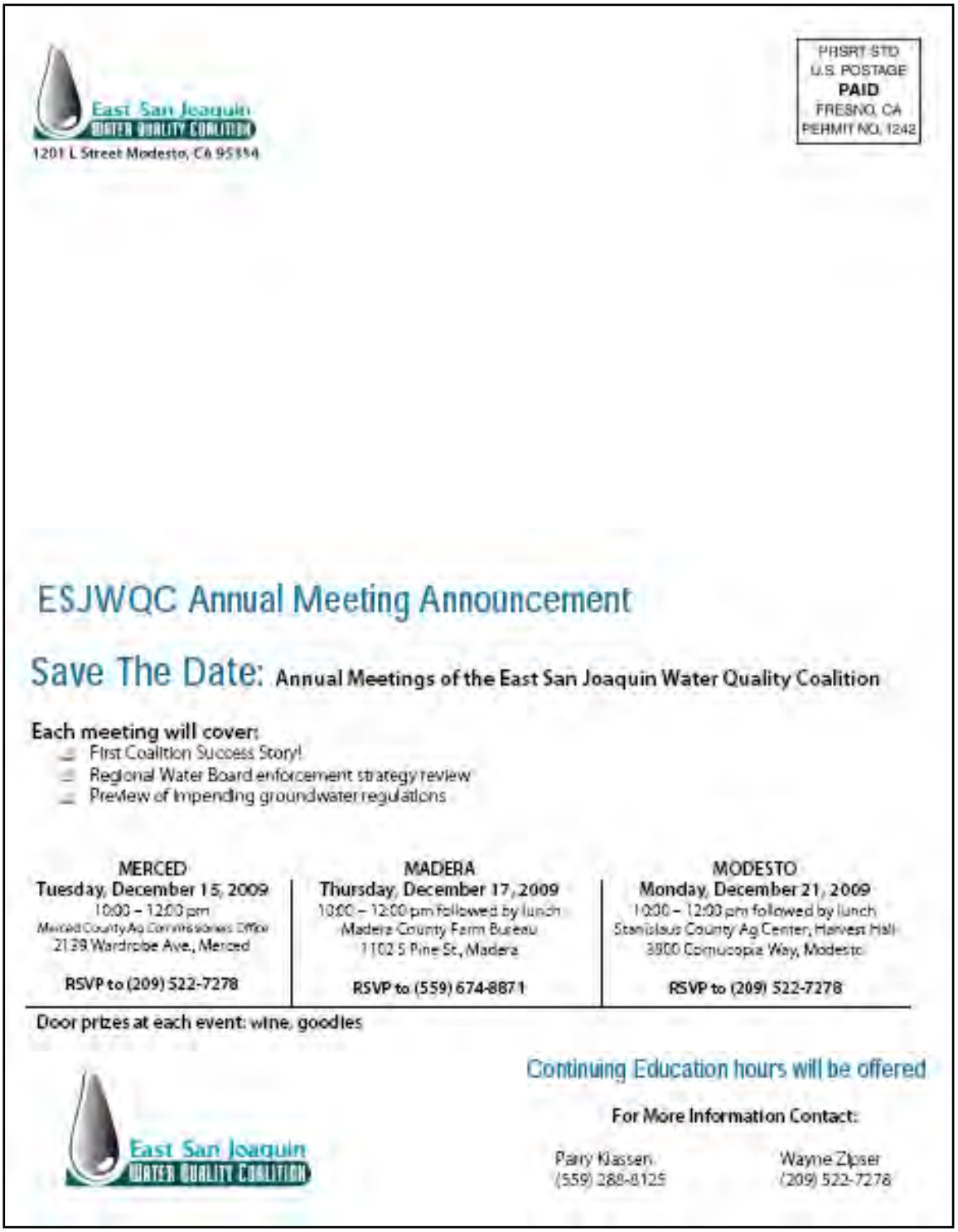
E coli Bacteria

Sources
- Birds
- Reptiles
- Other wild animals
- Leaky sewer lines or septic systems
- Dairy runoff
- Irrigated pasture
- Domestic animals (dogs, cats)
- Manure applied to fields, washed off by rain or irrigation


2006 Special Studies
Grants for BMP Installations
Set up appointments
Questions?
Contacts
Wayne Zipser 209-522-7278
Parry Klassen 559-288-3125
www.esjcoalition.org

December 15, 2009: 2009 Annual Grower Meeting—Merced

Meeting Announcement



East San Joaquin Water Quality Coalition
1201 L Street Modesto, CA 95354

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ESJWQC Annual Meeting Announcement

Save The Date: Annual Meetings of the East San Joaquin Water Quality Coalition

Each meeting will cover:
- First Coalition Success Story!
- Regional Water Board enforcement strategy review
- Preview of impending groundwater regulations

MERCED	MADERA	MODESTO
Tuesday, December 15, 2009	Thursday, December 17, 2009	Monday, December 21, 2009
10:00 – 12:00 pm	10:00 – 12:00 pm followed by lunch	10:00 – 12:00 pm followed by lunch
Merced County Ag Commissioners Office	Madera County Farm Bureau	Stanislaus County Ag Center, Harvest Hall
2139 Wardrobe Ave., Merced	1102 S Pine St., Madera	3800 Cornucopia Way, Modesto
RSVP to (209) 522-7278	RSVP to (559) 674-8871	RSVP to (209) 522-7278

Door prizes at each event: wine, goodies

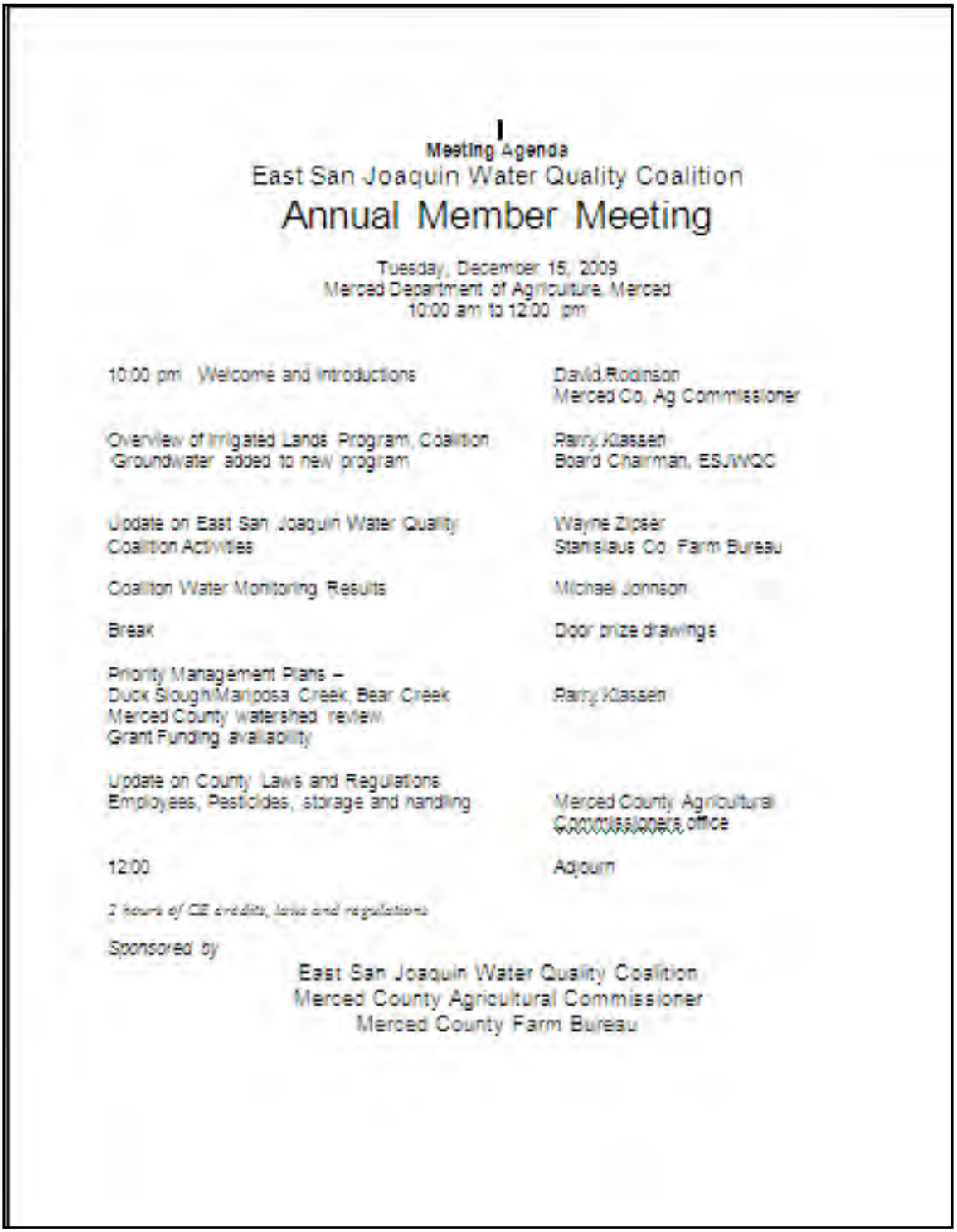
Continuing Education hours will be offered

East San Joaquin Water Quality Coalition

For More Information Contact:

Parry Klassen (559) 288-8125
Wayne Zipser (209) 522-7278

Meeting Agenda



Meeting Agenda

East San Joaquin Water Quality Coalition

Annual Member Meeting

Tuesday, December 15, 2009
Merced Department of Agriculture, Merced
10:00 am to 12:00 pm

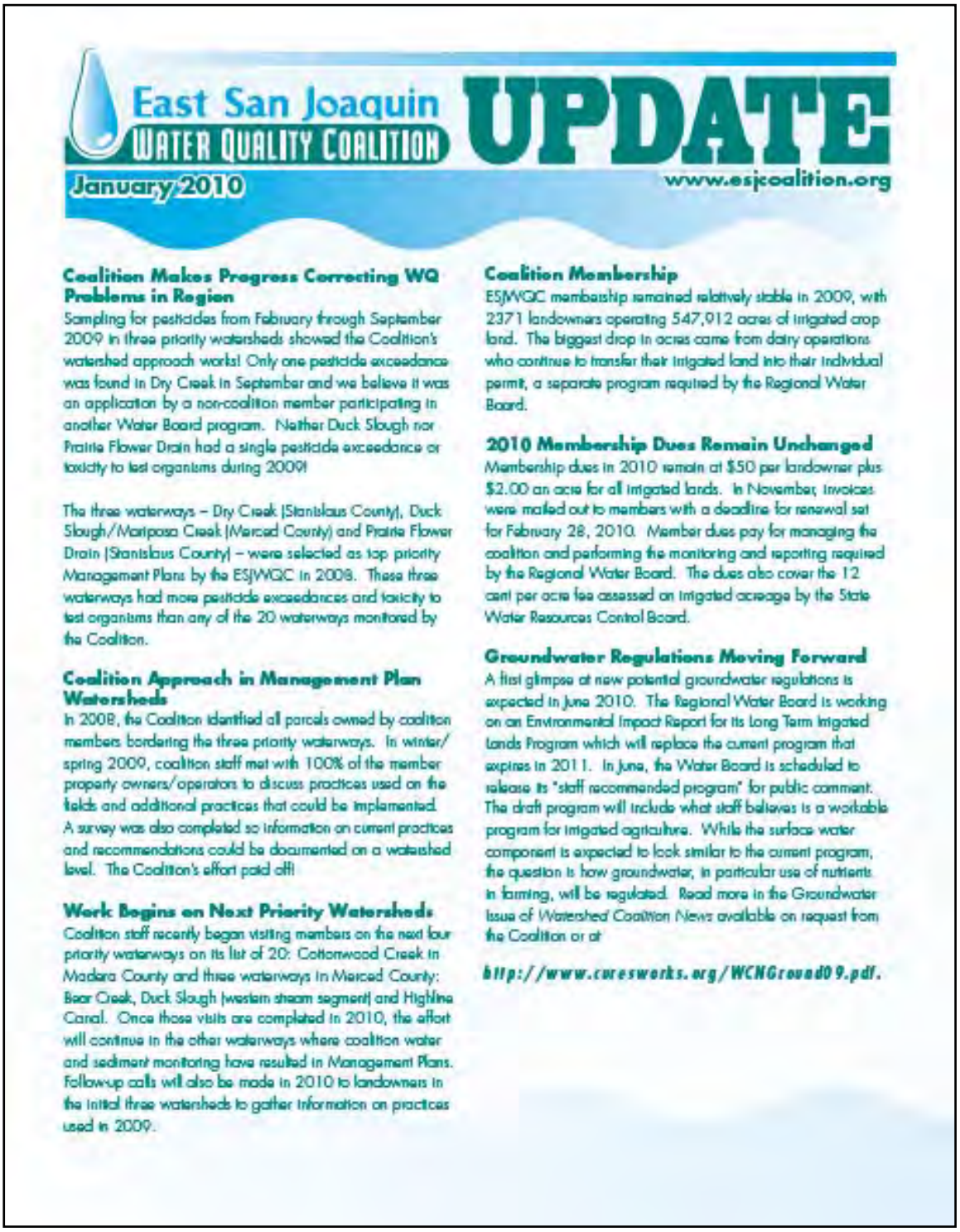
10:00 pm Welcome and Introductions	David Robinson Merced Co. Ag Commissioner
Overview of Irrigated Lands Program, Coalition Groundwater added to new program	Parry Klassen Board Chairman, ESJWQC
Update on East San Joaquin Water Quality Coalition Activities	Wayne Zipser Stanislaus Co Farm Bureau
Coaliton Water Monitoring Results	Michael Johnson
Break	Door prize drawings
Priority Management Plans – Duck Slough/Mariposa Creek, Bear Creek Merced County watershed review Grant Funding availability	Parry Klassen
Update on County Laws and Regulations Employees, Pesticides, storage and handling	Merced County Agricultural Commissioner's office
12:00	Adjourn

2 hours of CE credits, laws and regulations

Sponsored by

East San Joaquin Water Quality Coalition
Merced County Agricultural Commissioner
Merced County Farm Bureau

Newsletter



East San Joaquin Water Quality Coalition

UPDATE

January 2010

www.esjcoalition.org

Coalition Makes Progress Correcting WQ Problems in Region

Sampling for pesticides from February through September 2009 in three priority watersheds showed the Coalition's watershed approach works! Only one pesticide exceedance was found in Dry Creek in September and we believe it was an application by a non-coalition member participating in another Water Board program. Neither Duck Slough nor Prairie Flower Drain had a single pesticide exceedance or toxicity to test organisms during 2009!

The three waterways – Dry Creek (Stanislaus County), Duck Slough/Mariposa Creek (Merced County) and Prairie Flower Drain (Stanislaus County) – were selected as top priority Management Plans by the ESJWQC in 2008. These three waterways had more pesticide exceedances and toxicity to test organisms than any of the 20 waterways monitored by the Coalition.

Coalition Approach in Management Plan Watersheds

In 2008, the Coalition identified all parcels owned by coalition members bordering the three priority waterways. In winter/spring 2009, coalition staff met with 100% of the member property owners/operators to discuss practices used on the fields and additional practices that could be implemented. A survey was also completed so information on current practices and recommendations could be documented on a watershed level. The Coalition's effort paid off!

Work Begins on Next Priority Watersheds

Coalition staff recently began visiting members on the next four priority waterways on its list of 20: Cottonwood Creek in Madera County and three waterways in Merced County: Bear Creek, Duck Slough (western stream segment) and Highline Canal. Once those visits are completed in 2010, the effort will continue in the other waterways where coalition water and sediment monitoring have resulted in Management Plans. Follow-up calls will also be made in 2010 to landowners in the initial three watersheds to gather information on practices used in 2009.

Coalition Membership

ESJWQC membership remained relatively stable in 2009, with 2371 landowners operating 547,912 acres of irrigated crop land. The biggest drop in acres came from dairy operations who continue to transfer their irrigated land into their individual permit, a separate program required by the Regional Water Board.

2010 Membership Dues Remain Unchanged

Membership dues in 2010 remain at $50 per landowner plus $2.00 an acre for all irrigated lands. In November, invoices were mailed out to members with a deadline for renewal set for February 28, 2010. Member dues pay for managing the coalition and performing the monitoring and reporting required by the Regional Water Board. The dues also cover the 12 cent per acre fee assessed on irrigated acreage by the State Water Resources Control Board.

Groundwater Regulations Moving Forward

A first glimpse at new potential groundwater regulations is expected in June 2010. The Regional Water Board is working on an Environmental Impact Report for its Long Term Irrigated Lands Program which will replace the current program that expires in 2011. In June, the Water Board is scheduled to release its "staff recommended program" for public comment. The draft program will include what staff believes is a workable program for irrigated agriculture. While the surface water component is expected to look similar to the current program, the question is how groundwater, in particular use of nutrients in farming, will be regulated. Read more in the Groundwater issue of Watershed Coalition News available on request from the Coalition or at

http://www.cuesworks.org/WCNGround09.pdf.

East San Joaquin Water Quality Coalition **UPDATE**

January 2010 www.esjcoalition.org

2009 Annual Report Mailed in December

The Coalition Annual Member Report is being mailed out in mid to late December. The annual report includes water and sediment monitoring results from 2009 plus information on the sites collected since the Coalition began sampling in 2005 or when the site was added to the list. Extra copies can be ordered by contacting us at www.esjcoalition.org. Electronic versions of the current and past reports can be read or downloaded from the Members Only section of the website. The password is ESJwater.

Coalition Board Seeking New Members

The coalition is seeking members who are interested in participating on the Board of Directors. The Board manages Coalition affairs and typically meets every four to six weeks. Anyone interested can contact us through the website or by calling the numbers at the end of this newsletter. Currently, the Board Chairman and Executive Director is Parry Klassen, a fruit grower and also Executive Director of the Coalition for Urban/Rural Environmental Stewardship (CURES).

Board members include:

- Julia D. Berry, Madera County Farm Bureau
- Brian Franzia, West Coast Grape Farming, Inc.
- Richard Gemperle, Gemperle Enterprises
- Bill McKinney, almond grower
- Alan Reynolds, Gallo Vineyards, Inc.
- Jim Wagner, Wilbur-Ellis Co.
- Wayne Zipser, Stanislaus Co. Farm Bureau

Non-Voting members

- Gary Casari, Stanislaus County Agricultural Commissioner
- Christopher Hartley, Natural Resources Conservation Service, Modesto
- David Robinson, Merced County Agricultural Commissioner
- Bob Rolan, Madera County Agricultural Commissioner

Coalition Goals

- To operate an efficient, economical program that enables members to be in compliance with the Irrigated Lands Regulatory Program. (ILRP)
- File required reports with the Central Valley Regional Water Quality Control Board (Regional Board) to maintain ILRP coverage for Coalition members.
- Implement an economical and scientifically valid water monitoring program for area rivers and agricultural drains (as required by the ILRP).
- Spread costs equitably among owner/operators who are Coalition members.
- Communicate to landowners where water monitoring indicates problems and work to solve those problems.

Coalition Membership Responsibility

The individual members of the Coalition are ultimately responsible for the success of ESJWQC. Failure of the Coalition to meet deadlines, implement the proper monitoring programs or work to correct water quality problems would mean that individual land owners would be responsible for fulfilling those requirements. While Stanislaus County Farm Bureau and CURES representatives signed the notice of intent for the Coalition, it is the Coalition participants who are ultimately responsible for participating in Coalition activities, paying their fair share of all costs to carry out the Irrigated Lands Regulatory Program and participating in efforts to solve problems identified through water monitoring.

East San Joaquin Water Quality Coalition contacts:

Parry Klassen, CURES: 559-288-8125

Wayne Zipser, Stanislaus County Farm Bureau: 209-522-7278

East San Joaquin Water Quality Coalition

ESJ Water Quality Coalition
1201 L Street
Modesto, CA 95354

www.esjcoalition.org

Annual Report Letter

East San Joaquin Water Quality Coalition

1201 I Street, Modesto, CA 95354
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December 23, 2009

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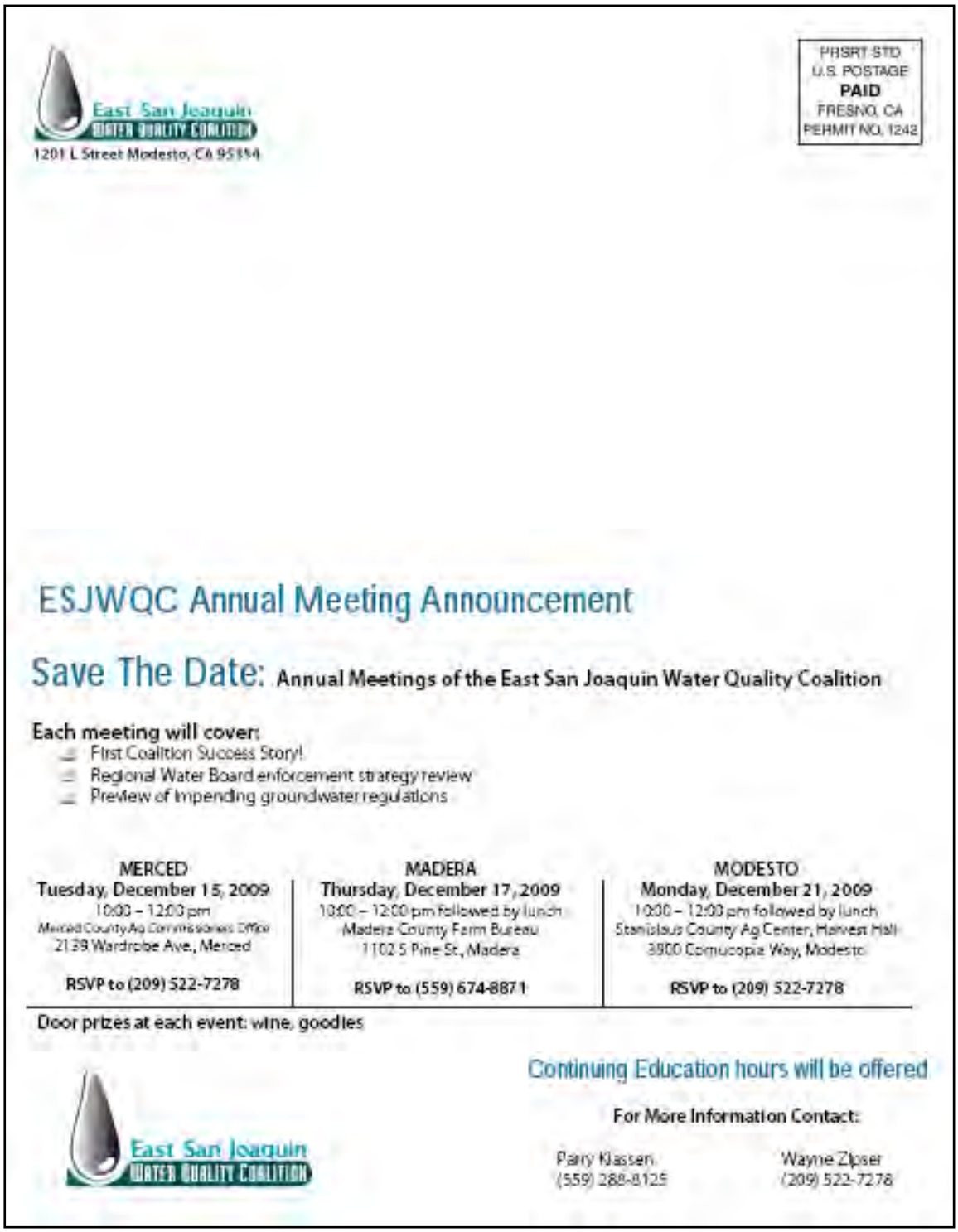
Sincerely,

Parry Klassen
Executive Director
559-646-2224

Wayne Zipser
Co-Chairman
209-522-727

December 17, 2009: 2009 Annual Grower Meeting—Madera

Meeting Announcement



East San Joaquin
WATER QUALITY COALITION
1201 L Street Modesto, CA 95354

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ESJWQC Annual Meeting Announcement

Save The Date: Annual Meetings of the East San Joaquin Water Quality Coalition

Each meeting will cover:
- First Coalition Success Story!
- Regional Water Board enforcement strategy review
- Preview of impending groundwater regulations

MERCED	MADERA	MODESTO
Tuesday, December 15, 2009	Thursday, December 17, 2009	Monday, December 21, 2009
10:00 – 12:00 pm	10:00 – 12:00 pm followed by lunch	10:00 – 12:00 pm followed by lunch
Merced County Ag Commissioners Office 2139 Wardrobe Ave., Merced	Madera County Farm Bureau 1102 S Pine St., Madera	Stanislaus County Ag Center, Harvest Hall 3800 Cornucopia Way, Modesto
RSVP to (209) 522-7278	RSVP to (559) 674-8871	RSVP to (209) 522-7278

Door prizes at each event: wine, goodies

Continuing Education hours will be offered

East San Joaquin
WATER QUALITY COALITION

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Meeting Agenda

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East San Joaquin Water Quality Coalition

Annual Meeting

Thursday, December 17, 2009
Madera County Farm Bureau, Madera
10:00 pm to 12:00 pm; lunch following

10:00 pm Welcome and Introductions	Julia Berry Madera County Farm Bureau
Overview of Irrigated Lands Program; Coalition Status: Groundwater added to new program	Rarry Klassen Board Chairman, ESJWQC
Update on East San Joaquin Water Quality Coalition Activities	Wayne Zipser Stanislaus Co. Farm Bureau
Coalition Water Monitoring Results	Michael Johnson
Break	Door prize drawings
Priority Management Plans – Cottonwood Creek grower visits, BMP surveys Grant Funding availability	Rarry Klassen
Update on County Laws and Regulations Employees, Pesticides, storage and handling	Madera County Agricultural Commissioners office
Rarry Klassen Julia Berry	Question and answer session
12:00	Hosted Lunch

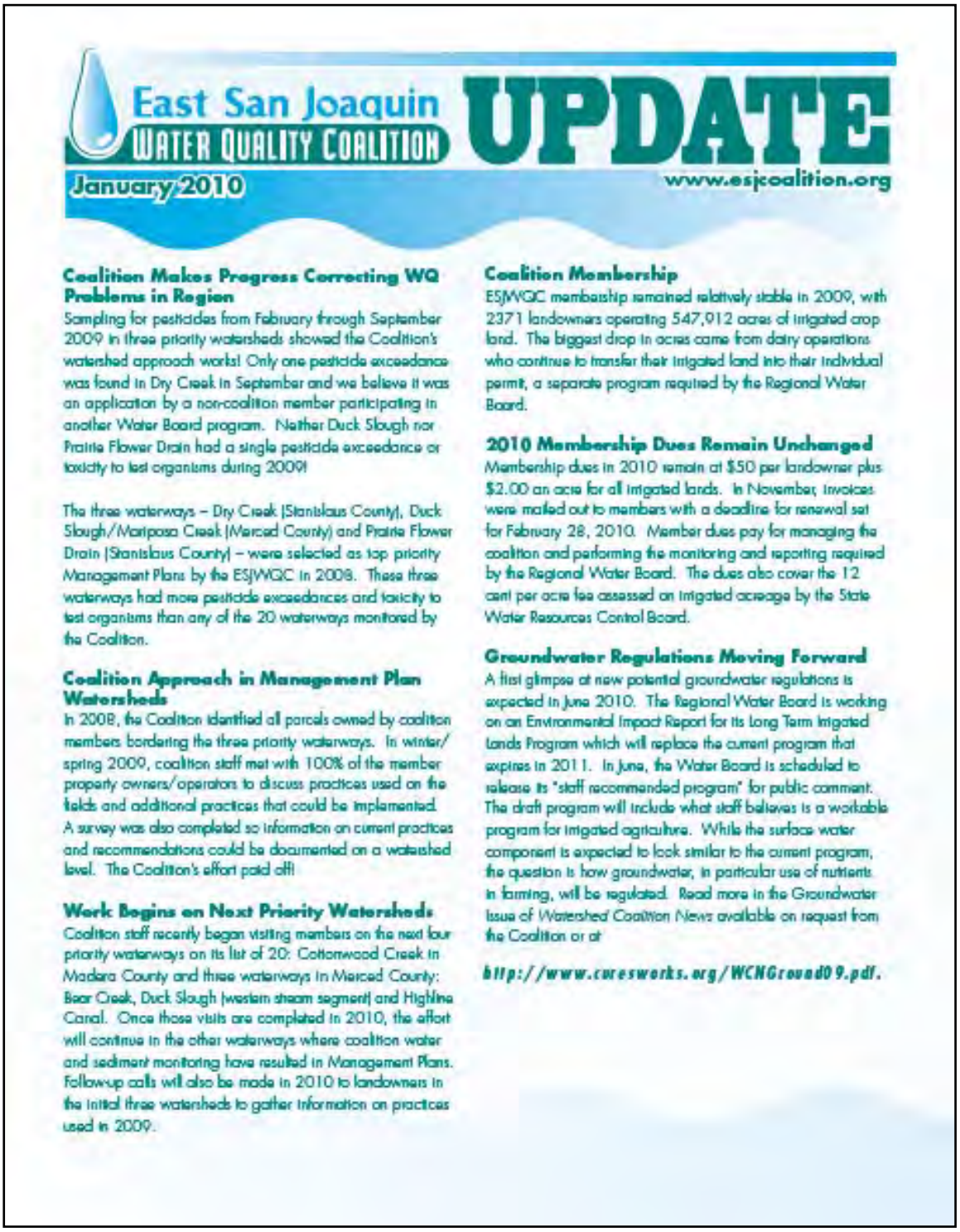
2 hours of CE credits, laws and regulations, have been applied for.

* Please RSVP to 209-522-7276

Sponsored by

East San Joaquin Water Quality Coalition
Madera County Agricultural Commissioner
Madera County Farm Bureau

Newsletter



East San Joaquin Water Quality Coalition

UPDATE

January 2010

www.esjcoalition.org

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Board members include:

- Julia D. Berry, Madera County Farm Bureau
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- Richard Gemperle, Gemperle Enterprises
- Bill McKinney, almond grower
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- Jim Wagner, Wilbur-Ellis Co.
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- Christopher Hartley, Natural Resources Conservation Service, Modesto
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Executive Director
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Wayne Zipser
Co-Chairman
209-522-727

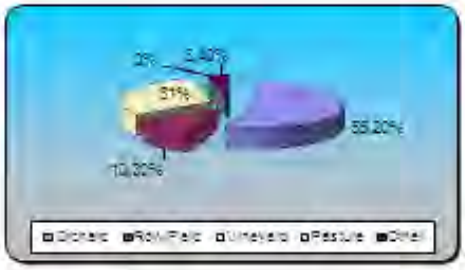
Meeting Interactive Audience Survey Results

Turning Graphical Results by Question

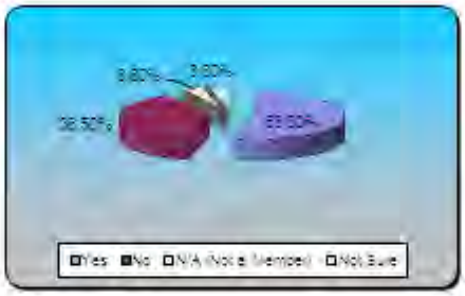
Session Name: Madera Annual Meeting 121609

Created: 12/17/2009 2:47 PM

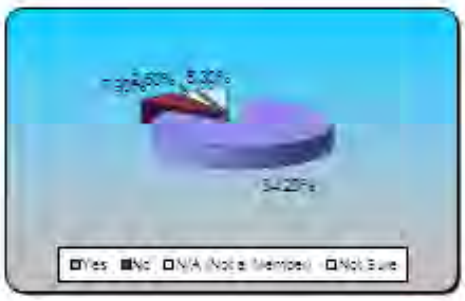
1.) What is your major crop? (select one)	Responses	
Orchard	16	55.17%
Row/Field	3	10.34%
Vineyard	9	31.03%
Pasture	0	0%
Other	1	3.45%
Totals	29	100%



2.) Would you be willing to substitute a conference call for a meeting?	Responses	
Yes	14	53.85%
No	10	38.46%
N/A (Not a Member)	1	3.85%
Not Sure	1	3.85%
Totals	26	100%

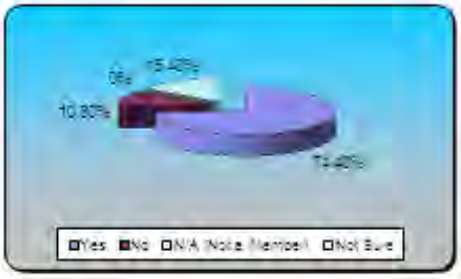


3.) Do you think it is fair charging new members back dues for all irrigated acreage they have operated since the inception of the Coalition?	Responses	
Yes	32	84.21%
No	3	7.89%
N/A (Not a Member)	1	2.63%
Not Sure	2	5.26%
Totals	38	100%



4.) Have you received your 2010 Membership Renewal Invoice?

	Responses	
Yes	29	74.36%
No	4	10.26%
N/A (Not a Member)	0	0%
Not Sure	6	15.38%
Totals	39	100%



5.) Has the purpose of the Coalition been explained to you adequately?

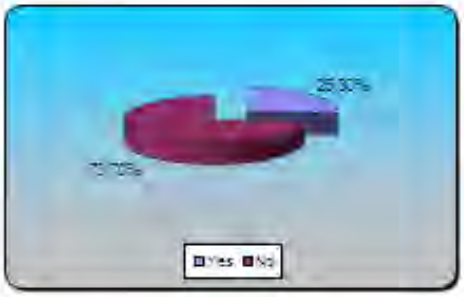
	Responses	
Yes	33	78.57%
No	8	19.05%
N/A (Not a Member)	1	2.38%
Totals	42	100%

6.) Is your property located in one of the priority subwatersheds listed below?

	Responses	
Ash Slough	4	16.67%
Berenda Slough	5	20.83%
Cottonwood Creek	11	45.83%
Dry Creek	4	16.67%
Totals	24	100%

7.) Do we need to better explain management plans?

	Responses	
Yes	10	26.32%
No	28	73.68%
Totals	38	100%

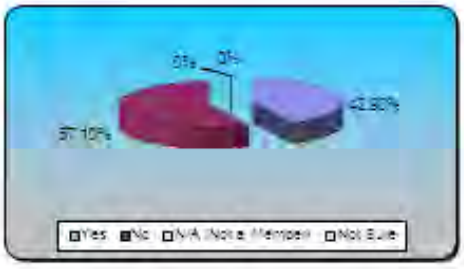


8.) Would you like regular water monitoring results for the watershed where you are located?

	Responses	
Yes	15	36.59%
No	23	56.10%
N/A (Not a Member)	1	2.44%
Not Sure	2	4.88%
Totals	41	100%

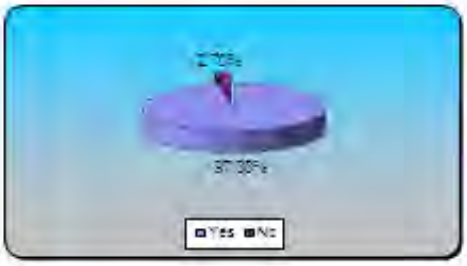
9.) Are you interested in more information on AVEP funding?

	Responses	
Yes	15	42.86%
No	20	57.14%
N/A (Not a Member)	0	0%
Not Sure	0	0%
Totals	35	100%



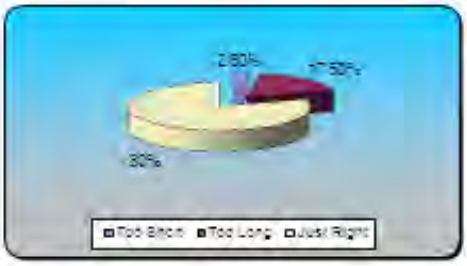
10.) Did you find this meeting useful?

	Responses	
Yes	36	97.30%
No	1	2.70%
Totals	37	100%



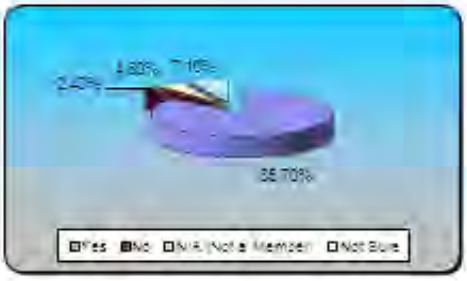
11.) The length of this meeting was_

	Responses	
Too Short	1	2.50%
Too Long	7	17.50%
Just Right	32	80%
Totals	40	100%



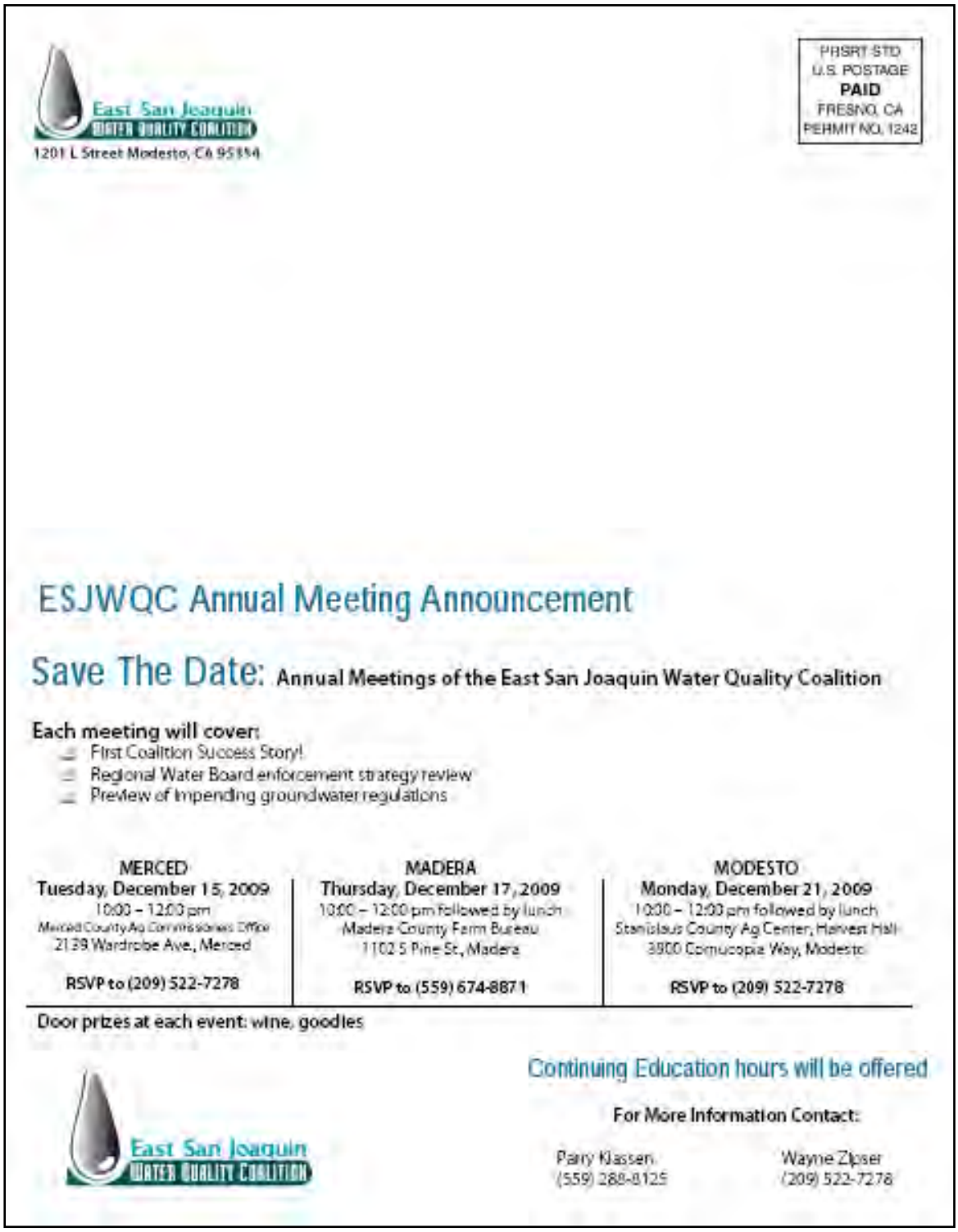
12.) Are you happy with the Coalition's Performance?

	Responses	
Yes	36	85.71%
No	1	2.38%
N/A (Not a Member)	2	4.76%
Not Sure	3	7.14%
Totals	42	100%



December 21, 2009: 2009 Annual Grower Meeting—Stanislaus

Meeting Announcement



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Meeting Agenda

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East San Joaquin Water Quality Coalition

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Overview of Irrigated Lands Program, Coalition Groundwater added to new program	Parry Klassen Board Chairman, ESJWQC
Gary Caseri	Ag Commissioner, Stanislaus County
Update on East San Joaquin Water Quality Coalition Activities	Wayne Zipser Stanislaus Co. Farm Bureau
Coaliton Water Monitoring Results	Michael Johnson
Break	Door prize drawings
Priority Management Plans – Dry Creek, Prairie Flower Drain; Program results BMPs for water quality Grant Funding availability	Parry Klassen
12:00	Lunch: Sponsored by ESJWQC

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Sponsored by

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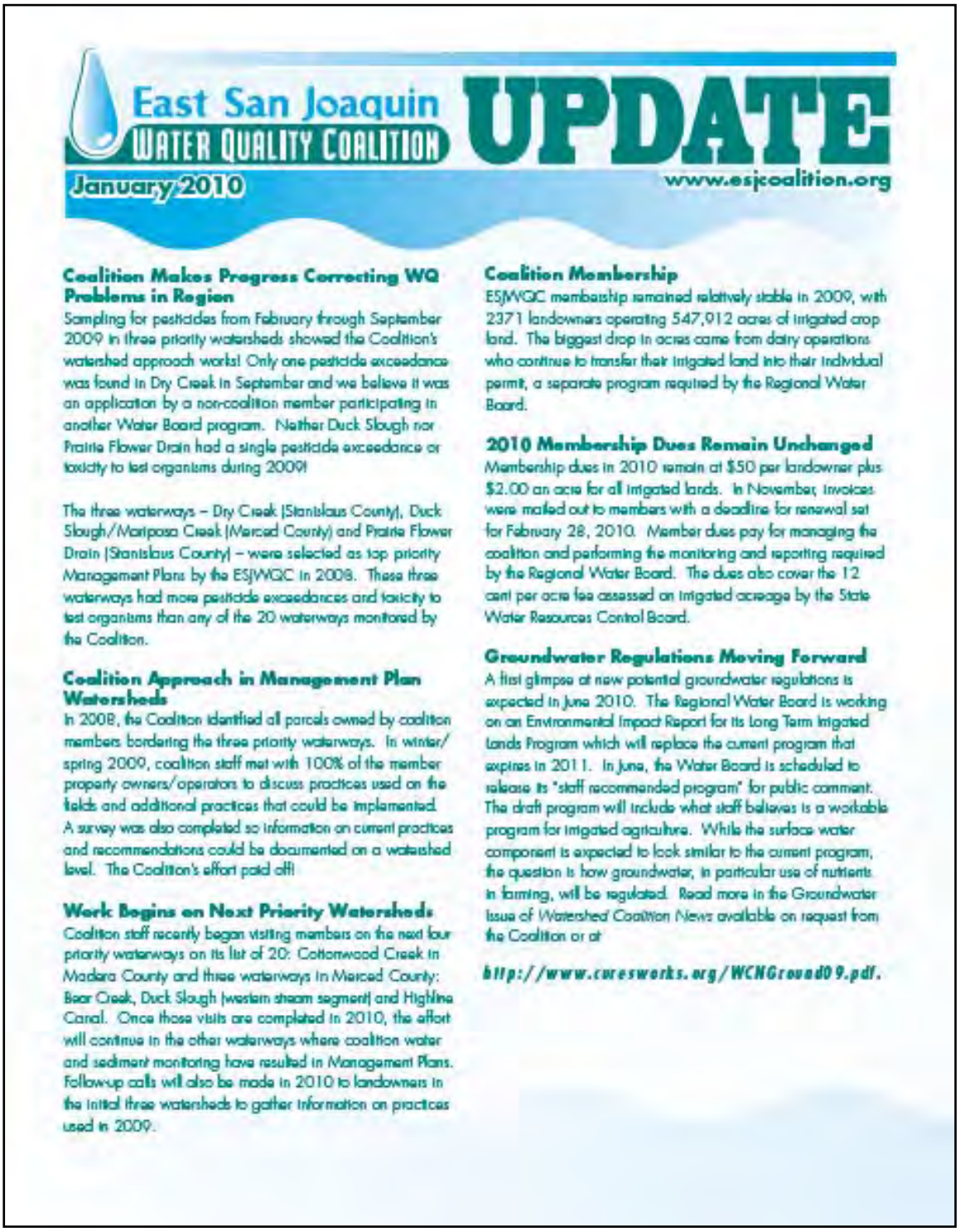
Newsletter



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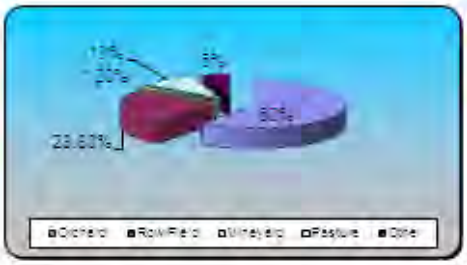
Meeting Interactive Audience Survey Results

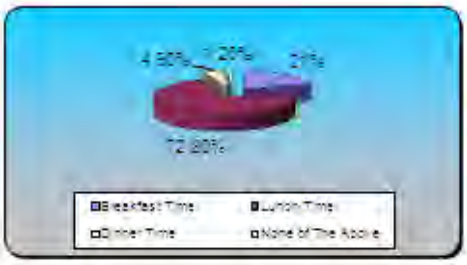
Turning Graphical Results by Question

Session Name: Modesto Session Annual 12-21-2009 12-03 PM
Created: 12/23/2009 10:48 AM

1.) What is your major crop? (select one)	Responses	
Orchard	48	60%
Row/Field	19	23.75%
Vineyard	1	1.25%
Pasture	8	10%
Other	4	5%
Totals	**80**	**100%**



2.) What Time is Best For Coalition Meetings?	Responses	
Breakfast Time	17	20.99%
Lunch Time	59	72.84%
Dinner Time	4	4.94%
None of The Above	1	1.23%
Totals	**81**	**100%**



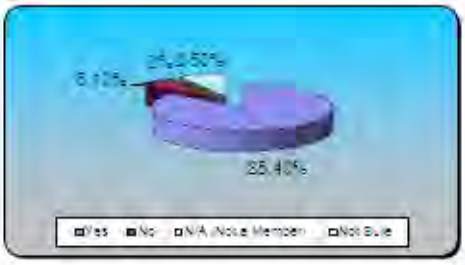
3.) Would you talk to a reporter about the Coalition's and your efforts to protect water quality?	Responses	
Yes	12	16%
No	32	42.67%
Yes with Ag Reporter (Not Mainstream Reporter...	11	14.67%
Maybe, I Would Like More Details	20	26.67%
Totals	**75**	**100%**

4.) Which Team Will Win The Super Bowl?

	Responses	
New Orleans Saints	7	8.54%
Indianapolis Colts	22	26.83%
Minnesota Vikings	6	7.32%
Arizona Cardinals	1	1.22%
None of The Above	7	8.54%
Don't Give A D***!	39	47.56%
Totals	**82**	**100%**

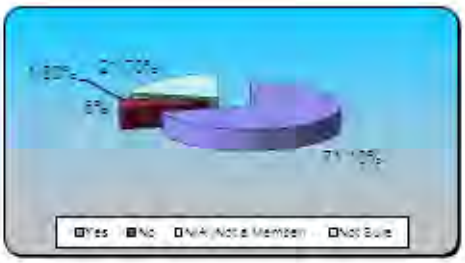
5.) Do you think it is fair charging new members back dues for all irrigated acreage they have operated since the inception of the Coalition?

	Responses	
Yes	70	85.37%
No	5	6.10%
N/A (Not a Member)	0	0%
Not Sure	7	8.54%
Totals	**82**	**100%**



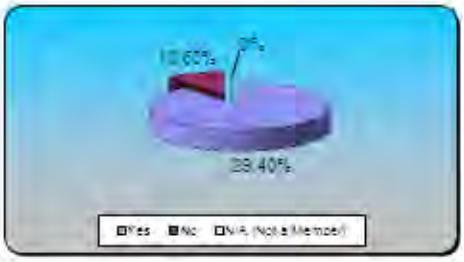
6.) Have you received your 2010 Membership Renewal Invoice?

	Responses	
Yes	59	71.08%
No	5	6.02%
N/A (Not a Member)	1	1.20%
Not Sure	18	21.69%
Totals	**83**	**100%**



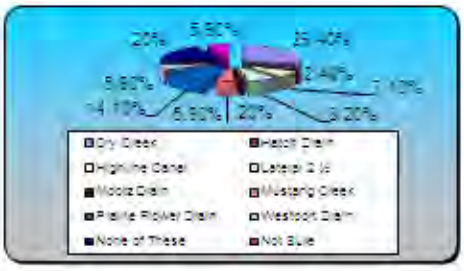
7.) Has the purpose of the Coalition been explained to you adequately?

	Responses	
Yes	76	89.41%
No	9	10.59%
N/A (Not a Member)	0	0%
Totals	**85**	**100%**



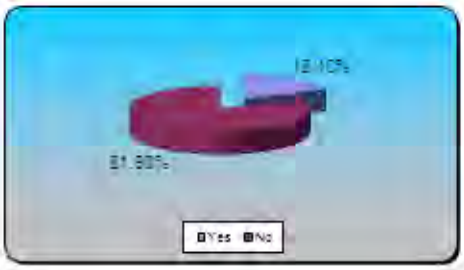
8.) Which waterway is your property closest to?

	Responses	
Dry Creek	25	29.41%
Hatch Drain	2	2.35%
Highline Canal	6	7.06%
Lateral 2 ½	7	8.24%
Mootz Drain	1	1.18%
Mustang Creek	5	5.88%
Prairie Flower Drain	12	14.12%
Westport Drain	5	5.88%
None of These	17	20%
Not Sure	5	5.88%
Totals	**85**	**100%**



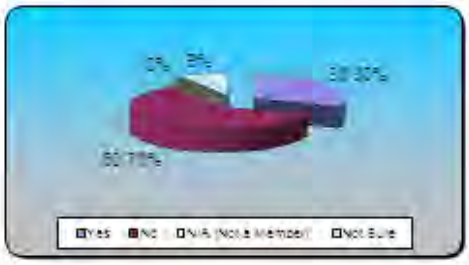
9.) Do we need to better explain management plans?

	Responses	
Yes	15	18.07%
No	68	81.93%
Totals	**83**	**100%**



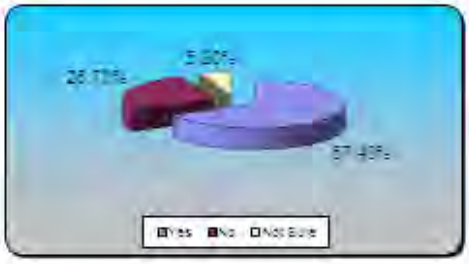
10.) Would you like regular water monitoring results for the watershed where you are located?

	Responses	
Yes	27	30.34%
No	54	60.67%
N/A (Not a Member)	0	0%
Not Sure	8	8.99%
Totals	**89**	**100%**



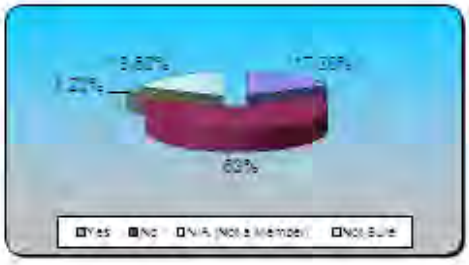
11.) Should the Coalition develop a drift management seminar in Spanish for sprayer operators?

	Responses	
Yes	58	67.44%
No	23	26.74%
Not Sure	5	5.81%
Totals	**86**	**100%**

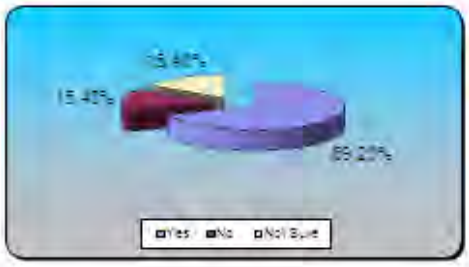


12.) Are you interested in more information on AVEP funding?

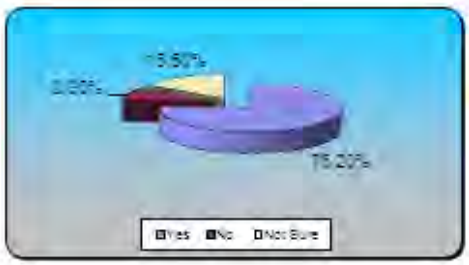
	Responses	
Yes	14	17.28%
No	51	62.96%
N/A (Not a Member)	1	1.23%
Not Sure	15	18.52%
Totals	**81**	**100%**



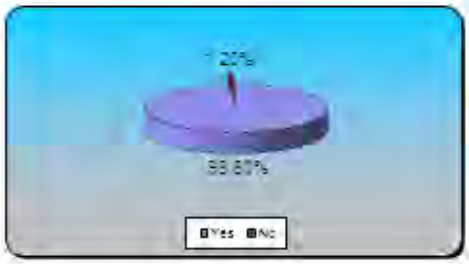
13.) Should the Coalition add ground water to its responsibilities?	Responses	
Yes	18	69.23%
No	4	15.38%
Not Sure	4	15.38%
Totals	**26**	**100%**



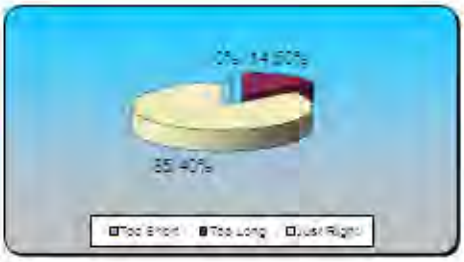
14.) Should the Coalition add ground water to its responsibilities?	Responses	
Yes	64	76.19%
No	7	8.33%
Not Sure	13	15.48%
Totals	**84**	**100%**



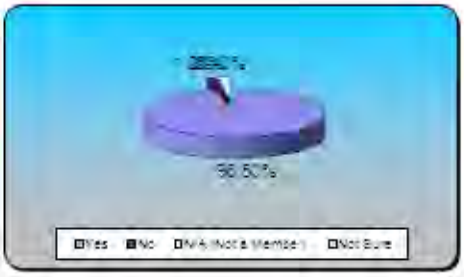
15.) Did you find this meeting useful?	Responses	
Yes	85	98.84%
No	1	1.16%
Totals	**86**	**100%**



16.) The length of this meeting was_	Responses	
Too Short	0	0%
Too Long	12	14.63%
Just Right	70	85.37%
Totals	**82**	**100%**



17.) Are you happy with the Coalition's Performance?	Responses	
Yes	82	96.47%
No	1	1.18%
N/A (Not a Member)	0	0%
Not Sure	2	2.35%
Totals	**85**	**100%**



Appendix VIII
Land Use Maps and
2009 Annual Site Photos

Table of Contents

545XASAAT - Ash Slough @ Ave 21 3
545XCCART - Cottonwood Creek @ Rd 20 5
535XDCAGR – Deadman Creek @ Gurr Rd 7
535XDMCAHF – Deadman Creek @ Hwy 59 9
535DCAORD – Dry Creek @ Oakdale Rd 11
535XDCWF – Dry Creek @ Waterford Rd 13
535XDCAWR - Dry Creek @ Wellsford Rd 15
535XDSAGR - Duck Slough @ Gurr Rd 17
535XDSAHN - Duck Slough @ Hwy 99 19
535XHCALR - Highline Canal @ Lombardy Ave 21
535XHCHNN - Highline Canal @ Hwy 99 23
535XHDACA – Hilmar Drain @ Central Ave 25
535XHLAHO – Howard Lateral @ Hwy 140 27
535LTHNKR – Lateral 2 ½ near Keyes Rd 29
535XMRSFD- Merced River @ Santa Fe Rd 31
535XMCARR - Miles Creek @ Reilly Rd 33
535XMDALR – Mootz Drain @ Langworth Rd 35
535XMDDLP – Mootz Drain downstream of Langworth Pond 37
535XMCAEA – Mustang Creek @ East Ave 39
535XPFDCL – Prairie Flower Drain @ Crows Landing 41

Adminsitrative Record
Page 17945

Table of Figures

Figure 1. Site subwatershed land use map – Ash Slough @ Ave 21. 4
Figure 2. Site subwatershed land use map – Cottonwood Creek @ Rd 20. 6
Figure 3. Site subwatershed land use map – Deadman Creek @ Gurr Rd. 8
Figure 4. Site subwatershed land use map – Deadman Creek @ Hwy 59. 10
Figure 5. Site subwatershed land use map – Dry Creek @ Oakdale Rd. 12
Figure 6. Site subwatershed land use map – Dry Creek @ Waterford Rd. 14
Figure 7. Site subwatershed land use map – Dry Creek @ Wellsford Rd. 16
Figure 8. Site subwatershed land use map – Duck Slough @ Gurr Rd. 18
Figure 9. Site subwatershed land use map – Duck Slough @ Hwy 99. 20
Figure 10. Site subwatershed land use map – Highline Canal @ Lombardy Rd. 22
Figure 11. Site subwatershed land use map – Highline Canal @ Hwy 99. 24
Figure 12. Site subwatershed land use map – Hilmar Drain @ Central Ave. 26
Figure 13. Site subwatershed land use map – Howard Lateral @ Hwy 140. 28
Figure 14. Site subwatershed land use map – Lateral 2 ½ Near Keyes Rd. 30
Figure 15. Site subwatershed land use map – Merced River @ Santa Fe. 32
Figure 16. Site subwatershed land use map – Miles Creek @ Reilly Rd. 34
Figure 17. Site subwatershed land use map – Mootz Drain @ Langworth Rd. 36
Figure 18. Site subwatershed land use map – Mootz Drain downstream of Langworth Pond. 38
Figure 19. Site subwatershed land use map – Mustang Creek @ East Ave. 40
Figure 20. Site subwatershed land use map - Prairie Flower Drain @ Crows Landing Rd. 42

Adminsitrative Record
Page 17946

545XASAAT - Ash Slough @ Ave 21

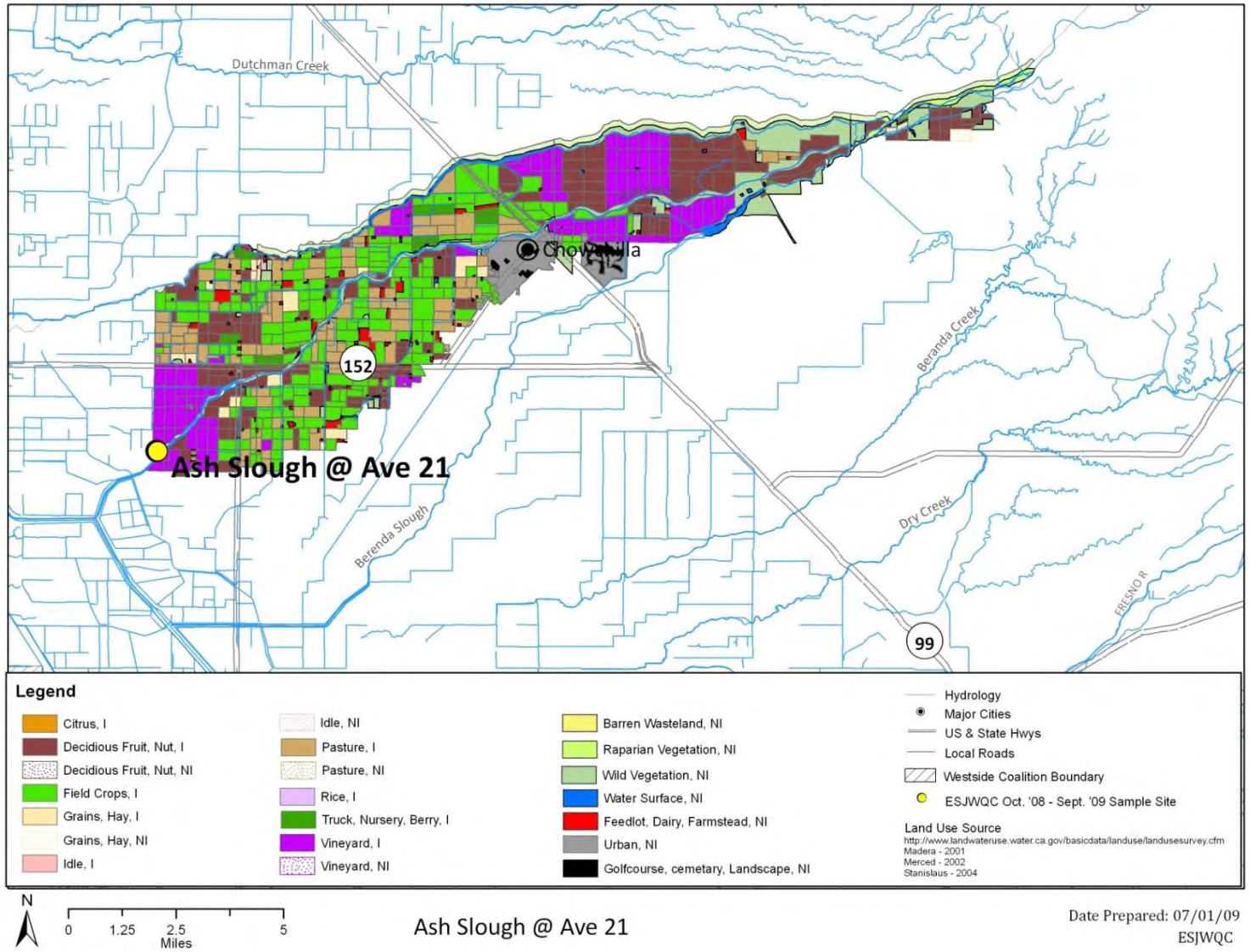
↑ E 7/21/09

↓ S (DS) 7/21/09

↑ N (US) 7/21/09

↓ W 7/21/09

Figure 1. Site subwatershed land use map – Ash Slough @ Ave 21.



545XCCART - Cottonwood Creek @ Rd 20

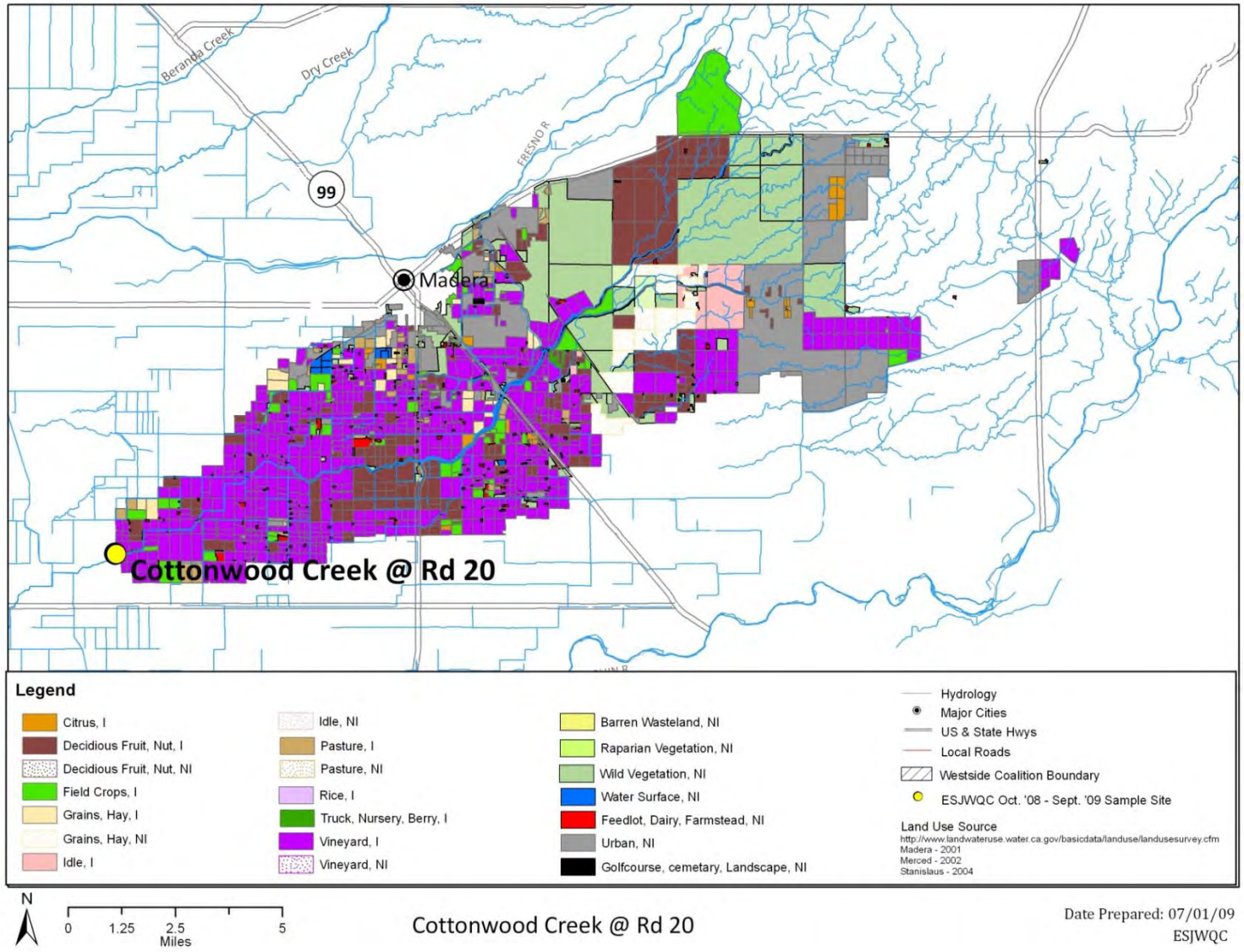
↑ W (DS) 7/21/09

↓ S 7/21/09

↑ E (US) 7/21/09

↓ N 7/21/09

Figure 2. Site subwatershed land use map – Cottonwood Creek @ Rd 20.



535XDCAGR – Deadman Creek @ Gurr Rd

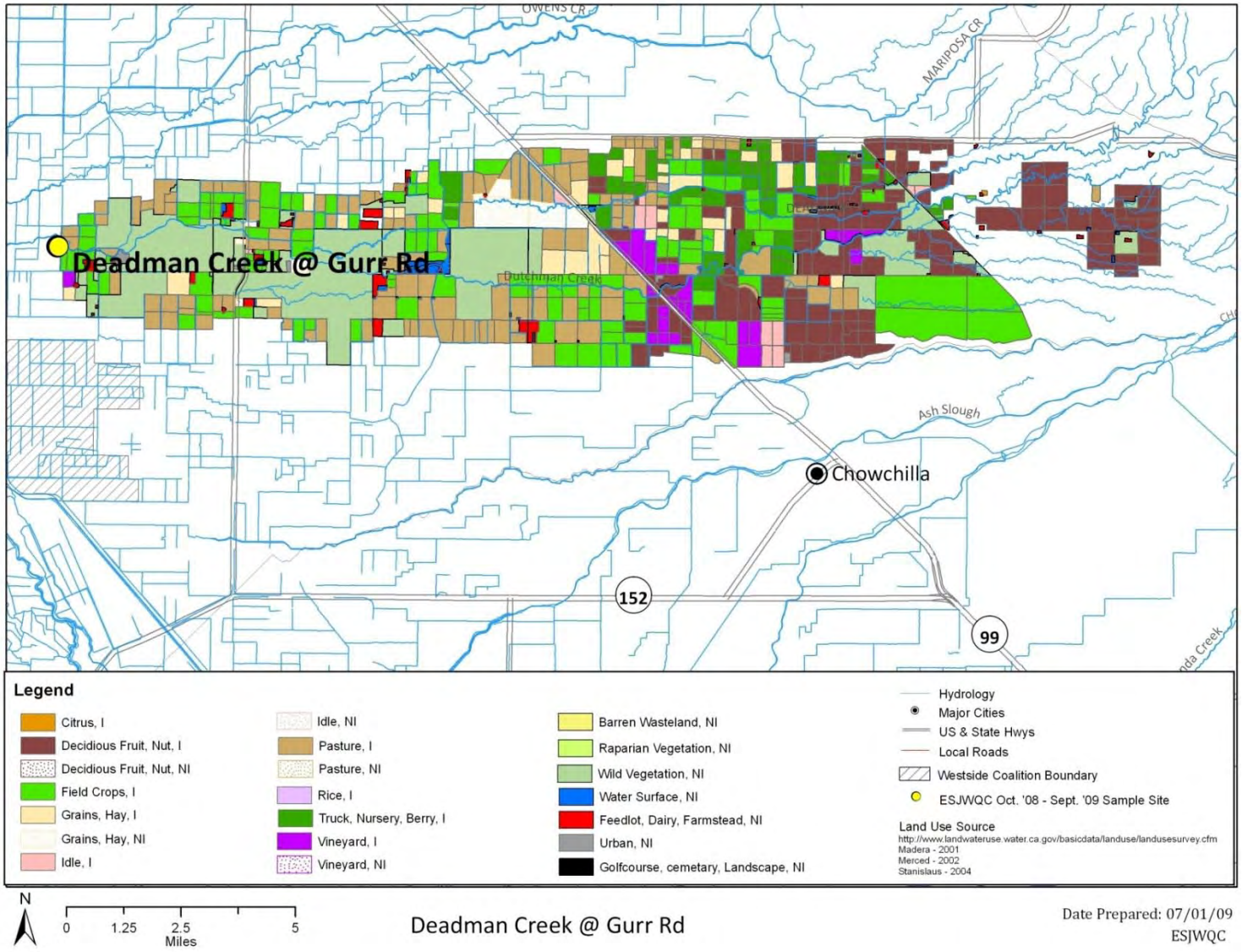
↑ E (US) 7/21/09

↓ N 7/21/09

↑ W (DS) 7/21/09

↓ S 7/21/09

Figure 3. Site subwatershed land use map – Deadman Creek @ Gurr Rd.



535XDMCAHF – Deadman Creek @ Hwy 59

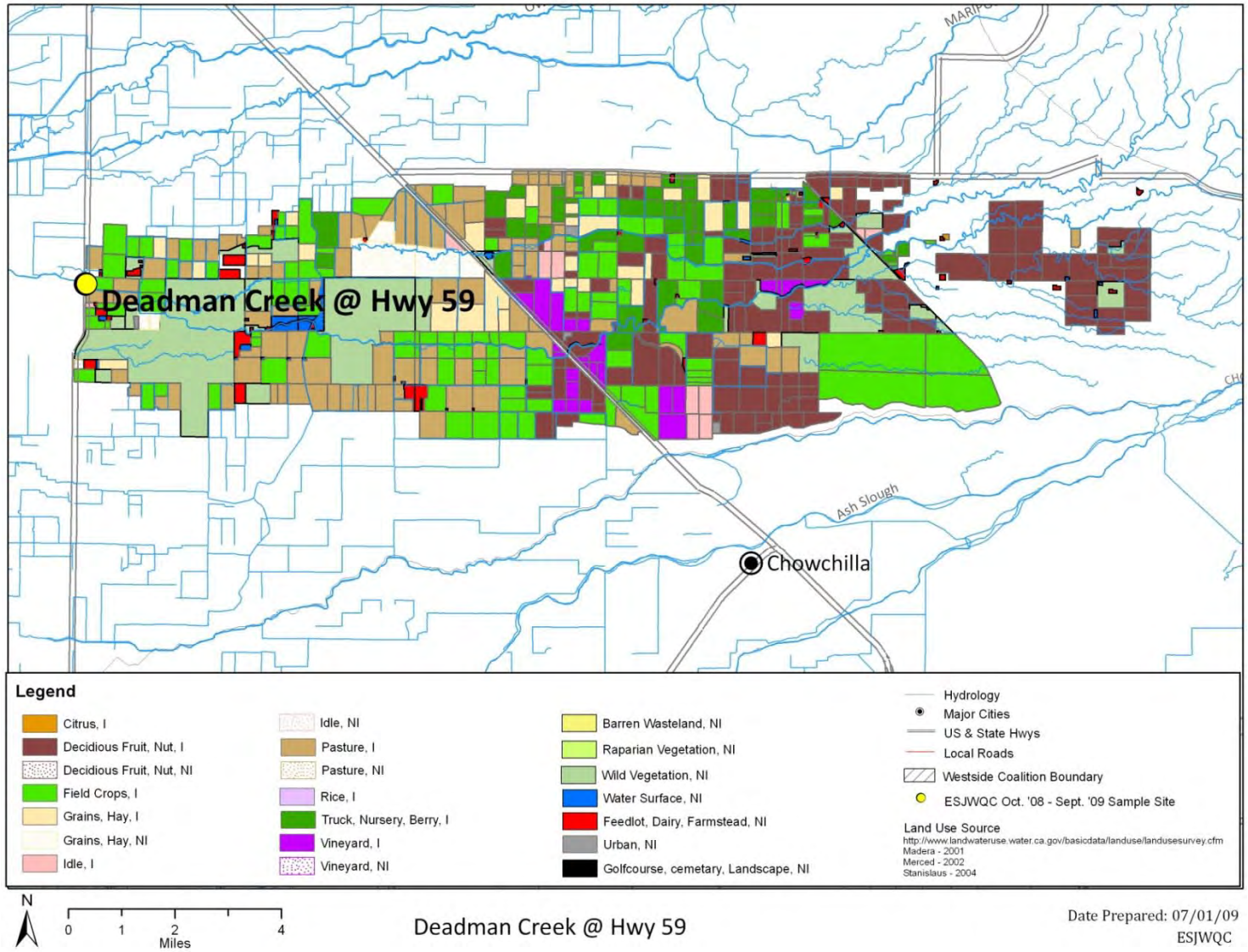
↑ E (US) 4/21/09

↓ N 8/18/09

↑ W (DS) 4/21/09

↓W 9/22/09

Figure 4. Site subwatershed land use map – Deadman Creek @ Hwy 59.



535DCAORD – Dry Creek @ Oakdale Rd

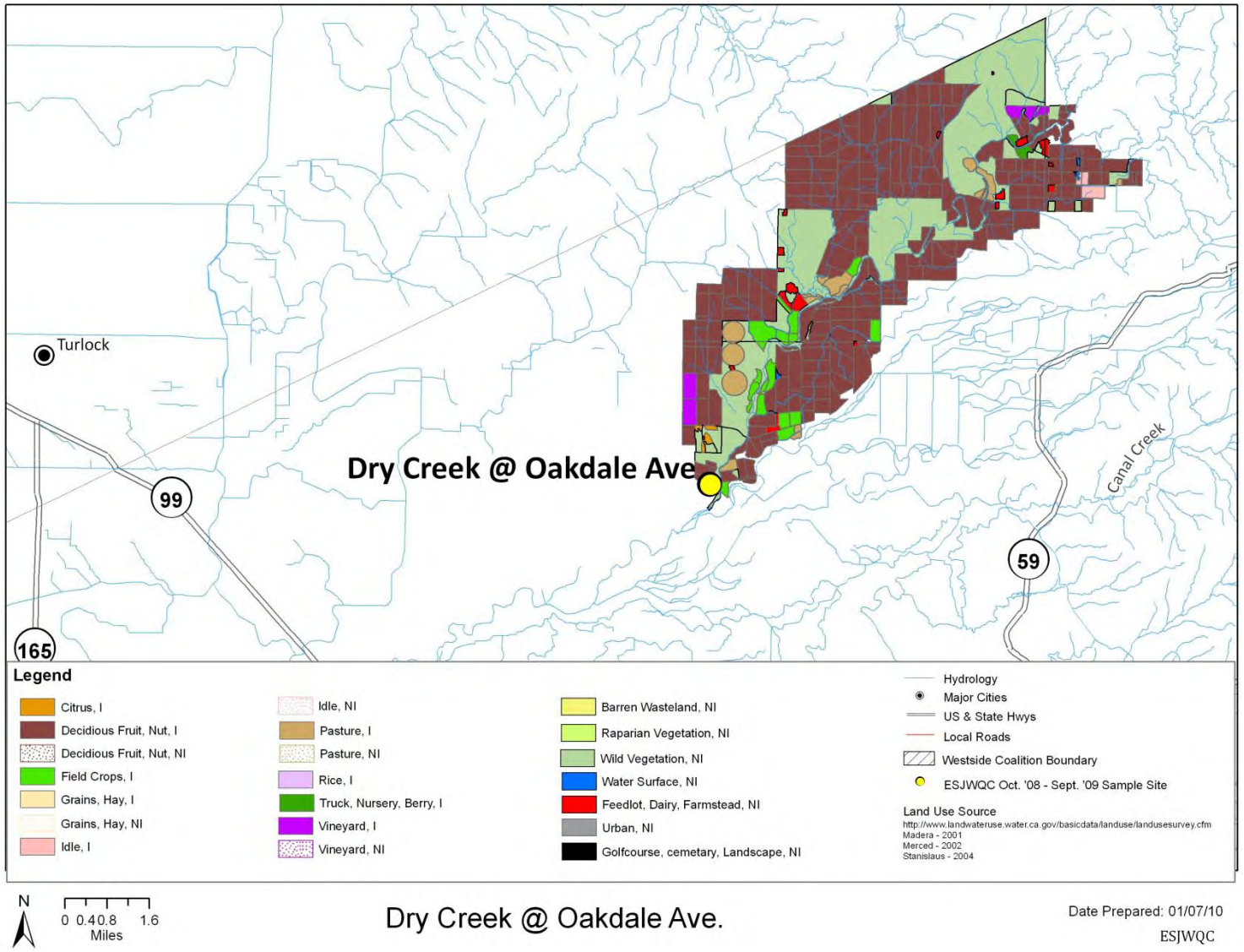
↑ N (US) 11/17/09

↓ W 7/21/09

↑ S (DS) 11/17/09

↓ W 7/21/09

Figure 5. Site subwatershed land use map – Dry Creek @ Oakdale Rd.



535XDCWF – Dry Creek @ Waterford Rd

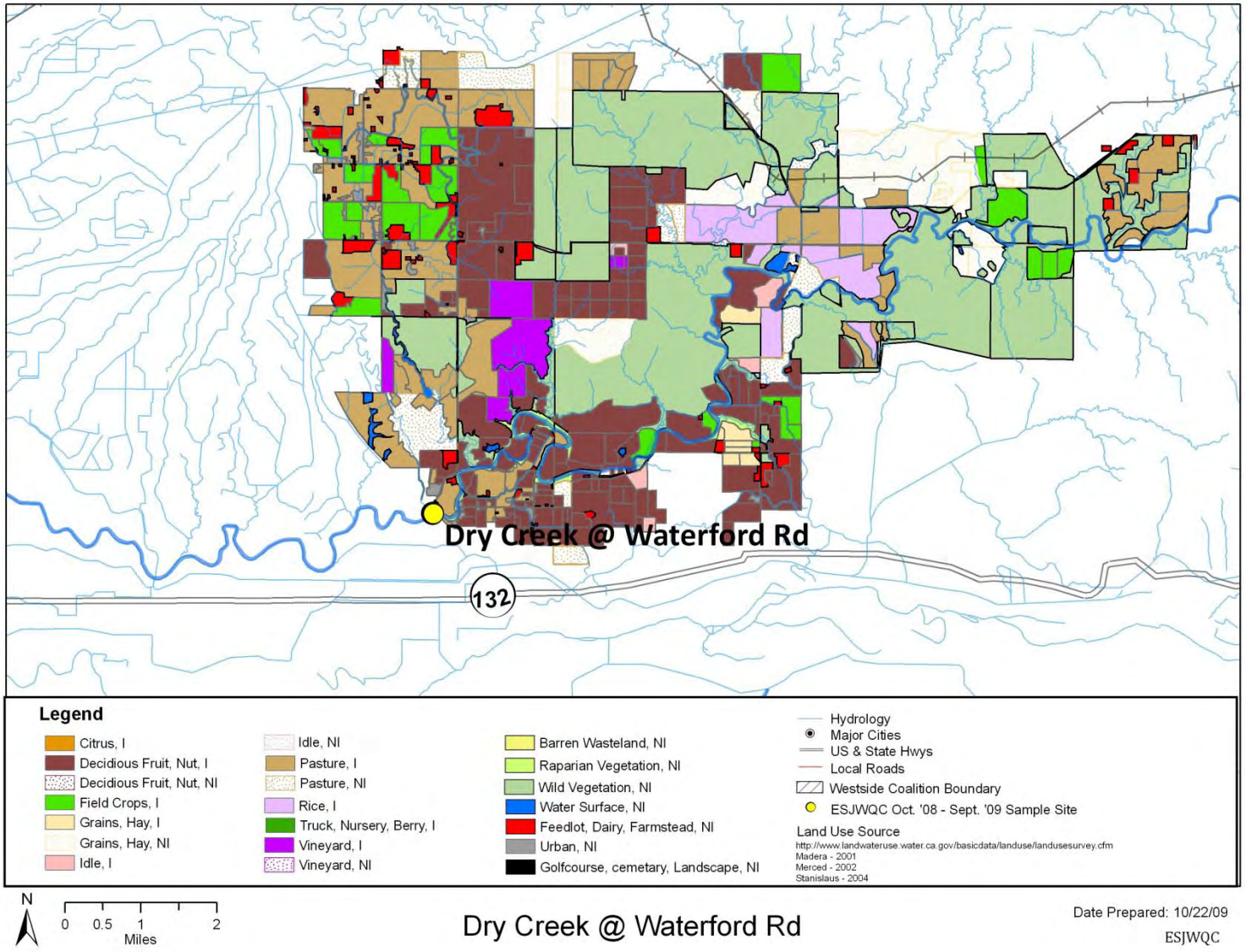
↑ W (DS) 7/21/09

↓ S 7/21/09

↑ E (US) 7/21/09

↓ NW 7/21/09

Figure 6. Site subwatershed land use map – Dry Creek @ Waterford Rd.



535XDCAWR - Dry Creek @ Wellsford Rd

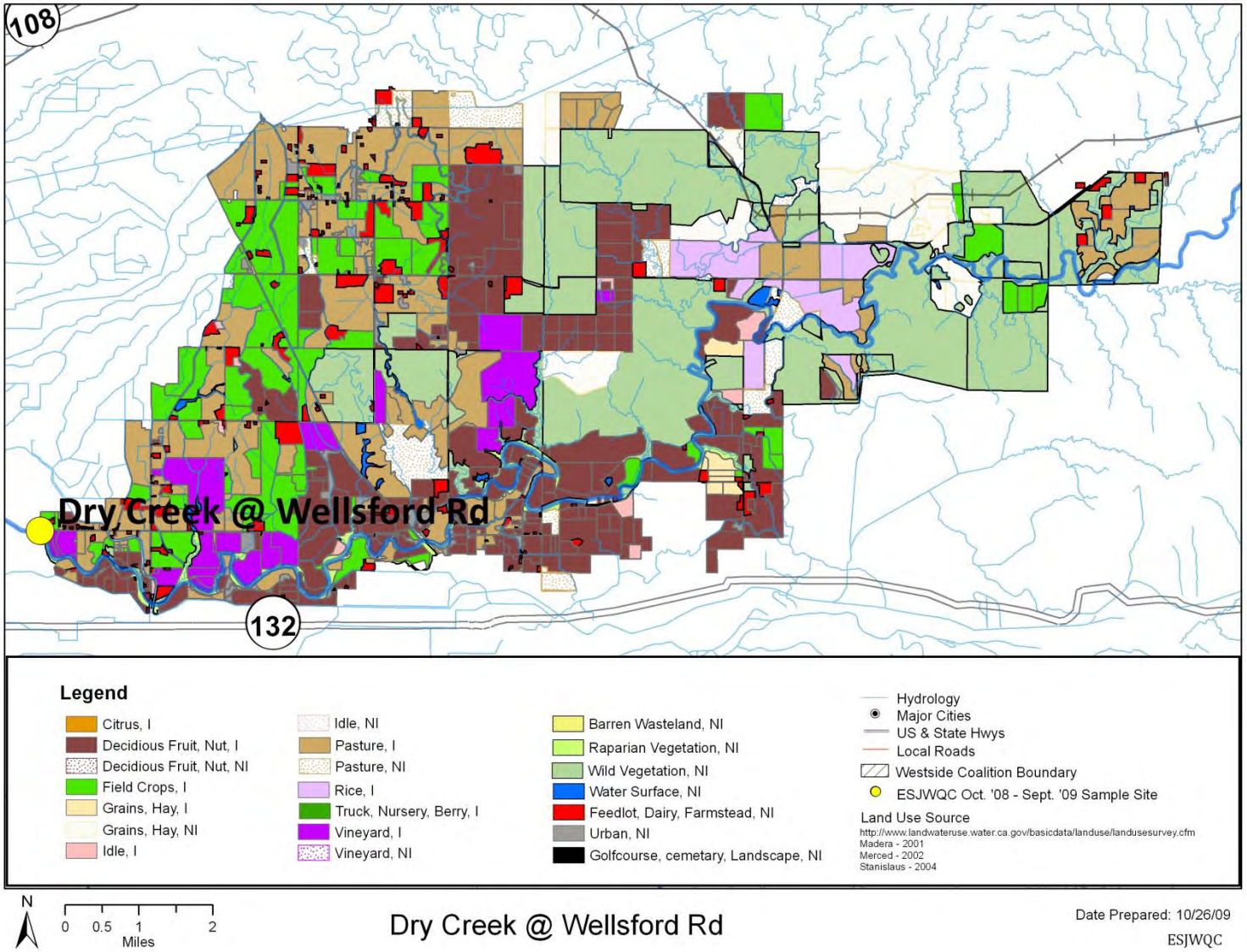
↑ S 7/21/09

↓ W (DS) 7/21/09

↑SE (US) 7/21/09

↓ SW 7/21/09

Figure 7. Site subwatershed land use map – Dry Creek @ Wellsford Rd.



535XDSAGR - Duck Slough @ Gurr Rd

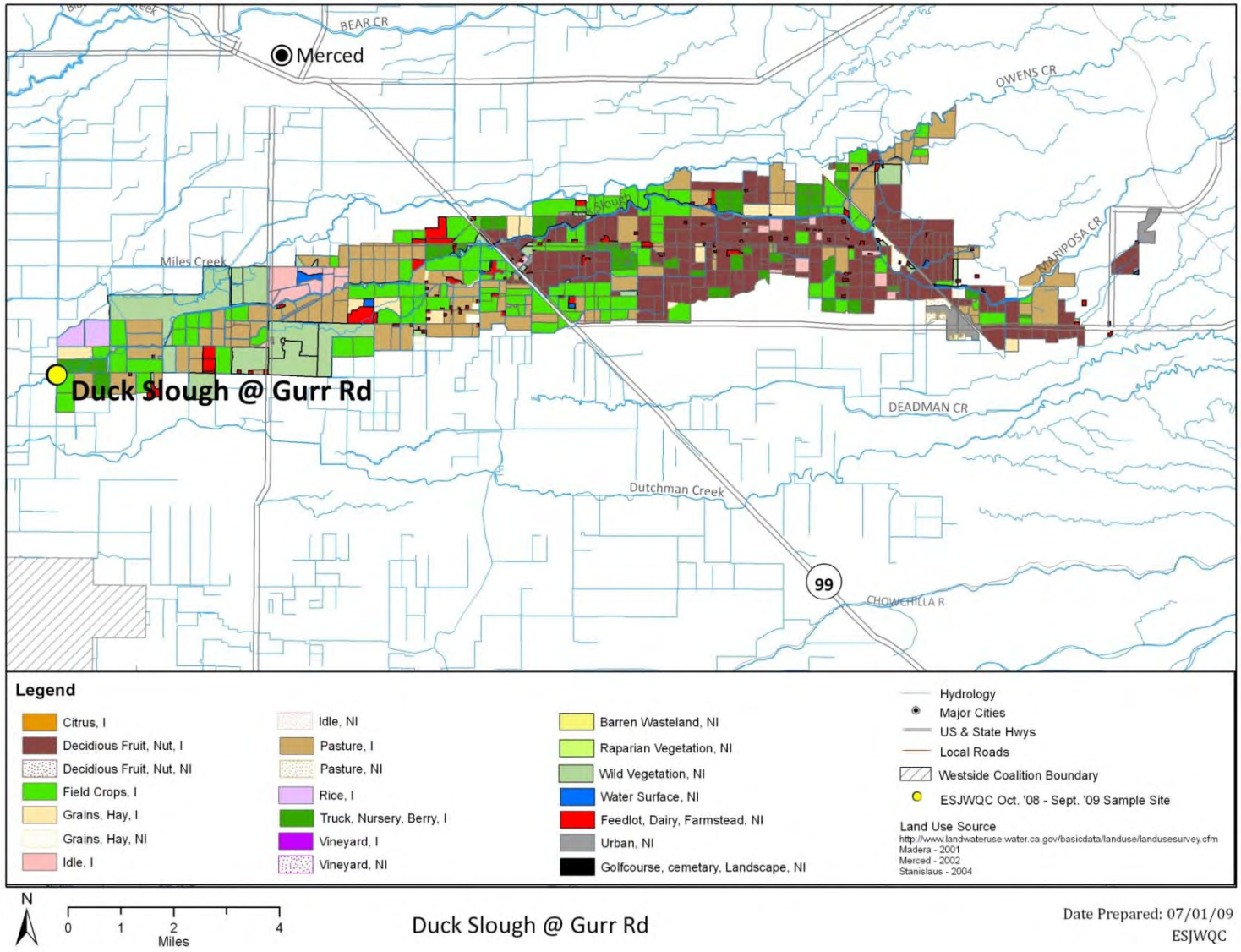
↑ W (DS) 7/21/09

↓ S 7/21/09

↑ E (US) 7/21/09

↓ N 7/21/09

Figure 8. Site subwatershed land use map – Duck Slough @ Gurr Rd.



535XDSAHN - Duck Slough @ Hwy 99

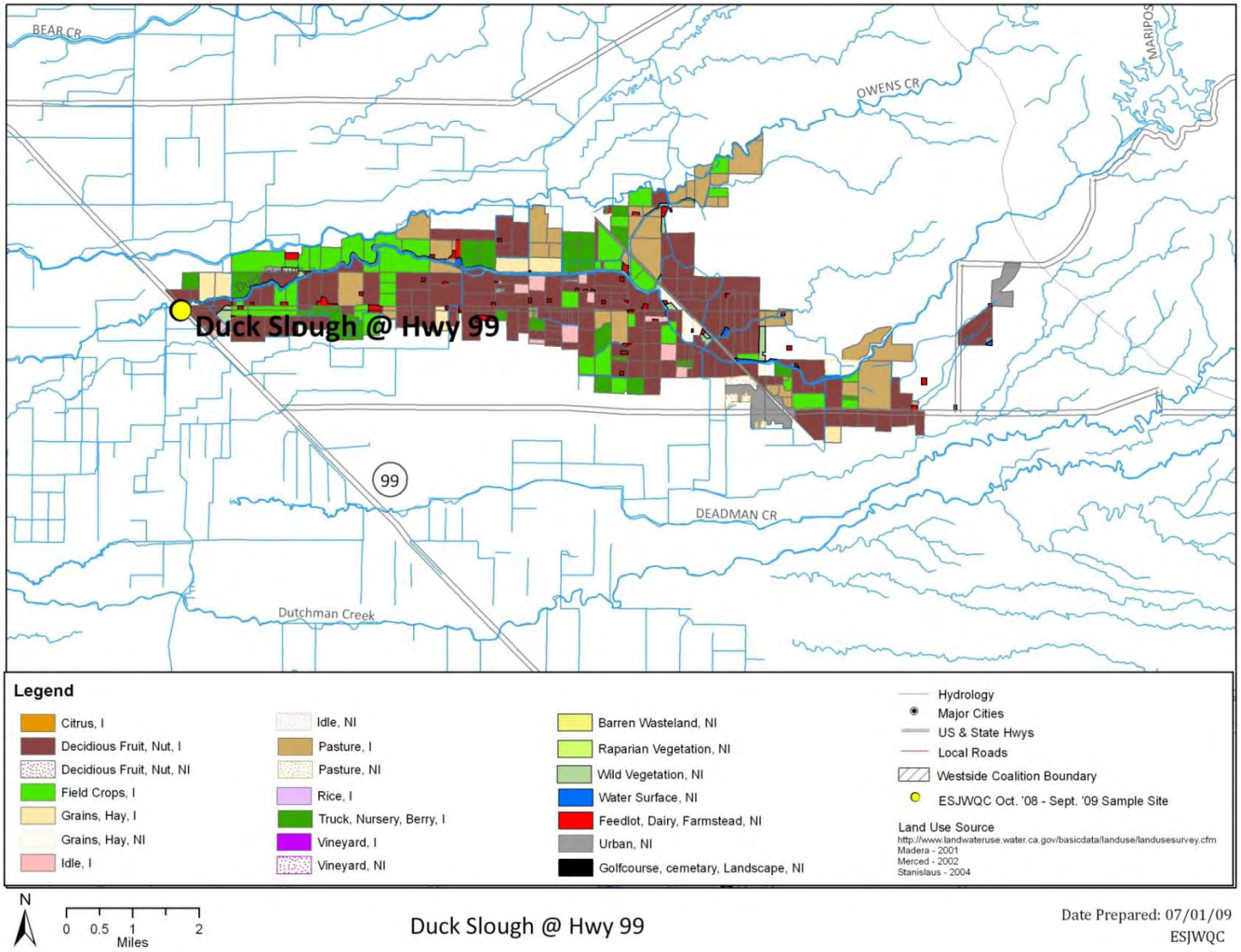
↑N 7/21/09

↓ E (US) 7/21/09

↑ W (DS) 7/21/09

↓ W (DS) 7/21/09

Figure 9. Site subwatershed land use map – Duck Slough @ Hwy 99.



Adminsitrative Record
Page 17964

535XHCALR - Highline Canal @ Lombardy Ave

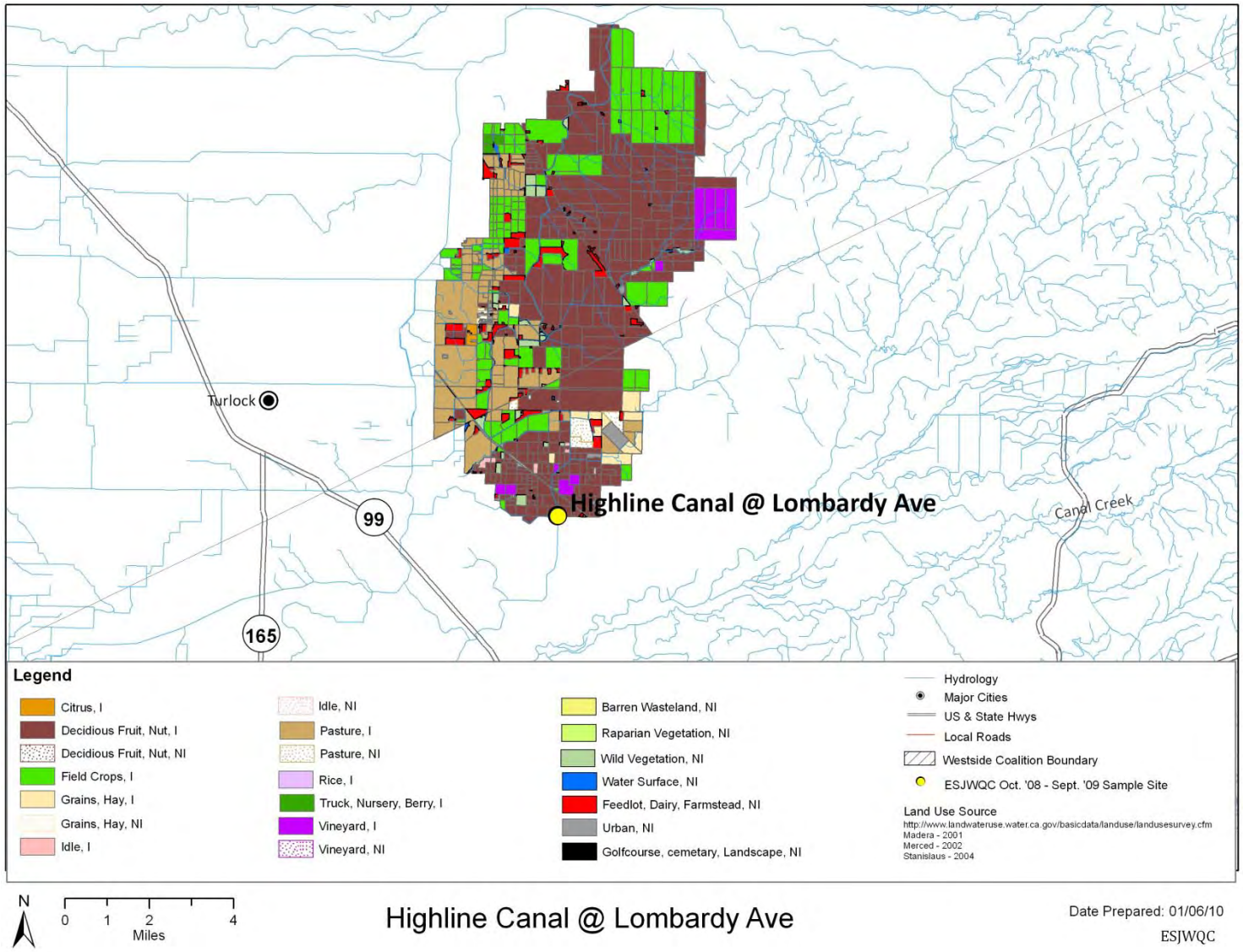
↑ N (US) 7/21/09

↓ W 7/21/09

↑ S (DS) 7/21/09

↓ E 7/21/09

Figure 10. Site subwatershed land use map – Highline Canal @ Lombardy Rd.



535XHCHNN - Highline Canal @ Hwy 99

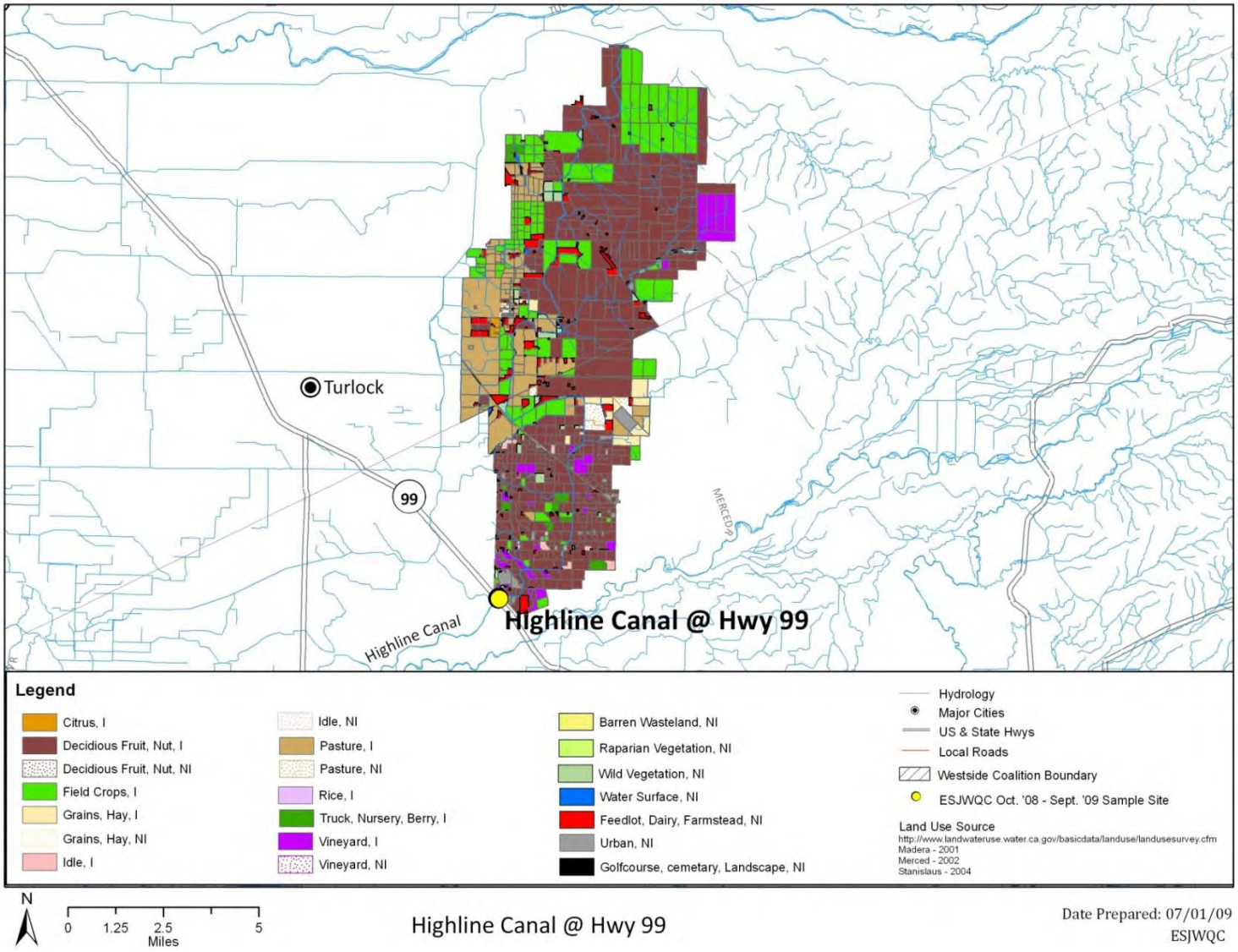
↑ W (DS) 7/21/09

↓ NW 7/21/09

↑ E (US) 7/21/09

↓ N 7/21/09

Figure 11. Site subwatershed land use map – Highline Canal @ Hwy 99.



535XHDACA – Hilmar Drain @ Central Ave

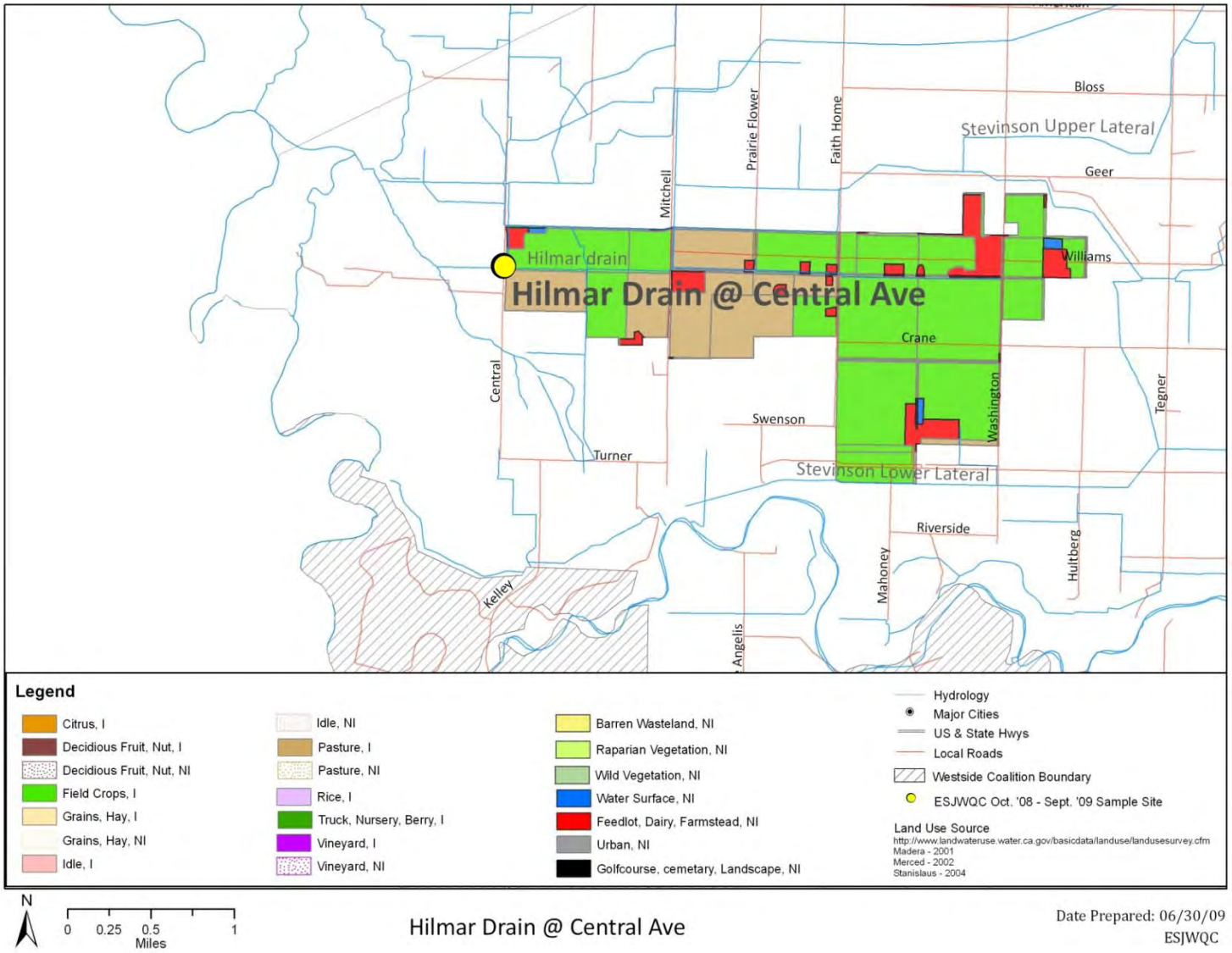
↑ E (US) 9/22/09

↑ W (DS) 9/22/09

↓ E 4/21/09

↓ N 4/21/09

Figure 12. Site subwatershed land use map – Hilmar Drain @ Central Ave.



Adminsitrative Record
Page 17970

535XHLAHO – Howard Lateral @ Hwy 140

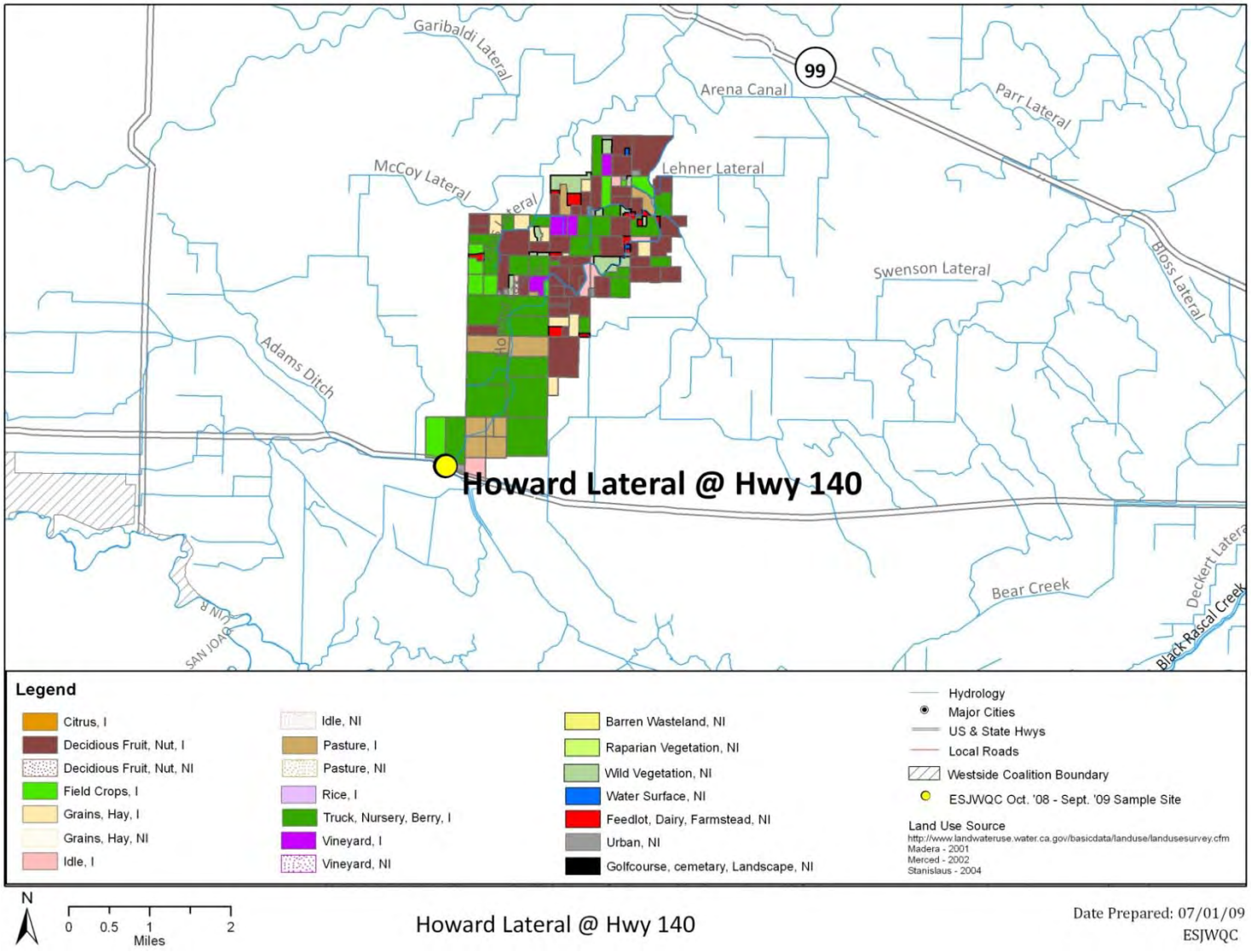
↑ E 7/21/09

↓ S (DS) 7/21/09

↑ W 7/21/09

↓ N (US) 7/21/09

Figure 13. Site subwatershed land use map – Howard Lateral @ Hwy 140.



Adminsitrative Record
Page 17972

535LTHNKR – Lateral 2 ½ near Keyes Rd

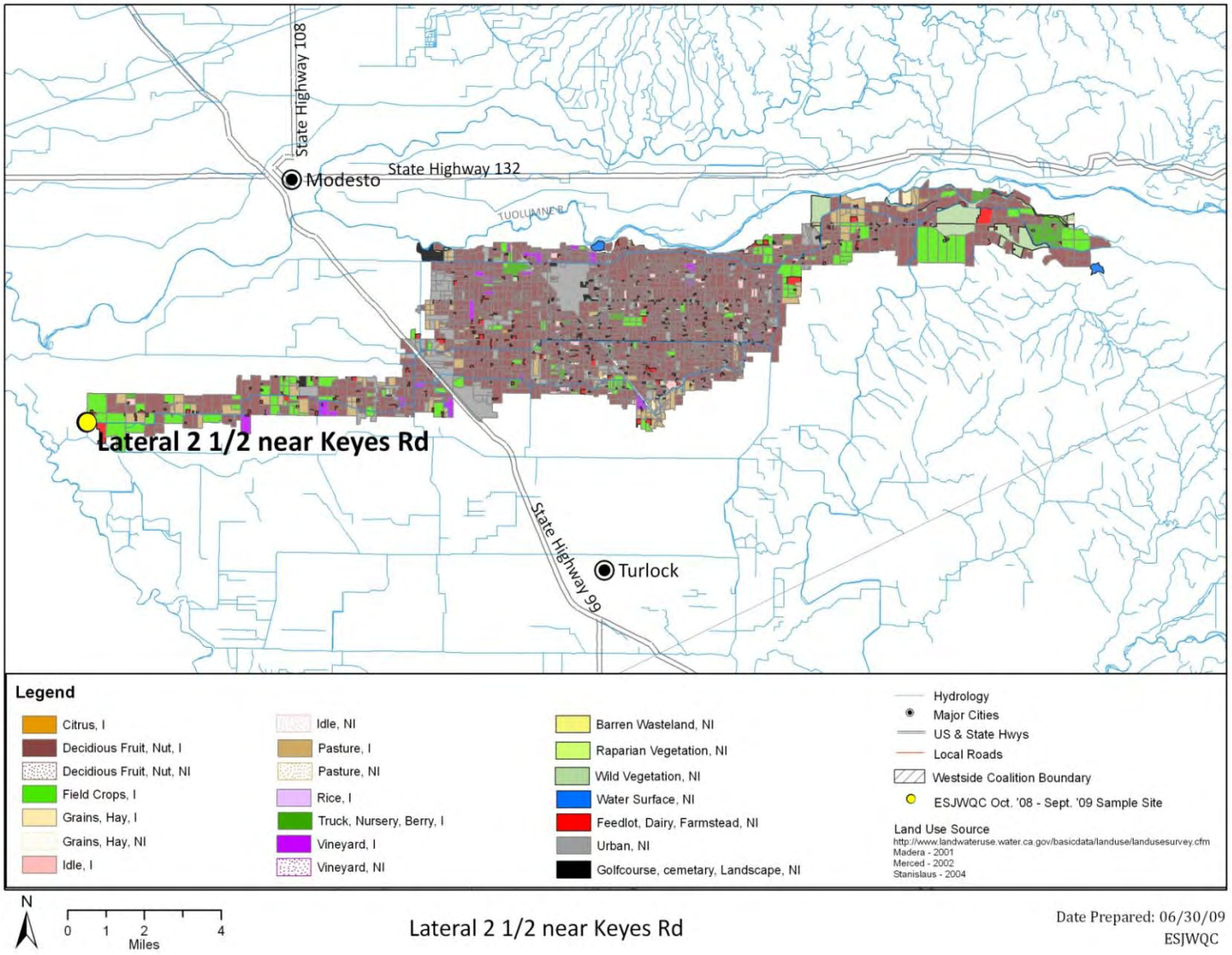
↑ W (DS) 7/21/09

↓ E (US) 7/21/09

↑ N 7/21/09

↓ S 7/21/09

Figure 14. Site subwatershed land use map – Lateral 2 ½ Near Keyes Rd.



Adminsitrative Record
Page 17974

535XMRSFD- Merced River @ Santa Fe Rd

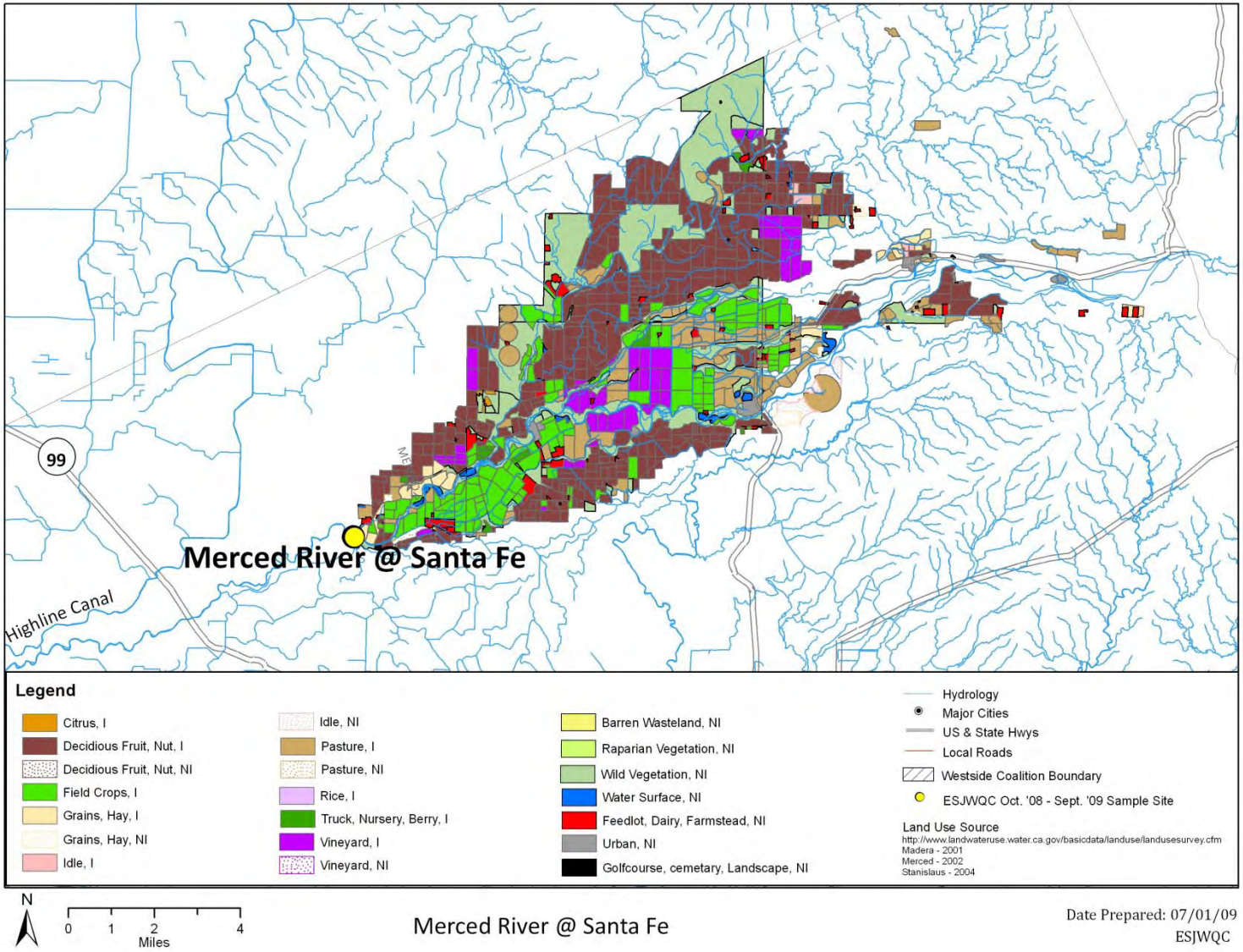
↑ E (US) 7/21/09

↓ S 7/21/09

↑ W (DS) 7/21/09

↓ N 7/21/09

Figure 15. Site subwatershed land use map – Merced River @ Santa Fe.



535XMCARR - Miles Creek @ Reilly Rd

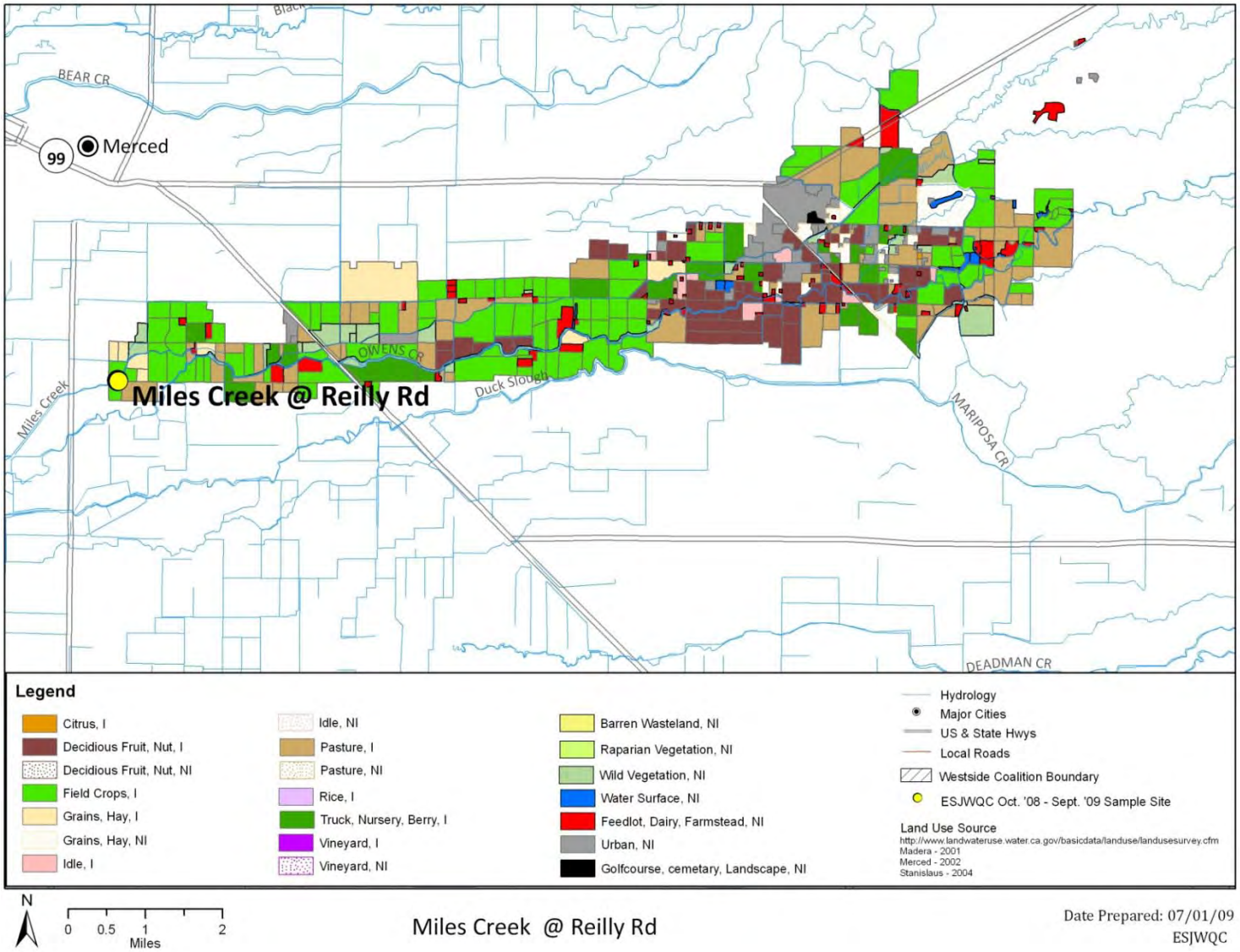
↑ S (DS) 7/21/09

↓ W 7/21/09

↑N (US) 7/21/09

↓ E 7/21/09

Figure 16. Site subwatershed land use map – Miles Creek @ Reilly Rd.



Adminsitrative Record
Page 17978

535XMDALR – Mootz Drain @ Langworth Rd

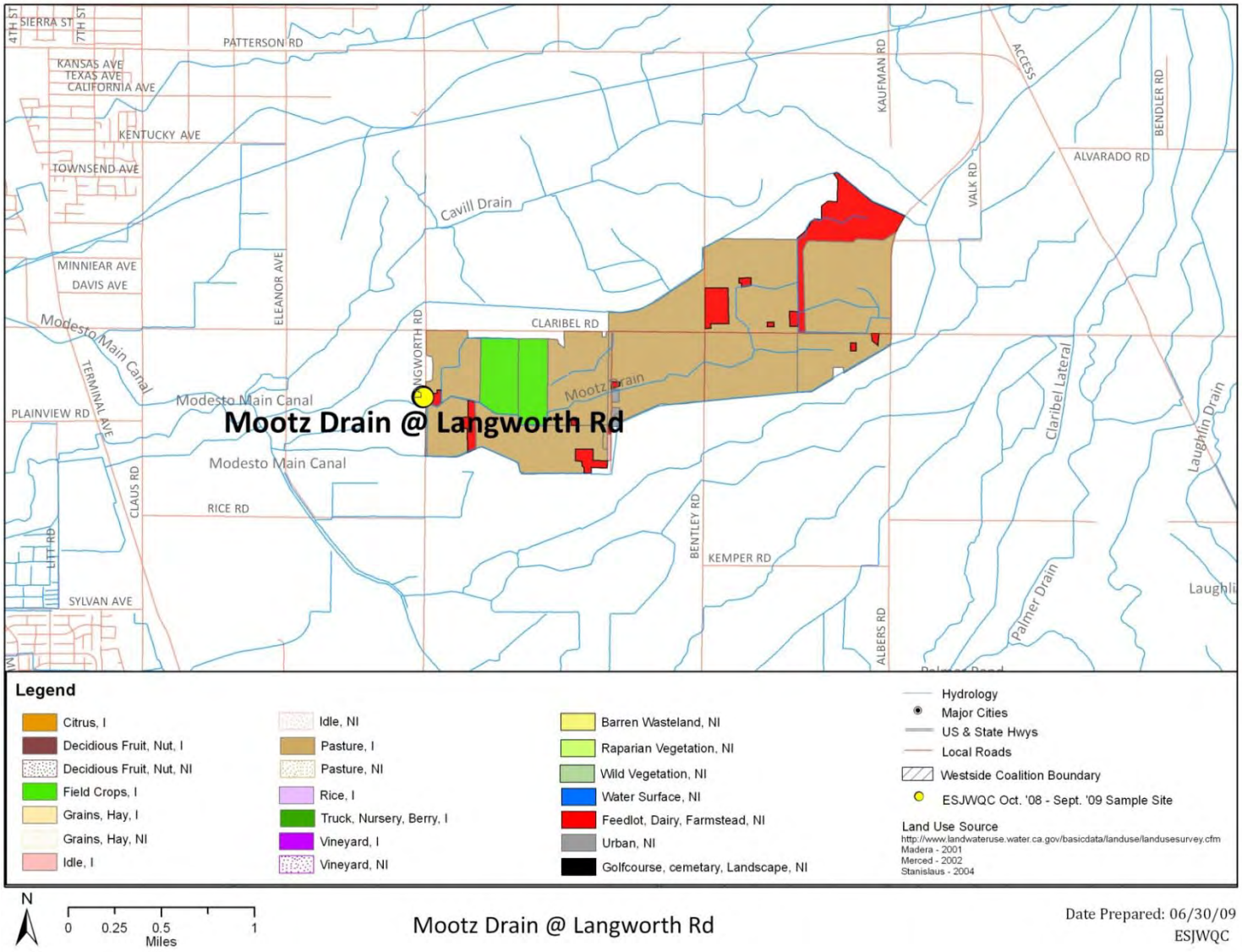
↑ E (US) 7/21/09

↓ S 7/21/09

↑ W (DS) 7/21/09

↓ N 7/21/09

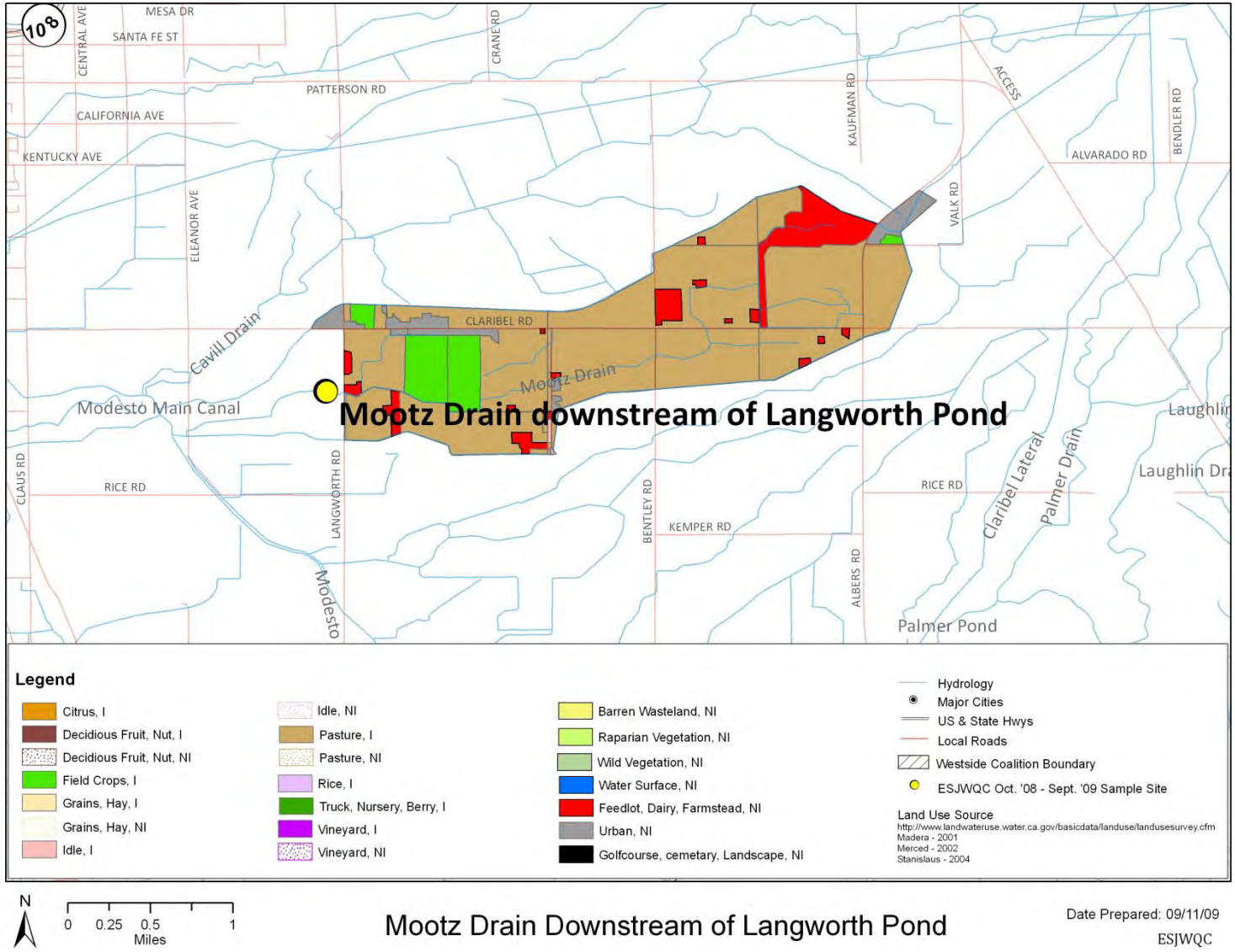
Figure 17. Site subwatershed land use map – Mootz Drain @ Langworth Rd.



Adminsitrative Record
Page 17980

535XMDDLP – Mootz Drain downstream of Langworth Pond

Figure 18. Site subwatershed land use map – Mootz Drain downstream of Langworth Pond.



535XMCAEA – Mustang Creek @ East Ave

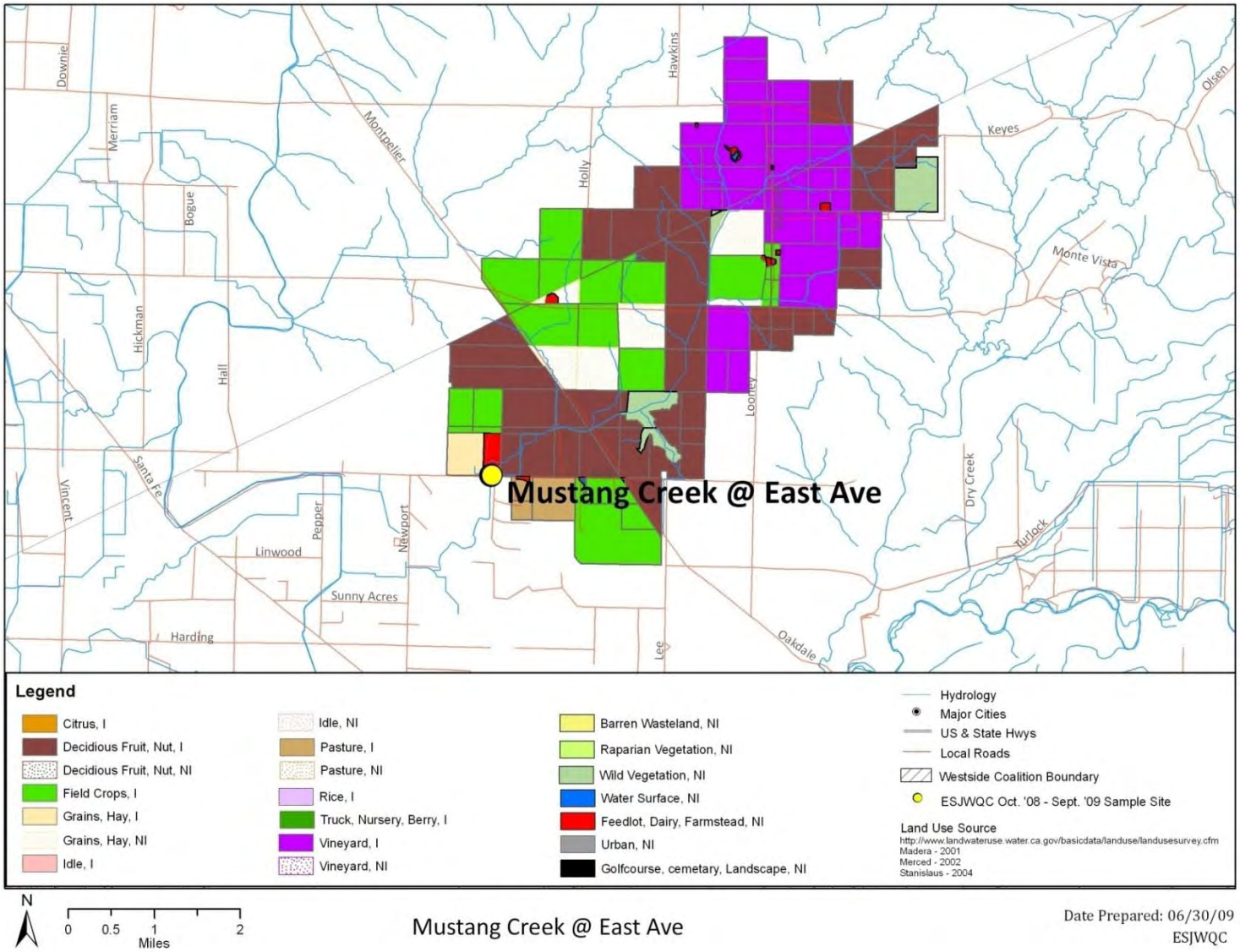
↑ N (US) 7/21/09

↓ W 7/21/09

↑ S (DS) 7/21/09

↓ E (US) 7/21/09

Figure 19. Site subwatershed land use map – Mustang Creek @ East Ave.



Adminsitrative Record
Page 17984

535XPFDCL – Prairie Flower Drain @ Crows Landing

↑ E (US) 7/21/09

↓ W (DS) 7/21/09

↑ S 7/21/09

↓ N 7/21/09

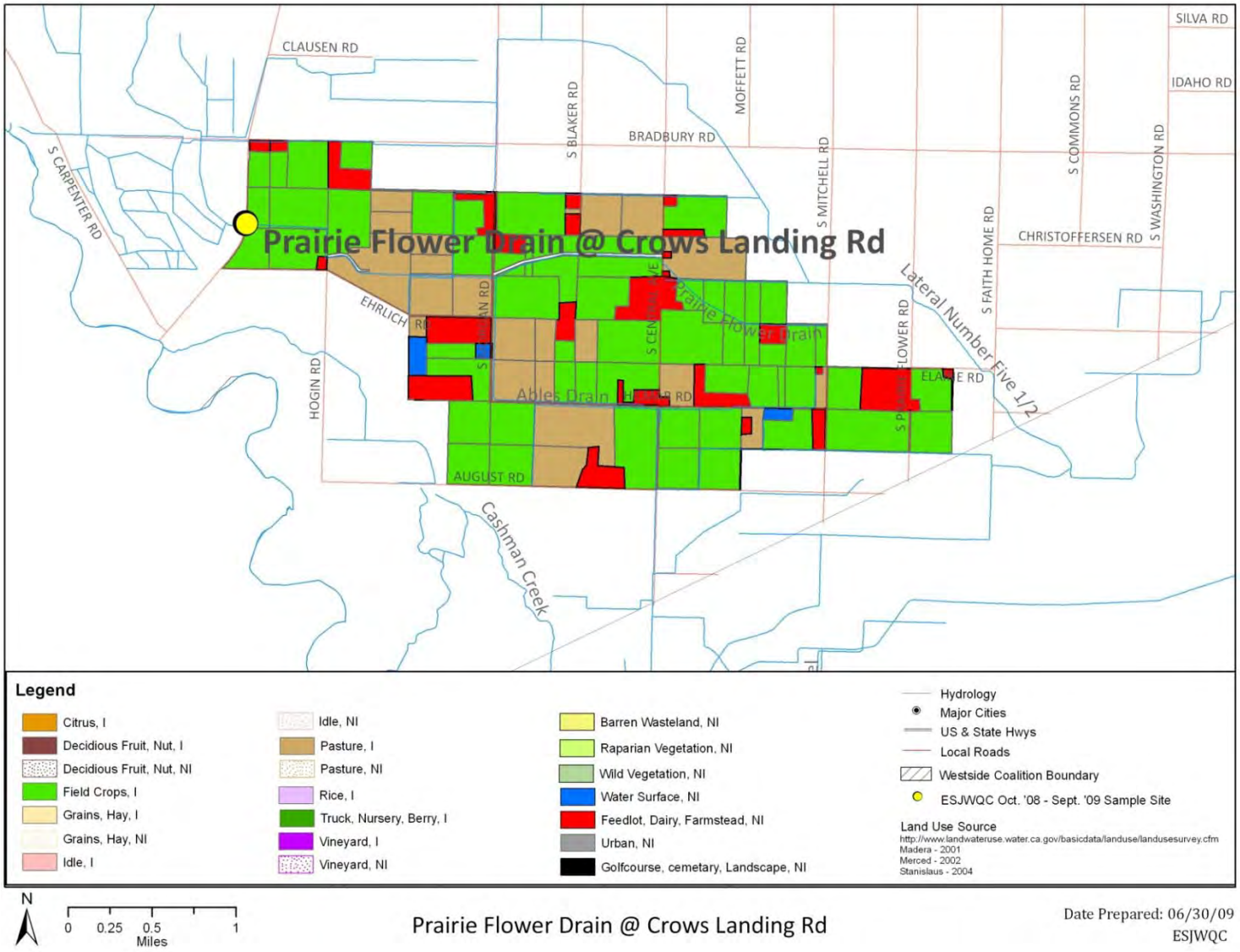



Figure 20. Site subwatershed land use map - Prairie Flower Drain @ Crows Landing Rd.