



Engineering Division · 555 Santa Clara Street · Vallejo · CA · 94590 · 707.648.5251

September 16, 2013

Bruce H. Wolfe, Executive Officer
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

RE: 2012 - 2013 Annual Report for the City of Vallejo

Dear Mr. Wolfe:

Enclosed is the 2012 - 2013 Annual Report for the City of Vallejo, which is required by and in accordance with Provision C.16 in National Pollutant Discharge Elimination System (NPDES) Permit Number CAS612008 issued by the San Francisco Bay Regional Water Quality Control Board and/or by Provision C.13 in NPDES Permit Number CA0083313 issued by the Central Valley Regional Water Quality Control Board.

Attached at the end of the Annual Report is an update on the status of activities highlighted in the City's Response to the Notice of Violation, dated March 6, 2013.

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 gathered and evaluated 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 submitting false information, including the possibility of fine and imprisonment for knowing violations.

Very truly yours,

A handwritten signature in black ink, appearing to read "David A. Kleinschmidt", is written over a horizontal line.

David A. Kleinschmidt
Public Works Director

Enclosure

cc: Jill Mercurio, Assistant Public Works Director/City Engineer
PW Chron

ATTACHMENT B

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Section 1 – Permittee Information

Background Information			
Permittee Name:	City of Vallejo		
Population:	117,798		
NPDES Permit No.:	CAS612008 (San Francisco Bay RWQCB Permit)		
Order Number:	R2-2009-0074 (San Francisco Bay RWQCB)		
Reporting Time Period (month/year):	July 2012 through June 2013		
Name of the Responsible Authority:	David Kleinschmidt	Title:	Public Works Director
Mailing Address:	555 Santa Clara Street		
City:	Vallejo	Zip Code:	94590-5934
		County:	Solano
Telephone Number:	707-648-4315	Fax Number:	707-648-4691
E-mail Address:	dkleinschmidt@ci.vallejo.ca.us		
Name of the Designated Stormwater Management Program Contact (if different from above):	Jill Mercurio	Title:	City Engineer
Department:	Public Works – Engineering Division		
Mailing Address:	555 Santa Clara Street		
City:	Vallejo	Zip Code:	94590-5934
		County:	Solano
Telephone Number:	707-648-4085	Fax Number:	707-648-4691
E-mail Address:	jmercurio@ci.vallejo.ca.us		

Section 2 - Provision C.2 Reporting Municipal Operations

Program Highlights and Evaluation

Highlight/summarize activities for reporting year:

Summary:

The City of Vallejo Maintenance Traffic Division implemented the use of water base paint in FY 12-13. The City no longer uses acetone-based paint when maintaining the traffic legends on the city's 714 lane miles of roadway. The Street Department continues to use products with zero VOC's when repairing potholes with cold patch. City of Vallejo Maintenance Division employees attend bi-annual tailgate meetings that provide education on each of the BMPs as it relate to the City's SWPPP.

C.2.a. ► Street and Road Repair and Maintenance

Place a **Y** in the boxes next to activities where applicable BMPs were implemented. If not applicable, type **NA** in the box and provide an explanation in the comments section below. Place an **N** in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.

Y	Control of debris and waste materials during road and parking lot installation, repaving or repair maintenance activities from polluting stormwater
Y	Control of concrete slurry and wastewater, asphalt, pavement cutting, and other street and road maintenance materials and wastewater from discharging to storm drains from work sites.
Y	Sweeping and/or vacuuming and other dry methods to remove debris, concrete, or sediment residues from work sites upon completion of work.

Comments: **The City of Vallejo follows the Best Management Practices on the following items:**
When paving streets the Maintenance Division protects all drain inlet using absorbent waddles to ensure that no material enters the drop inlet. The Street Department continues to use Bond X products, which are BAAQMD compliant, to repair potholes during inclement weather. With a light winter the City purchased only 36 tons this year. This material has zero VOC's and no petroleum solvents. The City of Vallejo trains each employee assigned to the "saw cut truck" in the proper methods to ensure slurry from concrete cutting does not reach the storm drain system.
Street Sweepers are dispatched after the completion of paving jobs to clean debris and sediment created from paving and construction jobs to prevent intrusion into the storm drain system.

C.2.b. ► Sidewalk/Plaza Maintenance and Pavement Washing

Place a **Y** in the boxes next to activities where applicable BMPs were implemented. If not applicable, type **NA** in the box and provide an explanation in the comments section below. Place an **N** in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.

Y	Control of wash water from pavement washing, mobile cleaning, pressure wash operations at parking lots, garages, trash areas, gas station fueling areas, and sidewalk and plaza cleaning activities from polluting stormwater
Y	Implementation of the BASMAA Mobile Surface Cleaner Program BMPs

Comments:

The City of Vallejo implements the following Best Management Practices (BMP)

- **The Traffic Department (a division of Maintenance) dry sweeps the area affected before using a pressure washer. Any solids created from the pressure washer such as paint chips are collected before water from the operation is directed into a landscaped area as allowed by BASMAA.**
- **The Assistant Maintenance Superintendent of Streets and a Senior Maintenance Worker have Certificates of Training from the BASMAA surface cleaner training program.**

C.2.c. ► Bridge and Structure Maintenance and Graffiti Removal

Place a **Y** in the boxes next to activities where applicable BMPs were implemented. If not applicable, type **NA** in the box and provide an explanation in the comments section below. Place an **N** in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.

Y	Control of discharges from bridge and structural maintenance activities directly over water or into storm drains
Y	Control of discharges from graffiti removal activities
Y	Proper disposal for wastes generated from bridge and structure maintenance and graffiti removal activities
Y	Implementation of the BASMAA Mobile Surface Cleaner Program BMPs for graffiti removal
Y	Employee training on proper capture and disposal methods for wastes generated from bridge and structural maintenance and graffiti removal activities.
Y	Contract specifications requiring proper capture and disposal methods for wastes generated from bridge and structural maintenance and graffiti removal activities.

Comments:

The City of Vallejo implements the following Best Management Practices (BMPs);

- The Bridge Operators are part of the Traffic Division and participate in the BMPs as they relate to bridge maintenance. A Stormwater Best Management Practice handbook and an Over Water Handbook (SC50) are posted at the control room of the lift span. The Bridge Operators are to ensure that contractors that do maintenance to the bridge abide the BMPs and SC50 handbook.
- When graffiti is present, Maintenance personnel are instructed to use provided, approved graffiti wipes that are manufactured for the purpose of removing graffiti. Thus no aerosol spray or liquids are used when removing any graffiti. All used wipes are bagged and disposed of properly.

C.2.d. ► Stormwater Pump Stations

Does your municipality own stormwater pump stations: Yes No

If your answer is **No** then skip to C.2.e.

Complete the following table for dry weather DO monitoring and inspection data for pump stations¹ (add more rows for additional pump stations). If a pump station is exempt from DO monitoring, explain why it is exempt.

Pump Station Name and Location	First inspection Dry Weather DO Data		Second inspection Dry Weather DO Data	
	Date	mg/L	Date	mg/L
N/A	N/A	N/A	N/A	N/A

Summarize corrective actions as needed for DO monitoring at or below 3 mg/L. Attach inspection records of additional DO monitoring for corrective actions:
 N/A

Summary:
 N/A

Attachments:
 N/A

Complete the following table for wet weather inspection data for pump stations (add more rows for additional pump stations):

Pump Station Name and Location	Date (2x/year required)	Presence of Trash (Cubic Yards)	Presence of Odor (Yes or No)	Presence of Color (Yes or No)	Presence of Turbidity (Yes or No)	Presence of Floating Hydrocarbons (Yes or No)
N/A	N/A	N/A	N/A	N/A	N/A	N/A

¹ DO monitoring is exempted where all discharge from a pump station remains in a stormwater collection system or infiltrates into a dry creek immediately downstream.

C.2.e. ► Rural Public Works Construction and Maintenance			
Does your municipality own/maintain rural ² roads:		<input type="checkbox"/>	Yes
		<input checked="" type="checkbox"/>	No
If your answer is No then skip to C.2.f.			
Place a Y in the boxes next to activities where applicable BMPs were implemented. If not applicable, type NA in the box and provide an explanation in the comments section below. Place an N in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.			
N/A	Control of road-related erosion and sediment transport from road design, construction, maintenance, and repairs in rural areas		
N/A	Identification and prioritization of rural road maintenance based on soil erosion potential, slope steepness, and stream habitat resources		
N/A	No impact to creek functions including migratory fish passage during construction of roads and culverts		
N/A	Inspection of rural roads for structural integrity and prevention of impact on water quality		
N/A	Maintenance of rural roads adjacent to streams and riparian habitat to reduce erosion, replace damaging shotgun culverts and excessive erosion		
N/A	Re-grading of unpaved rural roads to slope outward where consistent with road engineering safety standards, and installation of water bars as appropriate		
N/A	Inclusion of measures to reduce erosion, provide fish passage, and maintain natural stream geomorphology when replacing culverts or design of new culverts or bridge crossings		
Comments including listing increased maintenance in priority areas: N/A			

² Rural means any watershed or portion thereof that is developed with large lot home-sites, such as one acre or larger, or with primarily agricultural, grazing or open space uses.

C.2.f. ► Corporation Yard BMP Implementation			
Place an X in the boxes below that apply to your corporations yard(s):			
<input type="checkbox"/>	We do not have a corporation yard		
<input type="checkbox"/>	Our corporation yard is a filed NOI facility and regulated by the California State Industrial Stormwater NPDES General Permit		
<input checked="" type="checkbox"/>	We have a Stormwater Pollution Prevention Plan (SWPPP) for the Corporation Yard(s)		
Place an X in the boxes below next to implemented SWPPP BMPs to indicate that these BMPs were implemented in applicable instances. If not applicable, type NA in the box. If one or more of the BMPs were not adequately implemented during the reporting fiscal year then indicate so and explain in the comments section below:			
<input checked="" type="checkbox"/>	Control of pollutant discharges to storm drains such as wash waters from cleaning vehicles and equipment		
<input checked="" type="checkbox"/>	Routine inspection prior to the rainy seasons of corporation yard(s) to ensure non-stormwater discharges have not entered the storm drain system		
<input checked="" type="checkbox"/>	Containment of all vehicle and equipment wash areas through plumbing to sanitary or another collection method		
<input checked="" type="checkbox"/>	Use of dry cleanup methods when cleaning debris and spills from corporation yard(s) or collection of all wash water and disposing of wash water to sanitary or other location where it does not impact surface or groundwater when wet cleanup methods are used		
<input checked="" type="checkbox"/>	Cover and/or berm outdoor storage areas containing waste pollutants		
Comments: The Maintenance Division Yard has two wash racks that drain to the sanitary sewer. The main wash rack catch basin is cleaned weekly. All storm drain inlets in the Corporation Yard are inspected and cleaned before the rainy season. Any deficiencies with the drain guards are noted and new guards are installed. A dry cleanup method is used within the vehicle shop area to minimize the use of water. When water is used, a biodegradable detergent is used and drain guards are placed at floor inlets. The water is then captured, vacuumed and disposed into the sanitary sewer system.			
If you have a corporation yard(s) that is not an NOI facility, complete the following table for inspection results for your corporation yard(s) or attach a summary including the following information:			
Corporation Yard Name	Inspection Date (1x/year required)	Inspection Findings/Results	Follow-up Actions
COV Maintenance Corp Yard, 111 Amador St.	9/27/12	Inlets inspected and cleaned	Yard Cleaned
COV Maintenance Corp Yard, 111 Amador St.	11/29/12	Silt tubes inspected	2 silt tubes replaced

Corporation Yard Name	Inspection Date (1x/year required)	Inspection Findings/Results	Follow-up Actions
COV Maintenance Corp Yard, 111 Amador St.	4/29/13	Inlets inspected and cleaned	
COV Maintenance Corp Yard, 111 Amador St.	6/28/13	Open dumpster Paint pall with residue outside Plastic water bottle 2 uncovered trash barrels Crack seal machines uncovered Minor amounts of trash on ground	Closed Placed inside Placed in trash Covered Covered Placed in trash

Section 3 - Provision C.3 Reporting New Development and Redevelopment

C.3.b.v.(2)(a) ► Green Streets Status Report

(All projects to be completed by December 1, 2014)

On an annual basis (if applicable), report on the status of any pilot green street projects within your jurisdiction. For each completed project, report the capital costs, operation and maintenance costs, legal and procedural arrangements in place to address operation and maintenance and its associated costs, and the sustainable landscape measures incorporated in the project including, if relevant, the score from the Bay-Friendly Landscape Scorecard.

Summary:

The Green Street Pilot Project Summary Report submitted by BASMAA, on behalf of the MRP permittees, in BASMAA's MRP FY 12-13 Regional Supplement – New Development and Redevelopment includes information on the green street projects planned. C.3.B.iii(3) does not specifically require implementation of a Green Streets project in Solano County or Vallejo, and this requirement is being met through projects located in other counties.

C.3.b.v.(2)(c) ► Summary of Green Street Projects Completed by January 1, 2013

(For FY 12-13 Annual Report only) Provide a summary of all green street projects completed by January 1, 2013.

Summary:

BASMAA has prepared a regional summary of all green street pilot projects. The Green Street Pilot Project Summary Report is being submitted by BASMAA, on behalf of the MRP permittees, in BASMAA's MRP FY 12-13 Regional Supplement – New Development and Redevelopment. The Green Streets Pilot Project Summary Report contains all of the required elements listed in Provision C.3.b.v.(2)(c) for all green street projects completed by January 1, 2013, as well as information on projects not yet completed.

C.3.b.v.(1) ► Regulated Projects Reporting

Fill in attached table C.3.b.v.(1) or attach your own table including the same information.

C.3.e.v. ► Alternative or In-Lieu Compliance with Provision C.3.c.			
(For FY 11-12 Annual Report and each Annual Report thereafter) Is your agency choosing to require 100% LID treatment onsite for all Regulated Projects and not allow alternative compliance under Provision C.3.e.?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
Comments (optional): During this past fiscal year, the City worked on procedural changes to implement C.3.e and will continue to do so in FY 13-14. While the City requires implementation of LID through conditions of approval, it believes that the option of in lieu or alternative compliance is necessary.			

C.3.e.vi ► Special Projects Reporting			
1. Has your agency received, but not yet granted final discretionary approval of, a development permit application for a project that has been identified as a potential Special Project based on criteria listed in MRP Provision C.3.e.ii(2) for any of the three categories of Special Projects (Categories A, B or C)?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
2. Has your agency granted final discretionary approval of a project identified as a Special Project in the March 15, 2013 report? If yes, include the project in both the C.3.b.v.(1) Table, and the C.3.e.vi. Table.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
If you answered "Yes" to either question, 1) Complete Table C.3.e.vi . below. 2) Attach narrative discussion of 100% LID Feasibility or Infeasibility for each project.			

C.3.h.iv. ► Installed Stormwater Treatment Systems Operation and Maintenance Verification Inspection Program Reporting
(1) Fill in attached table C.3.h.iv.(1) or attach your own table including the same information.
(2) On an annual basis, provide a discussion of the inspection findings for the year and any common problems encountered with various types of treatment systems and/or HM controls. This discussion should include a general comparison to the inspection findings from the previous year.
Summary: The City of Vallejo did not inspect any Regulated Projects during FY 12-13 because there are no constructed Regulated Projects within the City's jurisdiction. No comparison with inspection findings from the previous year can be made as inspections were not performed in either year.

(3) On an annual basis, provide a discussion of the effectiveness of the O&M Program and any proposed changes to improve the O&M Program (e.g., changes in prioritization plan or frequency of O&M inspections, other changes to improve effectiveness program).

Summary: In last year's Annual Report, it was reported that no O&M inspections were performed. Since that time, the City of Vallejo determined that no Regulated Projects with stormwater treatment facilities existed in the City to be inspected last fiscal year. As a point of clarification, the Lowes Home Improvement project (Automall Parkway/N Ascot Parkway) and Dan Foley Park (E side of N. Camino Alto) that were reported in the FY 09-10 AR as regulated projects were since determined to be not regulated projects as their respective approval dates (3/30/2010 and 4/21/2010) were prior to the City of Vallejo's implementation date of December 1, 2010.

The City of Vallejo is continuing work commenced in FY 12-13 to set up tools to develop a standard operating procedure for O&M including a tracking system for all public and private stormwater treatment systems, inspections, and enforcement. The City will refine these procedures as facilities are constructed and then monitor procedures to determine if changes need to be made such as increased inspection frequency. Please refer to the "Required Actions Workplan Update" attached to this report for further information.

(4) During the reporting year, did your agency:

• Inspect all newly installed stormwater treatment systems and HM controls within 45 days of installation?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Not applicable. No new facilities were installed.
• Inspect at least 20 percent of the total number of installed stormwater treatment systems or HM controls? ³	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Not applicable. No treatment measures
• Inspect at least 20 percent of the total number of installed vault-based systems?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Not applicable. No vault systems.

If you answered "No" to any of the questions above, please explain:

No stormwater treatment systems or HM controls have been installed at regulated projects in the City of Vallejo. Likewise, no vault-based systems have been installed at regulated projects as yet in the City of Vallejo.

³ If there is only 1 treatment measure in the jurisdiction, the agency must inspect it every year.

C.3.i. ► Required Site Design Measures for Small Projects and Detached Single Family Home Projects

On an annual basis, discuss the implementation of the requirements of Provision C.3.i, including ordinance revisions, permit conditions, development of standard specifications and/or guidance materials, and staff training.

Summary:

No projects creating or replacing more than 2,500 square feet but less than 10,000 square feet have been developed in the City. While standards for lot-scale BMPs have not been developed yet, the City has guidance materials for site design measures for small projects and has provided staff training. In FY 13-14, The City will develop standards for lot-scale BMPs and make them available.

C.3.b.v.(1) ► Regulated Projects Reporting Table (part 1) – Projects Approved During the Fiscal Year Reporting Period

Project Name Project No.	Project Location ¹⁰ , Street Address	Name of Developer	Project Phase No. ¹¹	Project Type & Description ¹²	Project Watershed ¹³	Total Site Area (Acres)	Total Area of Land Disturbed (Acres)	Total New Impervious Surface Area (ft ²) ¹⁴	Total Replaced Impervious Surface Area (ft ²) ¹⁵	Total Pre- Project Impervious Surface Area ¹⁶ (ft ²)	Total Post- Project Impervious Surface Area ¹⁷ (ft ²)
Private Projects											
None	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Public Projects											
None	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Comments:											

In last year's Annual Report, it was reported that no O&M inspections were performed. Since that time, the City of Vallejo determined that no Regulated Projects with stormwater treatment facilities existed in the City to be inspected last fiscal year. As a point of clarification, the Lowes Home Improvement project (Automall Parkway/N Ascot Parkway) and Dan Foley Park (E side of N. Camino Alto) that were reported in the FY 09-10 AR as regulated projects were since determined to be not regulated projects as their respective approval dates (3/30/2010 and 4/21/2010) were prior to the City of Vallejo's implementation date of December 1, 2010.

¹⁰ Include cross streets

¹¹ If a project is being constructed in phases, indicate the phase number and use a separate row entry for each phase. If not, enter "NA".

¹² Project Type is the type of development (i.e., new and/or redevelopment). Example descriptions of development are: 5-story office building, residential with 160 single-family homes with five 4-story buildings to contain 200 condominiums, 100 unit 2-story shopping mall, mixed use retail and residential development (apartments), industrial warehouse.

¹³ State the watershed(s) in which the Regulated Project is located. Downstream watershed(s) may be included, but this is optional.

¹⁴ All impervious surfaces added to any area of the site that was previously existing pervious surface.

¹⁵ All impervious surfaces added to any area of the site that was previously existing impervious surface.

¹⁶ For redevelopment projects, state the pre-project impervious surface area.

¹⁷ For redevelopment projects, state the post-project impervious surface area.

C.3.b.v.(1) ► Regulated Projects Reporting Table (part 2) – Projects Approved During the Fiscal Year Reporting Period (private projects)

Project Name Project No.	Application Deemed Complete Date ¹⁸	Application Final Approval Date ¹⁹	Source Control Measures ²⁰	Site Design Measures ²¹	Treatment Systems Approved ²²	Type of Operation & Maintenance Responsibility Mechanism ²³	Hydraulic Sizing Criteria ²⁴	Alternative Compliance Measures ^{25/26}	Alternative Certification ²⁷	HM Controls ^{28/29}
Private Projects										
None	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Comments: **While the City has not approved any Regulated Projects this year, a number of projects have been proposed. City staff is working with these developers early in the design phase to discuss issues listed in the notes below.**

¹⁸ For private projects, state project application deemed complete date. If the project did not go through discretionary review, report the building permit issuance date.

¹⁹ For private projects, state project application final discretionary approval date. If the project did not go through discretionary review, report the building permit issuance date.

²⁰ List source control measures approved for the project. Examples include: properly designed trash storage areas; storm drain stenciling or signage; efficient landscape irrigation systems; etc.

²¹ List site design measures approved for the project. Examples include: minimize impervious surfaces; conserve natural areas, including existing trees or other vegetation, and soils; construct sidewalks, walkways, and/or patios with permeable surfaces, etc.

²² List all approved stormwater treatment system(s) to be installed onsite or at a joint stormwater treatment facility (e.g., flow through planter, bioretention facility, infiltration basin, etc.).

²³ List the legal mechanism(s) (e.g., O&M agreement with private landowner; O&M agreement with homeowners' association; O&M by public entity, etc...) that have been or will be used to assign responsibility for the maintenance of the post-construction stormwater treatment systems.

²⁴ See Provision C.3.d.i. "Numeric Sizing Criteria for Stormwater Treatment Systems" for list of hydraulic sizing design criteria. Enter the corresponding provision number of the appropriate criterion (i.e., 1.a., 1.b., 2.a., 2.b., 2.c., or 3).

²⁵ For Alternative Compliance at an offsite location in accordance with Provision C.3.e.i.(1), on a separate page, give a discussion of the alternative compliance site including the information specified in Provision C.3.b.v.(1)(m)(i) for the offsite project.

²⁶ For Alternative Compliance by paying in-lieu fees in accordance with Provision C.3.e.i.(2), on a separate page, provide the information specified in Provision C.3.b.v.(1)(m)(ii) for the Regional Project.

²⁷ Note whether a third party was used to certify the project design complies with Provision C.3.d.

²⁸ If HM control is not required, state why not.

²⁹ If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), bioretention unit(s), regional detention basin, or in-stream control).

C.3.b.v.(1) ► Regulated Projects Reporting Table (part 2) – Projects Approved During the Fiscal Year Reporting Period (public projects)

Project Name Project No.	Approval Date ³⁰	Date Construction Scheduled to Begin	Source Control Measures ³¹	Site Design Measures ³²	Treatment Systems Approved ³³	Operation & Maintenance Responsibility Mechanism ³⁴	Hydraulic Sizing Criteria ³⁵	Alternative Compliance Measures ^{36/37}	Alternative Certification ³⁸	HM Controls ^{39/40}
Public Projects										
None	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Comments:

³⁰ For public projects, enter the plans and specifications approval date.

³¹ List source control measures approved for the project. Examples include: properly designed trash storage areas; storm drain stenciling or signage; efficient landscape irrigation systems; etc.

³² List site design measures approved for the project. Examples include: minimize impervious surfaces; conserve natural areas, including existing trees or other vegetation, and soils; construct sidewalks, walkways, and/or patios with permeable surfaces, etc.

³³ List all approved stormwater treatment system(s) to be installed onsite or at a joint stormwater treatment facility (e.g., flow through planter, bioretention facility, infiltration basin, etc.).

³⁴ List the legal mechanism(s) (e.g., maintenance plan for O&M by public entity, etc..) that have been or will be used to assign responsibility for the maintenance of the post-construction stormwater treatment systems.

³⁵ See Provision C.3.d.i. "Numeric Sizing Criteria for Stormwater Treatment Systems" for list of hydraulic sizing design criteria. Enter the corresponding provision number of the appropriate criterion (i.e., 1.a., 1.b., 2.a., 2.b., 2.c., or 3).

³⁶ For Alternative Compliance at an offsite location in accordance with Provision C.3.e.i.(1), on a separate page, give a discussion of the alternative compliance site including the information specified in Provision C.3.b.v.(1)(m)(i) for the offsite project.

³⁷ For Alternative Compliance by paying in-lieu fees in accordance with Provision C.3.e.i.(2), on a separate page, provide the information specified in Provision C.3.b.v.(1)(m)(ii) for the Regional Project.

³⁸ Note whether a third party was used to certify the project design complies with Provision C.3.d.

³⁹ If HM control is not required, state why not.

⁴⁰ If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), bioretention unit(s), regional detention basin, or in-stream control).

C.3.h.iv. ► Table of Installed Stormwater Treatment Systems Operation and Maintenance Verification Inspection Program Reporting

Fill in table below or attach your own table including the same information.

Name of Facility/Site Inspected	Address of Facility/Site Inspected	Newly Installed? (YES/NO) ⁴¹	Party Responsible ⁴² For Maintenance	Date of Inspection	Type of Inspection ⁴³	Type of Treatment/HM Control(s) Inspected ⁴⁴	Inspection Findings or Results ⁴⁵	Enforcement Action Taken ⁴⁶	Comments/Follow-up
None	NA	NA	NA	NA	NA	NA	NA	NA	NA

⁴¹ Indicate "YES" if the facility was installed within the reporting period, or "NO" if installed during a previous fiscal year.

⁴² State the responsible operator for installed stormwater treatment systems and HM controls.

⁴³ State the type of inspection (e.g., 45-day, routine or scheduled, follow-up, etc.).

⁴⁴ State the type(s) of treatment systems inspected (e.g., bioretention facility, flow-through planter, infiltration basin, etc...) and the type(s) of HM controls inspected, and indicate whether the treatment system is an onsite, joint, or offsite system.

⁴⁵ State the inspection findings or results (e.g., proper installation, improper installation, proper O&M, immediate maintenance needed, etc.).

⁴⁶ State the enforcement action(s) taken, if any.

C.3.e.vi.Special Projects Reporting Table

Reporting Period – January 1 – June 30, 2013

Project Name & No.	Permittee	Address	Application Submittal Date ⁴⁷	Status ⁴⁸	Description ⁴⁹	Site Total Acreage	Density DU/Acre	Density FAR	Special Project Category ⁵⁰	LID Treatment Reduction Credit Available ⁵¹	List of LID Stormwater Treatment Systems ⁵²	List of Non-LID Stormwater Treatment Systems ⁵³
None	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

⁴⁷ Date that a planning application for the Special Project was submitted.

⁴⁸ Indicate whether final discretionary approval is still pending or has been granted, and provide the date or version of the project plans upon which reporting is based.

⁴⁹ Type of project (commercial, mixed-use, residential), number of floors, number of units, type of parking, and other relevant information.

⁵⁰ For each applicable Special Project Category, list the specific criteria applied to determine applicability. For each non-applicable Special Project Category, indicate n/a.

⁵¹ For each applicable Special Project Category, state the maximum total LID Treatment Reduction Credit available. For Category C Special Projects also list the individual Location, Density, and Minimized Surface Parking Credits available.

⁵² List all LID stormwater treatment systems proposed. For each type, indicate the percentage of the total amount of runoff identified in Provision C.3.d. for the Special Project's drainage area.

⁵³ List all non-LID stormwater treatment systems proposed. For each type of non-LID treatment system, indicate: (1) the percentage of the total amount of runoff identified in Provision C.3.d. for the Special Project's drainage area, and (2) whether the treatment system either meets minimum design criteria published by a government agency or received certification issued by a government agency, and reference the applicable criteria or certification.

Section 4 – Provision C.4 Industrial and Commercial Site Controls

Program Highlights

Provide background information, highlights, trends, etc.

The City of Vallejo works closely with Vallejo Sanitation and Flood Control District (VSFCD) and with Solano County Environmental Health to perform business inspections, VSFCD is responsible for C.4 implementation. Please refer to VSFCD’s annual report for all C.4 reporting.

C.4.b.i. ► Business Inspection Plan

Do you have a Business Inspection Plan? Yes No

If No, explain:
N/A – VSFCD is responsible for C.4 implementation. Please see VSFCD’s annual report for C.4 reporting.

C.4.b.iii.(1) ► Potential Facilities List

List below or attach your list of industrial and commercial facilities in your Inspection Plan to inspect that could reasonably be considered to cause or contribute to pollution of stormwater runoff.

N/A – VSFCD is responsible for C.4 implementation at the city-wide level. Please see VSFCD’s annual report for C.4 reporting.

C.4.b.iii.(2) ► Facilities Scheduled for Inspection

List below or attach your list of facilities scheduled for inspection during the current fiscal year.

N/A – VSFCD is responsible for C.4 implementation at the city-wide level. Please see VSFCD’s annual report for C.4 reporting.

C.4.c.iii.(1) ► Facility Inspections

Fill out the following table or attach a summary of the following information. Indicate your violation reporting methodology below.		
N/A	Permittee reports multiple discrete violations on a site as one violation.	
N/A	Permittee reports the total number of discrete violations on each site.	
	Number	Percent
Number of businesses inspected	N/A	
Total number of inspections conducted	N/A	
Number of violations (excluding verbal warnings)	N/A	
Sites inspected in violation	N/A	N/A
Violations resolved within 10 working days or otherwise deemed resolved in a longer but still timely manner	N/A	N/A
Comments: N/A – VSFCDC is responsible for C.4 implementation at the city-wide level. Please see VSFCDC’s annual report for C.4 reporting.		

C.4.c.iii.(2) ► Frequency and Types/Categories of Violations Observed

Fill out the following table or attach a summary of the following information.	
Type/Category of Violations Observed	Number of Violations
Actual discharge (e.g. active non-stormwater discharge or clear evidence of a recent discharge)	N/A
Potential discharge and other	N/A
Comments: N/A – VSFCDC is responsible for C.4 implementation at the city-wide level. Please see VSFCDC’s annual report for C.4 reporting.	

C.4.c.iii.(2) ▶ Frequency and Type of Enforcement Conducted

Fill out the following table or attach a summary of the following information.

	Enforcement Action (as listed in ERP) ⁴⁸	Number of Enforcement Actions Taken	% of Enforcement Actions Taken ⁴⁹
Level 1	N/A	N/A	N/A
Level 2	N/A	N/A	N/A
Level 3	N/A	N/A	N/A
Level 4	N/A	N/A	N/A
Total	N/A	N/A	N/A

C.4.c.iii.(3) ▶ Types of Violations Noted by Business Category

Fill out the following table or attach a summary of the following information.

Business Category ⁵⁰	Number of Actual Discharge Violations	Number of Potential/Other Discharge Violations
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

C.4.c.iii.(4) ▶ Non-Filers

List below or attach a list of the facilities required to have coverage under the Industrial General Permit but have not filed for coverage:

N/A – VSFCD is responsible for C.4 implementation at the city-wide level. Please see VSFCD’s annual report for C.4 reporting.

C.4.d.iii ▶ Staff Training Summary

Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance	Percent of Inspectors in Attendance
N/A	N/A	N/A	N/A	N/A

⁴⁸ Agencies to list specific enforcement actions as defined in their ERPs.

⁴⁹ Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.

⁵⁰ List your Program’s standard business categories.

Section 5 – Provision C.5 Illicit Discharge Detection and Elimination

Program Highlights

Provide background information, highlights, trends, etc.

VSFCD is responsible for C.5 implementation at the city-wide level. Please see VSFCD’s annual report for C.5 reporting. The City of Vallejo Code Enforcement works collaboratively with VSFCD, Solano County Resource Management and various other agencies when the VSFCD requires additional assistance to address an illicit discharge.

Recology Vallejo provides residential garbage, recycling and yard waste collection service for the residents of Vallejo. In FY 12-13, the following items were collected at Recology’s permanent facility which 1,517 people used: 1, 939 fluorescent bulbs, 4,908.75 gallons of used oil, 1,514 used oil filters, 4,678 gallons of latex paint, 431.25 gallons of antifreeze, and 1,211.5 gallons of cooking oil. In addition, a total of 9,292 gallons of used oil and 4,103 used oil filters were collected through the City’s used oil curbside recycling program. All of these materials had the potential to be put down the storm drain; however, due to outreach activities and programs the City has been able to provide residents with an opportunity to recycle the items listed above properly.

C.5.c.iii ► Complaint and Spill Response Phone Number and Spill Contact List

List below or attach your complaint and spill response phone number and spill contact list.

Contact	Description	Phone Number
N/A	N/A	N/A

C.5.d.iii ► Evaluation of Mobile Business Program

Describe implementation of minimum standards and BMPs for mobile businesses and your enforcement strategy. This may include participation in the BASMAA Mobile Surface Cleaners regional program or local activities.

Description:
 The City of Vallejo and VSFCD have a collaborative approach to the Mobile Business Program. VSFCD responds to calls about improper surface cleaning and will take enforcement action or assist the City when needed. The City of Vallejo refers mobile cleaners to the BASMAA Mobile cleaner certification website. While the City makes an effort to actively monitor mobile cleaners but they typically work after hours. Refer to the C.5 Illicit Discharge Detection and Elimination section of BASMAA’s FY 12-13 Annual Report for a description of its efforts to address mobile businesses.

C.5.e.iii ► Evaluation of Collection System Screening Program

Provide a summary or attach a summary of your collection screening program, a summary of problems found during collection system screening and any changes to the screening program this FY.

Description:
 N/A – VSFCDD is responsible for C.5 implementation at the city-wide level. Please see VSFCDD’s annual report for C.5 reporting.

C.5.f.iii.(1), (2), (3) ► Spill and Discharge Complaint Tracking

Spill and Discharge Complaint Tracking (fill out the following table or include an attachment of the following information)

	Number	Percentage
Discharges reported (C.5.f.iii.(1))	2,880	
Discharges reaching storm drains and/or receiving waters (C.5.f.iii.(2))	0	0
Discharges resolved in a timely manner (C.5.f.iii.(3))	2,880	100%

Comments:
 The City documents all reported discharged dumping through our work order system. Of the 2,880 illicit dumping events in Vallejo, no evidence was found of dumped fluid reaching a storm drain. The City responds to reported dumping’s within 72 hrs.

C.5.f.iii.(4) ► Summary of major types of discharges and complaints

Provide a narrative or attach a table and/or graph.

The City of Vallejo picks up approximately 1,000 to 2,000 lbs. (documented) of illegal trash per day. Dumping within the City consists mostly of trash and household furniture. Hazardous fluids consist of paint and used motor oil, which are collected and transported to our hazardous waste holding area.

Section 6 – Provision C.6 Construction Site Controls

C.6.e.iii.1.a, b, c ▶ Site/Inspection Totals		
Number of High Priority Sites (sites disturbing < 1 acre of soil requiring storm water runoff quality inspection) (C.6.e.iii.1.a)	Number of sites disturbing ≥ 1 acre of soil (C.6.e.iii.1.b)	Total number of storm water runoff quality inspections conducted (include only High Priority Site and sites disturbing 1 acre or more) (C.6.e.iii.1.c)
0	10	69
<p>Comments:</p> <p>There were 10 active projects disturbing > 1 acre of soil consisting of:</p> <ul style="list-style-type: none"> 4 private projects, 2 City park projects, 1 City streetscape project, 1 PG&E project, 1 VSFCD project, and 1 California Maritime Academy project. <p>The number of inspections performed per site ranged from 2 to 13 depending on when the project started and project complexity. For example, one private project did not begin construction until late winter so only two inspections were performed.</p> <p>In addition, rainy season construction site inspections were performed at construction sites that were not categorized as High Priority Sites. No deficiencies in construction site controls were found at the sites and thus no enforcement action was taken.</p>		

C.6.e.iii.1.d ▶ Construction Activities Storm Water Violations		
BMP Category	Number of Violations⁵¹ excluding Verbal Warnings	% of Total Violations⁵²
Erosion Control	0	0%
Run-on and Run-off Control	0	0%
Sediment Control	3	60%
Active Treatment Systems	0	0%
Good Site Management	2	40%
Non Stormwater Management	0	0%
Total⁵³	5	100%

⁵¹ Count one violation in a category for each site and inspection regardless of how many violations/problems occurred in the BMP category. For example, if during one inspection at a site, there are 2 erosion control violations, only 1 violation would be counted for this table.

⁵² Percentage calculated as number of violations in each category divided by total number of violations in all six categories.

⁵³ The total number of violations may count more than one violation per inspection, since some inspections may result in violations in more than one category. For example, during one inspection of a site, there may have been both an erosion control violation and a sediment control violation. For this reason, the total number of violations in this table may not match the total number of enforcement actions reported in Table C6.e.iii.1.e.

C.6.e.iii.1.e ► Construction Related Storm Water Enforcement Actions

	Enforcement Action (as listed in ERP) ⁵⁴	Number Enforcement Actions Issued	% Enforcement Actions Issued ⁵⁵
Level 1 ⁵⁶	Warning Notice/Education	5	100%
Level 2	Notice of Violation	0	0%
Level 3	Formal Enforcement (Administrative Citation, Cost Recovery)	0	0%
Level 4	Legal Action and/or Referral to State and Federal Agencies	0	0%
Total			100%

C.6.e.iii.1.f, g ► Illicit Discharges

	Number
Number of illicit discharges, actual and those inferred through evidence at high priority sites and sites that disturb 1 acre or more of land (C.6.e.iii.1.f)	0
Number of sites with discharges, actual and those inferred through evidence at high priority sites and sites that disturb 1 acre or more of land (C.6.e.iii.1.g)	0

⁵⁴ Agencies should list the specific enforcement actions as defined in their ERPs.

⁵⁵ Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.

⁵⁶ For example, Enforcement Level 1 may be Verbal Warning.

C.6.e.iii.1.h, i ► Violation Correction Times

	Number	Percent
Violations (excluding verbal warnings) fully corrected within 10 business days after violations are discovered or otherwise considered corrected in a timely period (C.6.e.iii.1.h)	5	100% ⁵⁷
Violations (excluding verbal warnings) not fully corrected within 30 days after violations are discovered (C.6.e.iii.1.i)	0	0% ⁵⁸
Total number of violations (excluding verbal warnings) for the reporting year ⁵⁹	5	100%
<p>Comments: Documentation of violation correction times is not complete for 3 of the 5 violations. In one of the violations, it is noted that the violation (dust control) was corrected but the time frame is not documented; given the nature of the violation, it is assumed that the violation was immediately corrected with water suppression measures. For the other two violations, the violations are not noted to be corrected and there are no follow-up inspections. City staff recollection is that the violations (silt fence down at City park construction project) were corrected but not documented.</p>		

C.6.e.iii.(2) ► Evaluation of Inspection Data

Describe your evaluation of the tracking data and data summaries and provide information on the evaluation results (e.g., data trends, typical BMP performance issues, comparisons to previous years, etc.).
<p>Description: There is a marked improvement in the inspection data collected this year over last year, with a large increase in the number of inspections performed and documented. In FY 11-12, 1.3 inspections were performed per site disturbing greater than 1 acre; in FY 12-13, 5 inspections were performed per site. It can be assumed that outreach to contractors was more effective as only 10% of the inspections this year resulted in violations whereas last year, over 50% of the inspections resulted in violations. Areas needing improvement are documentation of follow-up inspections for violations and documentation of construction start date and completion date.</p>

C.6.e.iii.(2) ► Evaluation of Inspection Program Effectiveness

Describe what appear to be your program’s strengths and weaknesses, and identify needed improvements, including education and outreach.
<p>Description:</p>

⁵⁷ Calculated as number of violations fully corrected in a timely period after the violations are discovered divided by the total number of violations for the reporting year.
⁵⁸ Calculated as number of violations not fully corrected within 30 days after the violations are discovered divided by the total number of violations for the reporting year.
⁵⁹ The total number of violations reported in the table of Violation Correction Times equals the number of initial enforcement actions. This assumes one violation is issued for several problems during an inspection at a site. The total number of violations in the table of Violation Correction Times may not equal the total number of enforcement actions because one violation issued at a site may have a second enforcement action for the same violation at the next inspection if it is not corrected.

As indicated in the FY 11-12 Annual Report, the City of Vallejo established inspection and documentation procedures this reporting year. This year, the City implemented use of a stormwater-specific inspection form as well as use of a spreadsheet to track all inspections. Formal training in the use of the inspection form was provided to City staff on April 18, 2013 (12 staff) and May 2, 2013 (13 staff). All staff from the following department divisions attended the training: Building Division of the Economic Development Department; Land Management Division, Community Development, Inspection, and Capital Improvement Program of the Engineering Division. All staff performing construction site controls inspections were present at one of the training dates. (B. Pleasanton performed inspections but was not at either training since his tenure with the City was terminated prior to the training.) Additional staff training is planned for September 2013 to review procedures for follow-up inspections; documentation procedures for violations, project startup, and project completion; and use of tracking tools to remind inspection staff to perform monthly inspections.

Please refer to the "Required Actions Workplan Update" attached to this report for further information.

C.6.f ► Staff Training Summary

Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance	Percent of Inspectors in Attendance
C.6 Construction Site Control Training	April 18, 2013 and May 2, 2013	<ul style="list-style-type: none"> • What Projects Require BMPs and Inspection • Your Authority to Inspect • Requirements of Provision C.6 • Inspect, Enforce, Track, Report • The Enforcement Response Plan (ERP) 	10	100%

Section 7 – Provision C.7. Public Information and Outreach

C.7.a ► Storm Drain Inlet Marking (existing storm drains)

(For FY 12-13 Annual Report only) Report prior years' estimated annual percentages of municipality maintained storm drain inlet markings inspected and maintained as legible with a no dumping message or equivalent. At least 80% of municipality-maintained storm drain inlet markings shall be inspected and maintained at least once per 5-year permit term.

Summary:

Estimated annual percentage of stenciled municipality storm drain inlets that were inspected and maintained as legible:

2009-10: N/A%

2010-11: N/A%

2011-12: 7.68%

2012-13: 2.43%

The City of Vallejo has a program in place to install drain placards on its 6,000 inlets. Records are kept of locations and installation date. Records are available upon request.

C.7.a ► Storm Drain Inlet Marking (newly-constructed, privately-maintained streets)

(For FY 12-13 Annual Report only) Report prior years' annual number of projects accepted after inlet markings were verified. For newly-approved, privately-maintained streets, permittees shall require inlet marking by the project developer upon construction and maintenance of markings through the development maintenance entity. Markings shall be verified prior to acceptance of the project.

Summary:

Annual number of newly-constructed, privately-maintained streets for which inlets were marked:

2009-10: 0 projects

2010-11: 0 projects

2011-12: 0 projects

2012-13: 0 projects

Marking of storm drain inlets is required for all projects including those with privately-maintained streets. The installation of markers is verified at the final inspection prior to final acceptance/approval of a project. Due to the economy, no new private streets have been constructed during the indicated periods.

C.7.b.ii.1 ► Advertising Campaign

Summarize advertising efforts. Include details such as messages, creative developed, and outreach media used. The detailed advertising report may be included as an attachment. If advertising is being done by participation in a countywide or regional program, refer to the separate countywide or regional Annual Report.

Summary:

Please refer to BASMAA’s Annual Report, Section C.7, for reporting on public information and outreach activities conducted regionally.

Locally, three print media campaigns were published in local magazines targeting reduced household water use as well as promoting/improving outdoor landscape water efficiency: (1) Fall 2012 GVRD Activity Guide, ½ page ad , Water by the Holidays diagram designed to remind water users to turn off their outdoor irrigation; (2) The Monthly Grapevine, March 2013, ½ page ad, Water-Wise Landscape Workshop ad highlighting the content provided in the 2013 landscape workshops, (3) Spring 2013 GVRD Activity Guide, ½ page ad, Water-Wise Landscape Workshop ad, also highlighting the content provided in the 2013 landscape workshops.

In addition, the City of Vallejo participated in the 2012 Regional Holiday campaign with Yolo County jurisdictions with the goal of reducing waste during the holiday season. The campaign airs several holiday recycling TV spots on broadcast television (to view the spot, visit [www.Holiday Recycling.com](http://www.HolidayRecycling.com)). In addition, the website includes tips to reduce waste such as using reusable bags, There was also placement of messages on electronic billboards and news release distribution/solicitation to all print and broadcast media on 12/25 and 1/1 to garner news stories on waste reduction and recycling.

C.7.b.iii.1 ► Pre-Campaign Survey

(For the Annual Report following the pre-campaign survey) Summarize survey information such as sample size, type of survey (telephone survey, interviews etc.). Attach a survey report that includes the following information. If survey was done regionally, refer to a regional submittal that contains the following information:

Place an X in the appropriate box below:

<input type="checkbox"/>	Survey report attached
<input checked="" type="checkbox"/>	Reference to regional submittal: BASMAA Youth Litter Campaign Report conducted in FY 11-12

C.7.c ► Media Relations

Summarize the media relations effort. Include the following details for each media pitch in the space below, AND/OR refer to a regional report that includes these details:

- Topic and content of pitch
- Medium (TV, radio, print, online)
- Date of publication/broadcast

Summary:

Please refer to BASMAA's "MRP Regional Supplement for Training and Outreach Report" for a summary of media relations efforts conducted during FY 12-13 on behalf of all Permittees.

In addition, please refer to Section C.7.b.ii.1 (Advertising Campaign) for information regarding the three print media campaigns targeting reduced household water use and improving outdoor landscape water efficiency as well as the TV/online campaign to reduce waste during the holiday season.

C.7.d ► Stormwater Point of Contact

Summary of any changes made during FY 12-13:
 City of Vallejo Point of Contact is now the City Engineer. Refer to Section 1 for specific information.

C.7.e ► Public Outreach Events

Describe general approach to event selection. Provide a list of outreach materials and giveaways distributed.
 Use the following table for reporting and evaluating public outreach events

Event Details	Description (messages, audience)	Evaluation of Effectiveness
Loma Vista Farm Harvest Festival 11/13/12	Community fair: target is homeowners and school children. Provided water conservation information and giveaways.	Attendance estimated at 850 people.
Loma Vista Springfest Festival 5/18/13	Community fair: target is homeowners and school children. Provided water conservation information and giveaways.	Attendance estimated at 650 people.
Solano County Youth Ag Day 3/19/13	Environmental student fair for elementary school children. Provided water conservation information and interactive activities.	Countywide attendance resulted in 3,000 student contacts.
City of Vallejo Public Works Week Celebration 5/19/13 & 5/20/13	Public event for homeowners and school children. A hands-on enviroscape demonstrated how urban commercial and residential practices impact our local watershed and its drinking water sources.	Attendance estimated at 250 students and 500 adults.

<p>Downtown Vallejo Earth Day Celebration, April 20, 2013</p>	<p>This event is held in conjunction with the Farmers Market; therefore, the audience is broad but the City uses this event to do one on one contact with individuals. The event included jugglers and performances by Earthcapdes promoting environmental awareness, kids craft projects & games, California native plant sale, info on less-toxic products for your garden and water conservation, a recycled art contest, and mercury thermometer exchange program sponsored by the VSFC. This year the City really promoted reusable bags and gave away approximately 150 reusable bags. In order to get the bag, residents had to pledge to use the bag in lieu of using a single-use plastic bag.</p>	<p>Attendance estimated at 1,000 people. A total of 150 residents pledged to use the reuseable bag they were given. The feedback that we received was that they thought what we were doing was awesome. In addition, 75% people had no idea of the environmental impact that single-use plastic bags had on the environment. Each year this event continues to grow and we believe that more people attended then previous years.</p>
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C.7.f. ► Watershed Stewardship Collaborative Efforts

Summarize watershed stewardship collaborative efforts and/or refer to a regional report that provides details. Describe the level of effort and support given (e.g., funding only, active participation etc.). State efforts undertaken and the results of these efforts. If this activity is done regionally refer to a regional report.

Evaluate effectiveness by describing the following:

- Efforts undertaken
- Major accomplishments

- Summary:**
1. During a series of free water-wise landscape workshops for residential water customers held in April/May 2013, master gardeners covered the topics associated with pest control and pesticide applications. The Water Division also provided handouts that stress reduced use of pesticides to control pests and encourage the use of "Bay Friendly", native plants that have developed natural defenses to ward off insects pests and diseases, minimizing the use of pesticides.
 2. The City Water Division continues to work closely with Vallejo Sanitation & Flood Control District to educate the public regarding pollution and storm water run-off by allocating time for presentations at water-wise landscape and Project WET Teaching workshops.
 3. The City Water Division continues to coordinate drinking water conservation efforts with the local environmental conservation groups by

- attending and participating in annual planning meetings held by the City of Vallejo Watershed Alliance.
4. The City Water Division attended planning meetings and worked closely with the City of Vallejo Unified School District and the Vallejo Sanitation & Flood Control District to develop and implement new STEAM-E (Science Technology, Engineering, Arts, Mathematics, English) water education curriculum in Vallejo’s middle school classrooms. The City provided funding for water sampling kits and other needed supplies and made multiple presentations in all three middle schools.
 5. In collaboration with Solano County Water Agency, the City Water Division runs a residential water survey program where landscape water sprinkler discharge is closely analyzed to maximize efficiency to help reduce water waste and run-off. In FY 2012-2013, a total of 156 surveys were performed. The water savings from each home water survey performed is averaging 70 gallons per day in water savings through leak detection and/or reduction in irrigation scheduling.
 6. VALCORE, VSFCD, and the Solano Resource Conservation District organized Vallejo’s Coastal Cleanup Day. In September 2012, 940 Vallejo volunteers collected 67,060 pounds of garbage and 1,790 pounds of recyclables from 22 miles of Vallejo waterways. (Note: Vallejo Community Organizations Recycling (VALCORE), Inc. is a coalition of local organizations working together to provide fund-raising opportunities for our Non-Profit Member Groups while providing a recycling service to our community). For additional information about coastal cleanup events, please refer to VSFCD’s annual report.

C.7.g. ► Citizen Involvement Events

List the types of events conducted (e.g., creek clean up, storm drain inlet marking, native gardening etc.). Use the following table for reporting and evaluating citizen involvement events.

Event Details	Description	Evaluation of effectiveness
City of Vallejo Public Works Celebration 5/19/13	Provided guided drinking water treatment plant tours to the public. Provided flyers and pamphlets about receiving water quality issues such as: alternatives to pesticides, picking up after your dog and pool maintenance.	Attendance by 750 residents far exceeded prior year attendance numbers.
Water-Wise Landscape Workshops	During a series of free water-wise landscape workshops for residential water customers held in April/May 2013, master gardeners covered the topics associated with pest control and pesticide applications. The Water Division also provided handouts that stress reduced use of pesticides to control pests and encourage the use of “Bay Friendly”, native plants that have developed natural defenses to ward off insects pests and diseases.	A total of 172 people attended the workshops. The attendees completed surveys; one such survey is included in Attachment C.7.

Residential Water Survey Program (available to all residents)	In collaboration with Solano County Water Agency, the City Water Division runs a residential water survey program where landscape water sprinkler discharge is closely analyzed to maximize efficiency to help reduce water waste and run-off.	In FY 2012-2013, a total of 156 surveys were performed. The water savings from each home water survey performed is averaging 70 gallons per day in water savings through leak detection and/or reduction in irrigation scheduling.
Composting Workshops – August 4, 2012, October 6, 2012, and November 3, 2012	VALCORE Recycling hosted four (4) free composting workshops for unincorporated Solano County and City of Vallejo residents. In exchange for allowing Vallejo residents to attend the Solano County workshops, the City of Vallejo provided compost bins to be sold at the workshops at a discounted price. The composting classes are hands on and participants are taught composting and vermicomposting.	A total of 33 participants attended the workshops. There is a question and answer period after each composting class and several questions are asked regarding what was taught.

C.7.h. ► School-Age Children Outreach

Summarize school-age children outreach programs implemented. A detailed report may be included as an attachment. Use the following table for reporting school-age children outreach efforts.

Program Details	Focus & Short Description	Number of Students/Teachers reached	Evaluation of Effectiveness
School Water Education Program – interactive classroom presentations	Environmental education with a focus on water conservation.	69 Teachers 1,980 Student Contacts	Teacher surveys reflect 100% satisfaction with program. Attachment C.7 contains one of the teach surveys.
Zun-Zun and Rock Steady Juggling Assemblies	Student assemblies with water topics and environmental education focus.	26 Assemblies, 4,912 student contacts estimated	Continued backlog in service requests and 100% positive feedback recorded on teacher surveys. Program report including feedback is included in Attachment C.7.
Sponsorship and coordination of environmental field trips to local water reservoir/watershed	Lake Berryessa & Loma Vista Farm field trips and tour of watershed performed by United States Bureau of Reclamation Park Rangers.	7 Teachers 281 Students 56 Adults	Feedback forms currently under development.
Sponsorship of Solano County	Environmental education focuses on	6 Vallejo schools	Pre- and post-trip 6 question assessments

Watershed Explorers Program	creeks/watersheds as unique environments, importance of water quality, and the impacts of urban runoff.	17 classes 531 students 115 adults	administered by teachers show a 21% increase in correct/ partially correct answers. A summary report of the 2013 Watershed Explorers Program is included in Attachment C.7.
STEAM E curriculum development and implementation	Protection of local watersheds and drinking water sources.	10 Teachers 15 Classrooms 525 Students	Formally recognized by School District Superintendent for excellence and educational effectiveness (certificate of recognition included in Attachment C.7).
Public Works Week	Tours of the City's Corporation Yard and educational information – including water conservation and trash minimization and pickup	3 elementary schools 250 students	Students were interested and involved with the activities presented. No formal post-event surveys were sent.

Attachment C.7 contains photos and feedback from various outreach and involvement activities.

C.7.i. ► Outreach to Municipal Officials

(For FY 12-13 Annual Report only) Summarize outreach conducted to increase the overall awareness of stormwater and/or watershed messages among municipal officials.

Summary:
 City of Vallejo staff presented two reports to City Council that increased the Council's awareness of stormwater issues. On October 9, 2012, City staff presented a staff report and resolution regarding implementation of a pilot stormwater retrofit project and entering into an agreement with BASMAA (please refer to VSFCD's annual report or the BASMAA Regional Pollutants of Concern Report for FY 2012-2013 for further information). On November 5, 2011, City staff presented to Council regarding the award of contract for development of the hydromodification management plan. Since then, hydromodification management has been a topic discussed with City officials as private projects are proposed.

Section 8 - Provision C.8 Water Quality Monitoring

C.8 ► Water Quality Monitoring

State below if information is reported in a separate regional report. Municipalities can also describe below any Water Quality Monitoring activities in which they participate directly, e.g. participation in RMP workgroups, fieldwork within their jurisdictions, etc.

Summary

During FY 12-13, the City contributed through VSFCD to the BASMAA Regional Monitoring Coalition (RMC) as well as to the Regional Monitoring Program for Water Quality in the San Francisco Estuary (RMP). Monitoring efforts and results are documented in a separate report submitted March 15 of each year, as required in Provision C.8. For additional information on monitoring activities conducted by BASMAA RMC and the RMP, see the C.8 Water Quality Monitoring section of the Program's FY 12-13 Annual Report.

Section 9 – Provision C.9 Pesticides Toxicity Controls

C.9.b ► Implement IPM Policy or Ordinance					
Report implementation of IPM BMPs by showing trends in quantities and types of pesticides used, and suggest reasons for increases in use of pesticides that threaten water quality, specifically organophosphates, pyrethroids, carbaryl, and fipronil. A separate report can be attached as evidence of your implementation.					
Trends in Quantities and Types of Pesticides Used ⁶⁰					
Pesticide Category and Specific Pesticide Used	Amount ⁶¹				
	FY 09-10	FY 10-11	FY 11-12	FY 12-13	FY 13-14
Organophosphates	0	0	0	0	
Pyrethroids	0	0	0	0.88 fl. oz.	
Permethrin				0.88 fl. oz.	
Carbaryl	0	0	0	0	
Fipronil	0	0	0	8.02 fl. oz.	

C.9.c ► Train Municipal Employees	
Enter the number of employees that applied or used pesticides (including herbicides) within the scope of their duties this reporting year.	5
Enter the number of these employees who received training on your IPM policy and IPM standard operating procedures within the last 3 years.	5
Enter the percentage of municipal employees who apply pesticides who have received training in the IPM policy and IPM standard operating procedures within the last three years.	100%

⁶⁰ Includes all municipal structural and landscape pesticide usage by employees and contractors.

⁶¹ Weight or volume of the product or preferably its active ingredient, using same units for the product each year. The active ingredients in any pesticide are listed on the label. The list of active ingredients that need to be reported in the pyrethroids class includes: allethrin, bifenthrin, beta-cyfluthrin, bioallethrin, cyfluthrin, cypermethrin, cyphenothrin, deltamethrin, esfenvalerate, etofenprox, fenpropathrin, gamma-cyhalothrin, imiprothrin, lambda-cyhalothrin, metofluthrin, permethrin, phenothrin, prallethrin, resmethrin, sumithrin (d-phenothrin), tau-fluvalinate, tefluthrin, tetramethrin, tralomethrin, cis-permethrin, and zeta-cypermethrin.

C.9.d ▶ Require Contractors to Implement IPM			
Did your municipality contract with any pesticide service provider in the reporting year?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
If yes, attach one of the following:			
<input type="checkbox"/>	Contract specifications that require adherence to your IPM policy and standard operating procedures, OR		
<input checked="" type="checkbox"/>	Copy(ies) of the contractors' IPM certification(s) or equivalent, OR		
<input type="checkbox"/>	Equivalent documentation.		
<p>If Not attached, explain:</p> <p>The City of Vallejo contracts with various firms that serve as pesticide service providers. The Land Maintenance Division of Public Works contracts with Coast Landscape Management, D & H Landscaping, New Image Landscape, and North Bay Landscape Management for landscape maintenance of COV lands; staff from these firms are Bay-Friendly Landscape Qualified Professionals (see Attachment C.9). Public Works also contracts with Vallejo Golf Club, Inc. for maintenance of the city golf course (Blue Rock Springs Golf Course) and with Clark Pest Control for structural pest control services. Copies of the IPM certifications/training for Clark Pest Control and for the Vallejo Golf Club staff person responsible for pesticide application are included in Attachment C.9.</p> <p>Greater Vallejo Recreation District (GVRD) maintains numerous City recreation facilities and has 12 staff who apply herbicides. GVRD staff are not City of Vallejo employees and for the purposes of this report, are considered contractors to the City. GVRD staff either have spray certificates, licenses, PCA and/or receive annual training. Documentation of GVRD staff training and certificates are included in Attachment C.9.</p> <p>While not City of Vallejo employees, two staff from Vallejo Golf Club and 13 staff from GVRD received training in the City's IPM Program and Policy in May 2013.</p>			

C.9.e ▶ Track and Participate in Relevant Regulatory Processes
Summarize participation efforts, information submitted, and how regulatory actions were affected OR reference a regional report that summarizes regional participation efforts, information submitted, and how regulatory actions were affected.
<p>Summary:</p> <p>During FY 12-13, the City participated in regulatory processes related to pesticides through contributions to BASMAA and CASQA through VSFC. For additional information, see the Regional Pollutants of Concern Report submitted by BASMAA on behalf of all MRP Permittees.</p>

C.9.f ▶ Interface with County Agricultural Commissioners

Did your municipal staff observe any improper pesticide usage or evidence of improper usage (e.g., pesticides in storm drain systems, along street curbs, or in receiving waters) during this fiscal year?

<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
--------------------------	-----	-------------------------------------	----

If yes, provide a summary of improper pesticide usage reported to the County Agricultural Commissioner and follow-up actions taken to correct any violations. A separate report can be attached as your summary.

**C.9.g. ► Evaluate Implementation of Source Control Actions
Relating to pesticides**

(For FY 12-13 Annual Report only) Submit a report that evaluates; 1) the effectiveness of control measures implemented, and 2) attainment of pesticide concentration and toxicity targets for water and sediment from monitoring data (Provision C.8.). If needed, the report should include the following:

- Improvements to existing control measures and/or additional control measures required.
- A plan to implement improved and/or new control measures.

Summary:

To ensure that the City's IPM Program is working, the City has engaged in significant training of municipal staff. On May 23 and 30, 2013, 13 City of Vallejo staff received training in the City's IPM Program. Staff trained were from the Engineering/Land Management, Maintenance and Water Divisions. While not City of Vallejo employees, two staff from Vallejo Golf Club and 13 staff from GVRD received training in the City's IPM Program and Policy in May 2013; all staff from both entities that apply or use pesticide attended the training. In addition to this internal training, seven City staff are Bay-Friendly Landscape Qualified Professionals (see Attachment C.9). All landscape contractors to the City's Public Works Maintenance Division are Bay-Friendly Landscape Qualified Professionals. Continuing this training effort, Bay-Friendly Landscape training of GVRD and Vallejo Golf Club staff is planned for FY 13-14.

The City's contractors have embraced the IPM Program and are focusing on prevention of pest problems, rather than treatment, and in doing so minimizing the negative impact on human health, the environment, and non-target organisms. Efforts to eliminate/reduce application of pre-emergent herbicides include the regular use of wood chips as a method of weed control. Use of Roundup Pro by one contractor has been reduced by changing the rate of application; timing of this spot spraying is critical to assure the weeds are killed while they are young and tender allowing use of a lower concentration and to prevent any weeds from going to seed which would require further applications of chemicals. Other IPM measures that have been taken to reduce the usage of pesticides in City of Vallejo are included in Attachment C.9 (see IPM Weed Control Program for Coast Landscape for the Year 2013-2014). Annual meetings with contractors to review pest control practices are conducted to ensure that contractors are aware of pesticides not approved for use and share lessons learned by the City's other landscape contractors.

C.9.h.ii ► Public Outreach: Point of Purchase

Provide a summary of public outreach at point of purchase, and any measurable awareness and behavior changes resulting from outreach (here or in a separate report); **OR** reference a report of a regional effort for public outreach in which your agency participates.

Summary:

Please refer to VSFCD's Annual Report for information regarding to public outreach at the point of purchase, specifically the Our Water, Our World program.

C.9.h.iv ► Pest Control Contracting Outreach

(For FY 12-13 Annual Report only) Document effectiveness of outreach to residents who use or contract for structural or landscape pest control **OR** reference a regional report that summarizes these actions.

Summary:

See the C.9 Pesticides Toxicity Control section of BASMAA's FY 12-13 Annual Report for a summary of the City's participation in and contributions towards regional public outreach to pest control operators and landscapers to reduce pesticide use.

Please also refer to VSFC's annual report for information about outreach to residents via OWOW and the evaluation of effectiveness of IPM messages.

In addition, the City sponsored a series of free water-wise landscape workshops for the City's residential water customers that were held in April and May 2013. A total of 172 residents attended these workshops in FY 12-13, which represents an approximate 10% increase from the previous year. Master gardeners covered the topics associated with pest control and pesticide applications. The City's Water Division also provides handouts that stress reduced use of pesticides to control pests and encourage the use of native plants that have developed natural defense to ward off insect pests and diseases.

C.9.h.vi ► Public Outreach: Pest Control Operators

Provide a summary of public outreach to pest control operators and landscapers and reduced pesticide use (here or in a separate report); **OR** reference a report of a regional effort for outreach to pest control operators and landscapers in which your agency participates.

Summary:

See the C.9 Pesticides Toxicity Control section of BASMAA's FY 12-13 Annual Report for a summary of the City's participation in and contributions towards regional public outreach to pest control operators and landscapers to reduce pesticide use.

Response to Water Board Staff Comments on Section 9, Provision C.9, of FY 11-12 Annual Report

Use this area to respond to any Water Board staff comments on Section 9 of your FY 11-12 Annual Report, and refer to any required submittals that are attached. **No comments received.**

Section 10 - Provision C.10 Trash Load Reduction

C.10.a.iii ► Minimum Full Trash Capture (Summary of Actions)

Provide the following:

- 1) Descriptions of actions/tasks initiated, conducted or completed in implementing Minimum Full Trash Capture Devices (due July 1, 2014), including numbers of devices, device types and total land area treated to-date by full capture devices;
- 2) Descriptions of planned actions/tasks and time schedules for completion;
- 3) A map that includes locations of all full capture devices installed (private and public) to-date and associated treatment areas, trash generation rates/areas, creek/shoreline trash hot spots, and trash management areas defined to-date.
- 4) A summary of maintenance activities implemented for each device or groups of devices, including descriptions of typical maintenance frequencies and issues associated with maintaining these devices.

Descriptions of Actions/Tasks (Conducted or Planned):

**N/A - VSFCD is responsible for C.10 implementation.
Please see VSFCD's annual report for all of Section C.10 information.**

Descriptions of Maintenance Activities:

**N/A - VSFCD is responsible for C.10 implementation.
Please see VSFCD's annual report for all of Section C.10 information.**

C.10.a.iii ► Minimum Full Trash Capture (List of Devices)

Provide a list of trash full capture devices installed to-date or planned for installation by July 1, 2014 and the land area treated by each device or group of devices.

N/A - VSFCDD is responsible for C.10 implementation.
 Please see VSFCDD's annual report for all of Section C.10 information.

Applicable Trash Management Area (Preliminary Map ID)	Device Type	Planned or Installed	Maintenance Frequency	Total Number Installed	Total Area Treated (acres)
N/A	N/A	N/A	N/A	N/A	N/A
Totals				N/A	N/A

C.10.b.iii ► Trash Hot Spot Assessment

Provide the volume of material removed from each Trash Hot Spot cleanup, and the dominant types of trash (e.g., glass, plastics, paper) removed and their sources to the extent possible. Additionally, include a map that identifies the location(s) of trash hot spots.

Please see VSFCDD's annual report for all of Section C.10 information.

Trash Hot Spot	Cleanup Date	FY 2012-13 Volume of Trash Removed (cubic yards)	FY 2011-12 Volume of Trash Removed (cubic yards)	FY 2010-11 Volume of Trash Removed (cubic yards)	Dominant Type(s) of Trash	Trash Sources (where possible)
N/A	N/A	N/A	N/A	N/A	N/A	N/A

C.10.c ► Long-Term Trash Load Reduction Plan	
Provide descriptions of the progress made to-date on the development of Long-term Trash Load Reduction Plans due to the Water Board by February 1, 2014. Please see VSFCD's annual report for all of Section C.10 information.	
Long-Term Plan Task	Summary of Progress
1. Identifying and mapping trash generating areas	N/A - VSFCD is responsible for C.10 implementation. Please see VSFCD's annual report for all of Section C.10 information.
2. Identifying trash sources (as necessary or feasible) to assist in selecting trash management actions	N/A - VSFCD is responsible for C.10 implementation. Please see VSFCD's annual report for all of Section C.10 information.
3. Prioritizing trash generating areas and associated types of trash problems	N/A - VSFCD is responsible for C.10 implementation. Please see VSFCD's annual report for all of Section C.10 information.
4. Identifying and selecting trash management actions for specific management areas	N/A - VSFCD is responsible for C.10 implementation. Please see VSFCD's annual report for all of Section C.10 information.
5. Defining the type of assessment(s) that will be used to demonstrate progress towards goals	N/A - VSFCD is responsible for C.10 implementation. Please see VSFCD's annual report for all of Section C.10 information.

C.10.d ► Summary of Trash Reduction Actions				
For each trash reduction action (i.e., control measures and best management practices) implemented by your municipality during the reporting period include a full description of the action. Describe actions initiated prior to and continued after the MRP effective date (December 2009), actions initiated after the MRP effective date, and actions planned for future implementation. If a planned action, also include the planned date of implementation. Add rows for actions not listed below as needed. Also identify the dominant source of trash and dominant types of trash removed for each action. To the extent possible, identify the applicable management areas identified on the map created under reporting section C.10.a.iii.				
Action	Description	Trash Management Area(s) (Preliminary Map ID)	Dominant Sources	Dominant Types
Trash Management Area Specific Actions				
Full-Capture Treatment Devices	Continued Pre-MRP Actions: Please see VSFCO's annual report.	N/A	N/A	N/A
	New/Enhanced Post-MRP Actions Initiated/Planned: Please see VSFCO's annual report.	N/A		
Street Sweeping	Continued Pre-MRP Actions: Please see VSFCO's annual report.	N/A	N/A	N/A
	New/Enhanced Post-MRP Actions Initiated/Planned: Please see VSFCO's annual report. The City and VSFCO will coordinate to determine if increased street sweeping is an effective trash reduction action.	N/A		
On-land Trash Cleanups	Continued Pre-MRP Actions: Please see VSFCO's annual report.	N/A	N/A	N/A
	New/Enhanced Post-MRP Actions Initiated/Planned: Please see VSFCO's annual report.	N/A		
Partial-Capture Treatment Devices	Continued Pre-MRP Actions: Please see VSFCO's annual report.	N/A	N/A	N/A
	New/Enhanced Post-MRP Actions Initiated/Planned: Please see VSFCO's annual report.	N/A		
Enhanced Storm Drain Inlet Maintenance	Continued Pre-MRP Actions: Please see VSFCO's annual report.	N/A	N/A	N/A
	New/Enhanced Post-MRP Actions Initiated/Planned: Please see VSFCO's annual report.	N/A		

Activities to Reduce Trash from Uncovered Loads	Continued Pre-MRP Actions: Please see VSFCO's annual report.	N/A	N/A	N/A
	New/Enhanced Post-MRP Actions Initiated/Planned: Please see VSFCO's annual report.	N/A		
Anti-littering and Illegal Dumping Enforcement Activities	Continued Pre-MRP Actions: Please see VSFCO's annual report.	N/A	N/A	N/A
	New/Enhanced Post-MRP Actions Initiated/Planned: Please see VSFCO's annual report.	N/A		
Improved Trash Bins/Container Management	Continued Pre-MRP Actions: Please see VSFCO's annual report.	N/A	N/A	N/A
	New/Enhanced Post-MRP Actions Initiated/Planned: Please see VSFCO's annual report.	N/A		
Creek, Channel, Shoreline Cleanups	Continued Pre-MRP Actions: Please see VSFCO's annual report.	N/A	N/A	N/A
	New/Enhanced Post-MRP Actions Initiated/Planned: Please see VSFCO's annual report.	N/A		
Area/Jurisdictional-wide Actions				
Single-Use Carryout Bag Policies	Continued Pre-MRP Actions: Please see VSFCO's annual report.	Jurisdiction-wide	N/A	N/A
	New/Enhanced Post-MRP Actions Initiated/Planned: Please see VSFCO's annual report.			
Polystyrene Foam Food Service Ware Policies	Continued Pre-MRP Actions: Please see VSFCO's annual report.	Jurisdiction-wide	N/A	N/A
	New/Enhanced Post-MRP Actions Initiated/Planned: Please see VSFCO's annual report.			
Public Education and Outreach Programs	Continued Pre-MRP Actions: Please see VSFCO's annual report.	Jurisdiction-wide	N/A	N/A
	New/Enhanced Post-MRP Actions Initiated/Planned: Please see VSFCO's annual report.			

Section 11 - Provision C.11 Mercury Controls

C.11.a.i ► Mercury Recycling Efforts

List below or attach lists of efforts to promote, facilitate, and/or participate in collection and recycling of mercury containing devices and equipment at the consumer level (e.g., thermometers, thermostats, switches, bulbs).

Recology Vallejo, the City of Vallejo franchise waste hauler, provides residential garbage, recycling and yard waste collection service for the residents of Vallejo, including multi-family units - more than 30,000 customers. Recology Vallejo customers may also drop-off fluorescent bulbs at the main Recology Vallejo recycling facility. In addition, please see VSFCO's annual report for additional Section C.11 information.

C.11.a.ii ► Mercury Collection

Provide an estimate of the mass of mercury collected through these efforts, or provide a reference to a report containing this estimate.

Information below is based on materials collected by Recology, Please see VSFCO's annual report for additional Section C.11 information.

Mercury Containing Device/Equipment	Total Amount of Devices Collected	Estimated Mass of Mercury Collected
Fluorescent Lamps ⁶² (linear feet)	N/A	N/A
CFLs ⁶³ (each)	1,939	7.8 kg (assuming 4 mg/CFL)
Thermostats ⁶⁴ (each)	N/A	N/A
Thermostats (lbs)	N/A	N/A
Thermometers (each)	See VSFCO Annual Report	See VSFCO Annual Report
Switches (lbs)	N/A	N/A
Total Mass of Mercury Collected During FY 2012-2013:		7.8 kg

⁶² Only linear fluorescent lamps should be included

⁶³ Only compact fluorescent lamps should be included

⁶⁴ Thermostats can be reported by quantity or by pounds. Whichever unit is used, please avoid double-counting.

- C.11.b ▶ Monitor Methylmercury**
- C.11.c ▶ Pilot Projects to Investigate and Abate Mercury Sources in Drainages**
- C.11.d ▶ Pilot Projects to Evaluate and Enhance Municipal Sediment Removal and Management Practices**
- C.11.e ▶ Conduct Pilot Projects to Evaluate On-Site Stormwater Treatment via Retrofit**
- C.11.f ▶ Diversion of Dry Weather and First Flush Flows to POTWs**
- C.11.g ▶ Monitor Stormwater Mercury Pollutant Loads and Loads Reduced**
- C.11.h ▶ Fate and Transport Study of Mercury In Urban Runoff**
- C.11.i ▶ Development of a Risk Reduction Program Implemented Throughout the Region**
- C.11.j ▶ Develop Allocation Sharing Scheme with Caltrans**

State below if information is reported in a separate regional report. Municipalities that participate directly in regional activities to can provide descriptions below.

Summary

A summary of regional accomplishments for these sub-provisions is included within the C.11 Mercury Controls section of the BASMAA 12-13 Regional POC Report.

Section 12 - Provision C.12 PCBs Controls

C.12.a.ii,iii ▶ Ongoing Training

(For FY 10-11 Annual Report and Each Annual Report Thereafter) List below or attach description of ongoing training development and inspections for PCB identification, including documentation and referral to appropriate regulatory agencies (e.g. county health departments, Department of Toxic Substances Control, California Department of Public Health, and the Water Board) as necessary.

Description:

Please see VSFCO's annual report for all of Section C.12 information implemented locally.

- C.12.b ▶ Conduct Pilot Projects to Evaluate Managing PCB-Containing Materials and Wastes during Building Demolition and Renovation Activities**
- C.12.c ▶ Pilot Projects to Investigate and Abate On-land Locations with Elevated PCB Concentrations**
- C.12.d ▶ Conduct Pilot Projects to Evaluate and Enhance Municipal Sediment Removal and Management Practices**
- C.12.e ▶ Conduct Pilot Projects to Evaluate On-Site Stormwater Treatment via Retrofit**
- C.12.f ▶ Diversion of Dry Weather and First Flush Flows to POTWs**
- C.12.g ▶ Monitor Stormwater PCB Pollutant Loads and Loads Reduced**
- C.12.h ▶ Fate and Transport Study of PCBs In Urban Runoff**
- C.12.i ▶ Development of a Risk Reduction Program Implemented Throughout the Region**

State below if information is reported in a separate regional report. Municipalities that participate directly in regional activities to can provide descriptions below.

Summary

A summary of regional accomplishments for these sub-provisions is included within the C.12 PCB Controls section of the FY 12-13 BASMAA Regional POC Report.

Section 13 - Provision C.13 Copper Controls

C.13.a.iii.(2) ▶ Training, Permitting and Enforcement Activities

(FY 11-12 Annual Report and each Annual Report thereafter) Provide summaries of activities implemented to manage waste generated from cleaning and treating of copper architectural features, including copper roofs, during construction and post-construction including. :

- Development of BMPs on how to manage the water during and post construction
- Requiring the use of appropriate BMPs when issuing building permits
- Educating installers and operators on appropriate BMPs
- Enforcement actions taken against noncompliance

The Building Department staff reviews the materials list during plan check to identify any uses of architectural copper elements. When found, appropriate BMPs for control of materials used in treating copper surfaces are required. Due to current economic climate and copper theft – no copper architectural elements have been proposed recently.

C.13.a.iii.(3) ▶ Evaluation of Effectiveness

(FY 12-13 Annual Report) Evaluate the effectiveness of measures the agency has undertaken to prevent discharge of wastewater to storm drains during the installation, cleaning, treating, and washing of the surface of copper architectural features. The discussion of the effectiveness of these measures should include BMP implementation and may propose additional measures to address this source of pollutants.

Given the slow economy, high cost of copper, and theft potential, the City has not seen no use of copper architectural features. As such, it is difficult to evaluate the effectiveness of BMPs.

C.13.c ▶ Vehicle Brake Pads

A summary of BASMAA'S participation with the Brake Pad Partnership (BPP) is included within the C.13 Copper Controls section of the FY 12-13 BASMAA Regional POC Report.

C.13.c.iii ▶ Water Quality Issues Associated with Automobile Brake Pads

(FY 12-13 Annual Report Only) – Assess status of copper water quality issues associated with automobile brake pads and recommend brake-pad related actions for inclusion in subsequent permits if needed.

An assessment of copper water quality issues associated with automobile brake pads and recommend brake-pad related actions for inclusion in subsequent permits is included within the C.13 Copper Controls section of the BASMAA Regional POC Report.

C.13.d.iii ► Industrial Sources Copper Reduction Results

Based upon inspection activities conducted under Provision C.4, highlight copper reduction results achieved among the facilities identified as potential users or sources of copper, facilities inspected, and BMPs addressed.

Summary

N/A – Please refer to VSFCO’s annual report as they are responsible for all inspection activities in the City of Vallejo.

C.13.e ► Studies to Reduce Copper Pollutant Impact Uncertainties

Report on progress of studies being conducted countywide or regionally to reduce copper pollutant impact uncertainties. State below if information is reported in a separate regional report.

Summary

A summary of the regional efforts to develop regional studies to reduce copper pollutant impact uncertainties is included within the C.13 Copper Controls section of the BASMAA Regional POC Report.

Section 14 - Provision C.14 PBDE, Legacy Pesticides and Selenium Controls

C.14.a ► Control Programs for PBDEs, Legacy Pesticides and Selenium Controls

Report on progress of studies being conducted countywide or regionally to characterize the distribution and pathways of PBDEs, legacy pesticides, and selenium. State below if information is reported in a separate regional report.

Summary

A summary of the regional efforts related to the Control Program for PBDEs, Legacy Pesticides and Selenium is included within the C.14 PBDE, Legacy Pesticides and Selenium section of the FY 12-13 BASMAA Regional POC Report.

C.14.a.v. ► Control Programs for PBDEs, Legacy Pesticides and Selenium Controls – Load Computation

(For FY 12-13 Annual Report only) Submit a report with information required to compute loading estimates of PBDEs, legacy pesticides and selenium from urban runoff to the Bay.

Summary

Information required to compute loading estimates of PBDEs, legacy pesticides and selenium from urban runoff to the Bay is included within the C.14 PBDE, Legacy Pesticides and Selenium section of the FY 12-13 BASMAA Regional POC Report.

C.14.a.vi. ► Control Programs for PBDEs, Legacy Pesticides and Selenium Controls – Control Measures

(For FY 12-13 Annual Report only) Submit a report identifying control measures and/or management practices to reduce impacts from discharges of PBDEs, legacy pesticides or selenium in urban runoff.

Summary

A report identifying control measures and/or management practices to reduce impacts from discharges of PBDEs, legacy pesticides or selenium in urban runoff is included within the C.14 PBDE, Legacy Pesticides and Selenium section of FY 12-13 BASMAA Regional POC Report.

Section 15 - Provision C.15 Exempted and Conditionally Exempted Discharges

C.15.b.iii.(1), C.15.b.iii.(2) ► Planned and Unplanned Discharges of Potable Water

Is your agency a water purveyor?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
If No , skip to C.15.b.vi.(2):				
If Yes , Complete the attached reporting tables or attach your own table with the same information. Provide any clarifying comments below.				
Comments: Please see Attachment C.15 for planned and unplanned discharges of potable water.				

C.15.b.vi.(2) ► Irrigation Water, Landscape Irrigation, and Lawn or Garden Watering

<p>Provide implementation summaries of the required BMPs to promote measures that minimize runoff and pollutant loading from excess irrigation. Generally the categories are:</p> <ul style="list-style-type: none"> • Promote conservation programs • Promote outreach for less toxic pest control and landscape management • Promote use of drought tolerant and native vegetation • Promote outreach messages to encourage appropriate watering/irrigation practices • Implement Illicit Discharge Enforcement Response Plan for ongoing, large volume landscape irrigation runoff.
<p>Summary:</p> <ul style="list-style-type: none"> • A series of free water-wise landscape workshops for residential water customers were held in April/May 2013 with master gardeners covering the topics associated with pest control and pesticide applications. The Water Division also provides handouts that stress reduced use of pesticides to control pests and encourage the use of native plants. • The City Water Division continues to coordinate water conservation efforts with the local environmental conservation groups by attending and participating in annual planning meetings held by the City of Vallejo Watershed Alliance. • The City Water Division attended planning meetings and worked closely with the City of Vallejo Unified School District and VSFCD to develop and implement new STEAM-E (Science Technology, Engineering, Arts, Mathematics, English) water education curriculum in Vallejo's middle school classrooms. • In collaboration with the Solano County Water Agency, the City Water Division runs a residential water survey program where landscape water sprinkler discharge is closely analyzed to maximize efficiency to help reduce water waste and run-off. See Section C.7 for further information regarding this program.

- The City of Vallejo Climate Action Plan is Vallejo's roadmap to becoming a more sustainable community. The Climate Action Plan will enable Vallejo to reduce greenhouse gas emissions, adapt to climate change, and improve the economic, environmental, and physical health of the community. This Plan calls for changes from now through 2035 including adoption of water conservation efforts and development standards for water conservation.
- Refer to VSFCD's annual report for information regarding their coordinates the Our Water Our World (OWOW) Program.
- For new construction, the city's Planning Department requires that landscape plans include low-water using plants and drought-resistant plant materials and comply with City of Vallejo Municipal Code Chapter 16.71 (Water Efficient Landscape Requirements). The purpose of this chapter is to maintain consistency with Section 2 of Article X of the California Constitution.

C.15.b.iii.(1) ► Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity ⁶⁵ (NTU)	Implemented BMPs & Corrective Actions
See Attachment C.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

C.15.b.iii.(2) ► Unplanned Discharges of the Potable Water System⁶⁶

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Discharge Duration (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L) ⁶⁷	pH (standard units) ⁵²	Discharge Turbidity (Visual) ⁵²	Implemented BMPs & Corrective Actions	Time of discharge discovery	Regulatory Agency Notification Time ⁶⁸	Inspector arrival time	Responding crew arrival time
See Attachment C.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

⁶⁵ Monitor the receiving water for turbidity if necessary and feasible. Include data in this column if available.

⁶⁶ This table contains all of the unplanned discharges that occurred in this FY.

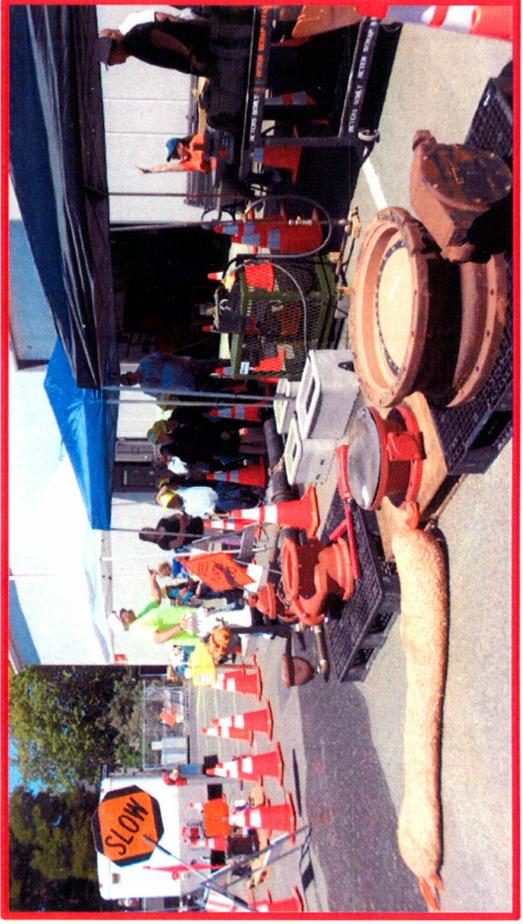
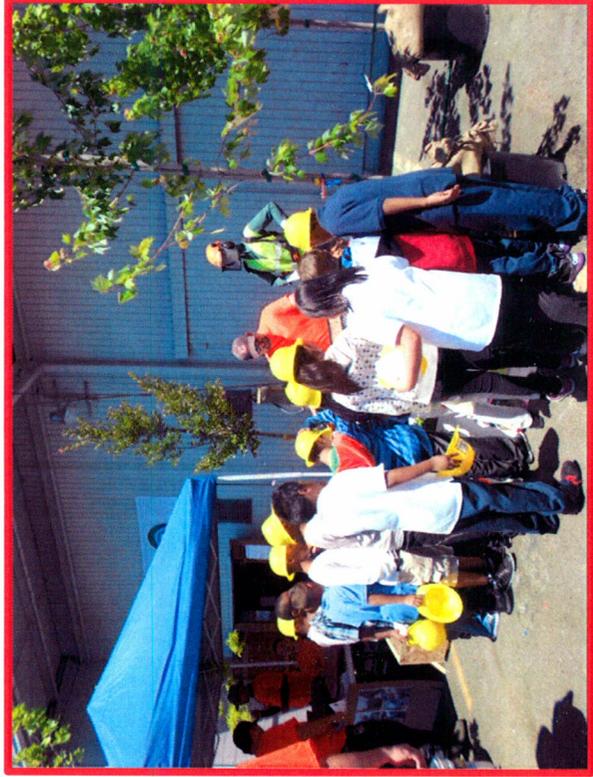
⁶⁷ Monitoring data is only required for 10% of the unplanned discharges. If you monitored more than 10% of your unplanned discharges, report all of the data collected.

⁶⁸ Notification to Water Board staff is required for unplanned discharges where the chlorine residual is >0.05 mg/L and total volume is ≥ 50,000 gallons. Notification to State Office of Emergency Services is required after becoming aware of aquatic impacts as a result of unplanned discharge or when the discharge might endanger or compromise public health and safety.

Attachment C.7 – Public Education and Outreach

City of Vallejo FY 2012-2013 Annual Report

2013 Public Works Week – Student Day





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email: zunzun@zunzuntunes.com
website: www.zunzuntunes.com

RECEIVED

JUL 03 2013

**SOLANO COUNTY
WATER AGENCY**

Dear Andy,

July 1, 2013

Enclosed is our final report or the 2012-2013 school year.

If you have any questions we are in our office until July 5, and will be gone until July 22. Please feel free to contact us with anything else you might need either before July 5 or after July 22.

It was a great year and as always a pleasure to keep working with you and the wonderful students in your area!

Sincerely,

A handwritten signature in black ink, appearing to be "Gwynne S. Cropsey".

Gwynne S. Cropsey
ZunZun



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**ZunZun Assembly Programs for Solano County Water Agency
FINAL REPORT 2012-2013 School Year
July 1, 2013**

OVERVIEW

ZunZun was happy to have represented the Solano County Water Agency by performing 38 assemblies at 23 schools and summer programs to teach approximately 10,369 children and 459 educators about their connection to water, water conservation, sustainability, and watershed pollution prevention and how they are all related. The assemblies were in Spanish and English, depending on the language spoken by audience members. All assemblies included California State Education standards in Science, Math, History-Social Science, Language Arts and English Language Development, and Fine Arts so that they easily tied into classroom curriculum. . All assemblies had lots of student participation. All of the information was geared to be solid, hands-on ideas that students could take home and share with their families to save water and prevent watershed pollution. Also, we sent every school a newsletter article they could put in their school newsletter to help parents and families learn the concepts and know about the SCWA sponsored assemblies.

Included in this final report are the following:

- Outreach
- Pre and Post Assembly Activities
- State Content Standards
- Performances
- Evaluations and Educator Evaluation Comments
- Possibilities for Next Year
- Final Performance Schedule

Enclosed with this final report, please find:

- Sample Program Flyer
- Newsletter Article
- Pre and Post Assembly Activities
- Program Evaluation Summary
- Print Out of the Electronic Evaluation Summary

A hard copy of this final report will be sent to Andy Florendo of SCWA.

OUTREACH

Using a target list of schools compiled by SCWA, ZunZun advertised the free assembly program to eligible schools. ZunZun called to find appropriate contacts, and then faxed or emailed a flyer to the assembly coordinator at each school.



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Subsequently, we followed up with phone calls and/or emails to confirm receipt of the flyer, answer any questions about the assembly program, and schedule assemblies. Schools booked with ZunZun directly for assemblies.

One month in advance of the assembly, ZunZun called and then sent a written confirmation letter to each school. ZunZun also called each school office at least one week prior to the performance to confirm date, times and school address with office staff as well.

ZunZun created a set of pre and post assembly worksheet to be used this year. A sample of these questions is attached. Questions were emailed to each school one month prior to the assembly date to allow ample time for the questions to be distributed to the teachers and used prior to the assembly.

An article to be used in the school newsletter was emailed to each school site along with confirmation letter including set up instructions. A sample of the article is attached.

PRE and POST ASSEMBLY ACTIVITIES

Like last year, we emailed pre and post assembly activities and newsletter articles to schools prior to assemblies to allow ample time for the materials to be distributed to the teachers and used prior to the assembly.

STATE CONTENT STANDARDS

In addition to being an extremely fun water education experience, ZunZun assemblies cover a large number of California State Content Standards for grades K-8. Because we use music and musical instruments, they meet many **Visual and Performing Arts Standards**. As the assemblies are about water issues, they cover **Science Content Standards**. Students are learning new vocabulary and words, so they are meeting many **Language Arts and English Language Development Standards**. We introduce instruments from around the world, which meets many standards in **History- Social Science Standards**. Finally, we use both Spanish and English which meets **English Language Development Standards** and **World Language Content Standards**. Most importantly, the assemblies are designed to help students feel empowered to make changes in their daily lives and the lives of their families that help prevent wasting water and prevent pollution. *The assemblies encourage proactivity and making easy changes in daily life at home and at school to conserve water and keep watersheds clean.*

A few specific examples of State Content Standards in **Science, Language Arts, and Visual and Performing Arts** met in our shows are as follows:



Science: Water education for all grade levels is included in every assembly. (i.e.: Grade 3 physical science i.e, i.f.; Grade 5, earth sciences 3a, 3b, 3c) Education standards regarding water on earth, evaporation, properties of a solid, liquid and a gas, water present in the form of salt and fresh water, etc. are addressed.

Language Arts: Use of rhythm and rhyme to remember a concept. Learning new words such as “runoff” and “drought” and seeing/ hearing a description while repeating a rhyme that reiterates the definition. (See CA Content Standards, Reading Standards- Craft and Structure, Key Ideas and Details Integration and Knowledge of Ideas. Also Speaking and Listening Standards for grades K-6).

Visual and Performing Arts: As students sing and perform with us in the assembly, they are not only hearing music (All grades, Music Standards 1.1-1.5), but performing it (Grade 2, Music Standards, 2.1, 2.2 for example). Because all students learn differently, *ZunZun* strives to use as many different types of learning tools as possible in the assemblies, so students are learning *visually, musically, physically, scientifically, mathematically, and verbally*. Students are thinking things through, using movements and singing throughout. So many standards are contained in the assemblies it would be a very long list to include them all here.

PERFORMANCES

Assemblies are 45 minutes in length, except when schools had time constraints due to recess or lunch, which was rare. Topics covered this year were: **sustainability, drought tolerant and native plants, California rain fall patterns, aspects of California state content standards for water science, water conservation and watershed pollution prevention. At most schools the assemblies were in English and Spanish, sometimes more Spanish than English.** This year’s assembly included the following segments:

Rain-Stick Music- Showing different sizes of rain-sticks, made from cactus and recycled cardboard tubes, we are able to show different levels of rainfall in our region of Northern California. A simple song about rain, spelled out for younger grades (R.A.I.N.) is sung as we get volunteers to perform on first a small rain-stick (drought year) then medium size (average rainfall) and then a 10 foot rain-stick to represent a very rainy year. We discuss that we do not live in a rainforest or desert, but in a place where rainfall fluctuates a lot, and droughts and low rainfall will always be a part of our weather patterns, as will the years when flooding is possible.

Drought Tolerant plants. We talk about plant adaptations to low rainfall such as, thick leathery leaves, deep roots and tiny hairs to collect mist and dew. We then get student volunteers to act out these adaptations with dance moves accompanied by the



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Bolivian musical instrument *ronrocco*. The end of the dance sequence has the volunteer dancers reaching for the sun for photosynthesis. We finish up the segment with suggestions for drought tolerant planting in yards and also talk about proper ways to water plants to limit evaporation and wasting of water (watering in morning or late afternoon).

Water Saving Dance-Through a series of movements accompanied by *cajon* drum we illustrate simple ways to save water at home. Movements are done initially silently, and then discussed in detail. The dance movements are divided into water usage and water savings. We sing with audience "Wash your hair-five minute shower, brush you teeth-with the faucet off, wash your hands-turn the drip off, wash your clothes-with the washer full." Then we divide the whole audience into two groups (water users and water savers) to slowly model the movements of dance. We then select 10 volunteers to dance the full dance demonstrating usage and saving water. We begin slow with aid of teachers and then do a faster version. Dance movements take concentration and coordination and it is hoped that students continue to practice dance back in classroom or at home.

Drip Drop. With Brazilian percussion accompaniment we demonstrate the levels of water wasted with a drippy, leaky faucet. To the song "Drip drop has got to stop, stop the drip drop" we show a 5 minute leak (pint to 3.5 cups) 2 hour leak (5 gallons) and a 24 hour leak (60 gallons). Volunteers from the audience play percussion on these containers as we sing. We then ask the audience to turn off the drip (modeling with their hands), and call up a volunteer to be a plumber for the stubborn drip that won't turn off. That volunteer bangs on a loud *timbale* drum until the drip is fixed. Audience replies with a hearty "Thank You!!" as the drip is finally fixed and water is no longer wasted. This segment is a great live action "word problem" in math which can be re-used in the classroom to practice multiplication and measurements and time related math equations.

Watershed Dances-Using Brazilian instruments we created dances that provided information about keeping our watershed clean. These dances were performed by students and teachers. The three dances performed were the jellyfish-plastic bags in the ocean look like jellyfish and endanger sea creatures, the car wash-soap entering storm drains is a pollutant, and the rainbow dance-leaked oil from our roads enter the watershed through storm drains. We gave examples about how to avoid creating these pollutants and provided alternatives such as re-usable bags, taking cars to carwash and cleaning up small oil leaks in driveways with carbonated water.

Run Off / Recycling Run Off

In this segment, we use various string instruments from Brazil to sing about street runoff and how to prevent it. Students learn about what happens when materials such



as paint, soap, oil, and garbage go down a storm drain and into the local watershed leading to the sea. Two students carry these materials to a storm drain we have created in the assembly hall. We emphasize the importance of recycling and preventing pollution not just for ourselves, but also for the entire ecosystem. Also, this segment allows us to show things such as oil and paint being recycled.

Storm Drain Dance: 10 students come up and perform the “Storm Drain Dance” as a way to review what storm drain pollution is and of the ways they can prevent it.

EVALUATIONS

We used electronic evaluations, which are paper-free and easily emailed to school staff this year. While the number of responses diminished compared to paper evaluations, we received overwhelmingly positive feedback. Additionally, performers hear great responses at the school sites. We have included a print out of the evaluation responses with this report.

Evaluations were overwhelmingly positive. In the evaluations summary enclosed, you will find that all of the evaluations reflect the highest ratings in educational value, program’s ability to stimulate student discussion, and the likelihood that students will retain the materials covered. Also, educators ranked the assembly in the highest values for the program’s ability to teach about water conservation and environmental protection. 100% of the educators would want the program to return in the future.

Below are the additional comments collected from the electronic evaluations:

This was an AWESOME assembly!!! Thank you for educating our children about water conservation in a fun, creative, and engaging way!

4/15/2013 7:40 AM [View Responses](#)

The students were completely engaged, had a wonderful time, and retained not only the catchy songs, but the message embedded within them as well. I look forward to having the same group come back for us. Thank you to ZunZun for a wonderful presentation and lesson on water conservation!

4/12/2013 3:58 PM [View Responses](#)

You were so creative in showing the different amounts of water and rain. The show allowed everyone to participate in a fun way. Now they will not only be more aware today but in the future also as they remember fondly the assembly. Thank you

4/12/2013 12:05 AM [View Responses](#)

This is a great presentation incorporating music, movement, and education



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about water conservation. We absolutely loved it! Thank you!

4/12/2013 12:04 AM [View Responses](#)

I thought the presentation was wonderful. My students were very engaged due to the way the presentation was done. When we talk about it in class they had retain the information and were ready for discussion. One of the best assemblies we had. Great Job!

4/12/2013 12:00 AM [View Responses](#)

Great Job!

4/10/2013 11:07 AM [View Responses](#)

The presenters' skills in managing the students were much better than in the past. I really appreciated that they chose students to participate who were well behaved and already participating enthusiastically and appropriately.

4/9/2013 3:19 PM [View Responses](#)

They are great teachers as well as performers! Students enjoyed everything about them!

12/19/2012 8:57 AM [View Responses](#)

Love the show. This is the second year they've visited and I hope they can come again. The kids sing the songs all year! Thanks guys! Do you sell CDs with the songs? I'll check your website.

12/18/2012 3:15 PM [View Responses](#)

Presentors were wonderful and entertaining!

11/12/2012 6:21 PM [View Responses](#)

The hands-on & music were wonderful! Thanks!

11/11/2012 8:54 AM [View Responses](#)

Awesome program!

8/29/2012 2:32 PM [View Responses](#)

Great show. We had a very good discussion afterwards.

8/29/2012 12:27 AM [View Responses](#)



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POSSIBILITIES FOR NEXT YEAR

Some ideas for next year are...

Common Core Curriculum: As California begins to adopt the Common Core Standards for classroom curriculum, we will make the use of the standards apparent to teachers and educators while performing the assemblies. We will compare the assembly content to the Common Core guidelines and make the standards we use available to educators. California plans to implement Common Core by the 2014-15 school year.

Paper Evaluations or Electronic? We are seeing far fewer evaluations returning with the electronic evaluations than we did when we handed out paper ones. There seems to be a *psychology* involved with *seeing* the paper in front of you to do the evaluation verses going to the computer to type one up. Though we believe the electronic evaluations are enough, if Solano County Water Agency would prefer to see a higher number of evaluations returned from each site, we recommend paper over electronic.

Delta Watershed Birds: A song about the diversity of bird life in the Delta and how they are affected by storm drain runoff. We hope to create anew segment related to this.

Garbage Percussion: We create instruments out of common trash (plastic bottles, bags and cups) and have students play them while we discuss recycling and sustainable practices (reusable bags, bottles and containers). We are considering using this segment next year.

School Staff Outreach: If SCWA is interested, we would be happy to hand out information about storm drain pollution prevention to the janitorial staff at each school or program we visit. We had a very insightful conversation with a custodian named Greg at Dan Mini Elementary in Vallejo. After seeing the water presentation, he told us that Vallejo staff is trained on lead and asbestos every year, but they get almost no storm drain pollution prevention information. He suggests a mandatory workshop for all janitorial staff. We would b happy to share more with SCWA staff if you like.

We look forward to working with SCWA staff on these ideas and others we create for the upcoming 2013-14 school year.



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FINAL SHOWS UPDATE 2012-13

<u>Date</u>	<u>School</u>	<u># of Shows</u>	<u>#Students</u>	<u>City</u>
8/23	Callison	3	1000	Vacaville
11/8	Gale Wilson	1	150	Fairfield
11/8	Cambridge	2	535	Vacaville
11/9	KI Jones St. Vincent	3	800	Fairfield
11/20	Ferrar	1	405	Vallejo
12/13	Markham	3	800	Vacaville
12/14	Hemlock	1	300	Vacaville
12/14	ACE Charter	1	150	Vacaville
1/8	Henderson	2	540	Benicia
1/9	Tremont	2	650	Dixon
1/9	Loma Vista Fairmount	1	397	Vallejo
3/26	Charter	2	525	Vacaville
3/28	Padan	2	380	Vacaville
4/10	Vallejo Charter	2	385	Vallejo
4/11	Mare Island	1	375	Vallejo
4/11	Orchard	2	415	Vacaville
4/12	Cleo Gordon	2	665	Fairfield
5/17	Dan Mini	1	250	Vallejo
5/29	Alamo	2	620	Vacaville
5/30	Crescent	2	692	Suisun City
6/18	Kroc Center	1	215	Suisun City
6/20	Cont. B&G Club	1	120	Vallejo

TOTALS 23 Sites 38 shows 10,369 students 6 Cities



Solano County Water Agency is sponsoring FREE assemblies by the performing arts group, **ZunZun!**

**Now Booking for
2012-2013!**

**SPACE IS LIMITED
FIRST COME, FIRST SERVED**

**Call 831.426.0684
or email
zunzun@zunzuntunes.com**



REVIEWS FROM 2011-2012 SOLANO SHOWS

"Simply, the best assembly I have seen in 20 years of teaching!"

-6th Grade Teacher, Orchard Elementary

"I thought the program was very well done with lots of kid participation. This fits in so nicely with Direct Explicit Instruction or EDI that is a big push at our school site. Thanks!"

- Kindergarten Teacher, Fairmont Charter

"This was an outstanding H2o assembly! I loved the props and student participation!"

- Kindergarten Teacher, Wilson Elementary

"Well done. Kids were engaged and involved. Very fun for them."

-2nd Grade Teacher, Dan Mini Elementary

"Excellent crowd control and engaging presentation"

-4th Grade Teacher, Crescent Elementary

ZunZun, the award-winning children's performing arts group, brings an engaging, musical educational assembly to your students and staff!

Assemblies teach your students about watershed awareness and water conservation in a fun, lively, and humorous performance!

Grades K-6 **Bilingual shows available! (Spanish-English)**

Meets State Content Standards!

45 Minutes

Visit www.zunzuntunes.com for a full show description and more information!



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Solano Newsletter Article 12-13

Did your child come home from school recently and start talking about a giant rain stick or musical rainstorm? Or maybe they walked in the door and started singing, "H2O, Go with the Flow" while doing a crazy dance. If so, there's no doubt they just attended ZunZun's latest water awareness assembly.

Each year, the School Water Education Program in Solano County sponsors free water awareness assemblies in local schools. The assemblies, performed by the musical group, ZunZun, teach students about sustainability, watershed protection, conservation, water science and water awareness in a fun and interactive way using musical instruments from all over the world. Be aware, however, that it's not unusual for ZunZun to teach students a simple song and dance to reinforce their important message about water. So ask your child what they learned, but don't be surprised if they break into a song and dance routine as they tell you how to save water around the house. And if they share some helpful tips on how to conserve and protect water, be sure to take their advice!

If you would like more information about water awareness or the Solano County Water Agency's School Education Program, please visit www.solanosaveswater.org or email schoolwater@gmail.com. You can contact ZunZun at www.zunzuntunes.com. It is always a pleasure to work with your wonderful school community!



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Here are some fun ways to remember all of the recycling changes you can make and some fun ways that recycling helps watershed pollution prevention right at school with no special materials- just time and fun!

Basura Batucada Band

Your class can create a band from recycled things! Visit zunzuntunes.com and click on the "kid zone" to see the names of instruments and what recycled items to use to make them.

Field Trip at School

On-site "field trip" at school! Have the students in your class walk together to find all (or most) of the storm drains on the school campus. They return to class and draw maps with the storm drains (CA State Standard re: map creation and use).

Storm Drain Monitoring

Then dedicated classes can even monitor the storm drains throughout the school year to see what goes down the storm drain at their school and then decide how to prevent the pollution. At the beginning of every month, a storm drain check can be part of your calendar, or "storm drain monitor" can become one of the classroom jobs that rotate every month.

The Big Picture Map

For this activity you will need an area map of your school and it's surroundings. First, have students find the school on the map. Next, decide which creek or river (or even bay/ocean) the school storm drain would probably lead to (the closest one especially that is down from the school). Follow the school's waterway to the sea (storm drain, to creek to river, to bay, to ocean). Next, have each student take a turn finding their own house and mapping their watershed and seeing where they live in the watershed. Have them learn the names of the creeks and rivers near them.

Visit Your Local Wildlands- See the Watershed

Visiting some of the wildlands near our homes and the watershed in our area can be amazing. We can see animals that depend on a clean watershed and get a chance to slow down. Need help finding a good place to visit? We would be happy to help. E-mail us at zunzun@zunzuntunes.com and we'll look at a map with you to help make it happen!

Thanks so much for inviting ZunZun to perform at your school!
 Here are some pre & post-assembly activities you can do with your students to help retain the information presented in the shows. You can even distribute the materials to students to take home and share with their families!

WATER FOOTPRINT ACTIVITY

Your "water footprint" is how much water you use in a day. Think about how many times the following activities happen in your house everyday and then add up the totals. Maybe have your teacher do his or her totals for the class first!

<u>Activity</u>	<u>Gallons of Water Used</u>	<u>Times Per Day</u>	<u>Daily Total</u>
Taking a Bath	35 gallons	X _____	= _____
Taking a Shower	2.5 gallons/min low flow 5 gallons/min regular showerhead	X _____	= _____
Teeth Brushing	1 gallon 1 cup if water turned off!	X _____	= _____
Hands/Face Washing	1 gallon	X _____	= _____
Dishwashing			
Machine	20 gallons/load	X _____	= _____
By Hand	5 gallons/load		
Clothes Washing Machine	10 gallons/load	X _____	= _____
Toilet Flush	3 gallons/flush	X _____	= _____
Leaking Toilet	60 gallons/day	X _____	= _____
Glasses of Water Drunk	8 oz/glass (1/16 gallon)	X _____	= _____

Be sure to count your other family members, too!

GRAND TOTAL = _____

TEST YOUR TOILET FOR LEAKS!

Ask mom or dad first, then, put 6-10 drops of blue food coloring in the toilet tank. Wait 20 mins (don't flush!) and check for blue water in the toilet bowl. Blue water in the bowl? Your toilet is leaking! Visit our website, www.zunzuntunes.com for how to fix it!

4. Rate the likelihood that students will retain the material covered.

[Create Chart](#)

[Download](#)

	1	2	3	4	5	6	7	Rating Average	Rating Count
	(Lowest Value)						(Highest Value)		
Material Retention	0.0% (0)	0.0% (0)	3.7% (1)	3.7% (1)	22.2% (6)	25.9% (7)	44.4% (12)	6.04	27
	answered question								27
	skipped question								0

5. Rate how well the program promoted water conservation.

[Create Chart](#)

[Download](#)

	1	2	3	4	5	6	7	Rating Average	Rating Count
	(Lowest Value)						(Highest Value)		
Coverage of Water Conservation	0.0% (0)	0.0% (0)	0.0% (0)	3.7% (1)	3.7% (1)	18.5% (5)	74.1% (20)	6.63	27
	answered question								27
	skipped question								0

6. Rate how well the program covered the importance of water conservation, protecting our waterways, and the concept of sustainability.

[Create Chart](#)

[Download](#)

	Rating Average	Rating Count
Promotion of Environmental Message	3.65	26
	answered question	
	skipped question	

7. Rate the effectiveness of the audience participation activities in keeping the students' attention and reinforcing the educational message.

[Create Chart](#)

[Download](#)

	1	2	3	4	5	6	7	Rating Average	Rating Count
	(Lowest Value)						(Highest Value)		
Effectiveness of Audience Participation	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	33.3% (9)	66.7% (18)	6.67	27
	answered question								27
	skipped question								0

8. Rate the ability of live presentations such as this one to increase the students' capacity for retaining the educational message.

[Create Chart](#)

[Download](#)

	1 (Lowest Value)	2	3	4	5	6	7 (Highest Value)	Rating Average	Rating Count
Increased Retention Ability	0.0% (0)	0.0% (0)	0.0% (0)	7.4% (2)	0.0% (0)	33.3% (9)	59.3% (16)	6.44	27
								answered question	27
								skipped question	0

9. Was the program delivered in a friendly, professional, age-appropriate manner?

[Create Chart](#)

[Download](#)

	1 (Lowest Value)	2	3	4	5	6	7 (Highest Value)	Rating Average	Rating Count
Performers	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	18.5% (5)	81.5% (22)	6.81	27
								answered question	27
								skipped question	0

10. Would you like to see Solano County Water Agency continue with this or similar programs in the future?

[Create Chart](#)

[Download](#)

	Response Percent	Response Count
Yes	100.0%	27
No	0.0%	0
Additional comments and any ideas for a curriculum tie in: Show Responses		13
	answered question	27
	skipped question	0

Showing 13 text responses

No responses selected.

This was an AWESOME assembly!!! Thank you for educating our children about water conservation in a fun, creative, and engaging way!

4/15/2013 7:40 AMView Responses

The students were completely engaged, had a wonderful time, and retained not only the catchy songs, but the message embedded within them as well. I look forward to having the same group come back for us. Thank you to ZunZun for a wonderful presentation and lesson on water conservation!

4/12/2013 3:58 PMView Responses

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4/12/2013 12:05 AMView Responses

This is a great presentation incorporating music, movement, and education about water conservation. We absolutely loved it! Thank you!

4/12/2013 12:04 AMView Responses

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4/12/2013 12:00 AMView Responses

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4/10/2013 11:07 AMView Responses

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8/29/2012 2:32 PMView Responses

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8/29/2012 12:27 AM View Responses

The Watershed Explorers Program

2013 Program Summary

Solano RCD is very grateful of its current funders, which include:

The Habitat Conservation Fund
Solano County & all City Jurisdictions
Vallejo Water Conservation Program
Fairfield Suisun Sewer District
Suisun Resource Conservation District
Vallejo Sanitation and Flood Control District
Potrero Hills Landfill

Written and Administered by
Solano Resource Conservation District



1170 N. Lincoln Street, Suite 110
Dixon, CA 95620
Tel (707) 678-1655

Thank you for your excellent program. The students (and adults) had a great and educational day. In this day and age of cuts and testing, it is a luxury to have real learning going on.

- Kathy Gambaro from Crescent Elementary in Suisun City

The Watershed Explorers Program 2013 Program Summary

Overview

The Watershed Explorers Program utilizes science and place-based learning to build awareness and understanding of local creeks and watersheds, their unique ecosystems, and ways in which we care for them. In-the-field discussions and activities teach children about the fragile habitats of birds and other wildlife. Students learn the importance of water quality in their watershed and discover the impacts of urban runoff and its components: trash, oil, household chemicals and other human and domestic animal waste and discards. Concepts are directly linked to the California State Standards and the program offers local children, many of whom have little or no experience being in open space settings, a concrete, experiential introduction to their watershed and the creatures that inhabit it.

Audience

In 2007, 130 third graders became Watershed Explorers on a field trip to Lynch Canyon. In 2013, the program reaches 1,761 third graders from 63 classrooms all over Solano County, who went on field trips at either Vallejo's Hanns Park or Fairfield's Rockville Hills Park. Our message also went directly to the 449 adult chaperones and teachers who participated in the program, completing the same exercises and learning the same concepts as the children. We are confident that everyone left the field trip more aware of their role as responsible stewards of Solano County resources.

Total Participants

- Benicia – 2 schools comprising 7 classes of 187 students and 31 adults
- Vallejo – 6 schools comprising 17 classes of 531 students and 115 adults
- Fairfield/Suisun – 6 schools comprising 21 classes of 586 students and 158 adults
- Vacaville – 3 schools comprising 7 classes of 195 students and 61 adults
- Dixon – 2 schools comprising 7 classes of 178 students and 63 adults
- Rio Vista – 1 school comprising 4 classes of 84 students and 21 adults

Goals and Objectives

The primary program goal is to help students develop an awareness of the outdoor, natural world. Participants leave the program:

- understanding the impact of storm water on their watershed, particularly the impacts of oil, chemicals and human debris in that storm water;
- knowing individual stewardship practices in their watershed, i.e., how they can mitigate or eliminate the impacts of their own and their family's behaviors around storm water protection and water quality;
- understanding the difference between native and non-native, invasive plants;
- knowing about at least one pollinator species.

Prior to the field trip, teachers are provided with manuals to prepare students for their experience. Students are given journals and participate in various activities including:

- making a paper watershed model to observe what happens when oil or other contaminants are improperly disposed of in the watershed;
- learning how water flows;
- counting the number of gallons of water they use each day and discussing ways to lessen their consumption;

The Watershed Explorers Program 2013 Program Summary

- drawing the life cycle of a plant, reading about pollinators and discussing phenology and its relevance to the interconnectedness of humans, animals, weather and our environment.

Method

Participants receive preparatory information in the classroom, from their teachers, who use the program's manual to ready students for the field trip.

When they arrive at the site, they are outfitted with the equipment they'll need, and then divided into groups to visit a series of learning stations that help them to explore and understand their field trip site.

A hands-on, three-dimensional Enviroscape presentation demonstrates the dynamics of a watershed and how it is affected by pollution. After discussing and demonstrating how water moves oil and other pollutants, students receive a used motor oil collection brochure to share with their parents/guardians when they get home.

Students look for traces of birds, insects and mammals, as they hike through the park. Guided by program staff, students use their journals to identify native and non-native plant species, learn how plants are pollinated and learn how seed dispersal works for different plants.

Another station engages students in hands-on restoration work, planting starter plugs or propagating plants to improve the park habitat. At Rockville Park, participants propagated California poppies in 'cow pots,' small pots made from cow dung that are biodegradable and can be placed directly into the ground. This year, students took the plants home with them, a practice we plan to continue in the future.

At the Hanns Park site along Blue Rock Springs Creek, students planted 1,000 native grass plugs of Creeping wild rye. These students participated in a major restoration project in their city. They will be able to observe the progress of their work for many years.

At the end of the field trip, program staff gathers all participants together to debrief about their day's experience. Most students report that planting seeds and vegetation and seeing wildlife were highlights of their day. Students also report enjoying the hands on demonstration of hydrology and the impact flowing water and the pollution it can carry impacts the park they've just visited and their larger watershed

2013 Watershed Explorers Evaluation Narrative

We measure program outcomes against program goals with a 6-question pre and post assessment administered to each participating student. Questions are designed to measure student understanding of two watershed systems (the water cycle, focusing on storm water runoff and native plant and pollinator systems), and knowledge of concrete ways to interact with those systems to protect and enhance their watershed.

We collected 1,422 pre-assessments, administered by participating teachers in their classrooms to students who took part in the 2013 program, followed by 1,354 post-

The Watershed Explorers Program 2013 Program Summary

assessments, which were administered immediately following the field trip at the field trip site. Data tables for the whole program and both sites are available by request.

When looking at the pre-assessment as a whole, 61% of respondents were able to answer all questions with correct/partially correct answers. By the post assessment, 83% of the respondents were able to respond to all questions with correct/partially correct answers. This represents a performance increase of 21%, and represents a "grade" movement from a "D" to a "B."

89% of participants responded with correct/partially correct answers to question 6 (the question that asked for students to demonstrate real-life applications to what they learned) in the post assessment. In the pre-assessment, 65% gave correct/partially correct answers for that question, an improvement in performance of 23%. Participants are asked to list specific practices for this question. In pre-assessments, no respondents listed "recycle used oil" as a practice. In the post-assessments, 16% listed this practice. "Pick up trash/ recycle" generated more correct answers in both the pre and post assessments: 29% listed this practice in the pre-assessment and 48% listed it in the post assessment instrument.

Improvement in pre and post assessment performance was generally consistent with all questions, though some concepts were more difficult for the students than others. The differences between native and non-native/invasive plants proved most difficult (59% of post assessment respondents could correctly or partially correctly explain the difference). This response is identical to the results from last year.

2013 marks the first year of doubled program funding through a Habitat Conservation Fund grant with CA State Parks, which has correspondingly increased the number of participants in the program.

June 10, 2013

Dear Marianne Butler, Martha Rocha and SCRDCR group leaders,

Gretchen Higgins third graders and teachers want to thank you so much for the tremendous opportunity you provided for us. Without your very generous help in paying for our buses, we would not have been able to go to Rockville Hills Park, and our students would not have had the experience of learning first hand about the importance of watersheds.

None of our students or teachers had been to this park before, so for everyone it was a new and exciting experience. Using the teacher's manual and the journals ahead of time really helped to give our students a context, and to provide a schema for them to extend their understanding.

Your cadre of very knowledgeable and engaging leaders enriched our students' experiences. Our students were so excited to come back to class and share the different plants and animals that they had seen and learned about! Each class was able to use the fieldtrip as a springboard for more class discussions, writing, and learning about watersheds and ecosystems. We were able to share our experience at Open House so parents and the community could also see what your generosity had helped us do and learn.

Our students enjoyed all of the activities. Most of them had never used binoculars before, so that was a unique experience. They especially enjoyed working with the watershed model, which helped solidify for them the issues presented by our communities about keeping our water clean and pollution free.

Thank you so much for giving us this opportunity to build a deeper understanding of the importance of watersheds for our students, who will be the future stewards, voters, and decision makers.

Sincerely,

Gretchen Higgins 3rd grade teachers:

Sandra Crepps, Courtney Young, and Elizabeth Brothers



*On behalf of the
Vallejo City Unified School District,
we salute*

Roger L. Judy

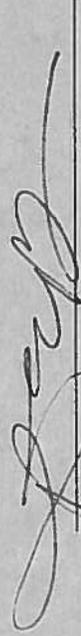
Education Program Manager, City of Vallejo, Water Division

*For contributions to STEAM E curriculum
development and implementation*





Hazel Wilson
President, Board of Education



Ramona E. Bishop, Ed.D.
Superintendent

February 6, 2013

Equity. Excellence and Educational Effectiveness

2013 Water-Wise Landscaping Workshop Customer Feedback

Night #1 - Water-wise Basics

Please help us improve the workshops by answering a few questions.

1. Why did you sign-up for this workshop?

My backyard & frontyard are all barren & look like a desert, the soil are all cracked. I don't have any plants bk of weeds & cats.

2. Which part of the presentation was most informative for you?

Bay friendly gardening & basic

3. What topic was not covered in the presentation that you were hoping to learn more about?

how to keep away "undesirable" animal (i.e. cats, crows & pigeon) away from the yard (vegetables) & fruit trees.

4. How did you find out about the workshops?

senior center & grapevine magazine

5. Any suggestions for improving the workshop?

I think it's pretty much okay at this point. They give us good enough resources, goodies & foodie

Thank you



Water Education Activity Survey

OCT 12 2012

School/Agency Name: Glen Cove Elementary

RECEIVED

Teacher Name: Gail Bravo

Teacher Email: Frogtrek@hotmail.com

Name of Activity: Who Distried the Bay?

Number of Students Participating: 25 Grade Level: 3 Presentation Date: 10-10-12

- 1. Was this presentation age-appropriate for your students? Yes No
- 2. Did the presenter effectively hold the students' attention? Yes No
- 3. Did the information presented fit into your curriculum? Yes No
- 4. How was the length of the presentation? Too Short Just Right Too long
- 5. Would you use these services again? Yes No Maybe
- 6. How did you hear about our water education program?

Used it before and saw a flyer

7. What part of the presentation did you find most useful?

The whole thing tied into our ocean week wetlands theme.

8. How can we improve on the presentation/activity?

She did a wonderful job!

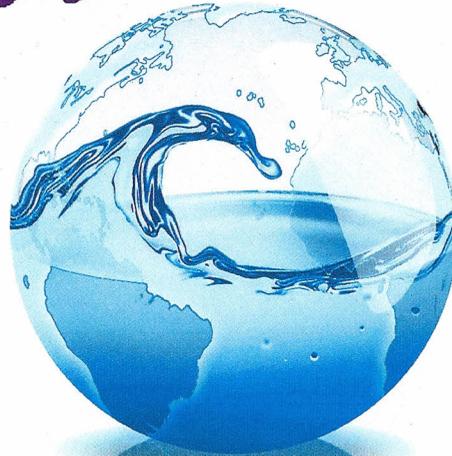
9. What water related activities/materials/supplies are needed in the classroom?

Maybe a follow-up worksheet but the Water Fun booklet

Thank you for participating in our program and taking the time to fill out this evaluation. If you need further was assistance with any water education topic or activity, please contact us at: great!
(707) 648-5299 or check us out on www.vallejowater.org.
You may also email me directly at rljudy@ci.vallejo.ca.us.

Please Return Survey to:
Vallejo Water Conservation
Attn: Roger Judy
202 Fleming Hill Rd
Vallejo, CA 94589

Earth Day 2013



at the Vallejo Farmers' Market
on Marin Street between Georgia and Virginia

Free Fun!

SATURDAY
APRIL 20
9 AM to 1 PM

Highlights

- Jugglers & performances
- Raffles & door prizes
- Kids craft projects & games
- Loma Vista Farm animals to pet
- California native plant sale
- Info on less-toxic products for your garden
- **DON'T FORGET:** Recycled Art Contest entries are due between April 9-12 at City Hall; winners will be announced at Earth Day. Call 648-5346 for info.
- Bring in your old mercury thermometer and receive a **FREE** thermometer in exchange at the Vallejo Sanitation booth

Thank You Sponsors!

VALCORE Recycling

City of Vallejo

Pacific Coast Farmers' Market Assn.

Solano County Fairgrounds

Vallejo Sanitation & Flood Control District

Recology Vallejo

Vallejo Chamber of Commerce

A-1 Guaranteed Heating & Air

For Information Call

(707) 55-EARTH OR VISIT
www.VALCORErecycling.org

Attachment C.9 – Pesticides Toxicity Controls

**City of Vallejo
FY 2012-2013 Annual Report**



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These Bay-Friendly Qualified Landscape Professionals have participated in a comprehensive training program and are enthused about offering a holistic approach to the management of your landscape. They have mastered the instruction to help them work with nature to reduce waste, conserve valuable resources, and prevent pollution – nurturing a landscape that is as healthy as it is beautiful!

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Search Professionals:

We found 7 Professionals : 1

NAME & QUALIFICATION	COMPANY sort	SERVICES	CONTACT INFO
Aguilar, Manuel - MTQ	Coast Landscape Management	Maintenance	manuel@coastlm.com work: 707-310-0054 cell:
Henry, Bill - MTQ	Coast Landscape Management	Maintenance	bill@coastlm.com work: 707-310-0022 cell:
Kornmaier, Lyndsey - MTQ	Coast Landscape Management	Design Construction Maintenance	lyndsey@coastlm.com work: 707-251-8872 cell: 707-332-8999
Ortiz, Stephanie - MTQ	Coast Landscape Management	Maintenance	stephanie@coastlm.com work: 707-756-0014 cell:
Rodriguez, Sergio - MTQ	Coast Landscape Management	Maintenance	sergio@coastlm.com work: 707-310-0096 cell:
Rogers, Matt - MTQ	Coast Landscape Management	Maintenance	matt@coastlm.com work: 925-407-6393 cell:
Velasco, Joe - MTQ	Coast Landscape Management	Maintenance	joe@coastlm.com work: 707-251-8872 cell: 707-310-0091

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NAME & QUALIFICATION

COMPANY [sort](#)

SERVICES

CONTACT INFO

[Dillon, Jared](#)
- MTQ

D & H Landscaping

Maintenance

jared@dandhlandscaping.com
work: 510-223-6597
cell:

We found 1 Professionals : **1**

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NAME & QUALIFICATION	COMPANY sort	SERVICES	CONTACT INFO
Cabral, Segi - MTQ	New Image Landscape	Maintenance	scabral@newimagelandscape.com work: 510-226-9191 cell:
Nathan, Jim - MTQ	New Image Landscape	Maintenance	jnathan@newimagelandscape.com work: cell:
Ramirez, Francisco - MTQ	New Image Landscape	Maintenance	framirez@newimagelandscape.com work: 510-376-0087 cell:
Romero, Alfredo - MTQ	New Image Landscape	Maintenance	aromero@newimagelandscapes.com work: 650-834-3809 cell:
Weist, Matt - MTQ	New Image Landscape	Maintenance	mweist@newimagelandscape.com work: 510-226-9191 cell:

We found 5 Professionals : **1**

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We found 1 Professionals : **1**

NAME & QUALIFICATION

COMPANY [sort](#)

SERVICES

CONTACT INFO

[Doty, Karen](#)
- MTQ

North Bay Landscape Management

Maintenance

karen@northbaylandscape.com
work:
cell:

We found 1 Professionals : **1**

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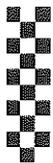
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NAME & QUALIFICATION	COMPANY sort	SERVICES	CONTACT INFO
Buss, Fred - MTQ	City of Vallejo	Maintenance	fbuss@ci.vallejo.ca.us work: 707-648-4434 cell:
Judy, Roger - MTQ	City of Vallejo Water Division	Maintenance	rjudy@ci.vallejo.ca.us work: 707-648-5299 cell:
Ljuba, Linda - MTQ	City of Vallejo	Maintenance	lljuba@ci.vallejo.ca.us work: 707-648-5279 cell: 707-333-0848
Nichols, James - MTQ	City of Vallejo	Maintenance	jnichols@ci.vallejo.ca.us work: 707-649-3414 cell:
Olson, James - MTQ	City of Vallejo	Maintenance	jolson@ci.vallejo.ca.us work: 707-553-7219 cell:
Pacheco, Richard - MTQ	City of Vallejo	Maintenance	rpacheco@ci.vallejo.ca.us work: 707-648-5237 cell:
Rodgers, Tom - MTQ	City of Vallejo	Maintenance	tom3884@att.net work: cell: 707-373-8325

We found 7 Professionals : 1



Vallejo Golf Club, Inc.
 Blue Rock Springs Golf Course
 655 Columbus Parkway
 Vallejo, Ca 94591
 (707) 642-0247 Office
 (707) 643-8476 ProShop
 (707) 642-1065 fax

FAX 925.465.4841

To: CATHLEEN TERENTIEFF
 Company: KENNEDY & ASSOCIATES
 Fax #: 925.465.4841

From: BRIAN MORRIS
 Date: SEPTEMBER 09, 2013
 # of Pages: 4 plus this cover.

Notes / Comments: CATHY,

The PAPA seminar was an IAM SEMINAR. The CGCS Renewal Transcript is a copy of all the seminars I've attended attended in the last 5 years. If you have any questions give me a call.

Brian W. Morris



**7 DPR HOURS
HAVE BEEN
APPROVED
INCLUDING 2 LAWS**

**WALNUT CREEK PAPA
INTEGRATED PEST MANAGEMENT SEMINAR**

Shadelands Art Center
111 N. Wiget Lane at Ygnacio Valley Road, Walnut
Creek, CA 94598
August 6, 2013

**STRUCTURAL,
ISA, GCSAA, CCA
and Vector hours
have been
requested**

- 7:00 Registration
- 7:30 Continuing Education and License Renewal Update - *Shayla Tarp, PAPA*
- 7:45 The Status of Sudden Oak Death Control in California
Janice Alexander, Sudden Oak Death Outreach Coordinator
- 8:30 Medically Important Spiders & Scorpions - Identification, Biology and Control
Dr. Michael Glassey, All Pro Termite and Pest Control
- 9:30 Break
- 9:45 Bed Bugs
Tanya Drlik, Integrated Pest Management Coordinator Contra Costa County
- 10:30 Laws and Regulations Update
Speaker TBA, Contra Costa County Ag Commissioner's Office
- 11:15 Lunch
- 12:00 The Healthy Schools Act and Other School-Related Laws
Belinda Messenger, Ph.D., Child Care IPM Program -- Growing Up Green Cal/EPA, CDPR
- 12:45 Snakes - Identification and Safety
Dr. Michael Glassey, All Pro Termite and Pest Control
- 1:45 Wood Movement And Invasive Pests
Mary Louise Flink, Ph.D. Associate Director: Urban & Community IPM, UC Statewide IPM Program and Extension Entomologist. UC Davis
- 2:30 Roach Control Project at the GGP Conservatory of Flowers
Kevin Woolen, IPM Coordinator San Francisco Recreation and Park Department, McLaren Lodge in Golden Gate Park
- 3:15 End of Program, Thanks for Coming!

Directions

From Oakland, Berkeley, Etc.: Go through the Caldecott Tunnel - Freeway 680/24 north to Ygnacio Valley Rd. offramp. Turn right onto Ygnacio Valley Rd. Turn left onto North Wiget. Turn left into the Shadelands Arts Center parking lot.

From Sacramento, Concord, Pleasant Hill, Etc.: - Take Freeway 680/24 south to Oak Park Blvd. offramp. Turn left on North Main to Treat Blvd. Turn left onto Treat Blvd. Stay on Treat Blvd. to Bancroft Rd. Turn right onto Bancroft Rd. Stay on Bancroft Rd. to Ygnacio Valley Rd. Turn left onto Ygnacio Valley Rd. Turn left onto North Wiget. Turn left into the Shadelands Arts Center parking lot.

From San Jose, Danville, Alamo, Etc.: Take Freeway 680 north to South Main St. offramp. Stay on South Main to Newell. Turn right onto Newell. At first stop light turn left onto Broadway. Stay on Broadway to Ygnacio Valley Rd. Turn right onto Ygnacio Valley Rd. Turn left onto North Wiget. Turn left into the Shadelands Arts Center parking lot.

Brian Morris

From: Stephanie [stephanie@papaseminars.com]
Sent: Tuesday, July 16, 2013 11:47 AM
To: BRIAN MORRIS
Subject: CONFIRMATION LETTER/RECEIPT

PESTICIDE APPLICATORS PROFESSIONAL ASSOCIATION
 PO BOX 80095, SALINAS, CA 93912-0095
 831-442-3636 WWW.PAPASEMINARS.COM

CONFIRMATION/RECEIPT OF REGISTRATION
July 17, 2013

License #: 073317

BRIAN MORRIS
 2350 LAKEPARK DR
 NAPA, CA 94558

BRIAN:

Thank you for registration. Please see seminar details below.

Seminar	Date	Time	Fee	Owing
WALNUT CREEK PAPA MEETING 8/6/13	08/06/2013	7:30am-3:15pm	80.00	0.00

Payment Details	
Date Paid	07/17/2013
Amount Paid	\$80.00
Paid By	BRIAN MORRIS
Payment Method	PAYPL

DIRECTIONS TO: WALNUT CREEK PAPA MEETING 8/6/13

SHADELANDS ART CENTER - 111 N WIGET LANE AT YGNACIO VALLEY ROAD, WALNUT CREEK, CA 94598
 FROM OAKLAND, BERKELEY, ETC. - Go through the Caldecott Tunnel - Freeway 680/24 north to Ygnacio Valley Rd. off ramp. Turn right onto Ygnacio Valley Rd. turn left onto North Wiget. Turn left into the Shadelands Arts Center parking lot.

FROM SACRAMENTO, CONCORD, PLEASANT HILL, ETC. - Take Freeway 880/24 south to Oak Park Blvd. off ramp. Turn left on North Main to Treat Blvd. Turn left onto Treat Blvd. Stay on Treat Blvd. to Bancroft Rd. Turn right onto Bancroft Rd. Stay on Bancroft Rd. to Ygnacio Valley Rd. Turn left onto Ygnacio Valley Rd. Turn left onto North Wiget. Turn left into the Shadelands Arts Center parking lot.

FROM SAN JOSE, DANVILLE, ALAMO, ETC. - Take Freeway 680 north to South Main St. off ramp. Stay on South Main to Newell. Turn right onto Newell. At first stop light turn left onto Broadway. Stay on Broadway to Ygnacio Valley Rd. Turn right onto Ygnacio Valley Rd. Turn left onto North Wiget. Turn left into Shadelands Arts Center parking lot.

Please let us know if you would like to make changes. If you would like to transfer this payment to another seminar location, we need to be notified in writing no later than 3:30pm, the day before the seminar. We do not issue refunds. We look forward to seeing you!

7/23/2013

CGCS Renewal Transcript

Name: Mr. Brian W Morris, CGCS
 Contact ID: 8575
 Member Type: A
 Pesticide License Expiration Date: 12/31/2013
 OR
 IPM Exam Date: None

	Start	Expires
CGCS Certification Period:	6/16/2009	6/15/2014

	Edu. Pts.	Svc. Pts.	Total
CGCS Requirements	5.00 (min)		15.00
Actual Earned	13.70	0.75	14.45
Actual Eligible	13.70	0.75	14.45
Deficit	0.00		0.55

Courses Taken

Date	Course Name	Svc. Pts.	Edu. Pts.
8/6/2013	Non-GCSAA education programs Walnut Creek PAPA Seminar 999-9989-16129	0.00	0.55
4/4/2013	Non-GCSAA education programs Petaluma PAPA Seminar 999-9827-15898	0.00	0.50
12/17/2012	GCSAA 'designated' survey(s) Member Needs Survey	0.25	0.00
12/14/2012	GCSAA 'designated' survey(s) Compensation and Benefits Survey	0.25	0.00
12/3/2012	GCSAA 'designated' survey(s) Superintendent Profile Survey	0.25	0.00
11/15/2012	Non-GCSAA education programs Pest Control Seminar 999-9399-15137	0.00	0.65
11/6/2012	Non-GCSAA education programs Petaluma PAPA Seminar 999-9288-14980	0.00	0.65
8/1/2012	Non-GCSAA education programs San Ramon PAPA Seminar 999-9180-14853	0.00	0.65
4/25/2012	Non-GCSAA education programs Pest Control Seminar 999-8972-14508	0.00	0.65
4/3/2012	Non-GCSAA education programs Petaluma PAPA Seminar 999-8959-14488	0.00	0.60
3/14/2012	Non-GCSAA education programs The Science of Physical Properties In The Real World - Beyond Text Books 999-8201-14581	0.00	0.60
11/3/2011	Non-GCSAA education programs Petaluma PAPA Seminar 999-8509-13583	0.00	0.60
10/24/2011	Non-GCSAA education programs Pest Control Seminar 999-8536-13622	0.00	0.65
10/5/2011	Non-GCSAA education programs San Ramon PAPA Seminar 999-8445-13508	0.00	0.65
8/22/2011	Non-GCSAA education programs Fairfield PAPA Seminar 999-8343-13381	0.00	0.65

CGCS Renewal Transcript

Courses Taken

Date	Course Name	Svc. Pts.	Edu. Pts.
3/22/2011	Non-GCSAA education programs Petaluma PAPA Seminar 999-8098-13005	0.00	0.60
2/17/2011	Non-GCSAA education programs Vertebrate Pest Control Seminar 999-7999-12653	0.00	0.70
11/3/2010	Non-GCSAA education programs Petaluma PAPA Seminar 999-7633-11930	0.00	0.65
10/26/2010	Non-GCSAA education programs Landscape Pesticide Applicator's Seminar 999-7606-11900	0.00	0.65
5/6/2010	Non-GCSAA education programs Superintendents Field Day 999-7413-11650	0.00	0.35
4/15/2010	Non-GCSAA education programs Spring Turfgrass Symposium 999-7356-11569	0.00	0.35
3/25/2010	Non-GCSAA education programs Petaluma PAPA Seminar 999-7369-11562	0.00	0.55
3/12/2010	Non-GCSAA education programs Landscape Pesticide Applicator's Seminar 999-7183-11189	0.00	0.65
3/9/2010	Non-GCSAA education programs Turf Pro Symposium 2010 999-7218-11247	0.00	0.50
11/4/2009	Non-GCSAA education programs Petaluma PAPA Seminar 999-6739-10252	0.00	0.65
7/29/2009	Non-GCSAA education programs Fairfield PAPA Seminar 999-6557-10041	0.00	0.65
Total Points:		0.75	13.70

Greater Vallejo Recreation District

Here is a list of employees who have certificates, licenses, Pest Control Advisor License, or annual training for FY 12-13.

- Teresa Hall- QAC 117242
- Doug Vaughn- Annual training
- Dave Flowers-Annual Training
- Brice Sweet- Does not currently spray, on probation, will be trained 1/14
- Amando Segura- Does not currently spray, on probation, will be trained 1/14
- Salvado Nuno-QAC 119047
- Dave Moore-QAC 130573
- Joe Famalette-Annual Training
- Pat Smith- Annual Training
- Kevin Birdsall-QAC 115624
- Joaquin Manibusan- Annual Training
- Gabe Lanusse-QAL 101869, PCA 76013

I have included Monthly use reports that we send to the County Agriculture Commisioners office. Missing months means that nothing was sprayed. I have also included GVRD's County Ag. Restricted Use Permit for 2013. Please contact Gabe Lanusse for any questions at 707-648-4618. Thanks.

**Pesticide Handler Training Program
PESTICIDE SAFETY TRAINING RECORD**

Print EMPLOYEE'S Name: Trust L. Hodges
 EMPLOYEE'S Signature: Trust L. Hodges
 Print EMPLOYER'S Name: G.V.R.D
 Print TRAINER'S Name: LARRY KAISER
 Trainer Qualifications: QAL 101335

Annual Training	Specific Pesticides				
	RANGER PRO	SURFLAN	(GALLERY) ISOXABEN	(GARLON)	TAHOE H
Trainer Initials	JK	JK	JK	JK	JK
Employee Initials	TH	TH	TH	TH	TH

ASSIGNED JOB DUTIES

- Mixer/Loader
- Applicator
- Service/Repair
- Flagger
- Other

Subjects as Specified in Section 6724(b) of the California Code of Regulations							
Safe Use of Pesticides	READ THE LABEL: Signal word, caution statements, first aid, rate, dilution volume. Applicable laws and regulations. MSDS and PSIS leaflet.	X	X	X	X	X	
	PROTECTIVE CLOTHING AND EQUIPMENT: Coveralls, gloves, goggles, boots, respirator, apron. Equipment cleaning and maintenance.	X	X	X	X	X	
	USE OF ENGINEERING CONTROLS (i.e., closed system, enclosed cabs).	X	X				
	SAFETY PROCEDURES: To be followed while mixing, loading, applying pesticides. Procedures for handling non-routine tasks or emergency situations.	X	X	X	X	X	
	DRIFT: Confine the spray to the crop. Watch out for people, animals, waterways, or any special hazard.	X	X	X	X	X	
	TRIPLE RINSE PESTICIDE CONTAINERS AT TIME OF USE: Never take home pesticide containers used at work.	X					
	STORE pesticides in a LOCKED and posted area or attended by an authorized person.	X					
	WEAR CLEAN WORK CLOTHES DAILY. Be aware of pesticide residues on clothing.	X					
	WASH hands and arms with SOAP & WATER: Before eating, drinking, smoking, going to the bathroom. Emergency eye flushing techniques.	X					
	WASH COMPLETELY at the end of the workday. Change into clean clothing.	X					
EMERGENCY MEDICAL INFORMATION: Name, address, phone number of clinic, physician, or hospital emergency room & where information is located.	X						
HEAT RELATED ILLNESS: Prevention, recognition, and first aid treatment.	X						
LOCATION OF PESTICIDE SAFETY INFORMATION SERIES (PSIS): Material Safety Data Sheets (MSDS). Pesticide Use Records, safety posters, and Restricted Entry Interval Information.	X						
EMPLOYEE'S RIGHTS: Against discharge, discrimination. Right to receive information.	X						
NEED FOR IMMEDIATE DECONTAMINATION of skin and eyes when exposure occurs.	X	X					
Health Information	SYMPTOMS OF POISONING: Pinpoint pupils, nausea, shortness of breath, dizziness, headaches, blurred vision. Ways poisoning or injury can occur.	X	X	X	X	X	
	ROUTES THROUGH WHICH PESTICIDES ENTER THE BODY.	X	X	X	X	X	
	UNDERSTANDING THE IMMEDIATE AND LONG TERM HAZARDS involved in handling pesticides. Known or suspected chronic and acute effects.	X	X	X	X	X	
	MEDICAL SUPERVISION: Required when working with carbamate or organophosphate pesticides with signal word of DANGER or WARNING.	X					
	Date of Training	1-10-13	1-10-13	1-10-13	1-10-13	1-10-13	

This form available in Spanish.

**Pesticide Handler Training Program
PESTICIDE SAFETY TRAINING RECORD**

Print EMPLOYEE'S Name: Douglas Vaughn
 EMPLOYEE'S Signature: Douglas Vaughn
 Print EMPLOYER'S Name: GVRD
 Print TRAINER'S Name: LARRY KAISER
 Trainer Qualifications: QAL 101335

Annual Training	Specific Pesticides				
	RANGER PRO	SURFLAN (GALLERY) ISOXABEN	(GARLON)	TAHOE H	
Trainer Initials	JK	JK	JK	JK	
Employee Initials	DV	DV	DV	DV	

ASSIGNED JOB DUTIES

- Mixer/Loader
- Applicator
- Service/Repair
- Flagger
- Other

Subjects as Specified in Section 6724(b) of the California Code of Regulations						
Safe Use of Pesticides	READ THE LABEL: Signal word, caution statements, first aid, rate, dilution volume. Applicable laws and regulations. MSDS and PSIS leaflet.	DV	DV	DV	DV	DV
	PROTECTIVE CLOTHING AND EQUIPMENT: Coveralls, gloves, goggles, boots, respirator, apron. Equipment cleaning and maintenance.	DV	DV	DV	DV	DV
	USE OF ENGINEERING CONTROLS (i.e., closed system, enclosed cabs).	DV				
	SAFETY PROCEDURES: To be followed while mixing, loading, applying pesticides. Procedures for handling non-routine tasks or emergency situations.	DV	DV	DV	DV	DV
	DRIFT: Confine the spray to the crop. Watch out for people, animals, waterways, or any special hazard.	DV	DV	DV	DV	DV
	TRIPLE RINSE PESTICIDE CONTAINERS AT TIME OF USE: Never take home pesticide containers used at work.	DV				
	STORE pesticides in a LOCKED and posted area or attended by an authorized person.	DV				
	WEAR CLEAN WORK CLOTHES DAILY. Be aware of pesticide residues on clothing.	DV				
	WASH hands and arms with SOAP & WATER: Before eating, drinking, smoking, going to the bathroom. Emergency eye flushing techniques.	DV				
	WASH COMPLETELY at the end of the workday. Change into clean clothing.	DV				
EMERGENCY MEDICAL INFORMATION: Name, address, phone number of clinic, physician, or hospital emergency room & where information is located.	DV					
HEAT RELATED ILLNESS: Prevention, recognition, and first aid treatment.	DV					
LOCATION OF PESTICIDE SAFETY INFORMATION SERIES (PSIS): Material Safety Data Sheets (MSDS). Pesticide Use Records, safety posters, and Restricted Entry Interval Information.	DV					
EMPLOYEE'S RIGHTS: Against discharge, discrimination. Right to receive information.	DV					
NEED FOR IMMEDIATE DECONTAMINATION of skin and eyes when exposure occurs.	DV	DV				
Health Information	SYMPTOMS OF POISONING: Pinpoint pupils, nausea, shortness of breath, dizziness, headaches, blurred vision. Ways poisoning or injury can occur.	DV	DV	DV	DV	DV
	ROUTES THROUGH WHICH PESTICIDES ENTER THE BODY.	DV	DV	DV	DV	DV
	UNDERSTANDING THE IMMEDIATE AND LONG TERM HAZARDS involved in handling pesticides. Known or suspected chronic and acute effects.	DV	DV	DV	DV	DV
	MEDICAL SUPERVISION: Required when working with carbamate or organophosphate pesticides with signal word of DANGER or WARNING.					
		1-10-13	1-10-13	1-10-13	1-10-13	1-10-13

This form available in Spanish.



“A higher level of Pest Management”

QualityPro green

Presenting this certificate of excellence to

Clark Pest Control

in acknowledgment of your continuing efforts toward professional excellence and environmental awareness in the pest management industry by meeting the QualityPro Green requirements and achieving the mark of excellence in pest management.

A handwritten signature in blue ink that reads "Andrew Orshelink".

official signature





California Environmental Protection Agency
Department of Pesticide Regulation

IPM Innovator

Clark Pest Control

is hereby recognized as an "IPM Innovator" for its leadership
and creativity in advancing the use of reduced-risk programs for
urban pest management.

Mary Ann Warmerdam
Mary-Ann Warmerdam, Director

18 March 2010
Date





IPM WEED CONTROL PROGRAM FOR COAST LANDSCAPE FOR THE YEAR 2013-2014

This IPM program will address the pesticide and weed control issues from two different approaches. These approaches are outlined below.

1. Areas that require a yearly application of a pre-emergent herbicide and a regular program of spot spraying the few weeds that break through the pre-emergent herbicide.
2. Open space areas.

I. Category one areas.

These are primarily irrigated roadside landscapes. Most, or all of them are on drip systems and will be pre-emerged in the late fall or winter. Pre-emergent herbicides with good control in the broadleaf weed spectrum will be used in these areas. A standard program of spot spraying these areas on a regular basis will keep the areas clean of all weeds. The spot spray program frequency will be based on the type of irrigation (drip or overhead). This frequency will range between three to five weeks.

II. Category two areas.

Weeds in open spaces fire break areas where we are trying to establish a strong grass population will be controlled with the first application of a non-selective broadleaf weed killer in the early winter (December to February depending on the growth conditions). Additional broadleaf herbicides will be applied if required to establish a good grass population. A midsummer application with a non-selective herbicide will be done if required. The grasses will be mowed in the spring as per the fire season requirements. Tree basins and plant groupings within the category two areas will be treated as a category one area and pre-emerged and spot sprayed accordingly.

Coast Landscape has always appreciated the need for pesticide use to maintain projects in a relatively

weed free condition while at the same time containing costs. However, this does not mean that we take an attitude of using chemicals without regard to the environment or public safety. We consider ourselves very fortunate to work with the City of Vallejo on developing an Integrated Pest Management Policy. We wish to focus on prevention of pest problems, rather than treatment, and in doing so minimize the negative impact on human health, the environment, and non-target organisms.

As a result of our experience in Vallejo, we are trying to eliminate our application of pre-emergent herbicide as much as possible. We also look forward to the use of wood chips as a method of weed control as an ongoing and regularly scheduled activity. We have reduced our use of Roundup Pro by changing our rate of application to a three gallon back pack from seven ounces to five ounces. It will take slightly longer for the weeds to die using this technique, but has reduced our overall usage of Roundup by 25% to 30%. Timing of this spot spraying is critical to assure we kill the weeds while they are young and tender which allows us to use a lower concentration and prevent any weeds from going to seed which would require further applications of chemicals.

Other IPM measures that we have taken to reduce the usage of pesticides in Vallejo and other areas that we maintain are as follows:

1. Klamath weed beetle, Rust and Thrips in Hypericum have been controlled by proper and sufficient usage of high nitrogen fertilizer after mowing. (Senda Nueva green belt.) We have experimented mowing and fertilizing at different times of the year and discovered that a mid summer mow is more effective in controlling the rust that comes on at the mid growing season.
2. The damage caused by Flathead Borers in Cotoneaster has been reduced by proper fall or winter fertilization and pruning out of infected branches when found
3. Aphids on various shrubs have been controlled by washing them down with high pressure water from our water truck. (College Oaks median for the County of Sacramento.)
4. Thrips on Heteromeles are better controlled with frequent pruning to prevent the populations from gaining a foothold.

Reducing the use of pesticides is only one facet of Best Management Practices used when implementing IPM. Others include promoting safety to the citizens of Vallejo as well as Coast Landscape employees, and delivering environmental stewardship to the affected areas.

City of Vallejo DPR Summary FY 2012/13

Landscape/Right of Way/Golf Course Applications		Quantity Used					
Product	Active Ingredients	LB	OZ	PT	QT	GA	Code
Pendulum	Pendimethalin	0	4262.5	0	0	0	30
Round-Up	Glyphosate	0	1878	0	0	0	30
Round-Up Pro	Glyphosate	0	3180	0	0	0	30
Ranger Pro	Glyphosate	0	21952	0	0	28.4	30
Round-Up Pro Max	Glyphosate	0	10942	0	0	0	30
Turflon	Triclopyr	0	820	0	0	0	30
Razor Pro	Glyphosate	0	25084	0	0	0	30
Trinity	Triticonazole	0	680	0	0	0	30
Garlon 4	Triclopyr	0	1614	0	0	0	30
Nufarm-Tahoe 4e	Triclopyr	0	60	0	0	0	30
Gallery 75 Df	Isoxaben	0	21.5	0	0	0	30
Surflan	Oryzalin/Dipropylsulfanilamide	0	21166.5	0	0	7.1	30
Sapphire	Penoxsulam	0	264	3	0	0	30
Magnify	Alkyl polyglycoside, Ammonium sulfate, Ammonium nitrate	0	30	0	0	0	30
Milestone	Aminopyralid Tri-isopropanolammonium	0	46	0	0	0	30
Heritage	Azoxystrobin	7	0	0	0	0	30
No Foam	Alkyl phenol ethoxylate, Isopropanol, Fatty Acids	0	916	0	0	0	30
Tri-Fol	Aliphatic polycarboxylate, calcium chloride	0	0	0	0	2.5	30
Kleen Up Pro	Glyphosate	0	15076	0	0	0	30
Daconil Weather Stik	Chlorothalonil	0	0	0	0	20	30
Medallion	Fludioxonil	0	345	0	0	0	30
Quick Silver	Carfentrazone-ethyl	0	64	0	0	0	30
Banner Maxx II	Propiconazole	0	0	0	0	5	30
Instrata	chlorothalonil	0	0	0	0	40	30
Honor	pyraclostrobin, boscalid	17	0	0	0	0	30
Aquamaster	Glyphosate	0	3584	0	0	0	30
Total		24	111985.5	3	0	103	

Total Weight in LB 7023.0938 **Total Volume in GA** 103.375

Structural Applications

Product	Active Ingredients	LB	OZ	PT	QT	GA
Termidor SC	Fipronil	0	8.02	0	0	0
Permethrin	Permethrin	0	0.88	0	0	0
Arlon (.33oz by weight)	Indoxacarb	0	0	0	0	0
		0	8.9	0	0	0

Total Weight in LB 0.55625 **Total Volume in GA** 0

Landscape/Structural Combined

Total Weight in LB 7023.65 **Total Volume in GA** 103.375

Includes pesticide applications by Public Works LMD contractors (D&H Landscaping, New Image Landscaping, Coast Landscape Management, and North Bay Landscape Management), by GVRD and Vallejo Golf Club Inc as well as structural pest contractor Clark.

All pesticide applications are tracked using the Monthly Summary Pesticide Use Report required by the Department of Pesticide Regulation. The data from the monthly reports are tracked by individual month tabs in this summary sheet. The data is summarized on this tab. Totals for each pesticide quantity used are divided by dry weight (LB and OZ) and wet weight (PT, QT, GAL). Total weight and volume (OZ to LB and PT/QT to GA) is calculated for future application tracking purposes.

**Attachment C.15 – Exempted and Conditionally
Exempted Discharges**

**C.15.b.iii.(1) & C.15.b.iii.(2) - Planned and Unplanned
Discharges of Potable Water**

**City of Vallejo
FY 2012-2013 Annual Report**

CITY OF VALLEJO
PUBLIC WORKS MAINTENANCE DIVISION
UTILITY BRANCH
PLANNED DISCHARGES OF THE POTABLE WATER SYSTEM
NPDES PERMIT FY 2012-2013 ANNUAL REPORT

SITE/ LOCATION	DISCHARGE TYPE	RECEIVING WATERBODY (IES)	DATE OF DISCHARGE	DURATION OF DISCHARGE (MILITARY TIME)	VOLUME (GALLONS) ESTIMATED FLOW RATE (GALLONS/DAY)	ESTIMATED FLOW RATE (GALLONS / DAY)	CHLORINE RESIDUAL (mg/L)	pH (STANDARD UNITS)	DISCHARGE TURBIDITY1 (NTU)	IMPLEMENTED BMPs & CORRECTIVE ACTIONS
BRITANNIA CT	HYD	CARQUINEZ STRAIT	7/2/2012	0900-0945	883	N/A	0.0MGL	7.2	0.54 NTU	AWWA BMP
WASHBURN CT	B.O	LAKE HERMAN	7/2/2012	1015-1100	830	N/A	0.0MGL	6.5	1.48 NTU	AWWA BMP
BLUE SKY CT	B.O	LAKE HERMAN	7/2/2012	1230-1300	883	N/A	0.0MGL	6.5	1.69 NTU	AWWA BMP
LYNDHURST LN	B.O	LAKE HERMAN	7/2/2012	1355-1425	763	N/A	0.0MGL	6.8	763 NTU	AWWA BMP
COUNTRYVIEW CT	B.O	CARQUINEZ STRAIT	7/2/2012	1500-1530	748	N/A	0.0MGL	6.2	0.73 NTU	AWWA BMP
16-20 PARROTT ST	HYD	MARE ISLAND STRAIT	7/2/2012	0835-0850	89	N/A	0.0MGL	6.5	0.84 NTU	AWWA BMP
13 WILSON AVE	HYD	MARE ISLAND STRAIT	7/2/2012	1005-1025	164	N/A	0.0MGL	6.5	0.94 NTU	AWWA BMP
WILSON / ST FRANCIS	HYD	MARE ISLAND STRAIT	7/2/2012	1235-1255	157	N/A	0.0MGL	6.5	0.90 NTU	AWWA BMP
119-135 BAXTER ST	HYD	MARE ISLAND STRAIT	7/2/2012	1405-1425	19	N/A	0.0MGL	6.5	0.89 NTU	AWWA BMP
WILSON AVE	HYD	MARE ISLAND STRAIT	7/3/2012	0835-0850	140	N/A	0.0MGL	6.5	0.80 NTU	AWWA BMP
166 FARRAGUT	HYD	MARE ISLAND STRAIT	7/3/2012	1000-1020	119	N/A	0.0MGL	6.5	0.90 NTU	AWWA BMP
HILBORN / LEE ST	HYD	MARE ISLAND STRAIT	7/3/2012	1235-1250	112	N/A	0.0MGL	6.5	0.92 NTU	AWWA BMP
HILBORN ACROSS 144-148	HYD	MARE ISLAND STRAIT	7/3/2012	1405-1415	149	N/A	0.0MGL	6.5	0.99 NTU	AWWA BMP
WILSON / B ST	HYD	MARE ISLAND STRAIT	7/3/2012	1505-1520	149	N/A	0.0MGL	6.5		AWWA BMP
SAXONY CT	B.O	CARQUINEZ STRAIT	7/3/2012	0930-1000	913	N/A	0.0MGL	6.4	2.92 NTU	AWWA BMP
SANDHURST CT	B.O	CARQUINEZ STRAIT	7/3/2012	1045-1115	748	N/A	0.0MGL	6.5	3.81 NTU	AWWA BMP
FELDSPAR CT NORTH	B.O	LAKE HERMAN	7/3/2012	1340-1415	808	N/A	0.0MGL	6.5	0.84 NTU	AWWA BMP
FELDSPAR CT SOUTH	B.O	LAKE HERMAN	7/3/2012	1425-1455	853	N/A	0.0MGL	6.4	0.88 NTU	AWWA BMP
LANSDOWNE PL	B.O	LAKE HERMAN	7/5/2012	0900-1000	748	N/A	0.0MGL	6.5	1.30NTU	AWWA BMP
RUSHCREEK PL	B.O	LAKE HERMAN	7/5/2012	1033-1130	792	N/A	0.0MGL	6.5	.90NTU	AWWA BMP
WATERFALL PL	B.O	LAKE HERMAN	7/5/2012	1235-1325	688	N/A	0.0MGL	6.5	.44NTU	AWWA BMP
PINNACLE POINT	B.O	LAKE HERMAN	7/6/2012	0815-0825	478	N/A	0.0MGL	6.5	0.40 NTU	AWWA BMP
BROADLEGH PL/ PINNACLE	HYD	LAKE HERMAN	7/6/2012	090-0915	254	N/A	0.0MGL	6.8	0.29 NTU	AWWA BMP
LANDGTON CT	B.O	LAKE HERMAN	7/6/2012	0950-10005	449	N/A	0.0MGL	6.5	0.79 NTU	AWWA BMP
BENNINGTON	B.O	LAKE HERMAN	7/6/2012	1300-1330	314	N/A	0.0MGL	6.5	1.64	AWWA BMP
CARISBROOKE LN	B.O	LAKE HERMAN	7/6/2012	1350-1405	374	N/A	0.0MGL	6.8	0.96 NTU	AWWA BMP
426-434 WILSON AVE	HYD	MARE ISLAND STRAIT	7/9/2012	0920-0930	127	N/A	0.0MGL	6.5	0.96 NTU	AWWA BMP
456-454 WILSON AVE	HYD	MARE ISLAND STRAIT	7/9/2012	1045-1055	112	N/A	0.0MGL	6.5	0.78 NTU	AWWA BMP
MARE ISLAND WAY / FARRAGET	HYD	MARE ISLAND STRAIT	7/9/2012	1250-1255	97	N/A	0.0MGL	6.5	0.74 NTU	AWWA BMP
206-210 CRAVEN ST	HYD	MARE ISLAND STRAIT	7/9/2012	1430-1440	105	N/A	0.0MGL	6.5	1.00 NTU	AWWA BMP
559 HICHBORN ST	HYD	MARE ISLAND STRAIT	7/9/2012	1510-1515	45	N/A	0.0MGL	6.5	2.29 NTU	AWWA BMP
5005 STAGHORN DR	B.O	LAKE HERMAN	7/9/2012	0805-850	800	N/A	0.0MGL	6.5	1.13 NTU	AWWA BMP
920 INNISFREE CT	B.O	LAKE HERMAN	7/9/2012	1000-1040	785	N/A	0.0MGL	6.5	0.33 NTU	AWWA BMP
SWAINSON CT	B.O	LAKE HERMAN	7/9/2012	1105-1200	785	N/A	0.0MGL	6.3	0.33 NTU	AWWA BMP
1985 BELTAIN CT	B.O	LAKE HERMAN	7/9/2012	1315-1405	845	N/A	0.0MGL	6.5	1.30 NTU	AWWA BMP
1380 WILDWING LN	B.O	LAKE HERMAN	7/9/2012	1445-1520	935	N/A	0.0MGL	6.5	1.67 NTU	AWWA BMP
DURROW CT	B.O	LAKE HERMAN	7/10/2012	0830-0905	823	N/A	0.0MGL	6.5	1.53 NTU	AWWA BMP
5427 LASALLE WAY	B.O	LAKE HERMAN	7/10/2012	1050-1135	1,070	N/A	0.0MGL	6.5	0.81 NTU	AWWA BMP
HICHBORNST / CARTER	HYD	MARE ISLAND STRAIT	7/12/2012	0920-0925	75	N/A	0.0MGL	6.8	1.87 NTU	AWWA BMP
COGHLAN ST / CARTER	HYD	MARE ISLAND STRAIT	7/12/2012	1120-1130	142	N/A	0.0MGL	6.8	2.75 NTU	AWWA BMP
SACRAMENTO ST / BOYSEN	HYD	MARE ISLAND STRAIT	7/12/2012	1345-1405	202	N/A	0.0MGL	6.5	0.43 NTU	AWWA BMP
SACRAMENTO ST / COGHLAN	HYD	MARE ISLAND STRAIT	7/12/2012	1520-1530	135	N/A	0.0MGL	6.8	1.41 NTU	AWWA BMP
SACRAMENTO ST / MISSISSIPPI	HYD	MARE ISLAND STRAIT	7/13/2012	0940-0950	120	N/A	0.0MGL	6.5	0.38 NTU	AWWA BMP
SCRAMENTO ST / NEBRASKA	HYD	MARE ISLAND STRAIT	7/13/2012	1050-1055	97	N/A	0.0MGL	6.5	0.85 NTU	AWWA BMP
HICHBORN ST / SACRAMENTO	HYD	MARE ISLAND STRAIT	7/13/2012	1340-1345	97	N/A	0.0MGL	6.5	0.45 NTU	AWWA BMP
HICHBORN ST / SANTA CLARA	HYD	MARE ISLAND STRAIT	7/13/2012	1410-1435	232	N/A	0.0MGL	7.1	2.1 NTU	AWWA BMP
CARVEN ST / CARTER ST	HYD	MARE ISLAND STRAIT	7/16/2012	1300-1315	97	N/A	0.0MGL	6.5	2.43 NTU	AWWA BMP
HICHBORN / SANTA CLARA	HYD	MARE ISLAND STRAIT	7/16/2012	1440-1500	37	N/A	0.0MGL	6.5	1.43 NTU	AWWA BMP
SACRAMENTO/ARKANAS	HYD	MARE ISLAND STRAIT	7/17/2012	1245-1325	142	N/A	0.0MGL	6.5	1.40NTU	AWWA BMP
SACRAMENTO/FARRAGUT	HYD	MARE ISLAND STRAIT	7/17/2012	1450-1525	120	N/A	0.0MGL	6.5	1.93NTU	AWWA BMP
FARRAGUT/SANTA CLARA	HYD	MARE ISLAND STRAIT	7/18/2012	0900-0915	82	N/A	0.0MGL	6.5	.62NTU	AWWA BMP
234-238 FARRAGUT AVE	HYD	MARE ISLAND STRAIT	7/18/2012	1020-1035	104	N/A	0.0MGL	6.5	.83NTU	AWWA BMP
25-27 ST FRANCIS ST	HYD	MARE ISLAND STRAIT	7/18/2012	1300-1315	104	N/A	0.0MGL	6.5	2.9NTU	AWWA BMP
YOLO/ARKANAS	HYD	MARE ISLAND STRAIT	7/18/2012	1415-1430	142	N/A	0.0MGL	6.5	.38NTU	AWWA BMP
NEBRASKA/MARIN ST	HYD	MARE ISLAND STRAIT	7/18/2012	1530-1545	172	N/A	0.0MGL	6.5	1.95NTU	AWWA BMP
HARBOR WAY 50'N/O DOCK D	HYD	MARE ISLAND STRAIT	7/19/2012	0930-0945	82	N/A	0.0MGL	6.5	0.86 NTU	AWWA BMP
HARBOR WAY 50'S/O DOCK C	HYD	MARE ISLAND STRAIT	7/19/2012	1010-1025	231	N/A	0.0MGL	6.5	0.91 NTU	AWWA BMP
HARBOR WAY DOCK A	HYD	MARE ISLAND STRAIT	7/19/2012	1300-1315	216	N/A	0.0MGL	6.5	0.93 NTU	AWWA BMP
MISSISSIPPI/MARIN ST	HYD	MARE ISLAND STRAIT	7/19/2012	1425-1440	134	N/A	0.0MGL	6.5	0.93 NTU	AWWA BMP
MISSISSIPPI/SONOMA BLVD	HYD	MARE ISLAND STRAIT	7/19/2012	1540-1555	134	N/A	0.0MGL	6.5	0.61 NTU	AWWA BMP
HARBOR WAY DOCK C / B	HYD	MARE ISLAND STRAIT	7/20/2012	1330-1345	74	N/A	0.0MGL	6.5	0.71 NTU	AWWA BMP
COUCH / MISSISSIPPI	HYD	MARE ISLAND STRAIT	7/23/2012	0831-0847	97	N/A	0.0MGL	6.5	0.61 NTU	AWWA BMP
NEBRASKA / SUTTER	HYD	MARE ISLAND STRAIT	7/23/2012	1005-1020	127	N/A	0.0MGL	6.5	1.09 NTU	AWWA BMP
301 NEBRASKA / SONOMA	HYD	MARE ISLAND STRAIT	7/23/2012	1235-1248	127	N/A	0.0MGL	6.5	0.58 NTU	AWWA BMP

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SITE/ LOCATION	DISCHARGE TYPE	RECEIVING WATERBODY (IES)	DATE OF DISCHARGE	DURATION OF DISCHARGE (MILITARY TIME)	VOLUME (GALLONS) ESTIMATED FLOW RATE (GALLONS/DAY)	ESTIMATED FLOW RATE (GALLONS / DAY)	CHLORINE RESIDUAL (mg/L)	pH (STANDARD UNITS)	DISCHARGE TURBIDITY1 (NTU)	IMPLEMENTED BMPs & CORRECTIVE ACTIONS
2999 SONOMA / NEBRASKA	HYD	MARE ISLAND STRAIT	7/23/2012	1403-1415	201	N/A	0.0MGL	6.5	0.60 NTU	AWWA BMP
AKANSAS / SUTTER	HYD	MARE ISLAND STRAIT	7/23/2012	1505-1520	104	N/A	0.0MGL	6.5	0.79 NTU	AWWA BMP
HIGHLAND / ELEMENTARY	HYD	MARE ISLAND STRAIT	7/24/2012	0831-0845	97	N/A	0.0MGL	6.5	0.52 NTU	AWWA BMP
SONOMA BLVD/ ARKANASA	HYD	MARE ISLAND STRAIT	7/24/2012	1235-1250	194	N/A	0.0MGL	6.5	1.81 NTU	AWWA BMP
INDIANA / SUTTER	HYD	MARE ISLAND STRAIT	7/24/2012	0920-0935	269	N/A	0.0MGL	6.8	0.69 NTU	AWWA BMP
TENNESSEE ST / SUTTER	HYD	MARE ISLAND STRAIT	7/24/2012	1050-1110	329	N/A	0.0MGL	6.8	1.36 NTU	AWWA BMP
SONOMA BLVD / INDIANA	HYD	MARE ISLAND STRAIT	7/24/2012	1240-1250	120	N/A	0.0MGL	6.8	1.53 NTU	AWWA BMP
SONOMA BLVD / ILLIONIS	HYD	MARE ISLAND STRAIT	7/24/2012	1300-1305	45	N/A	0.0MGL	7.1	1.35 NTU	AWWA BMP
INDIANA / SANTA CLARA	HYD	MARE ISLAND STRAIT	7/24/2012	1325-1345	157	N/A	0.0MGL	7.1	1.09 NTU	AWWA BMP
MARIN ST / IDIANA ST	HYD	MARE ISLAND STRAIT	7/25/2012	1305-1320	120	N/A	0.0MGL	7.1	0.98 NTU	AWWA BMP
WILSON / TENNESSE	HYD	MARE ISLAND STRAIT	7/25/2012	0900-1030	32	N/A	0.0MGL	6.5	0.85 NTU	AWWA BMP
HIGHLAND / ELEMENTARY	HYD	MARE ISLAND STRAIT	7/27/2012	0835-0849	82	N/A	0.0MGL	6.5	0.61 NTU	AWWA BMP
SANTA CLARA / COGHAN	HYD	MARE ISLAND STRAIT	7/27/2012	1035-1048	59	N/A	0.0MGL	6.5	0.95 NTU	AWWA BMP
MARIN / ARKANSAS	HYD	MARE ISLAND STRAIT	7/27/2012	1235-1248	127	N/A	0.0MGL	6.5	0.77 NTU	AWWA BMP
SACRAMENTO / ILLINOIS	HYD	MARE ISLAND STRAIT	7/27/2012	1405-1420	172	N/A	0.0MGL	6.5	0.42 NTU	AWWA BMP
145-151 CRAVEN ST	HYD	MARE ISLAND STRAIT	7/27/2012	1400-1415	97	N/A	0.0MGL	6.5	0.43 NTU	AWWA BMP
NEBRASKA / NAPA	HYD	MARE ISLAND STRAIT	7/30/2012	1500-1520	261	N/A	0.0MGL	6.5	0.70 NTU	AWWA BMP
500 TENNESSE / SONOMA BLVD	HYD	MARE ISLAND STRAIT	7/30/2012	0930-0950	134	N/A	0.0MGL	6.5	0.37 NTU	AWWA BMP
ILLIONOIS / NAPA	HYD	MARE ISLAND STRAIT	7/30/2012	1040-1059	306	N/A	0.0MGL	6.5	0.41 NTU	AWWA BMP
SACRAMENTO / INDIANA	HYD	MARE ISLAND STRAIT	7/30/2012	1235-1300	127	N/A	0.0MGL	6.5	0.44 NTU	AWWA BMP
ILLIONOIS / MARIN	HYD	MARE ISLAND STRAIT	7/31/2012	1300-1330	351	N/A	0.0MGL	6.5	1.30 NTU	AWWA BMP
444 ILLINOIS / NAPA	HYD	MARE ISLAND STRAIT	8/1/2012	0835-0850	89	N/A	0.0MGL	6.5	0.96 NTU	AWWA BMP
EL DORADO / ILLINOIS	HYD	MARE ISLAND STRAIT	8/1/2012	1005-1030	187	N/A	0.0MGL	6.5	0.78 NTU	AWWA BMP
BROADWAY / ILLINOIS	HYD	MARE ISLAND STRAIT	8/1/2012	1235-1245	142	N/A	0.0MGL	6.5	0.91 NTU	AWWA BMP
ACROSS 1539 1543 EL DORADO	HYD	MARE ISLAND STRAIT	8/1/2012	1406-1430	194	N/A	0.0MGL	6.5	0.86 NTU	AWWA BMP
401 MISSISSIPPI	HYD	MARE ISLAND STRAIT	8/1/2012	1030-1050	344	N/A	0.0MGL	6.5	0.17 NTU	AWWA BMP
NAPA / ARKANSAS	HYD	MARE ISLAND STRAIT	8/1/2012	1300-1325	359	N/A	0.0MGL	6.5	0.23 NTU	AWWA BMP
ILLINOIS / FERM PL	HYD	MARE ISLAND STRAIT	8/1/2012	1430-1456	479	N/A	0.0MGL	6.5	0.94 NTU	AWWA BMP
1700-1706 FERN PL	HYD	MARE ISLAND STRAIT	8/1/2012	1510-1525	194	N/A	0.0MGL	6.5	0.61 NTU	AWWA BMP
NAPA/INDIANA	HYD	MARE ISLAND STRAIT	8/2/2012	0915-1445	418	N/A	0.0MGL	6.5	0.29	AWWA BMP
MISSISSIPPI/NAPA	HYD	MARE ISLAND STRAIT	8/2/2012	1015-1030	418	N/A	0.0MGL	6.5	0.65	AWWA BMP
NAPA/DELAWARE	HYD	MARE ISLAND STRAIT	8/2/2012	1300-1315	396	N/A	0.0MGL	6.5	0.65	AWWA BMP
DALAWARE/ELDARADO	HYD	MARE ISLAND STRAIT	8/2/2012	1430-1445	366	N/A	0.0MGL	6.5	0.67	AWWA BMP
ELDORADO/NABRASKA	HYD	MARE ISLAND STRAIT	8/2/2012	0835-0845	97	N/A	0.0MGL	6.5	0.57	AWWA BMP
ELDORADO/ARKANSAS	HYD	MARE ISLAND STRAIT	8/2/2012	1005-1020	127	N/A	0.0MGL	6.5	0.90	AWWA BMP
TEXAS/BROADWAY	HYD	MARE ISLAND STRAIT	8/2/2012	1235-1245	134	N/A	0.0MGL	6.5	0.78	AWWA BMP
BROADWAY/NABRASKA	HYD	MARE ISLAND STRAIT	8/2/2012	1405-1425	104	N/A	0.0MGL	6.5	0.37	AWWA BMP
BROADWAY/DELAWARE	HYD	MARE ISLAND STRAIT	8/2/2012	1505-1520	209	N/A	0.0MGL	6.5	0.77	AWWA BMP
EL DORADO / TEXAS	HYD	MARE ISLAND STRAIT	8/3/2012	1330-1400	127	N/A	0.0MGL	7.1	0.77 NTU	AWWA BMP
BROADWAY / BYRON	HYD	MARE ISLAND STRAIT	8/3/2012	1450-1510	142	N/A	0.0MGL	7	0.54 NTU	AWWA BMP
BROADWAY ARKANSAS	HYD	MARE ISLAND STRAIT	8/6/2012	0910-0930	531	N/A	0.0MGL	6.5	0.87 NTU	AWWA BMP
ACROSS 817 BROADWAY	HYD	MARE ISLAND STRAIT	8/6/2012	1015-1030	643	N/A	0.0MGL	6.8	0.78 NTU	AWWA BMP
BYRON / MONTEREY	HYD	MARE ISLAND STRAIT	8/6/2012	1315-1345	561	N/A	0.0MGL	6.5	1.02 NTU	AWWA BMP
ILLINOIS / PIERCE	HYD	MARE ISLAND STRAIT	8/6/2012	1430-1445	433	N/A	0.0MGL	6.5	0.85 NTU	AWWA BMP
INDIANA / COLUSAS	HYD	MARE ISLAND STRAIT	8/6/2012	1545-1600	261	N/A	0.0MGL	6.5	0.75 NTU	AWWA BMP
1355 COLUSA ST	HYD	MARE ISLAND STRAIT	8/6/2012	0920-0935	187	N/A	0.0MGL	6.5	1.04 NTU	AWWA BMP
1019 INDIANA ST	HYD	MARE ISLAND STRAIT	8/6/2012	1045-1055	135	N/A	0.0MGL	6.5	0.79 NTU	AWWA BMP
INDIANA ST / AMADOR ST	HYD	MARE ISLAND STRAIT	8/6/2012	1320-1330	165	N/A	0.0MGL	6.5	1.03 NTU	AWWA BMP
AMADOR ST / ILLINOIS	HYD	MARE ISLAND STRAIT	8/6/2012	1430-1440	165	N/A	0.0MGL	6.5	1.03 NTU	AWWA BMP
HANNS AVE / AMADOR ST	HYD	MARE ISLAND STRAIT	8/6/2012	1520-1530	128	N/A	0.0MGL	6.5	0.79 NTU	AWWA BMP
1335 GLENN ST	HYD	MARE ISLAND STRAIT	8/7/2012	1500-1520	291	N/A	0.0MGL	6.5	1.8 NTU	AWWA BMP
AMADOR ST / NEBRASKA	HYD	MARE ISLAND STRAIT	8/7/2012	0835-0849	142	N/A	0.0MGL	6.5	0.25 NTU	AWWA BMP
1303 GLENN ST	HYD	MARE ISLAND STRAIT	8/7/2012	1005-1025	224	N/A	0.0MGL	6.5	0.28 NTU	AWWA BMP
205 ' EAST PRICE NEBRASKA	HYD	MARE ISLAND STRAIT	8/7/2012	1231-1245	276	N/A	0.0MGL	6.5	0.78 NTU	AWWA BMP
AMADOR ST EL CAMINO	HYD	MARE ISLAND STRAIT	8/7/2012	1405-1420	164	N/A	0.0MGL	6.5	0.56 NTU	AWWA BMP
VALLEJO HIGH SCHOOL	HYD	MARE ISLAND STRAIT	8/7/2012	1508-1530	246	N/A	0.0MGL	6.5	3.74 NTU	AWWA BMP
1411 GLENN ST	HYD	MARE ISLAND STRAIT	8/8/2012	0900-0930	247	N/A	0.0MGL	6.5	1.50 NTU	AWWA BMP
GLENN ST	HYD	MARE ISLAND STRAIT	8/8/2012	1030-1050	467	N/A	0.0MGL	6.5	1.33 NTU	AWWA BMP
VALLEJO HIGH SCHOOL	HYD	MARE ISLAND STRAIT	8/8/2012	1315-1335	434	N/A	0.0MGL	6.5	0.18 NTU	AWWA BMP
NEBRASKA ST	HYD	MARE ISLAND STRAIT	8/8/2012	1420-1440	254	N/A	0.0MGL	6.5	1.24 NTU	AWWA BMP
VALLEJO HIGH GYM BOYS	HYD	MARE ISLAND STRAIT	8/8/2012	1530-1550		N/A	0.0MGL	6.5	1.50 NTU	AWWA BMP
1021 TUOLUMNE ST	HYD	MARE ISLAND STRAIT	8/8/2012	0930-0940	165	N/A	0.0MGL	7.1	0.39 NTU	AWWA BMP
TUOLUMNE / ILLINOIS	HYD	MARE ISLAND STRAIT	8/8/2012	1040-1050	180	N/A	0.0MGL	7.1	0.45 NTU	AWWA BMP
TUOLUMNE / MONTE VISTA	HYD	MARE ISLAND STRAIT	8/8/2012	1250-1300	142	N/A	0.0MGL	7.1	0.42 NTU	AWWA BMP

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NEBRASKA / TUOLUMNE	HYD	MARE ISLAND STRAIT	8/8/2012	1445-1450	120	N/A	0.0MGL	7.1	0.55 NTU	AWWA BMP
HERON CT	B.O	MARE ISLAND STRAIT	8/8/2012	0915-0930	93	N/A	0.0MGL	6.5	2.78 NTU	AWWA BMP
BRANT CT	B.O	MARE ISLAND STRAIT	8/8/2012	1105-1115	96	N/A	0.0MGL	6.5	1.09 NTU	AWWA BMP
YANKKEE JIM CT	B.O	MARE ISLAND STRAIT	8/8/2012	1130-1145	209	N/A	0.0MGL	6.5	.92 NTU	AWWA BMP
NORDEN CT	B.O	MARE ISLAND STRAIT	8/8/2012	13500-1405	124	N/A	0.0MGL	6.5	.72 NTU	AWWA BMP
LILAC CT	B.O	MARE ISLAND STRAIT	8/8/2012	1425-1440	126	N/A	0.0MGL	6.5	0.46 NTU	AWWA BMP
1225 TUOLUMNE / SLEEPY HOLLOW	HYD	MARE ISLAND STRAIT	8/9/2012	0900-0915	164	N/A	0.0MGL	6.5	0.55 NTU	AWWA BMP
933-939 NEBRASKA	HYD	MARE ISLAND STRAIT	8/9/2012	1015-1030	374	N/A	0.0MGL	6.5	2.18 NTU	AWWA BMP
1011-1021 NEBRASKA	HYD	MARE ISLAND STRAIT	8/9/2012	1110-1115	284	N/A	0.0MGL	6.5	1.86 NTU	AWWA BMP
DOREEN CT	B.O	MARE ISLAND STRAIT	8/9/2012	0850-0905	152	N/A	0.0MGL	6.5	1.0 NTU	AWWA BMP
LOBELIA CT	B.O	MARE ISLAND STRAIT	8/9/2012	0945-1000	115	N/A	0.0MGL	6.5	.98 NTU	AWWA BMP
ASTER CT	B.O	MARE ISLAND STRAIT	8/9/2012	1100-1115	204	N/A	0.0MGL	6.5	.76 NTU	AWWA BMP
MARIGOLD CT	B.O	MARE ISLAND STRAIT	8/9/2012	1300-1315	110	N/A	0.0MGL	6.5	.42 NTU	AWWA BMP
RHEA CT	B.O	MARE ISLAND STRAIT	8/9/2012	1445-1505	252	N/A	0.0MGL	6.5	1.26 NTU	AWWA BMP
ROSE CT	B.O	MARE ISLAND STRAIT	8/10/2012	0830-0849	224	N/A	0.0MGL	6.5	0.60 NTU	AWWA BMP
EASTER CT	B.O	MARE ISLAND STRAIT	8/10/2012	1000-1030	449	N/A	0.0MGL	6.5	0.49 NTU	AWWA BMP
DONNA CT	B.O	MARE ISLAND STRAIT	8/10/2012	1300-1320	307	N/A	0.0MGL	6.5	1.25 NTU	AWWA BMP
ELENA CT	B.O	MARE ISLAND STRAIT	8/10/2012	1500-1520	299	N/A	0.0MGL	6.5	0.63 NTU	AWWA BMP
1111-1123 NEBRASKA ST	HYD	MARE ISLAND STRAIT	8/13/2012	0910-0930	299	N/A	0.0MGL	6.5	0.41 NTU	AWWA BMP
1143 NEBRASKA ST	HYD	MARE ISLAND STRAIT	8/13/2012	1020-1050	449	N/A	0.0MGL	6.5	0.67 NTU	AWWA BMP
105 FRESNO ST	HYD	MARE ISLAND STRAIT	8/13/2012	1230-1250	299	N/A	0.0MGL	6.5	0.54 NTU	AWWA BMP
151 CARROLL ST	HYD	MARE ISLAND STRAIT	8/13/2012	1430-1515	785	N/A	0.0MGL	6.5	0.93 NTU	AWWA BMP
117 CARROLL ST	HYD	MARE ISLAND STRAIT	8/13/2012	1545-1615	299	N/A	0.0MGL	6.5	0.84 NTU	AWWA BMP
BELLA VISTA / HANNS AVE	HYD	MARE ISLAND STRAIT	8/13/2012	1030-1040	135	N/A	0.0MGL	6.5	0.78 NTU	AWWA BMP
53 CARROLL ST	HYD	MARE ISLAND STRAIT	8/13/2012	1245-1255	165	N/A	0.0MGL	6.8	1.17 NTU	AWWA BMP
21 CARROLL ST	HYD	MARE ISLAND STRAIT	8/13/2012	1420-1430	135	N/A	0.0MGL	7.1	0.73 NTU	AWWA BMP
57 FRESNO ST	HYD	MARE ISLAND STRAIT	8/13/2012	1520-1535	239	N/A	0.0MGL	7.1	1.09 NTU	AWWA BMP
MARI CT	B.O	MARE ISLAND STRAIT	8/13/2012	0900-1030	337	N/A	0.0MGL	6.5	0.19 NTU	AWWA BMP
JERILYNN CT	B.O	MARE ISLAND STRAIT	8/13/2012	1050-1140	748	N/A	0.0MGL	6.5	0.24 NTU	AWWA BMP
JOANN CT	B.O	MARE ISLAND STRAIT	8/13/2012	1245-1350	770	N/A	0.0MGL	6.5	0.96 NTU	AWWA BMP
RHONDA CT	B.O	MARE ISLAND STRAIT	8/13/2012	1400-1450	748	N/A	0.0MGL	6.5	0.15 NTU	AWWA BMP
FORSYTHIA CT	B.O	MARE ISLAND STRAIT	8/13/2012	1440-1520	778	N/A	0.0MGL	6.5	0.32 NTU	AWWA BMP
MONITOR PASS	B.O	MARE ISLAND STRAIT	8/14/2012	0815-0850	763	N/A	0.0MGL	6.5	1.37 NTU	AWWA BMP
ROLLEN CT	B.O	MARE ISLAND STRAIT	8/14/2012	1000-1035	785	N/A	0.0MGL	6.5	1.65 NTU	AWWA BMP
STEPHANIE CT	B.O	MARE ISLAND STRAIT	8/14/2012	1105-1130	733	N/A	0.0MGL	6.5	1.46 NTU	AWWA BMP
TOBIN CT	B.O	MARE ISLAND STRAIT	8/14/2012	1345-1435	845	N/A	0.0MGL	6.5	0.19 NTU	AWWA BMP
HIBISCUS CT	B.O	MARE ISLAND STRAIT	8/14/2012	1450-1515	726	N/A	0.0MGL	6.5	0.15 NTU	AWWA BMP
CALAVERAS WAY	HYD	MARE ISLAND STRAIT	8/14/2012	0850-0920	501	N/A	0.0MGL	6.5	1.8 NTU	AWWA BMP
ACROSS 1241 NEBRASKA	HYD	MARE ISLAND STRAIT	8/14/2012	1000-1030	486	N/A	0.0MGL	6.5	0.98 NTU	AWWA BMP
SHASTA / NEBRASKA	HYD	MARE ISLAND STRAIT	8/14/2012	1230-1300	419	N/A	0.0MGL	6.5	0.55 NTU	AWWA BMP
ESIGN AVE	HYD	MARE ISLAND STRAIT	8/14/2012	1400-1420	337	N/A	0.0MGL	6.5	0.54 NTU	AWWA BMP
MARIPOSA	HYD	MARE ISLAND STRAIT	8/14/2012	1510-1530	419	N/A	0.0MGL	6.5	0.45 NTU	AWWA BMP
21 FRESNO	HYD	MARE ISLAND STRAIT	8/15/2012	1020-1040	112	N/A	0.0MGL	6.5	0.55 NTU	AWWA BMP
51 VENTURA ST	HYD	MARE ISLAND STRAIT	8/15/2012	1230-1255	299	N/A	0.0MGL	6.5	0.45 NTU	AWWA BMP
21 VE3NTURA ST	HYD	MARE ISLAND STRAIT	8/15/2012	1420-1440	224	N/A	0.0MGL	6.5	0.84 NTU	AWWA BMP
1400 ENSIGN / MARIPOSA	HYD	MARE ISLAND STRAIT	8/15/2012	1515-1525	149	N/A	0.0MGL	6.5	0.77 NTU	AWWA BMP
DAISY CT	B.O	MARE ISLAND STRAIT	8/15/2012	0900-0930	830	N/A	0.0MGL	6.5	0.18 NTU	AWWA BMP
DAVID CT	B.O	MARE ISLAND STRAIT	8/15/2012	11.00-1130	808	N/A	0.0MGL	6.8	0.12 NTU	AWWA BMP
YALE CT	B.O	MARE ISLAND STRAIT	8/15/2012	1340-1425	748	N/A	0.0MGL	6.8	0.69 NTU	AWWA BMP
FISK CT	B.O	MARE ISLAND STRAIT	8/15/2012	1520-1550	890	N/A	0.0MGL	6.5	0.98 NTU	AWWA BMP
STONEWALK CT	B.O	LAKE CHABOLT	8/16/2012	0920-0950	755	N/A	0.0MGL	6.5	1.58 NTU	AWWA BMP
ARROWHEAD CT	B.O	LAKE CHABOLT	8/16/2012	1040-1110	740	N/A	0.0MGL	6.5	0.42 NTU	AWWA BMP
FIELDSTONE CT	B.O	LAKE CHABOLT	8/16/2012	1350-1420	763	N/A	0.0MGL	6.5	0.16 NTU	AWWA BMP
RAINTREE CT	B.O	LAKE CHABOLT	8/16/2012	1530-1600	748	N/A	0.0MGL	6.5	0.26 NTU	AWWA BMP
HANNS LN	HYD	MARE ISLAND STRAIT	8/16/2012	0820-0830	75	N/A	0.0MGL	6.5	0.38 NTU	AWWA BMP
ILLINOIS ST	HYD	MARE ISLAND STRAIT	8/16/2012	0915-0930	232	N/A	0.0 MGL	6.5	1.53 NTU	AWWA BMP
INDIANA ST	HYD	MARE ISLAND STRAIT	8/16/2012	1115-1130	254	N/A	0.0MGL	6.5	1.59 NTU	AWWA BMP
105 VENTURA	HYD	MARE ISLAND STRAIT	8/16/2012	1315-1330	194	N/A	0.0MGL	6.5	0.87 NTU	AWWA BMP
135 VENTURA	HYD	MARE ISLAND STRAIT	8/16/2012	1400-1415	150	N/A	0.0MGL	6.5	0.67 NTU	AWWA BMP
FLEAMING/MOUNTAINVIEW	HYD	MARE ISLAND STRAIT	8/16/2012	1530-1545	120	N/A	0.0MGL	6.5	0.51 NTU	AWWA BMP
ILLINOIS ST	HYD	MARE ISLAND STRAIT	8/16/2012	1610-1625	120	N/A	0.0MGL	6.5	0.96 NTU	AWWA BMP
1002 HIGHLAND / NEBRASKA	HYD	MARE ISLAND STRAIT	8/20/2012	1050-1110	284	N/A	0.0MGL	6.5	1.34 NTU	AWWA BMP
1036-1032 HIGHLAND	HYD	MARE ISLAND STRAIT	8/20/2012	1245-1300	231	N/A	0.0MGL	6.5	0.87 NTU	AWWA BMP
1404 NEBRASKA / MARIPOSA	HYD	MARE ISLAND STRAIT	8/20/2012	1420-1430	194	N/A	0.0MGL	6.5	0.95 NTU	AWWA BMP

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SITE/ LOCATION	DISCHARGE TYPE	RECEIVING WATERBODY (IES)	DATE OF DISCHARGE	DURATION OF DISCHARGE (MILITARY TIME)	VOLUME (GALLONS) ESTIMATED FLOW RATE (GALLONS/DAY)	ESTIMATED FLOW RATE (GALLONS / DAY)	CHLORINE RESIDUAL (mg/L)	pH (STANDARD UNITS)	DISCHARGE TURBIDITY1 (NTU)	IMPLEMENTED BMPs & CORRECTIVE ACTIONS
AKANSAS / STATE	HYD	MARE ISLAND STRAIT	8/20/2012	1545-1600	246	N/A	0.0MGL	6.5	0.94 NTU	AWWA BMP
INDIANA / SHASTA	HYD	MARE ISLAND STRAIT	8/20/2012	1010-1025	74	N/A	0.0MGL	6.5	0.61 NTU	AWWA BMP
ILLINOIS / SHASTA	HYD	MARE ISLAND STRAIT	8/20/2012	1320-1330	74	N/A	0.0MGL	6.5	0.46 NTU	AWWA BMP
INDIANA / MENDOCINO	HYD	MARE ISLAND STRAIT	8/20/2012	1350-1400	74	N/A	0.0MGL	6.5	0.52 NTU	AWWA BMP
SHASTA / ARKANSAS	HYD	MARE ISLAND STRAIT	8/20/2012	1425-1435	74	N/A	0.0MGL	6.5	0.83 NTU	AWWA BMP
102-108 LOIS LANE	HYD	MARE ISLAND STRAIT	8/20/2012	1500-1510	74	N/A	0.0MGL	6.5	1.02 NTU	AWWA BMP
ARKANSA / MARIPOSA	HYD	MARE ISLAND STRAIT	8/21/2012	0845-0855	127	N/A	0.0MGL	6.8	0.43 NTU	AWWA BMP
ILLINOIS / STATE	HYD	MARE ISLAND STRAIT	8/21/2012	1030-1045	291	N/A	0.0MGL	7.1	0.98 NTU	AWWA BMP
MARIPOSA / ILLINOIS	HYD	MARE ISLAND STRAIT	8/21/2012	1315-1330	231	N/A	0.0MGL	6.5	0.79 NTU	AWWA BMP
STATE / INDIANA	HYD	MARE ISLAND STRAIT	8/21/2012	1430-1445	112	N/A	0.0MGL	6.5	0.58 NTU	AWWA BMP
MARTIPOSA / INDIANA	HYD	MARE ISLAND STRAIT	8/21/2012	1615-1630	381	N/A	0.0MGL	6.5	0.88 NTU	AWWA BMP
53 ADM CALLAGHAN	HYD	MARE ISLAND STRAIT	8/22/2012	0945-1000	74	N/A	0.0MGL	6.5	1.38 NTU	AWWA BMP
66 ADM CALLAGHAN	HYD	MARE ISLAND STRAIT	8/22/2012	1115-1130	74	N/A	0.0MGL	6.5	0.70 NTU	AWWA BMP
MANHATTAN / LASSEN	HYD	MARE ISLAND STRAIT	8/22/2012	1330-1345	74	N/A	0.0MGL	6.5	.16 NTU	AWWA BMP
ADM CALLAGHAN / HENRY	HYD	MARE ISLAND STRAIT	8/22/2012	1420-1435	90	N/A	0.0MGL	6.5	.74 NTU	AWWA BMP
111-117 MILITA	HYD	MARE ISLAND STRAIT	8/22/2012	1000-1020	306	N/A	0.0MGL	6.5	1.78 NTU	AWWA BMP
140 ADM CALLAGHAN	HYD	MARE ISLAND STRAIT	8/22/2012	1050-1130	762	N/A	0.0MGL	6.5	4.54NTU	AWWA BMP
200 ADM CALLAGHAN	HYD	MARE ISLAND STRAIT	8/22/2012	1330-1345	388	N/A	0.0MGL	6.5	1.20 NTU	AWWA BMP
LASSEN / HENRY	HYD	MARE ISLAND STRAIT	8/22/2012	1430-1450	398	N/A	0.0MGL	6.5	1.52 NTU	AWWA BMP
100 UNIVERSITY / LASSEN	HYD	MARE ISLAND STRAIT	8/22/2012	1545-1600	246	N/A	0.0MGL	6.5	1.38 NTU	AWWA BMP
110 ADM CALLAGHAN	HYD	MARE ISLAND STRAIT	8/23/2012	0925-0930	374	N/A	0.0MGL	6.7	0.91 NTU	AWWA BMP
MAYFAIR // LASSEN	HYD	MARE ISLAND STRAIT	8/23/2012	1030-1045	90	N/A	0.0MGL	6.5	1.75 NTU	AWWA BMP
MANHATTAN / VERVAIS	HYD	MARE ISLAND STRAIT	8/23/2012	1550-1610	90	N/A	0.0MGL	6.5	.77 NTU	AWWA BMP
MAYFAIR / VERVAIS	HYD	MARE ISLAND STRAIT	8/23/2012	0915-0930	456	N/A	0.0MGL	6.5	1.96 NTU	AWWA BMP
148 UNIVERTSITY / VARVAIS	HYD	MARE ISLAND STRAIT	8/23/2012	1000-1400	321	N/A	0.0MGL	6.5	3.21 NTU	AWWA BMP
230 UNIVERSITY	HYD	MARE ISLAND STRAIT	8/27/2012	0845-0905	254	N/A	0.0MGL	6.5	1.33 NTU	AWWA BMP
HENRY ST	HYD	MARE ISLAND STRAIT	8/27/2012	1030-1050	232	N/A	0.0MGL	6.5	1.75 NTU	AWWA BMP
HENRY ST	HYD	MARE ISLAND STRAIT	8/27/2012	1250-1310	224	N/A	0.0MGL	6.5	1.56 NTU	AWWA BMP
MAYFAIR / BOWMEN	HYD	MARE ISLAND STRAIT	8/27/2012	1015-1025	74	N/A	0.0MGL	6.5	.42 NTU	AWWA BMP
MANHATTEN / BOWMEN	HYD	MARE ISLAND STRAIT	8/27/2012	1055-1110	90	N/A	0.0MGL	6.7	1.16 NTU	AWWA BMP
LASSEN CT	HYD	MARE ISLAND STRAIT	8/27/2012	1315-1330	90	N/A	0.0MGL	6.5	.78 NTU	AWWA BMP
CHARLES CT	HYD	MARE ISLAND STRAIT	8/27/2012	1510-1525	90	N/A	0.0MGL	6.5	.67 NTU	AWWA BMP
425 HENRY ST	HYD	MARE ISLAND STRAIT	8/28/2012	1530-1540	179	N/A	0.0MGL	6.5	.64 NTU	AWWA BMP
1560-1568 VERVAIS	HYD	MARE ISLAND STRAIT	8/29/2012	0900-0915	516	N/A	0.0MGL	6.5	0.95 NTU	AWWA BMP
190 SKYWAY	HYD	MARE ISLAND STRAIT	8/29/2012	1030-1040	231	N/A	0.0MGL	6.5	0.92 NTU	AWWA BMP
VERVAIS / FLEMING	HYD	MARE ISLAND STRAIT	8/29/2012	1515-1530	336	N/A	0.0MGL	6.5	0.57 NTU	AWWA BMP
CLARK DR / ELNA	HYD	MARE ISLAND STRAIT	8/29/2012	1015-1035	235	N/A	0.0MGL	6.7	2.09 NTU	AWWA BMP
HENRY / FAIRFAX	HYD	MARE ISLAND STRAIT	8/29/2012	1125-1140	90	N/A	0.0MGL	6.5	1.02 NTU	AWWA BMP
132 ELNA DR	HYD	MARE ISLAND STRAIT	8/29/2012	1320-1335	90	N/A	0.0MGL	6.5	1.64 NTU	AWWA BMP
424-444 CLARK DR	HYD	MARE ISLAND STRAIT	8/29/2012	1450-1505	74	N/A	0.0MGL	6.5	1.23 NTU	AWWA BMP
SKYWAY/PALOMAR	HYD	MARE ISLAND STRAIT	8/30/2012	0900-0915	165	N/A	0.0MGL	6.5	.95NTU	AWWA BMP
132-134 SKYWAY	HYD	MARE ISLAND STRAIT	8/30/2012	1025-1040	112	N/A	0.0MGL	6.5	.83NTU	AWWA BMP
102-117 PALOMAR LN	HYD	MARE ISLAND STRAIT	8/30/2012	1230-1245	135	N/A	0.0MGL	6.5	.73NTU	AWWA BMP
115-128 WOODRIDGE PL	HYD	MARE ISLAND STRAIT	8/30/2012	1330-1345	187	N/A	0.0MGL	6.5	1.03NTU	AWWA BMP
OAKWOOD-BRIDGE CT	HYD	MARE ISLAND STRAIT	8/30/2012	1440-1505	127	N/A	0.0MGL	6.5	.87NTU	AWWA BMP
OAKWOOD-CURTIS DR	HYD	MARE ISLAND STRAIT	8/31/2012	1330-1340	281	N/A	0.0MGL	6.5	.57NTU	AWWA BMP
CURTIS / EVERGREEN	HYD	CARQUINEZ STRAIT	9/4/2012	0930-0950	135	N/A	0.0MGL	6.8	0.98 NTU	AWWA BMP
130-136 EVREGREEN	HYD	CARQUINEZ STRAIT	9/4/2012	1045-1115	359	N/A	0.0MGL	6.8	3.22 NTU	AWWA BMP
166-172 EVREGREEN	HYD	CARQUINEZ STRAIT	9/4/2012	1315-1345	284	N/A	0.0MGL	6.5	0.85 NTU	AWWA BMP
OAKWOOD / PARKHAVEN	HYD	CARQUINEZ STRAIT	9/4/2012	1530-1540	105	N/A	0.0MGL	6.5	0.96 NTU	AWWA BMP
PARKHAVEN DR / MASONIC	HYD	MARE ISLAND STRAIT	9/4/2012	0910-0930	299	N/A	0.0MGL	6.8	0.73 NTU	AWWA BMP
MASONIC DR / MONICA PL	HYD	MARE ISLAND STRAIT	9/4/2012	1050-1100	150	N/A	0.0MGL	6.8	0.66 NTU	AWWA BMP
MASONIC DR / TEMPLE WAY	HYD	MARE ISLAND STRAIT	9/4/2012	1245-1255	135	N/A	0.0MGL	6.8	0.44 NTU	AWWA BMP
120-126 PARKHAVEN DR	HYD	MARE ISLAND STRAIT	9/4/2012	1440-1445	82	N/A	0.0MGL	7.1	0.53 NTU	AWWA BMP
PARKHAVEN / GREGORY	HYD	MARE ISLAND STRAIT	9/4/2012	1540-1555	202	N/A	0.0MGL	6.8	0.24 NTU	AWWA BMP
PARKHAVEN DR / PARKHAVEN CT	HYD	MARE ISLAND STRAIT	9/5/2012	0910-0925	202	N/A	0.0MGL	6.8	0.76 NTU	AWWA BMP
58-70 PARKHAVEN DR	HYD	MARE ISLAND STRAIT	9/5/2012	1040-1100	306	N/A	0.0MGL	6.8	0.99 NTU	AWWA BMP
1384-1386 OAKWOOD AVE	HYD	MARE ISLAND STRAIT	9/5/2012	1250-1305	239	N/A	0.0MGL	6.8	1.98 NTU	AWWA BMP
WOODSON WAY / OAKWOOD AVE	HYD	MARE ISLAND STRAIT	9/5/2012	1440-1455	194	N/A	0.0MGL	6.8	0.41 NTU	AWWA BMP
MASONIC DR / JUSTIN CT	HYD	MARE ISLAND STRAIT	9/6/2012	1300-1310	187	N/A	0.0MGL	6.8	0.18 NTU	AWWA BMP
224-226 MASONIC DR	HYD	MARE ISLAND STRAIT	9/6/2012	1420-1435	247	N/A	0.0MGL	6.5	0.34 NTU	AWWA BMP
115-129 WOODRIDGE DR	HYD	MARE ISLAND STRAIT	9/6/2012	1510-1530	284	N/A	0.0MGL	6.8	0.38 NTU	AWWA BMP
LODI CT	B.O	MARE ISLAND STRAIT	9/6/2012	1345-1415	374	N/A	0.0MGL	6.7	0.91 NTU	AWWA BMP
PUMICE CT	B.O	MARE ISLAND STRAIT	9/6/2012	1515-1540	202	N/A	0.0MGL	6.5	.73 NTU	AWWA BMP

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ST MARYS PL	B.O	MARE ISLAND STRAIT	9/6/2012	1600-1630	239	N/A	0.0MGL	6.5	1.03 NTU	AWWA BMP
SERPENTINE CT	B.O	MARE ISLAND STRAIT	9/7/2012	0910-1020	741	N/A	0.0MGL	6.5	0.15 NTU	AWWA BMP
LORENE CT	B.O	MARE ISLAND STRAIT	9/7/2012	1050-1105	823	N/A	0.0MGL	6.8	0.47 NTU	AWWA BMP
DAVID CT	B.O	MARE ISLAND STRAIT	9/7/2012	1250-1320	719	N/A	0.0MGL	6.5	0.49 NTU	AWWA BMP
HAMILTON CT	B.O	MARE ISLAND STRAIT	9/7/2012	1425-1505	673	N/A	0.0MGL	6.5	0.44 NTU	AWWA BMP
GREGORY LN / TERRYBROOK	HYD	MARE ISLAND STRAIT	9/10/2012	0900-0930	224	N/A	0.0MGL	6.8	.97 NTU	AWWA BMP
TERRYBROOK PL / TERRYBROOK CT	HYD	MARE ISLAND STRAIT	9/10/2012	1030-1055	74	N/A	0.0MGL	6.8	1.6 NTU	AWWA BMP
WOODSON WY / WOODRIDGE	HYD	MARE ISLAND STRAIT	9/10/2012	1120-1145	90	N/A	0.0MGL	6.8	1.02 NTU	AWWA BMP
217-225 WOODRIDGE DR	HYD	MARE ISLAND STRAIT	9/10/2012	1420-1445	187	N/A	0.0MGL	6.5	1.17 NTU	AWWA BMP
255-261 WOODRIDGE	HYD	MARE ISLAND STRAIT	9/10/2012	1515-1545	150	N/A	0.0MGL	6.5	1.70 NTU	AWWA BMP
END OF ECHO SUMMITT	B.O	MARE ISLAND STRAIT	9/10/2012	0930-1030	830	N/A	0.0MGL	7.1	1.36 NTU	AWWA BMP
KENNISON CT	B.O	MARE ISLAND STRAIT	9/10/2012	1045-1115	800	N/A	0.0MGL	7.1	1.42 NTU	AWWA BMP
BOGGS CT	B.O	MARE ISLAND STRAIT	9/10/2012	1300-1430	770	N/A	0.0MGL	6.8	1.48 NTU	AWWA BMP
SHARI CT	B.O	MARE ISLAND STRAIT	9/10/2012	1450-1530	613	N/A	0.0MGL	7.1	1.46 NTU	AWWA BMP
WARD CT	B.O	MARE ISLAND STRAIT	9/10/2012	1545-1620	733	N/A	0.0MGL	7.1	0.44 NTU	AWWA BMP
KILTY CT	B.O	MARE ISLAND STRAIT	9/11/2012	0915-0950	434	N/A	0.0MGL	6.5	0.54 NTU	AWWA BMP
CLAXTON CT	B.O	MARE ISLAND STRAIT	9/11/2012	1300-1330	494	N/A	0.0MGL	6.8	0.23 NTU	AWWA BMP
LITCHFIELD CT	B.O	MARE ISLAND STRAIT	9/11/2012	1510-1530	456	N/A	0.0MGL	6.8	0.15 NTU	AWWA BMP
WOODSON WAY / WOODRIDGE	HYD	MARE ISLAND STRAIT	9/11/2012	0905-0930	224	N/A	0.0MGL	6.8	.72 NTU	AWWA BMP
236-242 WOODSON WAY	HYD	MARE ISLAND STRAIT	9/11/2012	1005-1030	74	N/A	0.0MGL	6.8	.42 NTU	AWWA BMP
213-219 WOODSON WAY	HYD	MARE ISLAND STRAIT	9/11/2012	1340-1405	149	N/A	0.0MGL	6.8	.81 NTU	AWWA BMP
WOODVALE CT / HALE ST	HYD	MARE ISLAND STRAIT	9/12/2012	0930-0950	150	N/A	0.0MGL	6.7	.63 NTU	AWWA BMP
156-175 WOODVALE CT	HYD	MARE ISLAND STRAIT	9/12/2012	1020-1045	74	N/A	0.0MGL	6.5	1.09 NTU	AWWA BMP
WODDVALE CT / SLYVIA	HYD	MARE ISLAND STRAIT	9/12/2012	1305-1320	74	N/A	0.0MGL	6.5	1.19 NTU	AWWA BMP
13198-1325 HALE ST	HYD	MARE ISLAND STRAIT	9/12/2012	1405-1425	150	N/A	0.0MGL	6.5	1.07 NTU	AWWA BMP
END OF JACK LONDON	B.O	MARE ISLAND STRAIT	9/12/2012	0900-0930	748	N/A	0.0MGL	6.8	0.31 NTU	AWWA BMP
RAWHIDE CT	B.O	MARE ISLAND STRAIT	9/12/2012	1050-1125	845	N/A	0.0MGL	6.8	0.57 NTU	AWWA BMP
MARTEL CT	B.O	MARE ISLAND STRAIT	9/12/2012	1300-1345	658	N/A	0.0MGL	6.8	1.09 NTU	AWWA BMP
DUTCH FLAT CT	B.O	MARE ISLAND STRAIT	9/12/2012	1430-1515	868	N/A	0.0MGL	6.8	2.03NTU	AWWA BMP
END OF MINI DR	B.O	MARE ISLAND STRAIT	9/12/2012	1530-1625	1032	N/A	0.0MGL	6.8	0.77 NTU	AWWA BMP
401 CLARK/VERVAIS	HYD	MARE ISLAND STRAIT	9/13/2012	0830-0845	209	N/A	0.0MGL	6.5	1.31 NTU	AWWA BMP
160-148 DELGADO CT	HYD	MARE ISLAND STRAIT	9/13/2012	1015-1030	216	N/A	0.0MGL	6.5	0.83 NTU	AWWA BMP
DRYTOWN CT	B.O	MARE ISLAND STRAIT	9/13/2012	1530-1610	950	N/A	0.0MGL	6.8	1.58 NTU	AWWA BMP
1356-1368 HALE ST	HYD	MARE ISLAND STRAIT	9/17/2012	0915-0933	74	N/A	0.0MGL	6.5	.047 NTU	AWWA BMP
1221-1217 HALE ST	HYD	MARE ISLAND STRAIT	9/17/2012	1015-1040	150	N/A	0.0MGL	6.5	.63 NTU	AWWA BMP
FRANKLIN / HALE ST	HYD	MARE ISLAND STRAIT	9/17/2012	1110-1130	74	N/A	0.0MGL	6.5	.97 NTU	AWWA BMP
FRANKLIN / HALE ST	HYD	MARE ISLAND STRAIT	9/17/2012	1305-1325	74	N/A	0.0MGL	6.5	.67 NTU	AWWA BMP
MAPLE ST HENRY ST	HYD	MARE ISLAND STRAIT	9/17/2012	1415-1435	74	N/A	0.0MGL	6.5	.82 NTU	AWWA BMP
PIONER CT	B.O	MARE ISLAND STRAIT	9/17/2012	0930-1030	1055	N/A	0.0MGL	6.8	0.29 NTU	AWWA BMP
FIDDLETOWN CT	B.O	MARE ISLAND STRAIT	9/17/2012	1030-1120	793	N/A	0.0MGL	6.8	1.57 NTU	AWWA BMP
VOLCANO CT	B.O	MARE ISLAND STRAIT	9/17/2012	1230-1345	755	N/A	0.0MGL	6.8	0.31 NTU	AWWA BMP
PILOT HILL CT	B.O	MARE ISLAND STRAIT	9/17/2012	1400-1510	845	N/A	0.0MGL	6.8	0.86 NTU	AWWA BMP
DIAMOND SPRINGS CT	B.O	MARE ISLAND STRAIT	9/17/2012	1545-1620	808	N/A	0.0MGL	6.8	1.37 NTU	AWWA BMP
MURPHY CT	B.O	MARE ISLAND STRAIT	9/18/2012	0900-1000	1300	N/A	0.0MGL	6.5	.69 NTU	AWWA BMP
GEORGETOWN CT	B.O	MARE ISLAND STRAIT	9/18/2012	1015-1100	474	N/A	0.0MGL	6.5	.44 NTU	AWWA BMP
OLD RIVER CT	B.O	MARE ISLAND STRAIT	9/18/2012	1250-1330	414	N/A	0.0MGL	6.5	0.96 NTU	AWWA BMP
AUBURN CT	B.O	MARE ISLAND STRAIT	9/19/2012	1015-1115	980	N/A	0.0MGL	6.5	0.57 NTU	AWWA BMP
DOLPHIN CT	B.O	MARE ISLAND STRAIT	9/19/2012	1245-1350	838	N/A	0.0MGL	6.5	1.08 NTU	AWWA BMP
BELVEDERE CT	B.O	MARE ISLAND STRAIT	9/19/2012	1430-1500	860	N/A	0.0MGL	6.5	1.99 NTU	AWWA BMP
TEAL CT	B.O	MARE ISLAND STRAIT	9/20/2012	1045-1100	853	N/A	0.0MGL	6.5	1.78 NTU	AWWA BMP
1233 MAPLE	HYD	MARE ISLAND STRAIT	9/20/2012	1250-1300	75	N/A	0.0MGL	6.5	0.76 NTU	AWWA BMP
191 WOODSON WAY	HYD	MARE ISLAND STRAIT	9/20/2012	1430-1445	75	N/A	0.0MGL	6.7	1.16 NTU	AWWA BMP
LOCUST DR COPPOCK	HYD	MARE ISLAND STRAIT	9/24/2012	0900-0915	97	N/A	0.0MGL	6.8	1.59 NTU	AWWA BMP
LOCUST DR PRESTWICK CT	HYD	MARE ISLAND STRAIT	9/24/2012	1045-1100	37	N/A	0.0MGL	6.5	0.59 NTU	AWWA BMP
137 PRESTWICK CT	HYD	MARE ISLAND STRAIT	9/24/2012	1230-1245	97	N/A	0.0MGL	6.8	1.54 NTU	AWWA BMP
197 PRESTWICK CT	HYD	MARE ISLAND STRAIT	9/24/2012	1400-1420	217	N/A	0.0MGL	6.8	0.93 NTU	AWWA BMP
1621 OAKWOOD	HYD	LAKE CHABOLT	9/24/2012	0930-0940	231	N/A	0.0MGL	6.5	0.51 NTU	AWWA BMP
200 S/O MATHEW CT	HYD	LAKE CHABOLT	9/24/2012	1100-1115	516	N/A	0.0MGL	6.5	0.60 NTU	AWWA BMP
925 LOCUST DR/ HEATHER DR	HYD	LAKE CHABOLT	9/24/2012	1300-1320	433	N/A	0.0MGL	6.5	1.20 NTU	AWWA BMP
219-225 COVENTRY WAY	HYD	LAKE CHABOLT	9/24/2012	1430-1500	620	N/A	0.0MGL	6.5	1.50 NTU	AWWA BMP
LOCUST / ASCOT PKWY	HYD	LAKE CHABOLT	9/24/2012	1600-1620	261	N/A	0.0MGL	6.5	1.00 NTU	AWWA BMP
167-173 SUNRISE WAY	HYD	LAKE CHABOLT	9/25/2012	0835-0850	248	N/A	0.0MGL	6.5	0.43 NTU	AWWA BMP
137-131 SUNRISE WAY	HYD	LAKE CHABOLT	9/25/2012	1005-1025	314	N/A	0.0MGL	6.5	0.84 NTU	AWWA BMP
136-160 HILLTOP	HYD	LAKE CHABOLT	9/25/2012	1235-1250	321	N/A	0.0MGL	6.5	1.41 NTU	AWWA BMP

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119-137 TONI CT	HYD	LAKE CHABOLT	9/25/2012	1406-1430	194	N/A	0.0MGL	6.5	1.25 NTU	AWWA BMP
TEMPLE WAY / HILLTOP DR	HYD	MARE ISLAND STRAIT	9/25/2012	0920-0925	75	N/A	0.0MGL	6.5	0.89 NTU	AWWA BMP
541-549 TEMPLE WAY	HYD	MARE ISLAND STRAIT	9/25/2012	1045-1100	247	N/A	0.0MGL	6.5	0.53 NTU	AWWA BMP
LOCUST DR / TEMPLE WAY	HYD	MARE ISLAND STRAIT	9/25/2012	1240-1245	75	N/A	0.0MGL	6.5	1.50 NTU	AWWA BMP
LOCUST DR / KEN CT	HYD	MARE ISLAND STRAIT	9/25/2012	1430-1440	135	N/A	0.0MGL	6.5	1.50 NTU	AWWA BMP
LOCUST DR / SUNRISE WAY	HYD	MARE ISLAND STRAIT	9/25/2012	1530-1535	83	N/A	0.0MGL	6.5	1.38 NTU	AWWA BMP
193 SUNRISE WAY / HILLTOP	HYD	MARE ISLAND STRAIT	9/26/2012	1600-1620	179	N/A	0.0MGL	6.5	0.86 NTU	AWWA BMP
LOCUST DR 50' N OF INTRESECT.	HYD	MARE ISLAND STRAIT	9/26/2012	0920-0925	52	N/A	0.0MGL	6.5	0.89 NTU	AWWA BMP
ALPINE CT END OF	HYD	MARE ISLAND STRAIT	9/26/2012	1050-1100	67	N/A	0.0MGL	6.5	0.74 NTU	AWWA BMP
EVERGREEN WAY / MASONIC DR	HYD	MARE ISLAND STRAIT	9/26/2012	1245-1255	75	N/A	0.0MGL	6.5	1.12 NTU	AWWA BMP
218-224 TEMPLE WAY	HYD	MARE ISLAND STRAIT	9/26/2012	1415-1420	52	N/A	0.0MGL	6.5	0.77 NTU	AWWA BMP
TERRYBROOK LN / TEMPLE WAY	HYD	MARE ISLAND STRAIT	9/26/2012	1540-1600	150	N/A	0.0MGL	6.5	1.30NTU	AWWA BMP
105 GREGORY LN	HYD	MARE ISLAND STRAIT	9/27/2012	1000-1025	75	N/A	0.0MGL	6.8	0.99 NTU	AWWA BMP
141 GREGORY LN	HYD	MARE ISLAND STRAIT	9/27/2012	12.30-12.45	75	N/A	0.0MGL	6.8	0.49 NTU	AWWA BMP
159 GREGORY LN	HYD	MARE ISLAND STRAIT	9/27/2012	1400-1415	261	N/A	0.0MGL	6.8	0.99 NTU	AWWA BMP
397 TEMPLE WAY	HYD	MARE ISLAND STRAIT	9/27/2012	1530-1545	82	N/A	0.0MGL	6.8	1.69 NTU	AWWA BMP
131 RON CT	HYD	MARE ISLAND STRAIT	9/27/2012	1010-1025	201	N/A	0.0MGL	6.5	1.57 NTU	AWWA BMP
RON CT/KEN CT	HYD	MARE ISLAND STRAIT	9/27/2012	1050-1115	538	N/A	0.0MGL	6.5	0.54 NTU	AWWA BMP
366-372 LOCUST DR	HYD	MARE ISLAND STRAIT	9/27/2012	1300-1310	104	N/A	0.0MGL	6.5	0.50 NTU	AWWA BMP
419-455 TEMPLE WAY	HYD	MARE ISLAND STRAIT	10/1/2012	0915-0935	82	N/A	0.0MGL	6.5	0.79 NTU	AWWA BMP
350 LOCUST DR	HYD	MARE ISLAND STRAIT	10/1/2012	1020-1035	90	N/A	0.0MGL	6.5	0.27 NTU	AWWA BMP
359 LOCUST DR	HYD	MARE ISLAND STRAIT	10/1/2012	1110-1125	75	N/A	0.0MGL	6.5	0.15 NTU	AWWA BMP
143-138 TERRYBROOKE CT	HYD	MARE ISLAND STRAIT	10/1/2012	1335-1340	75	N/A	0.0MGL	6.5	0.32 NTU	AWWA BMP
350 LOCUST DR	HYD	MARE ISLAND STRAIT	10/1/2012	0915-0930	292	N/A	0.0MGL	6.5	0.65 NTU	AWWA BMP
350 LOCUST DR /610' UP DRIVE	HYD	MARE ISLAND STRAIT	10/1/2012	1040-1055	224	N/A	0.0MGL	6.5	1.28 NTU	AWWA BMP
350 LOCUST DR /897' UP DRIVE	HYD	MARE ISLAND STRAIT	10/1/2012	1250-1300	135	N/A	0.0MGL	6.5	1.71 NTU	AWWA BMP
350 LOCUST DR /1432' UP DRIVE	HYD	MARE ISLAND STRAIT	10/1/2012	1330-1415	180	N/A	0.0MGL	6.5	1.61 NTU	AWWA BMP
ASCOTPKWY/COLUMBUS PKWY	HYD	MARE ISLAND STRAIT	10/2/2012	0910-0925	75	N/A	0.0MGL	6.8	0.99 NTU	AWWA BMP
1215 LOCUST DR	HYD	MARE ISLAND STRAIT	10/2/2012	1005-1020	120	N/A	0.0MGL	6.8	0.99 NTU	AWWA BMP
100-106 LYTHAM WAY	HYD	MARE ISLAND STRAIT	10/2/2012	1130-1200	75	N/A	0.0MGL	6.8	0.87 NTU	AWWA BMP
119-125 ROYAL CT	HYD	MARE ISLAND STRAIT	10/2/2012	0920-0935	224	N/A	0.0MGL	6.5	1.77 NTU	AWWA BMP
154-155 ROYAL CT	HYD	MARE ISLAND STRAIT	10/2/2012	1045-1055	105	N/A	0.0MGL	6.5	1.17 NTU	AWWA BMP
LOCUST DR/ BIRKDALE CT	HYD	MARE ISLAND STRAIT	10/2/2012	1530-1540	75	N/A	0.0MGL	6.5	1.18 NTU	AWWA BMP
563-569 BIRKDALE DR	HYD	MARE ISLAND STRAIT	10/3/2012	0900-0935	90	N/A	0.0MGL	6.8	0.30 NTU	AWWA BMP
539 BIRKDALE DR	HYD	MARE ISLAND STRAIT	10/3/2012	1040-1100	75	N/A	0.0MGL	6.8	1.39 NTU	AWWA BMP
100 BIRKDALE CT	HYD	MARE ISLAND STRAIT	10/3/2012	1140-1200	142	N/A	0.0MGL	6.8	1.07 NTU	AWWA BMP
100-10- PIERRE CT	HYD	MARE ISLAND STRAIT	10/3/2012	1340-1415	180	N/A	0.0MGL	6.8	0.24 NTU	AWWA BMP
BIRKDALE/ASCOT PKWY	HYD	MARE ISLAND STRAIT	10/3/2012	1440-1455	74	N/A	0.0MGL	6.8	0.52 NTU	AWWA BMP
ASCOT PKWY/COLUMBUS PKWY	HYD	MARE ISLAND STRAIT	10/3/2012	0910-0920	82	N/A	0.0MGL	6.5	0.59 NTU	AWWA BMP
COLUMBUS PKWY	HYD	MARE ISLAND STRAIT	10/3/2012	1120-1130	90	N/A	0.0MGL	6.5	0.80 NTU	AWWA BMP
LAKE HERMAN RD/COLUMBUS PKWY	HYD	MARE ISLAND STRAIT	10/3/2012	1340-1350	97	N/A	0.0MGL	6.5	0.96 NTU	AWWA BMP
HILARY WAY/KNIGHTS CIR	HYD	MARE ISLAND STRAIT	10/3/2012	1510-1520	112	N/A	0.0MGL	6.5	1.72 NTU	AWWA BMP
AZALEA CT	B.O.	MARE ISLAND STRAIT	10/4/2012	1120-1150	479	N/A	0.0MGL	6.8	0.18 NTU	AWWA BMP
YUKON CT	B.O.	MARE ISLAND STRAIT	10/4/2012	1240-1300	426	N/A	0.0MGL	6.8	0.84 NTU	AWWA BMP
LAINEY CT	B.O.	MARE ISLAND STRAIT	10/4/2012	1410-1440	501	N/A	0.0MGL	6.8	0.52 NTU	AWWA BMP
ERICKA CT/ANDREA WAY	HYD	MARE ISLAND STRAIT	10/4/2012	1100-1115	75	N/A	0.0MGL	6.8	0.60 NTU	AWWA BMP
1221-1223 ANDREA WAY	HYD	MARE ISLAND STRAIT	10/4/2012	1320-1345	150	N/A	0.0MGL	6.8	0.25 NTU	AWWA BMP
1237-1239 ANDREA WAY	HYD	MARE ISLAND STRAIT	10/4/2012	1410-1425	150	N/A	0.0MGL	6.8	0.75 NTU	AWWA BMP
BETTY CT	B.O.	MARE ISLAND STRAIT	10/9/2012	0910-0935	524	N/A	0.0MGL	6.5	0.76 NTU	AWWA BMP
TERRI CT	B.O.	MARE ISLAND STRAIT	10/9/2012	1030-1120	1,287	N/A	0.0MGL	6.5	0.43 NTU	AWWA BMP
SUSUN CT	B.O.	MARE ISLAND STRAIT	10/9/2012	1250-1330	673	N/A	0.0MGL	6.5	0.47 NTU	AWWA BMP
RALSTON CT	B.O.	MARE ISLAND STRAIT	10/9/2012	1440-1520	741	N/A	0.0MGL	6.5	0.55 NTU	AWWA BMP
BLUE ROCK VILLAGE/1900 ASCOT	HYD	LAKE CHABOLT	10/9/2012	0835-0850	89	N/A	0.0MGL	6.5	0.41 NTU	AWWA BMP
BLUE ROCK VILLAGE/1900 ASCOT	HYD	LAKE CHABOLT	10/9/2012	1005-1030	59	N/A	0.0MGL	6.5	0.85 NTU	AWWA BMP
BLUE ROCK VILLAGE/1900 ASCOT	HYD	LAKE CHABOLT	10/9/2012	1235-1245	97	N/A	0.0MGL	6.5	0.65 NTU	AWWA BMP
ANDREA/RACHEL WAY	HYD	LAKE CHABOLT	10/9/2012	0845-0910	90	N/A	0.0MGL	6.8	0.45 NTU	AWWA BMP
TRACY CT	HYD	LAKE CHABOLT	10/9/2012	1050-1110	83	N/A	0.0MGL	6.8	0.32 NTU	AWWA BMP
1900 ASCOT PKWY BLDG 3	HYD	LAKE CHABOLT	10/9/2012	1335-1355	112	N/A	0.0MGL	6.8	0.58 NTU	AWWA BMP
1900 ASCOT PKWY BLDG 8	HYD	LAKE CHABOLT	10/9/2012	1425-1435	75	N/A	0.0MGL	6.8	0.48 NTU	AWWA BMP
CATALINA CT	B.O.	MARE ISLAND STRAIT	10/10/2012	0920-0950	719	N/A	0.0MGL	6.5	0.44 NTU	AWWA BMP
DIXIE CT	B.O.	MARE ISLAND STRAIT	10/10/2012	1040-1105	741	N/A	0.0MGL	6.5	0.42 NTU	AWWA BMP
FLINT CT	B.O.	MARE ISLAND STRAIT	10/10/2012	1240-1310	696	N/A	0.0MGL	6.5	0.55 NTU	AWWA BMP
CRYSTAL CT	B.O.	MARE ISLAND STRAIT	10/10/2012	1425-1455	785	N/A	0.0MGL	6.5	0.69 NTU	AWWA BMP
OBSIDIAN CT	B.O.	MARE ISLAND STRAIT	10/10/2012	1550-1620	741	N/A	0.0MGL	6.5	0.35 NTU	AWWA BMP

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HARBOR WAY DOCK F/E	HYD	MARE ISLAND STRAIT	10/10/2012	083-0845	59	N/A	0.0MGL	6.5	0.83 NTU	AWWA BMP
HARBOR WAY DOCK J	HYD	MARE ISLAND STRAIT	10/10/2012	1005-1020	119	N/A	0.0MGL	6.5	0.65 NTU	AWWA BMP
HARBOR WAY DOCK K	HYD	MARE ISLAND STRAIT	10/10/2012	1235-1245	157	N/A	0.0MGL	6.5	0.78 NTU	AWWA BMP
300 HILARY WAY BTW 15/83	HYD	MARE ISLAND STRAIT	10/10/2012	1405-1420	231	N/A	0.0MGL	6.5	0.57 NTU	AWWA BMP
HARBOR WAY PARKING LOT	HYD	MARE ISLAND STRAIT	10/10/2012	1535-1540	75	N/A	0.0MGL	6.5	0.92 NTU	AWWA BMP
300 HILARY WAY BTW 59/67	HYD	MARE ISLAND STRAIT	10/11/12	0910-0925	142	N/A	0.0MGL	6.8	0.27 NTU	AWWA BMP
HILARY WAY/COLUMBUS PKWY	HYD	MARE ISLAND STRAIT	10/11/12	0950-1005	127	N/A	0.0MGL	6.8	0.18 NTU	AWWA BMP
ASCOT/COLUMBUS PKWY	HYD	MARE ISLAND STRAIT	10/11/12	1020-1035	112	N/A	0.0MGL	6.8	1.00 NTU	AWWA BMP
MARE ISLAND WY 275'S/W HARBOR	HYD	MARE ISLAND STRAIT	10/11/12	1500-1520	179	N/A	0.0MGL	6.8	0.74 NTU	AWWA BMP
PACIFIC CT	B.O.	LAKE CHABOLT	10/11/12	0920-0950	726	N/A	0.0MGL	6.8	0.27 NTU	AWWA BMP
ZIRCON CT	B.O.	LAKE CHABOLT	10/11/12	1040-1110	741	N/A	0.0MGL	7.1	1.29 NTU	AWWA BMP
MENLO CT	B.O.	LAKE CHABOLT	10/11/12	1245-1310	561	N/A	0.0MGL	6.8	0.76 NTU	AWWA BMP
SHAMROCK CT	B.O.	LAKE CHABOLT	10/11/12	1320-1350	606	N/A	0.0MGL	6.8	0.31 NTU	AWWA BMP
NOTRE DAME CT	B.O.	LAKE CHABOLT	10/11/12	1440-1510	711	N/A	0.0MGL	6.8	0.59 NTU	AWWA BMP
NOTRE DAME DR	B.O.	LAKE CHABOLT	10/12/2012	1020-1050	299	N/A	0.0MGL	6.8	0.63 NTU	AWWA BMP
ERIN DR	HYD	LAKE CHABOLT	10/12/2012	1320-1345	494	N/A	0.0MGL	6.8	0.40 NTU	AWWA BMP
E OHIO ST/MARE ISLAND WAY	HYD	MARE ISLAND STRAIT	10/15/2012	0835-0845	336	N/A	0.0MGL	6.5	1.65 NTU	AWWA BMP
MARE ISLAND WY/KENTUCKY	HYD	MARE ISLAND STRAIT	10/15/2012	1005-1025	314	N/A	0.0MGL	6.5	0.57 NTU	AWWA BMP
MARE ISLAND WY/FLORIDA	HYD	MARE ISLAND STRAIT	10/15/2012	1236-1245	201	N/A	0.0MGL	6.5	0.89 NTU	AWWA BMP
FLORIDA TRINITY	HYD	MARE ISLAND STRAIT	10/15/2012	1408-1430	246	N/A	0.0MGL	6.5	0.85 NTU	AWWA BMP
ALABAMA/MARE ISLAND WY	HYD	MARE ISLAND STRAIT	10/15/2012	1535-1545	411	N/A	0.0MGL	6.5	1.47 NTU	AWWA BMP
JACK LONDON END SOUTH	B.O.	MARE ISLAND STRAIT	10/15/2012	0915-0940	598	N/A	0.0MGL	6.5	0.66 NTU	AWWA BMP
DONEGAL DR	B.O.	MARE ISLAND STRAIT	10/15/2012	1040-1115	778	N/A	0.0MGL	6.5	0.35 NTU	AWWA BMP
DUBLI N DR	B.O.	MARE ISLAND STRAIT	10/15/2012	1240-1305	696	N/A	0.0MGL	6.5	0.57 NTU	AWWA BMP
SANDSTONE DR	B.O.	MARE ISLAND STRAIT	10/15/2012	1410-1435	733	N/A	0.0MGL	6.5	0.79 NTU	AWWA BMP
BEDROCK CT	B.O.	MARE ISLAND STRAIT	10/15/2012	1520-1550	860	N/A	0.0MGL	6.5	0.49 NTU	AWWA BMP
REDWOOD BTWN/TULOU MNE	HYD	MARE ISLAND STRAIT	10/16/2012	1135-1155	366	N/A	0.0MGL	6.8	3.20 NTU	AWWA BMP
HARBOR WAY DOCK 1	HYD	MARE ISLAND STRAIT	10/16/2012	0935-0945	254	N/A	0.0MGL	6.5	0.42 NTU	AWWA BMP
ALABAMA/MARE ISLAND WY	HYD	MARE ISLAND STRAIT	10/16/2012	1236-1245	366	N/A	0.0MGL	6.5	0.68 N	AWWA BMP
TRINITY/LOUISANA	HYD	MARE ISLAND STRAIT	10/16/2012	1405-1420	239	N/A	0.0MGL	6.5	0.73 NTU	AWWA BMP
LOUISANA/BUTTE	HYD	MARE ISLAND STRAIT	10/16/2012	1535-1540	194	N/A	0.0MGL	6.5	2.88 NTU	AWWA BMP
ROCKRIVER CT	B.O.	LAKE CHABOLT	10/16/2012	1045-1110	554	N/A	0.0MGL	6.5	0.55 NTU	AWWA BMP
EMILY CT	B.O.	LAKE CHABOLT	10/16/2012	1240-1310	628	N/A	0.0MGL	6.5	0.77 NTU	AWWA BMP
TELLERDAY CT	B.O.	LAKE CHABOLT	10/16/2012	1410-1440	741	N/A	0.0MGL	6.5	0.39 NTU	AWWA BMP
PAMELA CT	B.O.	LAKE CHABOLT	10/16/2012	1545-1620	756	N/A	0.0MGL	6.5	0.99 NTU	AWWA BMP
LILEAN CT	B.O.	LAKE CHABOLT	10/17/2012	1530-1550	539	N/A	0.0MGL	6.5	0.24 NTU	AWWA BMP
ALABAMA/BUTTE	HYD	MARE ISLAND STRAIT	10/18/2012	0837-0850	329	N/A	0.0MGL	6.5	1.45 NTU	AWWA BMP
BRANCIFORTE/TENNESSEE	HYD	MARE ISLAND STRAIT	10/18/2012	1005-1022	359	N/A	0.0MGL	6.5	1.97 NTU	AWWA BMP
SANTA CLARA/TENNESSEE	HYD	MARE ISLAND STRAIT	10/18/2012	1235-1245	359	N/A	0.0MGL	6.5	1.47 NTU	AWWA BMP
TENNESSEE/SACRAMENTO	HYD	MARE ISLAND STRAIT	10/18/2012	1315-1330	112	N/A	0.0MGL	6.5	0.84 NTU	AWWA BMP
TENNESSEE/MARIN	HYD	MARE ISLAND STRAIT	10/18/2012	1340-1410	150	N/A	0.0MGL	6.5	0.87 NTU	AWWA BMP
ASCOT PKWY/LOCUST/HAWKSBURY	HYD	MARE ISLAND STRAIT	10/18/2012	1515-1525	306	N/A	0.0MGL	6.8	1.0 NTU	AWWA BMP
HANNIGAN WAY	B.O.	LAKE CHABOLT	10/18/2012	0920-0945	636	N/A	0.0MGL	6.5	0.79 NTU	AWWA BMP
KENYON WAY	B.O.	LAKE CHABOLT	10/18/2012	1045-1105	591	N/A	0.0MGL	6.5	0.48 NTU	AWWA BMP
JUDY CT	B.O.	LAKE CHABOLT	10/18/2012	1310-1330	554	N/A	0.0MGL	6.5	0.11 NTU	AWWA BMP
GINA CT	B.O.	LAKE CHABOLT	10/18/2012	1530-1555	591	N/A	0.0MGL	6.5	0.15 NTU	AWWA BMP
FLEMING/VIEWMONT	HYD	MARE ISLAND STRAIT	10/22/2012	0830-0850	276	N/A	0.0MGL	6.5	0.84 NTU	AWWA BMP
ALABAMA/SUTTER	HYD	MARE ISLAND STRAIT	10/22/2012	1020-1035	388	N/A	0.0MGL	6.5	0.76 NTU	AWWA BMP
SONOMA/ALABAMA	HYD	MARE ISLAND STRAIT	10/22/2012	1120-1130	396	N/A	0.0MGL	6.5	0.54 NTU	AWWA BMP
MARIN/ALABAMA	HYD	MARE ISLAND STRAIT	10/22/2012	1315-1325	284	N/A	0.0MGL	6.5	0.34 NTU	AWWA BMP
SACRAMENTO/ALABAMA	HYD	MARE ISLAND STRAIT	10/22/2012	1500-1545	792	N/A	0.0MGL	6.5	0.58 NTU	AWWA BMP
KENTUCKY/BUTTE	HYD	MARE ISLAND STRAIT	10/22/2012	0835-0850	119	N/A	0.0MGL	6.5	0.85 NTU	AWWA BMP
BUTTE/OHIO	HYD	MARE ISLAND STRAIT	10/22/2012	1005-1025	374	N/A	0.0MGL	6.5	1.57 NTU	AWWA BMP
OHIO/TRINITY	HYD	MARE ISLAND STRAIT	10/22/2012	1236-1250	142	N/A	0.0MGL	6.5	1.27 NTU	AWWA BMP
KENTUCKY/TRINITY	HYD	MARE ISLAND STRAIT	10/22/2012	1407-1420	172	N/A	0.0MGL	6.5	0.93 NTU	AWWA BMP
FLORIDA/BUTTE	HYD	MARE ISLAND STRAIT	10/22/2012	1535-1545	104	N/A	0.0MGL	6.5	0.45 NTU	AWWA BMP
MARIN ST /LOUISANA ST	HYD	MARE ISLAND STRAIT	10/23/2012	0854-0955	426	N/A	0.0MGL	6.5	0.47 NTU	AWWA BMP
SUTTER ST/LOUISANA ST	HYD	MARE ISLAND STRAIT	10/23/2012	1030-1040	307	N/A	0.0MGL	6.5	0.73 NTU	AWWA BMP
OHIO ST/SONOMA BLVD	HYD	MARE ISLAND STRAIT	10/23/2012	1350-1400	187	N/A	0.0MGL	6.5	1.02 NTU	AWWA BMP
SUTTER ST/OHIO ST	HYD	MARE ISLAND STRAIT	10/23/2012	1430-1445	322	N/A	0.0MGL	6.5	0.86 NTU	AWWA BMP
MARIN ST/OHIO ST	HYD	MARE ISLAND STRAIT	10/23/2012	1505-1525	281	N/A	0.0MGL	6.5	1.50 NTU	AWWA BMP
SACRAMENTO AT/OHIO ST	HYD	MARE ISLAND STRAIT	10/23/2012	1550-1600	337	N/A	0.0MGL	6.5	1.10 NTU	AWWA BMP
ALABAMA ST/SANTA CLARA	HYD	MARE ISLAND STRAIT	10/23/2012	0836-0845	127	N/A	0.0MGL	6.5	0.67 NTU	AWWA BMP
ALABAMA ST/BRANCIFORTE	HYD	MARE ISLAND STRAIT	10/23/2012	1005-1020	89	N/A	0.0MGL	6.5	0.85 NTU	AWWA BMP

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LOUISIANA/BRANCIFORTE	HYD	MARE ISLAND STRAIT	10/23/2012	1238-1250	119	N/A	0.0MGL	6.5	1.02 NTU	AWWA BMP
LOUISIANA/SACRAMENTO	HYD	MARE ISLAND STRAIT	10/23/2012	1404-1420	231	N/A	0.0MGL	6.5	0.96 NTU	AWWA BMP
KENTUCKY/SACRAMENTO	HYD	MARE ISLAND STRAIT	10/24/2012	0910-0925	419	N/A	0.0MGL	6.5	0.29 NTU	AWWA BMP
KENTUCKY/MARIN ST	HYD	MARE ISLAND STRAIT	10/24/2012	100-1010	202	N/A	0.0MGL	6.5	1.71 NTU	AWWA BMP
KENTUCKY/SONOMA BLVD	HYD	MARE ISLAND STRAIT	10/24/2012	1345-1400	262	N/A	0.0MGL	6.5	1.60 NTU	AWWA BMP
SUTTER/KENTUCKY	HYD	MARE ISLAND STRAIT	10/24/2012	1435-1450	367	N/A	0.0MGL	6.5	0.89 NTU	AWWA BMP
SANTA CLARA/LOUISIANA	HYD	MARE ISLAND STRAIT	10/24/2012	0836-0840	194	N/A	0.0MGL	6.5	0.97 NTU	AWWA BMP
SANTA CLARA/OHIO ST	HYD	MARE ISLAND STRAIT	10/24/2012	1005-1020	104	N/A	0.0MGL	6.5	0.40 NTU	AWWA BMP
BRANCIFORTE/OHIO ST	HYD	MARE ISLAND STRAIT	10/24/2012	1231-1220	82	N/A	0.0MGL	6.5	0.38 NTU	AWWA BMP
KENTUCKY/BRANCIFORTE	HYD	MARE ISLAND STRAIT	10/24/2012	1406-1420	97	N/A	0.0MGL	6.5	0.71 NTU	AWWA BMP
SANTA CLARA/KENTUCKY	HYD	MARE ISLAND STRAIT	10/24/2012	1535-1540	127	N/A	0.0MGL	6.5	0.77 NTU	AWWA BMP
FLORIDA/SACRAMENTO	HYD	MARE ISLAND STRAIT	10/25/2012	1600-1610	232	N/A	0.0MGL	6.5	0.58 NTU	AWWA BMP
FLORIDA/MARIN ST	HYD	MARE ISLAND STRAIT	10/25/2012	1230-1240	164	N/A	0.0MGL	6.5	0.52 NTU	AWWA BMP
FLORIDA/SONOMA BLVD	HYD	MARE ISLAND STRAIT	10/25/2012	1407-1420	149	N/A	0.0MGL	6.5	0.87 NTU	AWWA BMP
FLORIDA/SUTTER ST	HYD	MARE ISLAND STRAIT	10/25/2012	1530-1540	112	N/A	0.0MGL	6.5	0.48 NTU	AWWA BMP
SANTA CLARA/FLORIDA	HYD	MARE ISLAND STRAIT	10/26/2012	1105-1120	337	N/A	0.0MGL	6.5	0.75 NTU	AWWA BMP
FLORIDA/BRANCIFORTE	HYD	MARE ISLAND STRAIT	10/26/2012	1400-1410	299	N/A	0.0MGL	6.5	0.68 NTU	AWWA BMP
TENNESSEE/NAPA ST	HYD	MARE ISLAND STRAIT	10/26/2012	1435-1450	352	N/A	0.0MGL	6.5	1.32 NTU	AWWA BMP
TENNESSEE/BROADWAY	HYD	MARE ISLAND STRAIT	10/29/2012	1030-1045	344	N/A	0.0MGL	6.5	0.44 NTU	AWWA BMP
919-923 TENNESSEE	HYD	MARE ISLAND STRAIT	10/29/2012	1335-1340	254	N/A	0.0MGL	6.5	1.87 NTU	AWWA BMP
SONOMA/TENNESSEE	HYD	MARE ISLAND STRAIT	10/29/2012	0930-0945	134	N/A	0.0MGL	6.5	0.92 NTU	AWWA BMP
TENNESSEE/BROADWAY	HYD	MARE ISLAND STRAIT	10/30/2012	0845-0900	201	N/A	0.0MGL	6.5	0.92 NTU	AWWA BMP
TENNESSEE/GLENN ST	HYD	MARE ISLAND STRAIT	10/30/2012	1045-1100	172	N/A	0.0MGL	6.5	0.97 NTU	AWWA BMP
COLUSA ST/ALABAMA ST	HYD	MARE ISLAND STRAIT	10/30/2012	1300-1315	172	N/A	0.0MGL	6.5	0.93 NTU	AWWA BMP
TENNESSEE/ALAMEDA	HYD	MARE ISLAND STRAIT	10/30/2012	0835-0850	261	N/A	0.0MGL	6.5	0.78 NTU	AWWA BMP
TENNESSEE/MONTEREY	HYD	MARE ISLAND STRAIT	10/30/2012	1005-1030	291	N/A	0.0MGL	6.5	1.18 NTU	AWWA BMP
TENNESSEE/EL DORADO	HYD	MARE ISLAND STRAIT	10/30/2012	1238-1255	246	N/A	0.0MGL	6.5	1.58 NTU	AWWA BMP
TENNESSEE/COLUSA	HYD	MARE ISLAND STRAIT	10/30/2012	1405-1435	172	N/A	0.0MGL	6.5	1.82 NTU	AWWA BMP
1053 ALABAMA ST	HYD	MARE ISLAND STRAIT	10/31/2012	0915-0940	254	N/A	0.0MGL	6.5	1.30 NTU	AWWA BMP
1027 ALABAMA ST	HYD	MARE ISLAND STRAIT	10/31/2012	1030-1040	75	N/A	0.0MGL	6.5	1.94 NTU	AWWA BMP
ALABAMA ST/BROADWAY	HYD	MARE ISLAND STRAIT	10/31/2012	1105-1130	224	N/A	0.0MGL	6.5	1.0 NTU	AWWA BMP
ALABAMA ST/ EL DORADO	HYD	MARE ISLAND STRAIT	10/31/2012	1340-1350	150	N/A	0.0MGL	6.5	0.98 NTU	AWWA BMP
ALABAMA ST/NAPA ST	HYD	MARE ISLAND STRAIT	10/31/2012	1415-1425	120	N/A	0.0MGL	6.5	1.46 NTU	AWWA BMP
NAPA ST/LOUISIANA ST	HYD	MARE ISLAND STRAIT	10/31/2012	0836-0850	224	N/A	0.0MGL	6.5	0.99 NTU	AWWA BMP
EL DORADO ST/LOUISIANA	HYD	MARE ISLAND STRAIT	10/31/2012	1005-1030	399	N/A	0.0MGL	6.5	0.45 NTU	AWWA BMP
LOUISIANA/BROADWAY ST	HYD	MARE ISLAND STRAIT	10/31/2012	1238-1255	366	N/A	0.0MGL	6.5	0.64 NTU	AWWA BMP
LOUISIANA/MONTEREY ST	HYD	MARE ISLAND STRAIT	10/31/2012	1408-1430	344	N/A	0.0MGL	6.5	0.83 NTU	AWWA BMP
LOUISIANA ST/COLUSA ST	HYD	MARE ISLAND STRAIT	10/31/2012	1531-1550	224	N/A	0.0MGL	6.5	0.94 NTU	AWWA BMP
OHIO ST/MONTEREY ST	HYD	MARE ISLAND STRAIT	11/1/2012	0845-1915	134	N/A	0.0MGL	6.5	0.82NTU	AWWA BMP
BROADWAY ST/OHIO ST	HYD	MARE ISLAND STRAIT	11/1/2012	1030-1045	336	N/A	0.0MGL	6.5	1.05 NTU	AWWA BMP
EL DORADO ST/OHIO ST	HYD	MARE ISLAND STRAIT	11/1/2012	1300-1310	180	N/A	0.0MGL	6.5	0.67 NTU	AWWA BMP
OHIO ST/EL DORADO ST	HYD	MARE ISLAND STRAIT	11/1/2012	1430-1445	157	N/A	0.0MGL	6.5	0.62 NTU	AWWA BMP
TENNESSEE/AMADOR ST	HYD	MARE ISLAND STRAIT	11/1/2012	0834-0850	284	N/A	0.0MGL	6.5	1.10 NTU	AWWA BMP
LOUISIANA/AMADOR ST	HYD	MARE ISLAND STRAIT	11/1/2012	1007-1035	284	N/A	0.0MGL	6.5	1.36 NTU	AWWA BMP
LOUISIANA/AMADOR ST	HYD	MARE ISLAND STRAIT	11/1/2012	1236-1258	329	N/A	0.0MGL	6.5	1.84 NTU	AWWA BMP
OHIO ST/AMADOR ST	HYD	MARE ISLAND STRAIT	11/1/2012	1406-1430	149	N/A	0.0MGL	6.5	1.85 NTU	AWWA BMP
OHIO ST/COLUSA ST	HYD	MARE ISLAND STRAIT	11/1/2012	1535-1555	299	N/A	0.0MGL	6.5	1.55 NTU	AWWA BMP
NAPA ST/OHIO ST	HYD	MARE ISLAND STRAIT	11/5/2012	1315-1330	179	N/A	0.0MGL	6.5	1.06 NTU	AWWA BMP
NAPA ST/KENTUCKY ST	HYD	MARE ISLAND STRAIT	11/5/2012	1405-1420	463	N/A	0.0MGL	6.5	0.95 NTU	AWWA BMP
EL DORADO ST/KENTUCKY	HYD	MARE ISLAND STRAIT	11/5/2012	1545-1600	299	N/A	0.0MGL	6.5	0.89 NTU	AWWA BMP
929 ALAMEDA ST/MORNING	HYD	MARE ISLAND STRAIT	11/5/2012	0915-0925	127	N/A	0.0MGL	6.5	1.12 NTU	AWWA BMP
KENTUCKY/EL DORADO ST	HYD	MARE ISLAND STRAIT	11/5/2012	1040-1100	322	N/A	0.0MGL	6.5	2.28 NTU	AWWA BMP
KENTUCKY/ALAMEDA ST	HYD	MARE ISLAND STRAIT	11/5/2012	1245-1300	194	N/A	0.0MGL	6.5	2.78 NTU	AWWA BMP
MONTEREY/KENTUCKY ST	HYD	MARE ISLAND STRAIT	11/5/2012	1430-1445	277	N/A	0.0MGL	6.5	0.44 NTU	AWWA BMP
BUENA VISTA	B.O.	MARE ISLAND STRAIT	11/6/2012	1015-1035	224	N/A	0.0MGL	6.5	0.93 NTU	AWWA BMP
DRIFTWOOD CT	B.O.	MARE ISLAND STRAIT	11/6/2012	1055-1105	187	N/A	0.0MGL	6.5	0.96 NTU	AWWA BMP
COMPASS CT	B.O.	MARE ISLAND STRAIT	11/6/2012	1115-1130	269	N/A	0.0MGL	6.5	0.48 NTU	AWWA BMP
BEACON CT	B.O.	MARE ISLAND STRAIT	11/6/2012	1338-1355	284	N/A	0.0MGL	6.5	0.82 NTU	AWWA BMP
LIGHTHOUSE CT	B.O.	MARE ISLAND STRAIT	11/6/2012	1415-1500	1881	N/A	0.0MGL	6.5	0.32 NTU	AWWA BMP
SPRINGS RD/COLUSA ST	HYD	MARE ISLAND STRAIT	11/6/2012	0940-0950	105	N/A	0.0MGL	6.5	0.44 NTU	AWWA BMP
SPRINGS RD/GLENN ST	HYD	MARE ISLAND STRAIT	11/6/2012	1030-1055	150	N/A	0.0MGL	6.5	1.41 NTU	AWWA BMP
FLORIDA ST/GLENN ST	HYD	MARE ISLAND STRAIT	11/6/2012	1120-1135	224	N/A	0.0MGL	6.5	1.02 NTU	AWWA BMP
AMADOR ST/FLORIDA ST	HYD	MARE ISLAND STRAIT	11/6/2012	1340-1355	150	N/A	0.0MGL	6.5	0.70 NTU	AWWA BMP
9 BUENA VISTA	B.O.	MARE ISLAND STRAIT	11/7/2012	0950-1005	277	N/A	0.0MGL	6.5	0.79 NTU	AWWA BMP

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SITE/ LOCATION	DISCHARGE TYPE	RECEIVING WATERBODY (IES)	DATE OF DISCHARGE	DURATION OF DISCHARGE (MILITARY TIME)	VOLUME (GALLONS) ESTIMATED FLOW RATE (GALLONS/DAY)	ESTIMATED FLOW RATE (GALLONS / DAY)	CHLORINE RESIDUAL (mg/L)	pH (STANDARD UNITS)	DISCHARGE TURBIDITY1 (NTU)	IMPLEMENTED BMPs & CORRECTIVE ACTIONS
MISTY CT	B.O.	MARE ISLAND STRAIT	11/7/2012	1045-1105	411	N/A	0.0MGL	6.5	0.39 NTU	AWWA BMP
OLSEN CT	B.O.	MARE ISLAND STRAIT	11/7/2012	1345-1400	463	N/A	0.0MGL	6.5	0.14 NTU	AWWA BMP
AGNES CT	B.O.	MARE ISLAND STRAIT	11/7/2012	1500-1535	673	N/A	0.0MGL	6.5	0.30 NTU	AWWA BMP
GENOA CT	B.O.	MARE ISLAND STRAIT	11/7/2012	1600-1630	823	N/A	0.0MGL	6.5	0.21 NTU	AWWA BMP
1402 FLORIDA ST	HYD	MARE ISLAND STRAIT	11/7/2012	0830-0850	201	N/A	0.0MGL	6.5	1.05 NTU	AWWA BMP
FLORIDA ST/ALAMEDA ST	HYD	MARE ISLAND STRAIT	11/7/2012	1005-1035	312	N/A	0.0MGL	6.5	0.73 NTU	AWWA BMP
FLORIDA ST/EL DORADO ST	HYD	MARE ISLAND STRAIT	11/7/2012	1235-1250	81	N/A	0.0MGL	6.5	0.47 NTU	AWWA BMP
FLORIDA ST/NAPA ST	HYD	MARE ISLAND STRAIT	11/7/2012	1405-1430	134	N/A	0.0MGL	6.5	0.76 NTU	AWWA BMP
TOULUMNE/TENNESSEE ST	HYD	MARE ISLAND STRAIT	11/8/2012	1030-1050	164	N/A	0.0MGL	6.5	2.25NTU	AWWA BMP
CALAVERAS/TENNESSE ST	HYD	MARE ISLAND STRAIT	11/8/2012	1435-1455	172	N/A	0.0MGL	6.5	2.13NTU	AWWA BMP
SHASTA/TENNESSEE ST	HYD	MARE ISLAND STRAIT	11/8/2012	1535-1549	158	N/A	0.0MGL	6.5	1.16NTU	AWWA BMP
COTTA CT WEST	B.O.	MARE ISLAND STRAIT	11/8/2012	0920-0945	664	N/A	0.0MGL	6.5	0.55NTU	AWWA BMP
COTTA CT EAST	B.O.	MARE ISLAND STRAIT	11/8/2012	1000-1020	486	N/A	0.0MGL	6.5	0.28NTU	AWWA BMP
CAROUSEL CT	B.O.	MARE ISLAND STRAIT	11/8/2012	1330-1400	930	N/A	0.0MGL	6.5	2.65NTU	AWWA BMP
GATEWAY CT	B.O.	MARE ISLAND STRAIT	11/8/2012	1410-1425	360	N/A	0.0MGL	6.5	0.22NTU	AWWA BMP
TAPER CT	B.O.	MARE ISLAND STRAIT	11/8/2012	1510-1540	554	N/A	0.0MGL	6.5	1.18NTU	AWWA BMP
PLATINUM CT	B.O.	MARE ISLAND STRAIT	11/9/2012	0815-0845	501	N/A	0.0MGL	6.5	0.93 NTU	AWWA BMP
PECAN CT	B.O.	MARE ISLAND STRAIT	11/9/2012	0925-0955	449	N/A	0.0MGL	6.5	0.78 NTU	AWWA BMP
WALNUT CT	B.O.	MARE ISLAND STRAIT	11/9/2012	1000-1050	1070	N/A	0.0MGL	6.5	0.11 NTU	AWWA BMP
PEPPER DR	B.O.	MARE ISLAND STRAIT	11/9/2012	1310-1325	367	N/A	0.0MGL	6.5	0.44 NTU	AWWA BMP
LAKESIDE DR	B.O.	MARE ISLAND STRAIT	11/9/2012	1340-1415	860	N/A	0.0MGL	6.5	0.66 NTU	AWWA BMP
TENNESSEE/MENDOCINO	HYD	MARE ISLAND STRAIT	11/13/2012	0830-0848	112	N/A	0.0MGL	6.5	1.07 NTU	AWWA BMP
MENDOCINO/ALABAMA	HYD	MARE ISLAND STRAIT	11/13/2012	1000-1025	59	N/A	0.0MGL	6.5	2.21 NTU	AWWA BMP
ALABAMA/ SHASTA	HYD	MARE ISLAND STRAIT	11/13/2012	1236-1247	29	N/A	0.0MGL	6.5	0.78 NTU	AWWA BMP
CALAVERAS/ALABAMA	HYD	MARE ISLAND STRAIT	11/13/2012	1402-141589	89	N/A	0.0MGL	6.5	1.73 NTU	AWWA BMP
TOULUMNE/ALABAMA	HYD	MARE ISLAND STRAIT	11/13/2012	1535-1540	44	N/A	0.0MGL	6.5	1.35 NTU	AWWA BMP
MCKEE CT	B.O.	LAKE HERMAN	11/13/2012	0830-0900	613	N/A	0.0MGL	6.5	0.32 NTU	AWWA BMP
KEVIN CT	B.O.	LAKE HERMAN	11/13/2012	0905-1000	1174	N/A	0.0MGL	6.5	0.52 NTU	AWWA BMP
ARABIAN CT	B.O.	LAKE HERMAN	11/13/2012	1005-1040	636	N/A	0.0MGL	6.5	0.16 NTU	AWWA BMP
ARENA CT	B.O.	LAKE HERMAN	11/13/2012	1050-1120	651	N/A	0.0MGL	6.5	0.15 NTU	AWWA BMP
ALESIA CT	B.O.	LAKE HERMAN	11/13/2012	1315-1345	524	N/A	0.0MGL	6.5	0.50 NTU	AWWA BMP
ALABAMA/ HALLIDAY	HYD	MARE ISLAND STRAIT	11/14/2012	0835-0845	44	N/A	0.0MGL	6.5	1.45 NTU	AWWA BMP
1315-1318 ALABAMA	HYD	MARE ISLAND STRAIT	11/14/2012	1005-1015	82	N/A	0.0MGL	6.5	0.7 NTU	AWWA BMP
LOUISIANA /HALLIDAY	HYD	MARE ISLAND STRAIT	11/14/2012	1235-1250	89	N/A	0.0MGL	6.5	0.82 NTU	AWWA BMP
121-125 MORNING SIDE	HYD	MARE ISLAND STRAIT	11/14/2012	1405-1420	119	N/A	0.0MGL	6.5	0.86 NTU	AWWA BMP
1338 LOUISIANA	HYD	MARE ISLAND STRAIT	11/14/2012	1535-1545	37	N/A	0.0MGL	6.5	0.71 NTU	AWWA BMP
ALLISON CT	B.O.	LAKE HERMAN	11/14/2012	0900-0935	935	N/A	0.0MGL	6.5	0.52 NTU	AWWA BMP
CIMARRON CT	B.O.	LAKE HERMAN	11/14/2012	0950-1030	1280	N/A	0.0MGL	6.5	0.13 NTU	AWWA BMP
CAROUSEL CT	HYD	LAKE HERMAN	11/14/2012	1300-1325	1339	N/A	0.0MGL	6.5	0.98 NTU	AWWA BMP
RODE CT	B.O.	LAKE HERMAN	11/14/2012	1430-1500	834	N/A	0.0MGL	6.5	0.40 NTU	AWWA BMP
CARNAVAL CT	B.O.	LAKE HERMAN	11/14/2012	1600	239	N/A	0.0MGL	6.5	0.32 NTU	AWWA BMP
CRONIN CT	B.O.	LAKE HERMAN	11/15/2012	0800-0850	576	N/A	0.0MGL	6.5	0.79 NTU	AWWA BMP
NUGENT DR	HYD	MARE ISLAND STRAIT	11/15/2012	1000-1020	688	N/A	0.0MGL	6.5	0.27 NTU	AWWA BMP
PLATT CT	B.O.	MARE ISLAND STRAIT	11/15/2012	1320-1340	396	N/A	0.0MGL	6.5	0.97 NTU	AWWA BMP
1453-1447 LOUISIANA	HYD	MARE ISLAND STRAIT	11/15/2012	0835-0845	97	N/A	0.0MGL	6.5	1.70 NTU	AWWA BMP
LOUISIANA/TUOLUMNE	HYD	MARE ISLAND STRAIT	11/15/2012	1005-1015	97	N/A	0.0MGL	6.5	0.79 NTU	AWWA BMP
LOUISIANA/CALAVERAS	HYD	MARE ISLAND STRAIT	11/15/2012	1235-1245	119	N/A	0.0MGL	6.5	1.67 NTU	AWWA BMP
LOUISIANA/SHASTA	HYD	MARE ISLAND STRAIT	11/15/2012	1435-1450	119	N/A	0.0MGL	6.5	1.70 NTU	AWWA BMP
LOUISIANA/MENDOCINO	HYD	MARE ISLAND STRAIT	11/15/2012	1535-1558	97	N/A	0.0MGL	6.5	1.89 NTU	AWWA BMP
MENDOCINO/ OHIO	HYD	MARE ISLAND STRAIT	11/16/2012	0835-0858	284	N/A	0.0MGL	6.5	1.15 NTU	AWWA BMP
SHASTA /OHIO	HYD	MARE ISLAND STRAIT	11/16/2012	1005-1030	134	N/A	0.0MGL	6.5	1.48 NTU	AWWA BMP
CALAVERAS/ OHIO	HYD	MARE ISLAND STRAIT	11/16/2012	1235-1250	164	N/A	0.0MGL	6.5	0.90 NTU	AWWA BMP
TUOLUMNE /OHIO	HYD	MARE ISLAND STRAIT	11/16/2012	1405-1430	142	N/A	0.0MGL	6.5	0.94 NTU	AWWA BMP
HALLIDAY /CASSADY	HYD	MARE ISLAND STRAIT	11/19/2012	0845-0900	344	N/A	0.0MGL	6.5	1.01 NTU	AWWA BMP
1439-1445 OHIO ST	HYD	MARE ISLAND STRAIT	11/19/2012	1000-1015	216	N/A	0.0MGL	6.5	0.89 NTU	AWWA BMP
SPRINGS RD/ WOLF	HYD	MARE ISLAND STRAIT	11/19/2012	1115-1130	187	N/A	0.0MGL	6.5	0.94 NTU	AWWA BMP
SPRINGS/CONTRA COSTA	HYD	MARE ISLAND STRAIT	11/19/2012	1330-1345	620	N/A	0.0MGL	6.5	0.92 NTU	AWWA BMP
FLORIDA /YUBA ST	HYD	MARE ISLAND STRAIT	11/19/2012	1445-1500	239	N/A	0.0MGL	6.5	0.86 NTU	AWWA BMP
WOLFE/FLORIDA ST	HYD	MARE ISLAND STRAIT	11/20/2012	0845-0900	194	N/A	0.0MGL	6.5	0.89NTU	AWWA BMP
FLORIDA ST/ TUOLUMNE	HYD	MARE ISLAND STRAIT	11/20/2012	1030-1045	97	N/A	0.0MGL	6.5	0.94NTU	AWWA BMP
SPRINGS RD/TUOLUMNE	HYD	MARE ISLAND STRAIT	11/20/2012	1240-1255	127	N/A	0.0MGL	6.5	0.29NTU	AWWA BMP
CALAVERAS ST/SPRINGS RD	HYD	MARE ISLAND STRAIT	11/20/2012	1415-1430	164	N/A	0.0MGL	6.5	0.66NTU	AWWA BMP
SHASTA ST/SPRINDS RD	HYD	MARE ISLAND STRAIT	11/20/2012	1530-1550	546	N/A	0.0MGL	6.5	0.87NTU	AWWA BMP
SOLANO /14 TH ST	HYD	MARE ISLAND STRAIT	11/26/2012	0815-0835	209	N/A	0.0MGL	6.5	1.72 NTU	AWWA BMP

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SPRING RD / NORTH 14TH	HYD	MARE ISLAND STRAIT	11/26/2012	0936-0950	134	N/A	0.0MGL	6.5	NA	AWWA BMP
MENDOCINO/SPRING	HYD	MARE ISLAND STRAIT	11/26/2012	0840-0850	261	N/A	0.0MGL	6.5	0.50 NTU	AWWA BMP
L.ELLENBERG/SHASTA	HYD	MARE ISLAND STRAIT	11/26/2012	0943-0948	165	N/A	0.0MGL	6.5	0.59 NTU	AWWA BMP
SOLANO/FLORIDA	HYD	MARE ISLAND STRAIT	11/26/2012	1124-1135	164	N/A	0.0MGL	6.5	0.98 NTU	AWWA BMP
SHASTA/ FLORIDA	HYD	MARE ISLAND STRAIT	11/26/2012	1355-1405	119	N/A	0.0MGL	6.5	0.98 NTU	AWWA BMP
CALAVERAS/FLORIDA	HYD	MARE ISLAND STRAIT	11/26/2012	1500-1510	261	N/A	0.0MGL	6.5	0.91 NTU	AWWA BMP
MARIPOSA/OHIO ST	HYD	MARE ISLAND STRAIT	11/27/2012	0850-0912	82	N/A	0.0MGL	6.5	1.83 NTU	AWWA BMP
2040 MARIPOSA ST	HYD	MARE ISLAND STRAIT	11/27/2012	1015-1025	37	N/A	0.0MGL	6.5	1.03 NTU	AWWA BMP
MARIPOSA/LOUISIANA ST	HYD	MARE ISLAND STRAIT	11/27/2012	1100-1115	37	N/A	0.0MGL	6.5	1.61 NTU	AWWA BMP
MARIPOSA ST/ SOLANO	HYD	MARE ISLAND STRAIT	11/27/2012	1330-1345	89	N/A	0.0MGL	6.5	1.68 NTU	AWWA BMP
2070 MARIPOSA ST	HYD	MARE ISLAND STRAIT	11/27/2012	1500-1515	37	N/A	0.0MGL	6.5	1.80 NTU	AWWA BMP
L ELLENBURG/CALAVERAS	HYD	MARE ISLAND STRAIT	11/27/2012	0900-0910	216	N/A	0.0MGL	6.5	0.62 NTU	AWWA BMP
TENNESSEE/HALLIDAY	HYD	MARE ISLAND STRAIT	11/27/2012	1330-1340	433	N/A	0.0MGL	6.5	0.25 NTU	AWWA BMP
TENNESSEE/VENTURA	HYD	MARE ISLAND STRAIT	11/27/2012	1400-1410	157	N/A	0.0MGL	6.5	0.46 NTU	AWWA BMP
SPRINGS RD/118' S/E MARIPOSA	HYD	MARE ISLAND STRAIT	11/27/2012	1500-1520	127	N/A	0.0MGL	6.5	0.44 NTU	AWWA BMP
ALABAMA/MARIPOSA ST	HYD	MARE ISLAND STRAIT	11/28/2012	1015-1035	97	N/A	0.0MGL	6.5	2.80 NTU	AWWA BMP
1947-1955 ALABAMA ST	HYD	MARE ISLAND STRAIT	11/28/2012	1330-1340	37	N/A	0.0MGL	6.5	1.08 NTU	AWWA BMP
MARIPOSA/TENNESSEE	HYD	MARE ISLAND STRAIT	11/28/2012	1420-1440	135	N/A	0.0MGL	6.5	1.61 NTU	AWWA BMP
SPRINGS RD/HUMBOLT ST	HYD	MARE ISLAND STRAIT	11/28/2012	1530-1540	45	N/A	0.0MGL	6.5	1.28 NTU	AWWA BMP
LINCOLN RD E/FLORIDA ST	HYD	MARE ISLAND STRAIT	11/28/2012	1020-1040	172	N/A	0.0MGL	6.5	0.52 NTU	AWWA BMP
1100 LINCOLN RD EAST	HYD	MARE ISLAND STRAIT	11/28/2012	1115-1125	134	N/A	0.0MGL	6.5	0.58 NTU	AWWA BMP
FLORIDA/GREENAN	HYD	MARE ISLAND STRAIT	11/28/2012	1255-1300	164	N/A	0.0MGL	6.5	0.31 NTU	AWWA BMP
HILTON/FLORIDA ST	HYD	MARE ISLAND STRAIT	11/28/2012	1430-1440	172	N/A	0.0MGL	6.5	0.48 NTU	AWWA BMP
FLORIDA/SHELDON	HYD	MARE ISLAND STRAIT	11/28/2012	1500-1515	134	N/A	0.0MGL	6.5	0.77 NTU	AWWA BMP
VERVAIS/FLORIDA ST	HYD	MARE ISLAND STRAIT	11/28/2012	1600-1610	101	N/A	0.0MGL	6.5	0.68 NTU	AWWA BMP
1319 TENNESSEE ST	HYD	MARE ISLAND STRAIT	11/29/2012	0930-0940	104	N/A	0.0MGL	6.5	0.94 NTU	AWWA BMP
SPRINGS /DELNONTE	HYD	MARE ISLAND STRAIT	11/29/2012	1015-1025	127	N/A	0.0MGL	6.5	0.82 NTU	AWWA BMP
SPRINGS /LASSEN	HYD	MARE ISLAND STRAIT	11/29/2012	1300-1310	119	N/A	0.0MGL	6.5	0.75 NTU	AWWA BMP
VERVAIS /SPRINGS	HYD	MARE ISLAND STRAIT	11/29/2012	1430-1440	172	N/A	0.0MGL	6.5	0.75 NTU	AWWA BMP
SPRINGS /VERVAIS /SW COR	HYD	MARE ISLAND STRAIT	11/29/2012	1510-1520	134	N/A	0.0MGL	6.5	0.98 NTU	AWWA BMP
FLORIDA /WARFORD	HYD	MARE ISLAND STRAIT	11/29/2012	1600-1610	187	N/A	0.0MGL	6.5	0.73 NTU	AWWA BMP
SPRINGS RD/ TREGAKIS	HYD	MARE ISLAND STRAIT	11/30/2012	1240-1250	112	N/A	0.0MGL	6.5	0.78 NTU	AWWA BMP
1085 WESTERN AVE	HYD	MARE ISLAND STRAIT	11/30/2012	1450-1500	97	N/A	0.0MGL	6.5	1.37 NTU	AWWA BMP
829 LASSEN ST	HYD	MARE ISLAND STRAIT	12/3/2012	0945-0955	150	N/A	0.0MGL	6.5	1.04 NTU	AWWA BMP
901 LASSEN ST	HYD	MARE ISLAND STRAIT	12/3/2012	1010-1015	74	N/A	0.0MGL	6.5	1.94 NTU	AWWA BMP
GLENWOOD /MODOC	HYD	MARE ISLAND STRAIT	12/3/2012	1145-1155	150	N/A	0.0MGL	6.5	1.29 NTU	AWWA BMP
HALABUK /SPRINGS	HYD	MARE ISLAND STRAIT	12/3/2012	0910-0930	52	N/A	0.0MGL	6.5	1.25 NTU	AWWA BMP
EASTWOOD /TREGASKIS	HYD	MARE ISLAND STRAIT	12/3/2012	1000-1025	75	N/A	0.0MGL	6.5	1.12 NTU	AWWA BMP
770 WARFORD AVE	HYD	MARE ISLAND STRAIT	12/3/2012	1450-1500	112	N/A	0.0MGL	6.5	2.08 NTU	AWWA BMP
710 WARFORD AVE	HYD	MARE ISLAND STRAIT	12/3/2012	1520-1550	37	N/A	0.0MGL	6.5	1.98 NTU	AWWA BMP
GUAVA CT	B.O.	MARE ISLAND STRAIT	12/3/2012	0930-1000	381	N/A	0.0MGL	6.5	0.82 NTU	AWWA BMP
GUM CT	B.O.	MARE ISLAND STRAIT	12/3/2012	1030-1045	621	N/A	0.0MGL	6.5	0.55 NTU	AWWA BMP
MITCHELL CT	B.O.	MARE ISLAND STRAIT	12/3/2012	1230-1300	838	N/A	0.0MGL	6.5	0.67 NTU	AWWA BMP
EL SENDERO	B.O.	MARE ISLAND STRAIT	12/3/2012	1330-1345	157	N/A	0.0MGL	6.5	0.65 NTU	AWWA BMP
UPLAND CT	B.O.	MARE ISLAND STRAIT	12/3/2012	1430-1500	823	N/A	0.0MGL	6.5	1.45 NTU	AWWA BMP
CRESCENT /EASTWOOD	HYD	MARE ISLAND STRAIT	12/4/2012	0830-0840	37	N/A	0.0MGL	6.5	1.32 NTU	AWWA BMP
VERVIAS /EASTWOOD	HYD	MARE ISLAND STRAIT	12/4/2012	1000-1025	75	N/A	0.0MGL	6.5	0.79 NTU	AWWA BMP
EASTWOOD / HUMBOLT	HYD	MARE ISLAND STRAIT	12/4/2012	1300-1340	127	N/A	0.0MGL	6.5	0.65 NTU	AWWA BMP
829-833 HUMBOLT ST	HYD	MARE ISLAND STRAIT	12/4/2012	1430-1450	52	N/A	0.0MGL	6.5	1.27 NTU	AWWA BMP
DEL NORTE /GLENWOOD	HYD	MARE ISLAND STRAIT	12/4/2012	1540-1600	37	N/A	0.0MGL	6.5	0.96 NTU	AWWA BMP
920 HUMBOLT	HYD	MARE ISLAND STRAIT	12/4/2012	0905-0915	150	N/A	0.0MGL	6.5	.65 NTU	AWWA BMP
ADM CALLAGHAN / TENN	HYD	MARE ISLAND STRAIT	12/4/2012	0955-1010	150	N/A	0.0MGL	6.5	.80 NTU	AWWA BMP
TENNESSEE/LASSEN	HYD	MARE ISLAND STRAIT	12/4/2012	1030-1040	112	N/A	0.0MGL	6.5	.77 NTU	AWWA BMP
1308 LINCOLN RD EAST	HYD	MARE ISLAND STRAIT	12/4/2012	1355-1405	127	N/A	0.0MGL	6.5	.80 NTU	AWWA BMP
1324 LINCOLN EAST	HYD	MARE ISLAND STRAIT	12/4/2012	1430-1455	172	N/A	0.0MGL	6.5	1.75 NTU	AWWA BMP
SEAVIEW CT	B.O.	MARE ISLAND STRAIT	12/4/2012	0840-0900	464	N/A	0.0MGL	6.5	0.89 NTU	AWWA BMP
TANGELWOOD CT	B.O.	MARE ISLAND STRAIT	12/4/2012	0930-1000	643	N/A	0.0MGL	6.5	0.60 NTU	AWWA BMP
COMSTOCK CT	B.O.	MARE ISLAND STRAIT	12/4/2012	1035-1105	666	N/A	0.0MGL	6.5	0.41 NTU	AWWA BMP
SOMERSET CT	B.O.	MARE ISLAND STRAIT	12/4/2012	1235-1305	591	N/A	0.0MGL	6.5	0.58 NTU	AWWA BMP
EDGEHILL CT	B.O.	MARE ISLAND STRAIT	12/4/2012	1400-1440	464	N/A	0.0MGL	6.5	0.59 NTU	AWWA BMP
2441-2433 HELEN AVE	HYD	MARE ISLAND STRAIT	12/5/2012	0900-0915	75	N/A	0.0MGL	6.5	1.16 NTU	AWWA BMP
HELEN AVE/TENNESSE	HYD	MARE ISLAND STRAIT	12/5/2012	1000-1015	45	N/A	0.0MGL	6.5	1.86 NTU	AWWA BMP
VERVAIS /TENNESSE	HYD	MARE ISLAND STRAIT	12/5/2012	1120-1200	150	N/A	0.0MGL	6.5	0.96 NTU	AWWA BMP
1193 MAPLE AVE	HYD	MARE ISLAND STRAIT	12/5/2012	1350-1415	82	N/A	0.0MGL	6.5	0.87 NTU	AWWA BMP

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SITE/ LOCATION	DISCHARGE TYPE	RECEIVING WATERBODY (IES)	DATE OF DISCHARGE	DURATION OF DISCHARGE (MILITARY TIME)	VOLUME (GALLONS) ESTIMATED FLOW RATE (GALLONS/DAY)	ESTIMATED FLOW RATE (GALLONS / DAY)	CHLORINE RESIDUAL (mg/L)	pH (STANDARD UNITS)	DISCHARGE TURBIDITY1 (NTU)	IMPLEMENTED BMPs & CORRECTIVE ACTIONS
141-137 CLAY ST	HYD	MARE ISLAND STRAIT	12/5/2012	1450-1550	224	N/A	0.0MGL	6.5	1.40 NTU	AWWA BMP
1120-1116 SHERMEN	HYD	MARE ISLAND STRAIT	12/5/2012	0855-0910	187	N/A	0.0MGL	6.5	1.20 NTU	AWWA BMP
1156-1152 SHERMAN	HYD	MARE ISLAND STRAIT	12/5/2012	0940-0950	157	N/A	0.0MGL	6.5	1.15 NTU	AWWA BMP
FOSTER ST	HYD	MARE ISLAND STRAIT	12/5/2012	1030-1040	157	N/A	0.0MGL	6.5	1.23NTU	AWWA BMP
1117 MAPLE AVE	HYD	MARE ISLAND STRAIT	12/5/2012	1350-1400	142	N/A	0.0MGL	6.5	1.12 NTU	AWWA BMP
1129 MAPLE AVE	HYD	MARE ISLAND STRAIT	12/5/2012	1400-1450	127	N/A	0.0MGL	6.5	.51 NTU	AWWA BMP
DOUGLAS CT	B.O.	MARE ISLAND STRAIT	12/5/2012	0830-0900	509	N/A	0.0MGL	6.5	0.52 NTU	AWWA BMP
FLORENCE CT	B.O.	MARE ISLAND STRAIT	12/5/2012	0930-1000	486	N/A	0.0MGL	6.5	0.28 NTU	AWWA BMP
SERENO PL	B.O.	MARE ISLAND STRAIT	12/5/2012	1040-1120	546	N/A	0.0MGL	6.5	0.96 NTU	AWWA BMP
EL POCO PL	HYD	MARE ISLAND STRAIT	12/5/2012	1430-1515	718	N/A	0.0MGL	6.5	0.78 NTU	AWWA BMP
ALAMEDA ST	B.O.	MARE ISLAND STRAIT	12/5/2012	1240-1325	681	N/A	0.0MGL	6.5	0.87 NTU	AWWA BMP
1062-1066 CALDWELL AVE	HYD	MARE ISLAND STRAIT	12/6/2012	1050-1115	37	N/A	0.0MGL	6.5	0.74 NTU	AWWA BMP
WINCHELL CT	B.O.	MARE ISLAND STRAIT	12/6/2012	0840-0920	741	N/A	0.0MGL	6.5	0.18 NTU	AWWA BMP
DEL MAR CT	B.O.	MARE ISLAND STRAIT	12/6/2012	1000-1115	673	N/A	0.0MGL	6.5	0.24 NTU	AWWA BMP
SERRA CT	B.O.	MARE ISLAND STRAIT	12/6/2012	1250-1335	950	N/A	0.0MGL	6.5	0.66 NTU	AWWA BMP
JUANITA CT	B.O.	MARE ISLAND STRAIT	12/6/2012	1405-1435	568	N/A	0.0MGL	6.5	0.60 NTU	AWWA BMP
EL CAMINO CT	B.O.	MARE ISLAND STRAIT	12/6/2012	1515-1545	717	N/A	0.0MGL	6.5	0.90 NTU	AWWA BMP
CORPERATE PL	HYD	MARE ISLAND STRAIT	12/7/2012	0840-0900	755	N/A	0.0MGL	6.5	.55 NTU	AWWA BMP
INDIANA ST	B.O.	MARE ISLAND STRAIT	12/7/2012	0950-1010	464	N/A	0.0MGL	6.5	.83 NTU	AWWA BMP
WAKE CT	B.O.	MARE ISLAND STRAIT	12/7/2012	1045-1101	157	N/A	0.0MGL	6.5	.50 NTU	AWWA BMP
COOK CIR	B.O.	MARE ISLAND STRAIT	12/7/2012	1330-1350	389	N/A	0.0MGL	6.5	.99 NTU	AWWA BMP
WHITE CLIFF DR	B.O.	MARE ISLAND STRAIT	12/7/2012	1410-1450	351	N/A	0.0MGL	6.5	.98 NTU	AWWA BMP
1132 OKAWOOD AVE	HYD	MARE ISLAND STRAIT	12/10/2012	0900-0910	127	N/A	0.0MGL	6.5	1.67 NTU	AWWA BMP
1148 OAKWOOD AVE	HYD	MARE ISLAND STRAIT	12/10/2012	0945-0955	74	N/A	0.0MGL	6.5	.90NTU	AWWA BMP
1166 OAKWOOD AVE	HYD	MARE ISLAND STRAIT	12/10/2012	1125-1132	90	N/A	0.0MGL	6.5	.87 NTU	AWWA BMP
2533-2529 TENNESSEE	HYD	MARE ISLAND STRAIT	12/10/2012	1330-1340	105	N/A	0.0MGL	6.5	.29 NTU	AWWA BMP
1071 MAPLE AVE	HYD	MARE ISLAND STRAIT	12/10/2012	1330-1400	142	N/A	0.0MGL	6.5	1.82 NTU	AWWA BMP
THELMA /SPRINGS	HYD	MARE ISLAND STRAIT	12/10/2012	1500-1510	45	N/A	0.0MGL	6.5	0.72 NTU	AWWA BMP
1070-1066 THELMA	HYD	MARE ISLAND STRAIT	12/10/2012	1610-1620	112	N/A	0.0MGL	6.5	1.50 NTU	AWWA BMP
SAN GORGONIO AVE	B.O.	MARE ISLAND STRAIT	12/10/2012	0925-1000	748	N/A	0.0MGL	6.5	.47 NTU	AWWA BMP
LOS CERRITOS DR	HYD	MARE ISLAND STRAIT	12/10/2012	1030-1110	598	N/A	0.0MGL	6.5	.69 NTU	AWWA BMP
MOUNTAIN VIEW CT	HYD	MARE ISLAND STRAIT	12/10/2012	1315-1400	928	N/A	0.0MGL	6.5	.42 NTU	AWWA BMP
DWIGHT WAY	HYD	MARE ISLAND STRAIT	12/10/2012	1410-1440	748	N/A	0.0MGL	6.5	0.78	AWWA BMP
SAN RAMON	B.O.	MARE ISLAND STRAIT	12/10/2012	1545-1630	696	N/A	0.0MGL	6.5	.61 NTU	AWWA BMP
2043 SPRINGS RD	HYD	MARE ISLAND STRAIT	12/11/2012	0940-1000	60	N/A	0.0MGL	6.5	0.81 NTU	AWWA BMP
1116 OAKWOOD AVE	HYD	MARE ISLAND STRAIT	12/11/2012	1315-1330	75	N/A	0.0MGL	6.5	0.83 NTU	AWWA BMP
ACROSS 1055 OAKWOOD	HYD	MARE ISLAND STRAIT	12/11/2012	1420-1440	89	N/A	0.0MGL	6.5	1.07 NTU	AWWA BMP
LAIN /TAFT	HYD	LAKE CHABOLT	12/11/2012	0835-0855	134	N/A	0.0MGL	6.5	0.83 NTU	AWWA BMP
156-150 LAIN	HYD	LAKE CHABOLT	12/11/2012	1005-1025	119	N/A	0.0MGL	6.5	0.63 NTU	AWWA BMP
LAIN /TENNESSEE	HYD	LAKE CHABOLT	12/11/2012	1235-1255	119	N/A	0.0MGL	6.5	0.60 NTU	AWWA BMP
TENNESSEE/ MATTOS	HYD	LAKE CHABOLT	12/11/2012	1405-1425	142	N/A	0.0MGL	6.5	0.62 NTU	AWWA BMP
MATTOS /HARRIS	HYD	LAKE CHABOLT	12/11/2012	1535-1550	296	N/A	0.0MGL	6.5	1.36 NTU	AWWA BMP
TENNESSEE/OAKWOOD	HYD	MARE ISLAND STRAIT	12/12/2012	1000-1015	224	N/A	0.0MGL	6.5	0.59 NTU	AWWA BMP
SPRINGS RD/LAIN	HYD	MARE ISLAND STRAIT	12/12/2012	1310-1325	165	N/A	0.0MGL	6.5	0.71 NTU	AWWA BMP
MOSSWOOD/SPRINGS RD	HYD	MARE ISLAND STRAIT	12/12/2012	1420-1436	142	N/A	0.0MGL	6.5	0.87 NTU	AWWA BMP
CASTLEWOOD/SPRINGS RD	HYD	MARE ISLAND STRAIT	12/12/2012	1514-1524	97	N/A	0.0MGL	6.5	0.70 NTU	AWWA BMP
102 PARKWOOD DR	HYD	MARE ISLAND STRAIT	12/13/2012	1410-1420	105	N/A	0.0MGL	6.5	0.99 NTU	AWWA BMP
112 PARKWOOD	HYD	MARE ISLAND STRAIT	12/13/2012	1540-1550	67	N/A	0.0MGL	6.5	1.12 NTU	AWWA BMP
PARKWOOD/PATRICK CT	HYD	MARE ISLAND STRAIT	12/13/2012	1015-1030	157	N/A	0.0MGL	6.5	0.65 NTU	AWWA BMP
PARKWOOD/RAE CT	HYD	MARE ISLAND STRAIT	12/13/2012	1103-1116	90	N/A	0.0MGL	6.5	0.74 NTU	AWWA BMP
PARKWOOD/LYNN CT	HYD	MARE ISLAND STRAIT	12/13/2012	1245-1300	157	N/A	0.0MGL	6.5	0.59 NTU	AWWA BMP
TENNESSEE/PARKWOOD	HYD	MARE ISLAND STRAIT	12/13/2012	1405-1425	202	N/A	0.0MGL	6.5	0.33NTU	AWWA BMP
TENNESSEE/MYRTLEWOOD	HYD	MARE ISLAND STRAIT	12/13/2012	1530-1545	82	N/A	0.0MGL	6.5	.95 NTU	AWWA BMP
180-191 BRITANNIA CT	HYD	MARE ISLAND STRAIT	12/14/2012	1115-1130	269	N/A	0.0MGL	6.5	0.88NTU	AWWA BMP
132-140 BRITANNIA CT	HYD	MARE ISLAND STRAIT	12/14/2012	1300-1310	90	N/A	0.0MGL	6.5	1.62 NTU	AWWA BMP
351-357 SPRIGBROOK DR	HYD	MARE ISLAND STRAIT	12/14/2012	0900-0910	127	N/A	0.0MGL	6.5	0.64 NTU	AWWA BMP
118 CURTIS DR	HYD	MARE ISLAND STRAIT	12/14/2012	1045-1055	105	N/A	0.0MGL	6.5	0.82 NTU	AWWA BMP
2833 TENNESSEE /CURTIS	HYD	MARE ISLAND STRAIT	12/14/2012	1310-1330	187	N/A	0.0MGL	6.5	0.75 NTU	AWWA BMP
2209 ASCOT PKWY	HYD	MARE ISLAND STRAIT	12/17/2012	0910-0930	202	N/A	0.0MGL	6.5	1.01 NTU	AWWA BMP
5075-5081 GEORGIA ST	HYD	MARE ISLAND STRAIT	12/17/2012	1045-1055	82	N/A	0.0MGL	6.5	0.76 NTU	AWWA BMP
CAROLINA/BUTTE ST	HYD	MARE ISLAND STRAIT	12/17/2012	1250-1300	97	N/A	0.0MGL	6.8	0.71 NTU	AWWA BMP
MARE ISLAND WY/CAPITAL/GEORGIA	HYD	MARE ISLAND STRAIT	12/17/2012	1410-1420	89	N/A	0.0MGL	6.5	0.59 NTU	AWWA BMP
CAPITAL ST/MARE ISLAND WY	HYD	MARE ISLAND STRAIT	12/17/2012	1545-1555	97	N/A	0.0MGL	6.5	0.75 NTU	AWWA BMP
101 HEARTWOOD CT	HYD	MARE ISLAND STRAIT	12/18/2012	1455-1502	82	N/A	0.0MGL	6.5	0.61 NTU	AWWA BMP

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HEARTWOOD /SPRINGS	HYD	MARE ISLAND STRAIT	12/18/2012	1520-1528	75	N/A	0.0MGL	6.5	0.88 NTU	AWWA BMP
MARE ISLAND/GEORGIA	HYD	MARE ISLAND STRAIT	12/19/2012	0930-0940	246	N/A	0.0MGL	6.5	0.38 NTU	AWWA BMP
CAROLINA/MARIN	HYD	MARE ISLAND STRAIT	12/19/2012	1015-1030	172	N/A	0.0MGL	6.5	3.79 NTU	AWWA BMP
SACRAMENTO /CAROLINA	HYD	MARE ISLAND STRAIT	12/19/2012	1115-1130	149	N/A	0.0MGL	6.5	0.98 NTU	AWWA BMP
SANTA CLARA/CAROLINA	HYD	MARE ISLAND STRAIT	12/19/2012	1315-1330	97	N/A	0.0MGL	6.5	0.61 NTU	AWWA BMP
CAROLINA /BRANIFORT	HYD	MARE ISLAND STRAIT	12/19/2012	1445-1500	149	N/A	0.0MGL	6.5	0.76 NTU	AWWA BMP
MATTOS /TAFT	HYD	MARE ISLAND STRAIT	12/19/2012	0915-0940	97	N/A	0.0MGL	6.5	1.98NTU	AWWA BMP
CAPITAL/MARE ISLAND WY	HYD	MARE ISLAND STRAIT	12/19/2012	1430-1455	105	N/A	0.0MGL	6.5	0.69 NTU	AWWA BMP
W/S BLDG 400 MARE ISLAND WY	HYD	MARE ISLAND STRAIT	12/20/2012	1120-1130	179	N/A	0.0MGL	6.5	0.79 NTU	AWWA BMP
N/W BLDG 400 MARE ISLAND WY	HYD	MARE ISLAND STRAIT	12/20/2012	1300-1310	142	N/A	0.0MGL	6.5	0.79 NTU	AWWA BMP
S/W BLDG 400 MARE ISLAND WY	HYD	MARE ISLAND STRAIT	12/20/2012	1400-1410	82	N/A	0.0MGL	6.5	0.59 NTU	AWWA BMP
CAROLINA/SONOMA SE C/O	HYD	MARE ISLAND STRAIT	12/21/2012	0936-0945	201	N/A	0.0MGL	6.5	1.0 NTU	AWWA BMP
621 CAROLINA	HYD	MARE ISLAND STRAIT	12/21/2012	1300-1315	142	N/A	0.0MGL	6.5	1.0 NTU	AWWA BMP
CAROLINA/SUTTER SE C/O	HYD	MARE ISLAND STRAIT	12/21/2012	1400-1415	135	N/A	0.0MGL	6.5	0.57 NTU	AWWA BMP
CAROLINA/SUTTER SE C/O	HYD	MARE ISLAND STRAIT	12/21/2012	1500-1530	306	N/A	0.0MGL	6.5	1.32 NTU	AWWA BMP
CAPITOL/SUTTER	HYD	MARE ISLAND STRAIT	12/26/2012	0825-0900	179	N/A	0.0MGL	6.5	1.65 NTU	AWWA BMP
VIRGINIA/SUTTER	HYD	MARE ISLAND STRAIT	12/26/2012	0900-0925	276	N/A	0.0MGL	6.5	1.22 NTU	AWWA BMP
CAPITOL/SONOMA BLVD	HYD	MARE ISLAND STRAIT	12/26/2012	1230-1250	291	N/A	0.0MGL	6.5	0.70 NTU	AWWA BMP
SONOMA BLVD/VIRGINIA	HYD	MARE ISLAND STRAIT	12/26/2012	1402-1425	224	N/A	0.0MGL	6.5	1.35 NTU	AWWA BMP
MARIN ST/CAPITOL ST	HYD	MARE ISLAND STRAIT	12/26/2012	1530-1550	239	N/A	0.0MGL	6.5	1.35 NTU	AWWA BMP
CAROLINA /SONOMA	HYD	MARE ISLAND STRAIT	12/27/2012	0835-0855	321	N/A	0.0MGL	6.5	2.62 NTU	AWWA BMP
CAPITOL/SACRAMENTO	HYD	MARE ISLAND STRAIT	12/27/2012	1005-1030	306	N/A	0.0MGL	6.5	0.51 NTU	AWWA BMP
CAPITOL/SANTA CLARA	HYD	MARE ISLAND STRAIT	12/27/2012	1235-1250	179	N/A	0.0MGL	6.5	0.64 NTU	AWWA BMP
536 SANTA CLARA	HYD	MARE ISLAND STRAIT	12/27/2012	1405-1430	59	N/A	0.0MGL	6.5	0.40 NTU	AWWA BMP
SANTA CLARA/GEORGIA	HYD	MARE ISLAND STRAIT	12/27/2012	1535-1550	74	N/A	0.0MGL	6.5	0.90 NTU	AWWA BMP
250 GEORGIA ST	HYD	MARE ISLAND STRAIT	12/31/2012	0840-0850	97	N/A	0.0MGL	6.5	1.54 NTU	AWWA BMP
GEORGIA ST	HYD	MARE ISLAND STRAIT	12/31/2012	1020-1030	90	N/A	0.0MGL	6.5	1.00 NTU	AWWA BMP
VIRGINIA/MARIN ST	HYD	MARE ISLAND STRAIT	12/31/2012	0920-0930	164	N/A	0.0MGL	6.5	1.57 NTU	AWWA BMP
428 GEORGIA ST	HYD	MARE ISLAND STRAIT	12/31/2012	1030-1045	344	N/A	0.0MGL	6.5	0.25 NTU	AWWA BMP
MOUNTAIN VIEW	BO	MARE ISLAND STRAIT	1/2/13	0915-0940	284	N/A	0.0 MGL	6.5	1.84 NTU	AWWA BMP
VISTA LN	BO	MARE ISLAND STRAIT	1/2/13	1020-1030	322	N/A	0.0 MGL	6.5	.77 NTU	AWWA BMP
MANZANITA DR	HYD	MARE ISLAND STRAIT	1/2/13	1100-1120	202	N/A	0.0 MGL	6.5	.54 NTU	AWWA BMP
LOIS LN	BO	MARE ISLAND STRAIT	1/2/13	1301-1325	224	N/A	0.0 MGL	6.5	.83 NTU	AWWA BMP
SPINNAKER CT	BO	MARE ISLAND STRAIT	1/2/13	1501-1526	404	N/A	0.0 MGL	6.5		AWWA BMP
MOONRAKER CT	BO	MARE ISLAND STRAIT	1/3/13	0910-0930	411	N/A	0.0 MGL	6.5	.92NTU	AWWA BMP
RUBY CT	BO	MARE ISLAND STRAIT	1/3/13	1045-1100	232	N/A	0.0 MGL	6.5	.78NTU	AWWA BMP
RUBY LN	BO	MARE ISLAND STRAIT	1/3/13	1140-1200	187	N/A	0.0 MGL	6.5	.57NTU	AWWA BMP
JADE CIR	BO	MARE ISLAND STRAIT	1/3/13	1350-1420	516	N/A	0.0 MGL	6.5	.53NTU	AWWA BMP
KATHY ELLEN CT	HYD	MARE ISLAND STRAIT	1/3/13	1440-1510	389	N/A	0.0 MGL	6.5	1.24NTU	AWWA BMP
STAGE LINE	BO	MARE ISLAND STRAIT	1/4/13	1030-1200	291	N/A	0.0 MGL	6.5	.83 NTU	AWWA BMP
BRIDLE WOOD	BO	MARE ISLAND STRAIT	1/4/13	1320-1345	187	N/A	0.0 MGL	6.5	.73 NTU	AWWA BMP
COMBS CT	BO	MARE ISLAND STRAIT	1/4/13	1410-1430	269	N/A	0.0 MGL	6.5	.97 NTU	AWWA BMP
MAR MONTE CT	BO	MARE ISLAND STRAIT	1/7/13	0845-0910	217	N/A	0.0 MGL	6.5	.97 NTU	AWWA BMP
MAHER CT	BO	MARE ISLAND STRAIT	1/7/13	0945-1010	381	N/A	0.0 MGL	6.5	.31 NTU	AWWA BMP
SKYLINE CT	BO	MARE ISLAND STRAIT	1/7/13	1105-1125	195	N/A	0.0 MGL	6.5	.61 NTU	AWWA BMP
GINA CT	BO	MARE ISLAND STRAIT	1/7/13	1310-1325	299	N/A	0.0 MGL	6.5	.35 NTU	AWWA BMP
FLEMING AVE	BO	MARE ISLAND STRAIT	1/7/13	1445-1425	209	N/A	0.0 MGL	6.5	1.04 NTU	AWWA BMP
QUAIL CT	BO	LAKE CHABOT	1/7/13	0920-0950	524	N/A	0.0 MGL	6.5	1.35 NTU	AWWA BMP
ROUND HILL CT	BO	LAKE CHABOT	1/7/13	1035-1115	853	N/A	0.0 MGL	6.5	1.39 NTU	AWWA BMP
SILVERVIEW CT	BO	LAKE CHABOT	1/7/13	1240-1310	755	N/A	0.0 MGL	6.5	0.56 NTU	AWWA BMP
LASSEN CT	BO	LAKE CHABOT	1/7/13	1430-1500	554	N/A	0.0 MGL	6.5	1.03 NTU	AWWA BMP
DALE CT	BO	LAKE CHABOT	1/7/13	1540-1555	322	N/A	0.0 MGL	6.8	0.68 NTU	AWWA BMP
CHARLES CT	BO	MARE ISLAND STRAIT	1/8/13	0845-0915	337	N/A	0.0 MGL	6.5	.71 NTU	AWWA BMP
HENRY CT	BO	MARE ISLAND STRAIT	1/8/13	0940-1005	224	N/A	0.0 MGL	6.5	.94 NTU	AWWA BMP
MISSION CT	BO	MARE ISLAND STRAIT	1/8/13	1130-1150	299	N/A	0.0 MGL	6.5	.80 NTU	AWWA BMP
FAIRFAX CT	BO	MARE ISLAND STRAIT	1/8/13	1320-1340	322	N/A	0.0 MGL	6.5	.62 NTU	AWWA BMP
FLEMING CT	BO	MARE ISLAND STRAIT	1/8/13	1440-1510	381	N/A	0.0 MGL	6.5	.44 NTU	AWWA BMP
430 VIRGINIA ST	HYD	MARE ISLAND STRAIT	1/8/13	0910-0920	217	N/A	0.0 MGL	6.5	1.49 NTU	AWWA BMP
301 GEORGIA ST	HYD	MARE ISLAND STRAIT	1/8/13	1040-1045	172	N/A	0.0 MGL	6.5	1.34 NTU	AWWA BMP
MARIN ST/GEORGIA ST	HYD	MARE ISLAND STRAIT	1/8/13	1320-1325	150	N/A	0.0 MGL	6.5	1.98 NTU	AWWA BMP
VIRGINIA/SACRAMENTO	HYD	MARE ISLAND STRAIT	1/8/13	1420-1430	224	N/A	0.0 MGL	6.5	0.51 NTU	AWWA BMP

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GOERGIA/SANTA CLARA	HYD	MARE ISLAND STRAIT	1/8/13	1555-1600	158	N/A	0.0 MGL	6.5	1.44 NTU	AWWA BMP
250' E/O MARE ISLAND WY	HYD	MARE ISLAND STRAIT	1/9/13	0905-0915	67	N/A	0.0 MGL	6.5	0.44 NTU	AWWA BMP
GEORGIA/MARE ISLAND	HYD	MARE ISLAND STRAIT	1/9/13	1030-1040	74.8	N/A	0.0 MGL	6.5	0.66 NTU	AWWA BMP
285 MARE ISLAND WY	HYD	MARE ISLAND STRAIT	1/9/13	1105-1115	74.8	N/A	0.0 MGL	6.5	0.74 NTU	AWWA BMP
SANTA CLARA/ MAINE	HYD	MARE ISLAND STRAIT	1/9/13	1345-1355	105	N/A	0.0 MGL	6.5	0.83 NTU	AWWA BMP
415 SANTA CLARA ST	HYD	MARE ISLAND STRAIT	1/9/13	1440-1450	74.8	N/A	0.0 MGL	6.5	0.49 NTU	AWWA BMP
395 SPRINGBROOK	HYD	MARE ISLAND STRAIT	1/10/13	0900-0915	179	N/A	0.0 MGL	6.5	0.37 NTU	AWWA BMP
TENNESSEE LOCUST	HYD	MARE ISLAND STRAIT	1/10/13	1030-1045	187	N/A	0.0 MGL	6.5	0.47 NTU	AWWA BMP
3303 TENNESSEE	HYD	MARE ISLAND STRAIT	1/10/13	1245-1300	261	N/A	0.0 MGL	6.5	0.96 NTU	AWWA BMP
YORK SACRAMENTO	HYD	MARE ISLAND STRAIT	1/10/13	0900-0910	82	N/A	0.0 MGL	6.5	.33 NTU	AWWA BMP
YORK SACRAMENTO	HYD	MARE ISLAND STRAIT	1/10/13	0940-0950	74	N/A	0.0 MGL	6.5	.68 NTU	AWWA BMP
SACRAMENTO MAINE	HYD	MARE ISLAND STRAIT	1/10/13	1140-1150	97	N/A	0.0 MGL	6.5	0.47 NTU	AWWA BMP
GEORGIA /SONOMA	HYD	MARE ISLAND STRAIT	1/10/13	1305-1325	74	N/A	0.0 MGL	6.5	.83 NTU	AWWA BMP
GEORGIA SUTTER	HYD	MARE ISLAND STRAIT	1/10/13	1445-1505	224	N/A	0.0 MGL	6.5	.67 NTU	AWWA BMP
SUTTER ST/YORK ST	HYD	MARE ISLAND STRAIT	1/11/13	0920-0930	112	N/A	0.0 MGL	6.5	1.49 NTU	AWWA BMP
SONOMA BLVD/YORK	HYD	MARE ISLAND STRAIT	1/11/13	1100-1110	112	N/A	0.0 MGL	6.5	1.58 NTU	AWWA BMP
100 NASHVILLE/TENNESSEE	HYD	LAKE CHABOT	1/11/13	1250-1255	60	N/A	0.0 MGL	6.5	1.48 NTU	AWWA BMP
TENNESSEE ALPINE	HYD	LAKE CHABOT	1/14/13	0910-0925	299	N/A	0.0 MGL	6.5	0.80 NTU	AWWA BMP
3450 TENNESSEE	HYD	LAKE CHABOT	1/14/13	1105-1115	105	N/A	0.0 MGL	6.5	0.98 NTU	AWWA BMP
470 AVIAN DR	HYD	LAKE CHABOT	1/14/13	1310-1130	352	N/A	0.0 MGL	6.5	1.15 NTU	AWWA BMP
156 NASHVILLE	HYD	LAKE CHABOT	1/14/13	1520-1530	112	N/A	0.0 MGL	6.5	0.86 NTU	AWWA BMP
1071 AZEVEDO RANCH	HYD	MARE ISLAND STRAIT	1/15/13	1015-1025	276	N/A	0.0 MGL	6.8	0.90 NTU	AWWA BMP
SPRINGS COLUMBUS	HYD	MARE ISLAND STRAIT	1/15/13	1300-1310	194	N/A	0.0 MGL	6.8	0.98 NTU	AWWA BMP
SPRINGS COLUMBUS	HYD	MARE ISLAND STRAIT	1/15/13	1415-1425	231	N/A	0.0 MGL	6.5	0.80 NTU	AWWA BMP
75'S/O TENNESSEE	HYD	MARE ISLAND STRAIT	1/15/13	1510-1520	321	N/A	0.0 MGL	6.5	0.78 NTU	AWWA BMP
229 KNIGHT CIR	HYD	MARE ISLAND STRAIT	1/15/13	1600-1620	179	N/A	0.0 MGL	6.5	0.82 NTU	AWWA BMP
124 RAINBOW	HYD	LAKE CHABOT	1/15/13	1310-1325	202	N/A	0.0 MGL	6.5	1.23 NTU	AWWA BMP
AVIAN /100' TENNESSEE	HYD	LAKE CHABOT	1/16/13	0915-0925	120	N/A	0.0 MGL	6.5	0.40 NTU	AWWA BMP
AZEVEDO RANCH RD	HYD	LAKE CHABOT	1/16/13	1040-1100	217	N/A	0.0 MGL	6.5	2.0NTU	AWWA BMP
1135 LEXINGTON DR	HYD	LAKE CHABOT	1/16/13	1300-1310	127	N/A	0.0 MGL	6.5	0.92 NTU	AWWA BMP
BERNICE CT	HYD	LAKE CHABOT	1/16/13	1420-1440	202	N/A	0.0 MGL	6.5	1.01 NTU	AWWA BMP
507 KNIGHTS CIR	HYD	LAKE CHABOT	1/16/13	1550-1615	367	N/A	0.0 MGL	6.8	1.72 NTU	AWWA BMP
300 MAGWOOD DR	HYD	MARE ISLAND STRAIT	1/16/13	1130-1140	157	N/A	0.0 MGL	6.5	0.48 NTU	AWWA BMP
186 MAGWOOD DR	HYD	MARE ISLAND STRAIT	1/16/13	1330-1340	112	N/A	0.0 MGL	6.5	0.64 NTU	AWWA BMP
1462 DELWOOD DR	HYD	MARE ISLAND STRAIT	1/16/13	1400-1410	142	N/A	0.0 MGL	6.5	1.08 NTU	AWWA BMP
172 MUIRWOOD PL	HYD	MARE ISLAND STRAIT	1/16/13	1540-1550	149	N/A	0.0 MGL	6.5	1.07 NTU	AWWA BMP
101 LAKEWOOD	HYD	MARE ISLAND STRAIT	1/17/13	1300-1310	149	N/A	0.0 MGL	6.5	.63 NTU	AWWA BMP
SPRINGS RD -LAKEWOOD	HYD	MARE ISLAND STRAIT	1/17/13	1430-1440	228	N/A	0.0 MGL	6.5	.77 NTU	AWWA BMP
AVAIN&SPRINGS RD	HYD	MARE ISLAND STRAIT	1/17/13	1530-1540	134	N/A	0.0 MGL	6.5	.82 NTU	AWWA BMP
2637 SPRINGS	HYD	MARE ISLAND STRAIT	1/18/13	1100-1110	157	N/A	0.0 MGL	6.5	0.72 NTU	AWWA BMP
201 OAKMORE CT	HYD	LAKE CHABOT	1/25/13	0920-0935	150	N/A	0.0 MGL	6.5	1.08 NTU	AWWA BMP
1212 ROLLINGWOOD	HYD	LAKE CHABOT	1/25/13	1110-1120	142	N/A	0.0 MGL	6.5	1.62 NTU	AWWA BMP
1314 ROLLINGWOOD	HYD	LAKE CHABOT	1/25/13	1320-1330	120	N/A	0.0 MGL	6.5	1.22 NTU	AWWA BMP
2550 SPRINGS RD	HYD	LAKE CHABOT	1/28/13	0935-0945	135	N/A	0.0 MGL	6.5	0.64 NTU	AWWA BMP
341 AVIAN DR	HYD	LAKE CHABOT	1/28/13	1105-1120	262	N/A	0.0 MGL	6.5	1.56 NTU	AWWA BMP
301 AVIAN DR	HYD	LAKE CHABOT	1/28/13	1350-1405	277	N/A	0.0 MGL	6.5	2.35 NTU	AWWA BMP
COLUMBUS 50' STH SPRINGS	HYD	LAKE CHABOT	1/28/13	1500-1505	67	N/A	0.0 MGL	6.5	1.54 NTU	AWWA BMP
1271 EUCALYPTUS DR	HYD	LAKE CHABOT	1/28/13	1605-1610	60	N/A	0.0 MGL	6.8	2.06 NTU	AWWA BMP
1367 EUCALYPTUS	HYD	LAKE CHABOT	1/29/13	0835-0855	164	N/A	0.0 MGL	6.5	2.046 NTU	AWWA BMP
1415 EUCALYPTUS	HYD	LAKE CHABOT	1/29/13	1005-1030	164	N/A	0.0 MGL	6.5	1.05 NTU	AWWA BMP
253 BOLTON WAY	HYD	LAKE CHABOT	1/29/13	1235-1250	157	N/A	0.0 MGL	6.5	0.85 NTU	AWWA BMP
303 BOLTON WAY	HYD	MARE ISLAND STRAIT	1/29/13	1505-1530	121	N/A	0.0 MGL	6.5	1.95 NTU	AWWA BMP
575 KNIGHTS CIR	HYD	MARE ISLAND STRAIT	1/30/13	0835-0850	164	N/A	0.0 MGL	6.5	1.95 NTU	AWWA BMP
753 KNIGHTS CIR	HYD	MARE ISLAND STRAIT	1/30/13	1025-1030	149	N/A	0.0 MGL	6.5	1.32 NTU	AWWA BMP
829 KNIGHTS CIR	HYD	MARE ISLAND STRAIT	1/30/13	1230-1250	119	N/A	0.0 MGL	6.5	1.40 NTU	AWWA BMP
FRONT OF 300 HILARY#179	HYD	MARE ISLAND STRAIT	1/30/13	1435-1445	142	N/A	0.0 MGL	6.5	2.31 NTU	AWWA BMP
897 KNIGHTS CIR	HYD	MARE ISLAND STRAIT	1/31/13	1100-1105	105	N/A	0.0 MGL	6.5	0.98 NTU	AWWA BMP
300 HILARY WAY APT 17	HYD	MARE ISLAND STRAIT	1/31/13	1310-1320	165	N/A	0.0 MGL	6.8	1.01 NTU	AWWA BMP
300 HILARY WAY APT 33	HYD	MARE ISLAND STRAIT	1/31/13	1450-1505	292	N/A	0.0 MGL	6.5	0.96 NTU	AWWA BMP

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300 HILARY WAY BLDG 153	HYD	LAKE CHABOT	2/5/13	0910-0925	202	N/A	0.0 MGL	6.8	0.89 NTU	AWWA BMP
ASCOT PKWY /HILARY WAY	HYD	LAKE CHABOT	2/5/13	1110-1120	120	N/A	0.0 MGL	6.8	0.77NTU	AWWA BMP
SOUTHPORT/ASCOTPKWY	HYD	LAKE CHABOT	2/5/13	1410-1425	37	N/A	0.0 MGL	6.5	1.24 NTU	AWWA BMP
ASCOT PKWY WST 2000 ASCOT	HYD	LAKE CHABOT	2/5/13	1419-1425	67	N/A	0.0 MGL	6.5	0.82 NTU	AWWA BMP
2000 ASCOT PKWY	HYD	LAKE CHABOT	2/7/13	0910-0915	67	N/A	0.0 MGL	6.5	0.78 NTU	AWWA BMP
2000 ASCOT PKWY /21/25	HYD	LAKE CHABOT	2/7/13	1040-1050	75	N/A	0.0 MGL	6.5	1.07 NTU	AWWA BMP
2000 ASCOT PKWY /26/28	HYD	LAKE CHABOT	2/7/13	1322-1330	172	N/A	0.0 MGL	6.5	1.32 NTU	AWWA BMP
2000 ASCOT PKY ACROSS /28	HYD	LAKE CHABOT	2/7/13	1414-1424	75	N/A	0.0 MGL	6.8	.44 NTU	AWWA BMP
2000 ASCOT PKWY	HYD	LAKE CHABOT	2/11/13	0927-0950	75	N/A	0.0 MGL	6.8	0.39 NTU	AWWA BMP
2000 ASCOT PKWY BLDG 33	HYD	LAKE CHABOT	2/11/13	1046-1104	142	N/A	0.0 MGL	6.5	2.31 NTU	AWWA BMP
ASCOT PKWY / HAWKINS	HYD	LAKE CHABOT	2/11/13	1458-1504	75	N/A	0.0 MGL	7.1	0.38 NTU	AWWA BMP
75" WST 2000 ASCOT PKWY	HYD	LAKE CHABOT	2/12/13	1040-1050	127	N/A	0.0 MGL	6.5	0.98 NTU	AWWA BMP
150"WST 2000 ASCOT PKWY	HYD	LAKE CHABOT	2/12/13	NA	97	N/A	0.0 MGL	6.5	0.63 NTU	AWWA BMP
501-509 BRITANNIA DR	HYD	LAKE CHABOT	2/12/13	NA	158	N/A	0.0 MGL	6.5	1.08 NTU	AWWA BMP
549-557 BRITANNIA DR	HYD	LAKE CHABOT	2/12/13	NA	82	N/A	0.0 MGL	6.5	0.98 NTU	AWWA BMP
398 HAWKINS / BRITANNIA	HYD	LAKE CHABOT	2/13/12	1330-1336	30	N/A	0.0 MGL	6.5	0.83 NTU	AWWA BMP
HAWKINS BETWEEN 301/323	HYD	LAKE CHABOT	2/13/12	1322-1337	60	N/A	0.0 MGL	6.5	0.89 NTU	AWWA BMP
629 BRITANNIA DR	HYD	LAKE CHABOT	2/21/13	1334-1354	179	N/A	0.0 MGL	6.5	1.78 NTU	AWWA BMP
BRITANNIA DR BETWN 701-725	HYD	LAKE CHABOT	2/21/13	1532-1543	179	N/A	0.0 MGL	6.8	0.05 NTU	AWWA BMP
226-222 HAWKINS ST	HYD	LAKE CHABOT	2/26/13	0940-0955	299	N/A	0.0 MGL	6.5	0.98 NTU	AWWA BMP
809-817 BRITANNIA DR	HYD	LAKE CHABOT	2/26/13	1055-1105	231	N/A	0.0 MGL	6.5	1.26 NTU	AWWA BMP
201 RAMSGATE WAY	HYD	LAKE CHABOT	2/26/13	1300-1315	345	N/A	0.0 MGL	6.5	1.40 NTU	AWWA BMP
460-468 SOUTHPORT	HYD	LAKE CHABOT	2/26/13	1500-1505	82	N/A	0.0 MGL	6.5	1.18NTU	AWWA BMP
107 RAMSGATE WAY	HYD	LAKE CHABOT	2/27/13	N/A	135	N/A	0.0 MGL	6.8	1.52	AWWA BMP
434-438 SOUTHPORT WAY	HYD	LAKE CHABOT	2/27/13	N/A	493	N/A	0.0 MGL	6.5	1.91 NTU	AWWA BMP
405 SOUTHGATE/ OXFORD CT	HYD	LAKE CHABOT	2/27/13	N/A	97	N/A	0.0 MGL	6.5	1.87NTU	AWWA BMP
RAMSGATE/ SOUTHPORT WAY	HYD	LAKE CHABOT	2/27/13	N/A	60	N/A	0.0 MGL	6.5	0.97 NTU	AWWA BMP
SOUTHPORT/ CANTERBURY	HYD	LAKE CHABOT	3/7/13	1328-1332	52	N/A	0.0 MGL	6.8	.54 NTU	AWWA BMP
CANTERBURY CIR 65-69	HYD	LAKE CHABOT	3/7/13	1418-1426	82	N/A	0.0 MGL	7.1	.66 NTU	AWWA BMP
29-33 CANTERBURY	HYD	LAKE CHABOT	3/8/13	0940-0950	127	N/A	0.0 MGL	6.5	1.56 NTU	AWWA BMP
CANTERBURY / BRIGHTON	HYD	LAKE CHABOT	3/8/13	1135-1145	187	N/A	0.0 MGL	6.5	1.40 NTU	AWWA BMP
26-28 BRIGHTON DR	HYD	LAKE CHABOT	3/8/13	1340-1350	142	N/A	0.0 MGL	6.5	1.32 NTU	AWWA BMP
41-51 BRIGHTON DR	HYD	LAKE CHABOT	3/8/13	1420-1430	105	N/A	0.0 MGL	6.5	0.71 NTU	AWWA BMP
2000 ASCOT PKWY BLDG 35	HYD	LAKE CHABOT	3/12/13	1340-1345	45	N/A	0.0 MGL	6.5	1.36 NTU	AWWA BMP
BRIGHTON / 273 CANTERBURY	HYD	LAKE CHABOT	3/12/13	1422-1430	60	N/A	0.0 MGL	6.5	1.81 NTU	AWWA BMP
244 SOUTHPORT	HYD	LAKE CHABOT	3/12/13	1534-1539	37	N/A	0.0 MGL	6.5	1.92 NTU	AWWA BMP
201-225 BRIGHTON DR	HYD	LAKE CHABOT	3/13/13	0915-0930	120	N/A	0.0 MGL	6.5	1.39 NTU	AWWA BMP
WICKHAM ST / 304 BRIGHTON	HYD	LAKE CHABOT	3/13/13	1100-1115	127	N/A	0.0 MGL	6.5	0.88 NTU	AWWA BMP
11900 ASCOT PKWY / BLDG 17	HYD	LAKE CHABOT	3/13/13	1300-1310	90	N/A	0.0 MGL	6.5	0.79 NTU	AWWA BMP
86-87 OXFORD CT	HYD	LAKE CHABOT	3/13/13	1440-1455	112	N/A	0.0 MGL	6.5	1.85 NTU	AWWA BMP
YORK ST / NAPA ST	HYD	MARE ISLAND STRAIT	3/13/13	1150-1600	82	N/A	0.0 MGL	6.5	0.99 NTU	AWWA BMP
YORK ST/EL DORADO ST	HYD	MARE ISLAND STRAIT	3/14/13	0830-0840	97	N/A	0.0 MGL	6.5	1.79 NTU	AWWA BMP
YORK ST/ALAMEDA ST	HYD	MARE ISLAND STRAIT	3/14/13	0950-1000	142	N/A	0.0 MGL	6.5	1.43 NTU	AWWA BMP
YORK ST/MONTEREY ST	HYD	MARE ISLAND STRAIT	3/14/13	1250-1300	172	N/A	0.0 MGL	6.5	1.44 NTU	AWWA BMP
1037 YORK ST	HYD	MARE ISLAND STRAIT	3/14/13	1400-1410	90	N/A	0.0 MGL	6.5	0.87 NTU	AWWA BMP
YORK ST/AMADOR ST	HYD	MARE ISLAND STRAIT	3/14/13	1500-1510	120	N/A	0.0 MGL	6.5	1.32 NTU	AWWA BMP
AMADOR ST / GEORGIA	HYD	CARQUINEZ STRAIT	3/20/13	0918-0920	45	N/A	0.0 MGL	6.5	1.26 NTU	AWWA BMP
1040 GEORGIA ST	HYD	CARQUINEZ STRAIT	3/20/13	1002-1006	45	N/A	0.0 MGL	6.8	1.32 NTU	AWWA BMP
GEORGIA ST/ MONTEREY	HYD	CARQUINEZ STRAIT	3/20/13	1326-1330	30	N/A	0.0 MGL	6.5	1.31 NTU	AWWA BMP
GEORGIA ST/ ALAMEDA	HYD	CARQUINEZ STRAIT	3/20/13	1416-1420	45	N/A	0.0 MGL	6.8	1.65 NTU	AWWA BMP
GEORGIA / EL DORADO	HYD	CARQUINEZ STRAIT	3/20/13	15-05-1510	60	N/A	0.0 MGL	6.8	1.97 NTU	AWWA BMP
VIRGINIA / NAPA/S/W CORNER	HYD	MARE ISLAND STRAIT	3/21/13	10 MIN	150	N/A	0.0 MGL	6.5	2.46 NTU	AWWA BMP
VIRGINIA / NAPA / N/W CORNER	HYD	MARE ISLAND STRAIT	3/21/13	5 MIN	68	N/A	0.0 MGL	6.8	0.87 NTU	AWWA BMP
VIRGINIA / EL DORADO	HYD	MARE ISLAND STRAIT	3/21/13	10 MIN	127	N/A	0.0 MGL	6.8	1.16 NTU	AWWA BMP
VIRGINIA / ALAMEDA	HYD	MARE ISLAND STRAIT	3/21/13	10 MIN	120	N/A	0.0 MGL	6.8	0.95 NTU	AWWA BMP
1045 VIRGINIA ST	HYD	MARE ISLAND STRAIT	4/4/13	5 MIN	66	N/A	0.0 MGL	6.5	0.83 NTU	AWWA BMP
VIRGINIA / AMADOR ST	HYD	MARE ISLAND STRAIT	4/4/13	10 MIN	66	N/A	0.0 MGL	6.5	1.33NTU	AWWA BMP
100-104 GLENN	HYD	MARE ISLAND STRAIT	4/4/13	15 MIN	90	N/A	0.0 MGL	6.8	1.48 NTU	AWWA BMP
AMADOR ST / CAPITOL	HYD	MARE ISLAND STRAIT	4/4/13	1330-1335	45	N/A	0.0 MGL	6.8	2.18 NTU	AWWA BMP

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500 AMADOR ST	HYD	MARE ISLAND STRAIT	4/4/13	1510-1520	150	N/A	0.0 MGL	6.8	1.58 NTU	AWWA BMP
NAPA ST / GEORGIA	HYD	MARE ISLAND STRAIT	4/8/13	0900-0905	52	N/A	0.0 MGL	6.5	1.65 NTU	AWWA BMP
VIRGINIA ST / MONTEREY	HYD	MARE ISLAND STRAIT	4/8/13	1010-1015	45	N/A	0.0 MGL	6.5	0.87 NTU	AWWA BMP
1155 CAPITOL ST	HYD	MARE ISLAND STRAIT	4/8/13	1140-1145	45	N/A	0.0 MGL	6.5	0.70 NTU	AWWA BMP
MONTEREY ST/ CAPITOL	HYD	MARE ISLAND STRAIT	4/8/13	1350-1355	82	N/A	0.0 MGL	6.5	0.57 NTU	AWWA BMP
CAPITOL ST / ALAMEDA	HYD	MARE ISLAND STRAIT	4/8/13	1455-1500	60	N/A	0.0 MGL	6.5	0.92 NTU	AWWA BMP
EL DORADO ST / CAPITOL	HYD	MARE ISLAND STRAIT	4/9/13	0910-0915	82	N/A	0.0 MGL	6.5	0.72 NTU	AWWA BMP
ELDORADO ST / CAPITOL	HYD	MARE ISLAND STRAIT	4/9/13	1050-1055	67	N/A	0.0 MGL	6.5	0.73 NTU	AWWA BMP
CAPITOL ST/ NAPA	HYD	MARE ISLAND STRAIT	4/9/13	1330-1335	75	N/A	0.0 MGL	6.8	0.84 NTU	AWWA BMP
NAPA ST/ CAPITOL	HYD	MARE ISLAND STRAIT	4/9/13	1450-1455	67	N/A	0.0 MGL	6.5	0.49 NTU	AWWA BMP
CAROLINA ST / NAPA	HYD	MARE ISLAND STRAIT	4/9/13	1520-1525	67	N/A	0.0 MGL	6.5	0.66 NTU	AWWA BMP
EL DORADO / CAROLINA	HYD	MARE ISLAND STRAIT	4/10/13	1122-1128	22	N/A	0.0 MGL	6.8	0.98 NTU	AWWA BMP
CAROLINA / EL DORADO	HYD	MARE ISLAND STRAIT	4/10/13	1332-1350	120	N/A	0.0 MGL	6.5	3.49 NTU	AWWA BMP
CAROLINA / ALAMEDA	HYD	MARE ISLAND STRAIT	4/10/13	1419-1423	60	N/A	0.0 MGL	6.8	0.87 NTU	AWWA BMP
NAPA ST@YORK ST	HYD	MARE ISLAND STRAIT	4/112013	1000-1005	53	N/A	0.0 MGL	6.8	0.56 NTU	AWWA BMP
CAROLINA ST@MONTEREY ST	HYD	MARE ISLAND STRAIT	4/112013	1135-1140	60	N/A	0.0 MGL	6.5	0.87 NTU	AWWA BMP
1124 CAROLINA	HYD	MARE ISLAND STRAIT	4/15/13	0854-0901	75	N/A	0.0 MGL	6.8	0.78 NTU	AWWA BMP
1305 SOLANO	HYD	MARE ISLAND STRAIT	4/15/13	0930-0950	90	N/A	0.0 MGL	6.5	0.50 NTU	AWWA BMP
1301 GEORGIA ST	HYD	MARE ISLAND STRAIT	4/15/13	1332-1336	45	N/A	0.0 MGL	6.8	0.59 NTU	AWWA BMP
CONTRA COSTA / VRIGINIA	HYD	MARE ISLAND STRAIT	4/15/13	1516-1524	90	N/A	0.0 MGL	6.5	0.66 NTU	AWWA BMP
SOLANO / MINTH ST	HYD	MARE ISLAND STRAIT	4/16/13	0850-0900	60	N/A	0.0 MGL	6.5	1.33NTU	AWWA BMP
1401 RICE ST	HYD	MARE ISLAND STRAIT	4/16/13	0956-1010	75	N/A	0.0 MGL	6.8	1.15 NTU	AWWA BMP
201 CENTRAL	HYD	MARE ISLAND STRAIT	4/16/13	1120-1132	67	N/A	0.0 MGL	6.8	0.73 NTU	AWWA BMP
1505 GEORGIA / WALLACE	HYD	MARE ISLAND STRAIT	4/16/13	1350-1354	37	N/A	0.0 MGL	6.8	0.56 NTU	AWWA BMP
GORDON / WALLACE	HYD	MARE ISLAND STRAIT	4/16/13	1450-1510	142	N/A	0.0 MGL	6.8	1.44 NTU	AWWA BMP
301 CENTRAL /AVE	HYD	MARE ISLAND STRAIT	4/18/13	0900-0915	112	N/A	0.0 MGL	6.8	1.59 NTU	AWWA BMP
PERKINS / GEORGIA	HYD	MARE ISLAND STRAIT	4/18/13	1356-1400	60	N/A	0.0 MGL	6.8	0.69 NTU	AWWA BMP
SOLANO AVE ACROSS 1711	HYD	MARE ISLAND STRAIT	4/18/13	11453-1500	60	N/A	0.0 MGL	6.8	1.15 NTU	AWWA BMP
1429 RYDER / WALLACE	HYD	MARE ISLAND STRAIT	4/22/13	1030-1045	307	N/A	0.0 MGL	6.5	1.75 NTU	AWWA BMP
ACROSS 1516 SOLANO/WALLACE	HYD	MARE ISLAND STRAIT	4/22/13	1300-1305	25	N/A	0.0 MGL	6.8	0.81 NTU	AWWA BMP
1515 SOLANO / TUOLUMNE	HYD	MARE ISLAND STRAIT	4/22/13	1440-1445	90	N/A	0.0 MGL	6.8	1.14 NTU	AWWA BMP
103 CENTRAL / SOLANO	HYD	MARE ISLAND STRAIT	4/22/13	1540-1545	45	N/A	0.0 MGL	6.8	0.64 NTU	AWWA BMP
129 GLEASON	HYD	MARE ISLAND STRAIT	4/23/13	0850-0905	75	N/A	0.0 MGL	6.8	2.18 NTU	AWWA BMP
1721 BEORGIA	HYD	MARE ISLAND STRAIT	4/23/13	1110-1115	37	N/A	0.0 MGL	6.8	1.38 NTU	AWWA BMP
GLEASON / 12TH ST	HYD	MARE ISLAND STRAIT	4/23/13	1326-1400	30	N/A	0.0 MGL	6.8	0.58 NTU	AWWA BMP
1823 GEORGIA	HYD	MARE ISLAND STRAIT	5/6/13	0900-0910	97	N/A	0.0 MGL	6.8	0.29 NTU	AWWA BMP
133 12TH ST	HYD	MARE ISLAND STRAIT	5/6/13	1000-1011	105	N/A	0.0 MGL	7.1	1.98 NTU	AWWA BMP
CAPITOL / TUOLUMNE	HYD	MARE ISLAND STRAIT	5/6/13	1300-1306	67	N/A	0.0 MGL	7.1	1.82 NTU	AWWA BMP
1933 GEORGIA ST	HYD	MARE ISLAND STRAIT	5/8/13	0855-0900	52	N/A	0.0 MGL	6.8	0.18 NTU	AWWA BMP
241 RONEY / RICE ST	HYD	MARE ISLAND STRAIT	5/8/13	1110-1125	127	N/A	0.0 MGL	6.8	2.19 NTU	AWWA BMP
1833 SOLANO	HYD	MARE ISLAND STRAIT	5/8/13	1245-1305	150	N/A	0.0 MGL	6.8	0.48 NTU	AWWA BMP
CAROLINA / CALAVERAS	HYD	MARE ISLAND STRAIT	5/9/13	1025-1040	187	N/A	0.0 MGL	6.8	1.05 NTU	AWWA BMP
CAROLINA / TUOLUMNE	HYD	MARE ISLAND STRAIT	5/8/13	1545-1552	90	N/A	0.0 MGL	6.5	2.40 NTU	AWWA BMP
233 CAMPBELL	HYD	MARE ISLAND STRAIT	5/9/13	1310-1316	67	N/A	0.0 MGL	7.1	0.43 NTU	AWWA BMP
2019 GEORGIA	HYD	MARE ISLAND STRAIT	5/13/13	1000-1016	82	N/A	0.0 MGL	6.8	0.26 NTU	AWWA BMP
219 - 225 MAYO	HYD	MARE ISLAND STRAIT	5/13/13	1130-1138	90	N/A	0.0 MGL	7.1	0.59 NTU	AWWA BMP
241 MAYO / RICE	HYD	MARE ISLAND STRAIT	5/13/13	1330-1334	90	N/A	0.0 MGL	7.1	0.92 NTU	AWWA BMP
253 13TH ST	HYD	MARE ISLAND STRAIT	5/13/13	1500-1506	67	N/A	0.0 MGL	7.1	0.81 NTU	AWWA BMP
1799 SOLANO AVE / 12TH ST	HYD	MARE ISLAND STRAIT	5/14/13	0850-0855	127	N/A	0.0 MGL	6.8	0.22 NTU	AWWA BMP
1959 CAROLINA / SOLANO	HYD	MARE ISLAND STRAIT	5/14/13	1035-1040	90	N/A	0.0 MGL	6.8	0.58 NTU	AWWA BMP
2127 GEORGIA ST / 13TH ST	HYD	MARE ISLAND STRAIT	5/14/13	1130-1135	53	N/A	0.0 MGL	6.8	1.18 NTU	AWWA BMP
269 CAMPBELL	HYD	MARE ISLAND STRAIT	5/17/13	1235-1250	127	N/A	0.0 MGL	7.1	0.33 NTU	AWWA BMP
333 CAMPBELL	HYD	MARE ISLAND STRAIT	5/29/13	0952-0956	52	N/A	0.0 MGL	6.8	0.57 NTU	AWWA BMP
2221 GEORGIA ST	HYD	MARE ISLAND STRAIT	5/29/13	1326-1330	60	N/A	0.0 MGL	6.8	0.31 NTU	AWWA BMP
25 MADIGAN	HYD	MARE ISLAND STRAIT	5/29/13	1404-1408	60	N/A	0.0 MGL	6.8	0.67 NTU	AWWA BMP
PHELAN AVE	HYD	MARE ISLAND STRAIT	5/30/13	0920-0925	52	N/A	0.0 MGL	6.8	0.84 NTU	AWWA BMP
PHELAN AVE / RICE AVE	HYD	MARE ISLAND STRAIT	5/30/13	1110-1115	82	N/A	0.0 MGL	6.8	0.53 NTU	AWWA BMP
401-407 14 TH ST / RICE AVE	HYD	MARE ISLAND STRAIT	5/30/13	1310-1320	105	N/A	0.0 MGL	6.5	0.87 NTU	AWWA BMP
GEORGIA ST / 14TH ST	HYD	MARE ISLAND STRAIT	6/3/13	1407-1414	127	N/A	0.0 MGL	7.1	1.07 NTU	AWWA BMP

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MADIGAN / 14TH ST	HYD	MARE ISLAND STRAIT	6/3/13	1532-1536	45	N/A	0.0 MGL	7.1	0.29 NTU	AWWA BMP
1340 VIRGINIA ST	HYD	MARE ISLAND STRAIT	6/4/13	1030-1035	52	N/A	0.0 MGL	6.8	0.29 NTU	AWWA BMP
219 14 TH ST	HYD	MARE ISLAND STRAIT	6/5/13	0840-0850	165	N/A	0.0 MGL	6.8	0.31 NTU	AWWA BMP
101 MEDIGAN /CURRY	HYD	MARE ISLAND STRAIT	6/5/13	0950-0955	60	N/A	0.0 MGL	6.8	0.41 NTU	AWWA BMP
231 CURRY AVE	HYD	MARE ISLAND STRAIT	6/5/13	1050-1055	97	N/A	0.0 MGL	6.8	0.95 NTU	AWWA BMP
910 LINCOLN RD EAST	HYD	MARE ISLAND STRAIT	6/19/13	1310-1315	53	N/A	0.0 MGL	7.1	0.65 NTU	AWWA BMP
438 CAROLINA ST / GERNNAN	HYD	MARE ISLAND STRAIT	6/19/13	1455-1500	60	N/A	0.0 MGL	7.1	0.54 NTU	AWWA BMP
HILTON / CAROLINA	HYD	MARE ISLAND STRAIT	6/25/13	1006-1010	30	N/A	0.0 MGL	7.1	0.99 NTU	AWWA BMP
SHELDON / CAROLINA	HYD	MARE ISLAND STRAIT	6/25/13	1100-1106	45	N/A	0.0 MGL	7.1	1.40 NTU	AWWA BMP
VERVAIS / CAROLINA	HYD	MARE ISLAND STRAIT	6/25/13	1400-1405	37	N/A	0.0 MGL	7.1	1.45 NTU	AWWA BMP
WARFORD / CAROLINA	HYD	MARE ISLAND STRAIT	6/25/13	1530-1535	37	N/A	0.0 MGL	7.1	1.92 NTU	AWWA BMP
524 TREGASKIS AVE	HYD	MARE ISLAND STRAIT	6/26/13	0940-0950	97	N/A	0.0 MGL	6.8	1.10 NTU	AWWA BMP
TREGASKIS / CHESLEY	HYD	MARE ISLAND STRAIT	6/26/13	1100-1105	45	N/A	0.0 MGL	7.1	1.43 NTU	AWWA BMP
141 CHESLEY	HYD	MARE ISLAND STRAIT	6/26/13	1330-1335	52	N/A	0.0 MGL	7.1	0.88 NTU	AWWA BMP
1013 WESTERN AVE	HYD	MARE ISLAND STRAIT	6/26/13	1500-1504	37	N/A	0.0 MGL	7.1	0.92	AWWA BMP

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ALABAMA ST	2" HYDRANT	MI STRAIGHT	7/2/12	30 MIN	125	4.1	0.3	7.3	YES	AWWA BMP	2:00 PM
EBBETS PASS	6" MAIN BREAK	MI STRAIGHT	7/2/12			20			YES	AWWA	
145 STANFORD	8" MAIN BREAK	MI STRAIGHT	7/2/12			20			YES	AWWA	
119 BEGONIA	LEAK	MI STRAIGHT	7/3/12	15 MIN	2500	175	1.9	6.89	0.09	AWWA BMP	7:30 AM
101 SEACREST	MAIN BREAK	MI STRAIGHT	7/16/12	15 MIN	5000	350	1.07	6.8	2.37	AWWA BMP	5:00 AM
111 13TH ST	4" PIP REPAIR	MI STRAIGHT	7/18/12	2 HRS	2400	20	0.77	6.8	2	AWWA BMP	11:00 AM
641 RAIL ROAD	8" MAIN BREAK	MI STRAIGHT	9/10/12	30 MIN	30,000	1000	1.9	7.2	0.9	AWWA BMP	7:00 AM
626 BROADWAY`	4" MAIN BREAK	MI STRAIGHT	9/15/12	2.0 HRS	324,000	2700			NO	AWWA BMP	8:00 AM
136 PRIMROSE LN	SERV BREAK	MI STRAIGHT	9/18/12	4.5 HRS	1350	5	2.9	7.2	0.9	AWWA	
174 CALIFORNIA	6" MAIN BREAK	MI STRAIGHT	9/18/12	1.5 HRS	136440	1516			YES	AWWA BMP	10:30 PM
341 INVERNESS	8" MAIN BREAK	MI STRAIGHT	9/19/12	7 DAYS	50400	5			YES	AWWA BMP	7:30 AM
480 MOONRAKER	SERV BREAK	CARQUINEZ	9/19/12	3 HRS	900	5	0.4			AWWA	
160 SPINNAKER WAY	SERV BREAK	CARQUINEZ	9/19/12	3 HRS	1800	10	0.4			AWWA BMP	8:30 AM
101 ALBATROSSE	HIT HYDRANT	MI STRAIGHT	9/20/12	5 MIN	200	40	0.4			AWWA BMP	7:30 AM
125 SUSAN DR	3/4" SERV	MI STRAIGHT	9/20/12	4.5 HRS	135	0.5	1.2	7.2	0.9	AWWA BMP	7:30 AM
401 HEATHER CT	3/4" SERV	MI STRAIGHT	9/24/12	7.0 HRS	42000	100	1.9	7.2	0.9	AWWA BMP	7:30 AM
444 ILLINOIS	3/4 SERV REPAIR	MI STRAIGHT	9/27/12	7.0 HRS	210	0.05	1.9	7.2	0.9	AWWA BMP	7:30 AM
BARKLEY CT	BLOW OFF	CARQUINEZ	9/27/12	10 MIN	200	20	1			AWWA BMP	7:30 AM
MOONRAKER CT	BLOW OFF	MI STRAIGHT	10/2/12	10 MIN	200	20	0.3	7.2	YES	AWWA BMP	3:00 PM
526 ALMOND AVE	4" MAIN BREAK	MI STRAIGHT	10/3/12		3000					AWWA	
67 SANDY DR	HYD, PUMP	CARQUINEZ	10/10/12	45 MIN	720	16	0.5	7.3	YES	AWWA BMP	11:00 AM
ADM CALLAGHAN	2" PUMP		10/11/12		500		0.1			AWWA	
ESSEX CT	B/O SERVICES	CARQUINEZ	10/16/12	3 HRS	1800	10	0.8			AWWA	8:30 AM
SPINNAKER 124, 125, 113	2" HYD PORT	MI STRAIGHT	10/16/12	10 MIN	6000	600	0.4	7.3	YES	AWWA	3:00 PM
157 BIRCH ST	3/4" PLASTIC SERV	MI STRAIGHT	10/18/12	15 MIN	750	50	1			AWWA	
TERRYBROOK LN	3/4" PLASTIC SERV	MI STRAIGHT	10/22/12	20 MIN	50	2.5		8.6			8:15 AM
916 PENNSYLVANIA	2" B/O	MI STRAIGHT	10/22/12	20 MIN	400	20	0.6			AWWA	7:30 AM
MAINE ST	4" VALVE	MI STRAIGHT	10/23/12	4.0 HRS	4320	18	0.4	6.1	YES	AWWA BMP	11:00 AM
315 PADDLEWHEEL	HYD, 8" BRK, 2" PUMP	MI STRAIGHT	10/25/12	1.0 HR	200	12000	0.3	7.3	YES	AWWA BMP	11:00 AM
SHAMROCK CT		MI STRAIGHT	10/30/12	10 MIN	200	20	0.6			AWWA BMP	7:30 AM
112 BENJAMIN	2: PUMP	MI STRAIGHT	10/30/12	1.0 HR	2400	40	0.4	6.3	YES	AWWA BMP	2:00 PM
SPINNAKER-100 BLK	2" HYD PORT	CARQUINEZ	11/1/12	5 MIN	300	5	0.3	8.4	YES	AWWA BMP	2:00 PM
NEBRASKA-800 BLK	2" HYD PORT	MI STRAIGHT	11/5/12	10 MIN	300	30	0.4	7.3	YES	AWWA BMP	4:30 PM

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MOONRAKER-432 & 440	3/4" SERV	MI STRAIGHT	11/5/12	5 HRS	30000	100	0.9	7.2	1.2	AWWA BMP	8:00 AM
203 NAVONE	6" CIP	MI STRAIGHT	11/5/12	5 HRS							
627 AZUAR DRIVE-MI	12" CIP	MI STRAIGHT	11/7/12	7.0 HRS	1500	0.5	1.9	7.2	0.9	AWWA BMP	8:00 AM
185 SPINNAKER	3/4" SERV	MI STRAIGHT	11/10/12	3 HRS	900	5	0.09	7.2	1.6	AWWA BMP	8:00 AM
200 WOODSON WAY	8" PIP	MI STRAIGHT	11/14/12	7.5 HRS	100,000	1000	0.09	7.2	1.3	AWWA	7:30 AM
23 PUEBLO WAY	DISCHARGE	CARQUINEZ	11/14/12	0.5 HRS	20	60	0.1	6.3	YES	AWWA BMP	11:30 AM
MAINE ST (1000 BLOCK)	6" MAIN BREAK	MI STRAIGHT	11/20/12	2 HRS	960	8	1.2	7.2	0.2	AWWA BMP	8:00 AM
396 MONNRAKER		CARQUINEZ	11/26/12	4 HRS	1200	5	0.5			AWWA BMP	7:30 AM
100 NORDEN CT	COPPER SERV	MI STRAIGHT	11/26/12	15 MIN	150	10	0.8			AWWA BMP	1:00 PM
1132 OAKWOOD AVE	4" PIP	MI STRAIGHT	12/2/12	5 HRS	249900	833	0.9	7.2	1.9	AWWA BMP	8:00 AM
1024 CASTLEWOOD DR	6" AC PIPE	MI STRAIGHT	12/2/12	10 HRS	249000	415	0.9	7.2	1.2	AWWA BMP	8:00 AM
GRANVILLE @ MAPLE	4" MAIN BREAK	MI STRAIGHT	12/8/12	4 HRS	3600	15	0.8			AWWA BMP	8:30 AM
NEBRASKA ST	2" BREAK	MI STRAIGHT	12/11/12	3 HRS	2160	12	0.4	6.3	YES	AWWA BMP	1:30 PM
200 KEN ST	2" BLOW OFF	MI STRAIGHT	12/12/12	5 MIN	150	30	0.3	7.3	YES	AWWA BMP	11:00 AM
GILCREST AVE-432-436	8" MAIN REPL	CARQUINEZ	12/18/12	30 MIN	900	30	0.8			AWWA BMP	9:00 AM
400 DIANA	2" PORT @ HYD	MI STRAIGHT	12/19/12	30 MIN	1200	40	0.4	6.5	YES	AWWA BMP	12:30 PM
BW WILLIAMS	4" MAIN BREAK	MI STRAIGHT	12/20/12	40 MIN	400	10	1			AWWA BMP	7:30 AM
SONOMA @ PENNSYLVANIA	4" MAIN BREAK	MI STRAIGHT	12/20/12	2 HRS	12000	100	1.6	7.2	0.9	AWWA BMP	6:00 PM
199 CANDY	BROKEN SERV		12/21/12				0.9	7.2	1.6	AWWA BMP	7:30 AM
3021 WEBB ST	4" PIP	MI STRAIGHT	12/24/12								
135 ARAGON	6" MAIN BREAK	CARQUINEZ	12/27/12	1 HR	900	15	1			AWWA BMP	7:30 AM
791 PUEBLO	6" MAIN BREAK	MI STRAIGHT	12/31/12	2.5 HRS	2250	15			YES	AWWA BMP	11:30 PM
185 KIRKWOOD CT	4" MAIN BREAK	CARQUINEZ	12/31/12	20 MIN	200	10	0.8			AWWA BMP	12:30 PM
701 VALLE VISTA	4" MAIN BREAK	MI STRAIGHT	1/1/13	6.5 HRS	7800	20			YES	AWWA BMP	6:00 AM
2835 GEORGIA ST	4" CIP	MI STRAIGHT	1/4/13	5 HRS	150	0.5	1.9	7.2	0.9	AWWA BMP	7:30 AM
721 STATE ST	6" MAIN BREAK	MI STRAIGHT	1/5/13	1 HR	3000	50				AWWA BMP	7:30 AM
501 LEMON ST	6" PIP	MI STRAIGHT	1/6/13	7 HRS	2100	5	0.9	7.2	1.2	AWWA BMP	3:00 PM
154 12TH ST	6" DIP	MI STRAIGHT	1/7/13	4.5 HRS	405	1.5	0.9	7.2	1.2	AWWA BMP	7:30 AM
171 MEADOWS	3/4" SERV	MI STRAIGHT	1/7/13	4.5 HRS	135	0.5	0.9	7.2	1.2	AWWA BMP	7:30 AM
KEN CT	BLOW OFF	MI STRAIGHT	1/9/13	15 MIN	150	10	0.2	7.3	YES	AWWA BMP	9:00 AM
WALMART-SONOMA BLVD	6" HYDRANT	MI STRAIGHT	1/10/13	1 HR	45000	750		7.05		AWWA BMP	7:00 AM
161 DE PAUL	8" DIP	MI STRAIGHT	1/10/13	7 HRS	210	0.5	1.2	7.2	1.6	AWWA BMP	7:30 AM
196 JASON CT	3/4" SERV	MI STRAIGHT	1/14/13	50 MIN	10	0.2	1.9	7.2	0.3	AWWA BMP	7:30 AM

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2937 BURNETTE ST	2" PUMP	MI STRAIGHT	1/22/13	1 HR	1200	20	0.3	6.3	YES	AWWA BMP	10:30 AM
105 GRANVILLE	4" MAIN BREAK	MI STRAIGHT	1/23/13	20 MIN	200	10	0.8			AWWA BMP	2:30 PM
CAPITOL ST	HYDRANT/2" PUMP	MI STRAIGHT	1/23/13	30 MIN	1500	30	0.4	6.2	YES	AWWA BMP	8:00 AM
COSTCO-198 PLAZA DR	6" HYDRANT	MI STRAIGHT	1/28/13	1 HR	45000	750		7.05		AWWA BMP	6:00 AM
GEORGIA & RUSSELL	6" HYDRANT	MI STRAIGHT	1/30/13	30 MIN	22500	750		7.05		AWWA BMP	9:15 AM
WELLFLEET	6" HYDRANT	CARQUINEZ	1/30/13	1 HR	45000	750		7.05		AWWA BMP	7:00 PM
40 OLD WILSON AVE	10" MAINBREAK	MI STRAIGHT	1/30/13	3 HRS	9000	50	1			AWWA BMP	7:30 AM
172 TEAL CT	2" PUMP	MI STRAIGHT	1/30/13	1 HR	1200	20	0.3	6.3	YES	AWWA BMP	10:00 AM
230 SAGE ST	HIT HYDRANT	MI STRAIGHT	2/1/13	45 MIN	55575	1235	0.8			AWWA	
6 LOS CERRITOS	HIT HYDRANT	MI STRAIGHT	2/1/13	30 MIN	21600	720	0.9			AWWA	
300 HILLARY WAY	6" VALVE BONNET	CARQUINEZ	2/1/13	16 HRS	960	1	7.05			AWWA BMP	8:00 AM
111 FRESNO ST	4" CIP	MI STRAIGHT	2/3/13	5 HRS	30000	100	0.09	7.2	1.9	AWWA BMP	8:00 AM
KENTUCKY @ EL DORADO	2" PORT @ HYD	MI STRAIGHT	2/5/13	1 HR	2400	40	0.5	7.1	YES	AWWA BMP	8:30 AM
GREENWOOD @ HEARTWOOD	8" MAIN BREAK	CARQUINEZ	2/13/13	1 HR	3000	50	1			AWWA BMP	1:00 PM
GRANVILLE @ MAPLE	4" VALVE	CARQUINEZ	2/14/13	3 HRS	5400	30	1			AWWA BMP	7:30 AM
900 MAPLE / GRANVILLE	2" PUMP	MI STRAIGHT	2/25/13	2 HRS	2400	20	0.1		YES	AWWA BMP	8:00 AM
GRANITE CT	2" BLOW OFF	MI STRAIGHT	2/26/13	10 MIN	500	50	0.3	6.6	YES	AWWA BMP	8:37 AM
ALAMEDA/CAPITOL	4" MAINBREAK	MI STRAIGHT	3/1/13	2 HRS	1200	10	0.8			AWWA BMP	9:00 AM
3272 SONOMA BLVD	6" BAND	MI STRAIGHT	3/6/13	2 HRS	4800	40	0.4	6.3	YES	AWWA BMP	8:00 AM
30 CANTERBURY	2" PUMP	MI STRAIGHT	3/6/13	1 HR	2400	40	0.4	7.7	YES	AWWA BMP	8:00 AM
509 TEMPLE WAY	3/4" COPPER SVC	MI STRAIGHT	3/7/13	32 HRS	1920	1				AWWA	
1041 ADM CALLAGHAN	2" PUMP	MI STRAIGHT	3/8/13	1 HR	3600	60	0.5	6.3	YES	AWWA BMP	9:00 AM
903 VIRGINIA	MAIN BREAK	MI STRAIGHT	3/11/13	72 MIN	4320	1				AWWA	
3130 REDWOOD ST	2" BLOWOFF	MI STRAIGHT	3/13/13	15 MIN	600	40	0.6	6.3	YES	AWWA BMP	2:05 PM
KEN CT	2" BLOW OFF	MI STRAIGHT	3/19/13	20 MIN	1000	50	0.5	6.1	YES	AWWA BMP	8:00 AM
SACRAMENTO ST	HYDRANT	MI STRAIGHT	3/26/13	10 MIN	500	50	0.3	6.5	YES	AWWA BMP	3:15 PM
772 AUBURN CT	2" PUMP	MI STRAIGHT	4/11/13	30 MIN	1350	45	0.1	4.3	YES	AWWA BMP	7:15 PM
417 MEADOWS DRIVE	3/4" SERVICE	MI STRAIGHT	4/15/13	20 MIN	400	20	0.8			AWWA BMP	7:30 AM
GORDON VLY RD @ GRAPEVINE	24" MAIN BREAK	CREEK	4/23/13	1.0 HR	2400	40	1			AWWA BMP	7:30 AM
MARE ISLAND CAUSEWAY	MAIN BREAK	MI STRAIGHT	4/23/13	2.5 HRS	75000	500	0.8	7.1	NO	AWWA BMP	5:30 AM
1060 MADRONE	3" HYD PORT	MI STRAIGHT	4/24/13	.5 HR	450	15	0.8	8.1	YES	AWWA BMP	10:00 AM
131 EDGEMONT	4" MAIN BREAK	MI STRAIGHT	4/24/13	2 HRS	3600	30	0.8			AWWA BMP	12:30 PM
129 GLEASON AVE	NEW HYD-6" VAL	CARQUINEZ	4/25/13	1 HR	1200	20	0.8			AWWA BMP	7:30 AM

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IRENE DRIVE	2" HYD PORT	MI STRAIGHT	4/29/13	10 MIN	450	45	0.5	6.3	YES	AWWA BMP	11:30 AM
116 GARY CIRCLE	3/4" COPPER SVC	CARQUINEZ	4/29/13	30 MIN	1500	50	1			AWWA BMP	12:30 PM
489 QUARTZ LN	PUMP HYD	MI STRAIGHT	5/9/13	1 HR	2100	35	0.6	7.1	YES	AWWA BMP	11:41 AM
1605 SOLANO	6" MAIN BREAK	MI STRAIGHT	5/12/13	16 HRS	96000	100	0.9	7	1.9	AWWA BMP	2:00 AM
MARE ISLAND WY/MAINE	HYDRANT	MI STRAIGHT	5/13/13	2 HRS	12000	100	0.9	7.2	1.2	AWWA BMP	5:10 PM
MARE ISLAND WAY	2" HYD PORT	MI STRAIGHT	5/15/13	15 MIN	600	40	0.5	7.3	YES	AWWA BMP	11:00 AM
REIS & LAUREL	2" PUMP	MI STRAIGHT	5/20/13	30 MIN	1200	40	0.4		YES	AWWA BMP	8:43 AM
ILLINOIS & NAPA	4" MAIN BREAK	MI STRAIGHT	5/22/13	45 MIN	2700	60	0.8			AWWA BMP	5:00 PM
14 FRESNO ST	4" CIP	MI STRAIGHT	5/23/13	4.5 HRS	1350	5	1.9	7.2	0.09	AWWA BMP	5:30 PM
1394 JAMESON CYN	14" DIP	MI STRAIGHT	5/28/13	9.5 HRS	99750	175	0.09	7	0.09	AWWA BMP	4:30 PM
1318 SANTA CLARA	2" HYD PORT	MI STRAIGHT	5/29/13	30 MIN	1500	50	0.5	6.3	YES	AWWA BMP	9:45 AM
MINI DR & BROADWAY	12" MAIN BREAK	MI STRAIGHT	6/1/13	150 MIN	22500	150	0.7	6.3	YES	AWWA BMP	4:00 PM
112 DE PAUL	3/4" SERV	MI STRAIGHT	6/3/13	3 HRS	90	0.5	1.9	7.2	1.2	AWWA BMP	8:00 AM
ELLENBURG	10" MAIN BREAK	MI STRAIGHT	6/6/13	1 HR	3600	60	0.5	7	YES	AWWA BMP	3:55 PM
95 WERDEN	6" CIP		6/7/13								
WEBB & PEARL	4" DIP	MI STRAIGHT	6/7/13	1 HR	6000	100	0.9	7.2	1.9	AWWA BMP	3:30 PM
101 DILLON DR	6" CIP	MI STRAIGHT	6/7/13	1 HRS	38500	600	1.9	7.2	1.2	AWWA BMP	3:40 PM
236 VALLE VISTA	MAIN BREAK	MI STRAIGHT	6/8/13	2 HRS	24000	200	0.7	7.2	0.9	AWWA BMP	12:00 AM
BURNETT ST	MAIN BREAK	MI STRAIGHT	6/9/13	3 HRS	18000	100	0.9	7.2	1.1	AWWA BMP	4:30 AM
736 ROSEWOOD	2" PORT HYD	MI STRAIGHT	6/11/13	15 MIN	750	50	0.6	7.8	YES	AWWA BMP	8:30 AM
411 LOCUST	LEAK	MI STRAIGHT	6/17/13	48 HRS	8640	3				AWWA BMP	8:30 AM
907 AMADOR	6" MAIN BREAK	MI STRAIGHT	6/17/13	15 MIN			0.8			AWWA BMP	8:00 AM
MORNINGSIDE	MAIN BREAK	MI STRAIGHT	6/24/13							AWWA BMP	9:30 AM

**City of Vallejo Annual NPDES Report – 2012-2013
Required Actions Workplan Update**

Required Action #1: *The City shall develop and implement the legal authority required by Provision C.3.a.*

The City of Vallejo (City) has taken immediate measures to begin remedying this deficiency. The City has hired a Consultant to:

- provide a stormwater ordinance including language providing legal authority required by provision C.3.a,
- work with staff and the City Attorney's office to have the ordinance reviewed and revised as necessary, and
- prepare the staff reports necessary to present the ordinance to Council for adoption.

To date, the City's Consultant has initiated actions to begin the process of developing an ordinance by requesting permission by the Contra Costa Clean Water Program (CCCWP) to use the Program's stormwater ordinance as the City's model ordinance. The CCCWP has recently released a revised model ordinance which will be reviewed and revised as necessary to serve as the City's stormwater ordinance, compliant with the requirements of the Municipal Regional Permit (MRP) including implementing the legal authority required by Provision C.3.a.

The process of introduction and adoption of a new ordinance can be lengthy within a City. The City and its Consultant will make every effort to pursue the adoption of the ordinance in a timely manner with a goal for final adoption within nine months of this letter. In the event there is an unforeseen delay in this proposed adoption deadline, the City will contact the Board to discuss the issues and determine a revised adoption deadline.

During the interim, while the City does not have a local stormwater ordinance, the City will cite compliance with the City's State-issued MRP as a means for implementation and enforcement of the required provisions.

September 2013 Update:

The City of Vallejo obtained permission from the Contra Costa Clean Water Program (CCCWP) to use its model stormwater ordinance; this model was prepared and finalized by the Contra Costa Clean Water Program in Winter/Spring 2013. The City's consultant reviewed the ordinance and has determined that there are a number of programmatic issues that need to be resolved and documented prior to drafting the ordinance. Coordination with VSFCO is needed to ensure consistency between ordinances and correct identification of the appropriate authority as VSFCO rather than the City of Vallejo operates the stormwater conveyance system. A Memorandum of Understanding with the Vallejo Sanitation and Flood Control District will likely be required prior to adoption of the ordinance. In addition, the model ordinance references the CCCWP's C.3 Guidebook; rather than rebranding the CCCWP's C.3 Guidebook to create a City Guidebook, the City is looking to refer to the C.3 Guidebook supplemented with an addendum noting differences between Contra Costa County and City of Vallejo (e.g., implementation dates, rainfall data). The schedule is as follows for ordinance adoption:

Complete review of CCCWP Model Ordinance: 9/17/13

Complete draft City Ordinance: 10/8/13

Complete City review of draft ordinance including legal review: 10/22/13

Complete revisions to ordinance: 11/5/13
First City Council reading of ordinance: 12/10/13
Second City Council reading/adoption of ordinance 1/7/14

While the City is making every effort to pursue the adoption of the ordinance in a timely manner, the scheduled adoption date is approximately 11 months after the Notice of Violation letter, which is two month short of the nine months timeframe originally presented.

Required Action #2: *The City shall develop and implement adequate development review and permitting procedures to impose the requirements of Provision C.3 as required by the MRP.*

The City has taken immediate measures to begin remedying this deficiency. The City has hired a Consultant to provide written procedures and tools such as a development C.3 checklist, standard conditions of approval, and tracking spreadsheets.

To date, City staff has been working with Consultant to evaluate current and recent projects to determine their status with respect to required C.3 compliance. A copy of the C.3 tracking spreadsheet is attached to this response letter as Attachment 2.

September 2013 Update:

The City's consultant has developed and provided the City with the following C.3 implementation documents:

- Pre-Application Stormwater Control Plan Checklist
- Stormwater Control Plan Checklist
- Standard Clean Water Conditions of Approval
- C.3 Project Tracking spreadsheet.

The City's consultant has also coordinated with and provided overview to City staff responsible for C.3 review to assist with determination of C.3 applicability and review of C.3 plans and documents.

Required Action #3: *The City shall provide its staff adequate training to implement the requirements of Provision C.3. This may require the City to bring an outside trainer to meet the City's specific training needs or collaborate with one of the Countywide Programs when they conduct their trainings.*

The City has taken immediate measures to begin remedying this deficiency. The City has hired a Consultant to provide staff with training on implementation of the requirements of Provision C.3.

To date, informal instruction has been provided to City staff in order to review and determine C.3 applicability and requirements for new projects as well as those either recently approved or under construction. Formal training is pending and will be reported within this current reporting period and included in the 2012-13 Annual Report.

Additionally, the City will make every effort to send appropriate staff to training as it becomes available within the region either through one of the other countywide programs or the Bay Area Association of Stormwater Management Agencies (BAASMA). Documentation of attendance at

any such training would be reported within this current reporting period and included in the 2012-13 Annual Report.

September 2013 Update:

The City's consultant has provided the following C.3 training:

- 5/16/13 – Provision C.3
- 5/23/13 – Provision C.3
- 7/01/13 – C.3 review during entitlement phase and detailed plan review

Attendance sheets for the trainings are attached.

The following additional C.3 trainings are planned:

- Follow-up C.3 training – September 2013
- Inspection of C.3 facilities – TBD (will be coordinated with construction of C.3 regulated projects in Vallejo or nearby communities)
- O&M - Plan Review / Implementation – tentatively scheduled for December 2013

Required Action #4: *The City shall clarify whether it has deemed complete the applications for the two projects that have triggered Provision C.3. If the projects' applications have been deemed complete, (1) provide the dates these applications were deemed complete and (2) submit copies of the latest Stormwater Control Plans along with full sized engineering drawings showing the design and location of the C.3 stormwater treatment systems. If the projects' applications have not been deemed complete, provide the status of the projects.*

The City has researched the entitlement and permitting history of the two projects discussed during the compliance inspection. Neither of the subject projects have “triggered” C.3 based on the implementation date of C.3 requirements. Both projects discussed were deemed complete prior to the City being subject to implementing and enforcing the C.3 requirements through the issuance of the Municipal Regional Permit on October 14, 2009.

Project #1, Yolano Plaza located at 4301 Sonoma Boulevard was deemed complete 7/14/09.

Project #2, Bordoni Ranch located east of Columbus Parkway between Regent's Drive and Benicia Road was deemed complete 7/16/07.

The City did not have the legal authority to require C.3 implementation on the subject projects at the time of their entitlement. Both projects may be implementing some portions of “C.3-like” measures for different reasons, but not due to C.3 regulations. Further, the City does not have the legal authority to require C.3 implementation on projects that received entitlements prior to the issuance of the MRP and its associated implementation dates.

September 2013 Update:

No further action is required.

Required Action #5: *The City shall implement the requirements in Provision C.3 on all projects, private and public, that trigger the requirements.*

The City has taken immediate measures to begin remedying this deficiency. The City has hired a Consultant to assist the City in the implementation of Provision C.3 on all new projects that trigger the requirements. Beginning immediately, the Consultant will review all development and public project submittals for C.3 applicability and compliance, provide plan review and tracking services through the O&M phase and acceptance of the project.

Additionally, the Consultant is tasked with providing written procedures and tools and along with associated training to ensure proper implementation by City staff.

September 2013 Update:

The City's consultant is currently training and assisting City staff with the implementation of the C.3 provisions through responses to Required Actions #2 and #3 above.

Required Action #6: *The City shall develop and implement Provision C.3.h.ii (4)-(6).*

The City has taken immediate measures to begin remedying this deficiency. The City has hired a Consultant to provide:

- a standard operating procedure for Operations & Maintenance (O&M) including inspection of City owned and/or operated regional projects and regional hydro modification controls,
- a tracking system for all public and private stormwater treatment systems, inspections and enforcement required per C.3.h.ii.(5),
- and a prioritized inspection plan complying with C.3.h.ii.(6).

Additionally, the Consultant is tasked with providing associated training to ensure proper implementation by City staff.

September 2013 Update:

Currently there are no regulated projects within the City that are in the O&M implementation phase.

The City's consultant provided the City with a Standard Operating Procedure (SOP) and a tracking system for Operations & Maintenance. These documents are currently being reviewed by City management staff prior to being provided to City staff for use. A prioritized inspection plan is incorporated into the SOP. O&M implementation training is pending and tentatively planned for December 2013.

Required Action #7: *The City shall implement Provision C.3.h.ii(1)-(3).*

The City has taken immediate measures to begin remedying this deficiency. The City has hired a Consultant to provide:

- standard Conditions of Approval to include in all regulated development projects,

- a protocol for providing notification of installed stormwater treatment devices to the mosquito and vector control agency,
- model O&M agreements including site access language for purpose of performing O&M inspections

Additionally, the Consultant is tasked with providing associated training to ensure proper implementation by City staff.

September 2013 Update:

The City now has standard Conditions of Approval to include in all regulated development projects. It also has model O&M Agreements based on those developed by the CCCWP but modified based on the City's consultant's past experience with the models. The City's consultant is developing a protocol for providing notification of installed stormwater treatment devices to the mosquito and vector control agency but should be completed in October 2013.

Associated implementation training is tentatively planned for December 2013.

Required Action #8: *Moving forward, the City shall implement its Operation and Maintenance Verification program to ensure that all regulated projects implement their respective Operation and Maintenance Plans. The City shall also have procedures in place to take action for non-compliance with the Operation and Maintenance Plans.*

The City has taken immediate measures to begin remedying this deficiency. The City has hired a Consultant to provide the procedures to implement the O&M Verification program and to take action for non-compliance through activities detailed in Required Actions #6 and #7.

Through assistance by the Consultant, the City will begin immediate implementation of an O&M program on any projects deemed subject to the requirements.

September 2013 Update:

The City's consultant will provide O&M implementation assistance through responses to Required Actions #6 and #7 above. In addition, currently there are no regulated projects within the City that are in the O&M implementation phase.

Required Action #9: *The City shall update its legal authority to be consistent with the MRP.*

As stated in the response to Required Action #1, the City has taken immediate measures to begin remedying this deficiency. The City through its Consultant, has requested permission by the Contra Costa Clean Water Program (CCCWP) to use the Program's stormwater ordinance as the City's model ordinance. The CCCWP has recently released a revised model ordinance which will be reviewed and revised as necessary to serve as the City's stormwater ordinance, compliant with the requirements of the Municipal Regional Permit (MRP) including implementing the legal authority required by Provision C.3.a.

The process of introduction and adoption of a new ordinance can be lengthy within a City. The City and its Consultant will make every effort to pursue the adoption of the ordinance in a timely

manner with a goal for final adoption within nine months of this letter. In the event there is an unforeseen delay in this proposed adoption deadline, the City will contact the Board to discuss the issues and determine a revised adoption deadline.

During the interim, while the City does not have a local stormwater ordinance, the City will cite compliance with the City's the State issued MRP as a means for implementation and enforcement of the required provisions.

September 2013 Update:

Please refer to Required Action #1. The model ordinance developed by the CCCWP and being used as a model for the City of Vallejo ordinance is consistent with the MRP. The CCCWP reviewed and revised its previous model ordinance for consistency with the MRP and completed this effort in Winter/Spring 2013.

Required Action #10: *The City shall develop and implement an ERP as required in Provision C.6.b. This ERP may be different for private and public sites. But all issues must be corrected in a timely manner with the goal of correcting them before the next rain event but no longer than 10 business days after issues are discovered. Water Board staff typically require corrective actions before the next rain event, which is usually less than 10 business days. Sites generally do not have problems complying quickly because they are required to respond readily to rain events by the Construction General Permit.*

The City has taken immediate measures to begin remedying this deficiency. The City has hired a Consultant to provide an Enforcement Response Plan (ERP) and associated training to ensure proper implementation by City staff.

Through assistance by the Consultant, the City will begin immediate implementation of inspection and enforcement consistent with the MRP provisions for any sites deemed to be out of compliance.

September 2013 Update:

The City's consultant provided the City with an Enforcement Response Plan (ERP) and provided staff with training at the C.6 trainings held on 4/18/13 and 5/02/13. Attendance sheets for the training are attached.

Required Action #11: *The City shall develop and implement a stormwater specific inspection form to record observations and actions taken at all stormwater inspection of construction sites.*

The City has taken immediate measures to begin remedying this deficiency. The City has hired a Consultant to provide a stormwater specific inspection form.

The form has just been completed and provided to staff. See Attachment 3 to this response letter.

To date, no informal instruction or formal training has been provided to City staff in order to ensure proper implementation. Formal training is pending and deemed to be of highest priority to ensure proper and complete implementation of C.6 requirements as soon as possible.

Documentation of implementation of this Required Action will be included in 2012-13 Annual Report.

September 2013 Update:

The City's consultant provided the City with a stormwater inspection form and provided associated training at its C.6 trainings on 4/18/13 and 5/02/13. Attendance sheets for the training are attached. The City is planning to have follow-up training on C.6 in late September 2013.

Required Action #12: *The City shall develop and implement an electronic database or tabular format to track all inspections.*

The City has taken immediate measures to begin remedying this deficiency. The City has hired a Consultant to provide a spreadsheet to track all inspections.

The same stormwater inspection form mentioned above will serve as the inspection tracking form. This form has just been completed and provided to staff. See Attachment 3 to this response letter.

To date, no informal instruction or formal training has been provided to City staff in order to ensure proper implementation. Formal training is pending and deemed to be of highest priority to ensure proper and complete implementation of C.6 requirements as soon as possible. Documentation of implementation of this Required Action will be included in 2012-13 Annual Report.

September 2013 Update:

The City's consultant provided the City with an electronic stormwater inspection tracking spreadsheet at its C.6 trainings on 4/18/13 and 5/02/13. City staff gained familiarity with this form when entering the 2012-2013 construction inspection data. The City's consultant will review use of this tracking spreadsheet at the September 2013 C.6 follow-up training.

Required Action #13: *Pursuant to Provision C.6.a, the City shall submit all filled out inspection forms for Provision C.6 construction site inspections done for the 2011-12 reporting year. These inspection forms are completed Pursuant to Provision C.6.e.ii(4).*

Enclosed as Attachment 4 are copies of all inspection forms for construction site inspection for the 2011-12 reporting year.

The City acknowledges that some site inspections did not include an inspection for stormwater compliance. Additionally, a number of monthly inspections were not completed for the sites that did receive stormwater inspections.

The City has determined that this deficiency is the direct result of 1) the primary stormwater inspector leaving the City, 2) the Senior Engineering Technician overseeing inspection becoming ill and subsequently passing away, and 3) remaining staff being inadequately tasked or trained in the requirements.

As a result, the City has taken immediate measures to begin remediating this deficiency. The City has hired a Consultant to provide procedures, tools and training required to ensure proper implementation of the C.6 requirements as detailed in the responses to Required Actions #14-17.

To date, a provisional hire of an Engineering Technician II (inspector) is QSP certified, and has been aiding staff in improving proper documentation. Formal training is pending and deemed to be of highest priority to ensure proper and complete implementation of C.6 requirements as soon as possible. Documentation of implementation of this Required Action will be included in 2012-13 Annual Report.

September 2013 Update:

The provisional QSP certified Engineering Technician II has been hired full time. Other inspection staff members are scheduled for QSP training in FY 2013/14. The City submitted copies of all construction site inspection forms for the 2011-12 reporting year to the State in its March 2013 response to the NOV. Furthermore, the City's consultant provided ERP and general Provision C.6 training on 4/18/13 and 5/02/13, and is scheduled to conduct follow-up C.6 training in late September 2013.

Required Action #14: *The City shall ensure that all construction sites disturbing one or more acres of land and all high priority sites are inspected monthly during the rainy season (October – April) through all phases of construction until sites are fully stabilized by landscaping or with the installation of permanent erosion control measure.*

The City has taken immediate measures to begin remediating this deficiency. The City has hired a Consultant to:

- assist staff in determining which projects are subject to C.6 inspection,
- provide appropriate tracking database, and
- monitor and support inspector monthly inspection reporting (including review of available inspection data collected October 2012-January 2013 and active support beginning February 2013)

To date, no informal instruction or formal training has been provided to City staff in order to ensure proper implementation. Formal training is pending and deemed to be of highest priority to ensure proper and complete implementation of C.6 requirements as soon as possible. Documentation of implementation of this Required Action will be included in 2012-13 Annual Report.

September 2013 Update:

The City's consultant provided ERP and general Provision C.6 training on 4/18/13 and 5/02/13; provided the City with an electronic stormwater inspection tracking spreadsheet at its C.6 trainings on 4/18/13 and 5/02/13; and is available to provide COV staff with associated assistance as needed. Inspection staff has developed site inspection and enforcement tracking protocol to ensure that all sites are inspected monthly during the rainy season.

Required Action #15: *The City shall train its inspectors to conduct construction site inspections*

to prevent stormwater pollution.

The City has taken immediate measures to begin remedying this deficiency. The City has hired a Consultant to provide staff with stormwater pollution prevention inspection training consistent with the requirements of section C.6 of the MRP.

Formal training is pending and deemed to be of highest priority to ensure proper and complete implementation of C.6 requirements as soon as possible. Documentation of implementation of this Required Action will be included in 2012-13 Annual Report.

Additionally, the City will make every effort to send appropriate staff to training as it becomes available within the region either through one of the other countywide programs or the Bay Area Association of Stormwater Management Agencies (BAASMA). Documentation of attendance at any such training would also be reported within this current reporting period and included in the 2012-13 Annual Report.

September 2013 Update:

The City's consultant provided ERP and general Provision C.6 training on 4/18/13 and 5/02/13, and is available to provide COV staff with associated assistance on as requested.

Required Action #16: *The City shall ensure that all construction sites have year-round effective erosion control, run-on and runoff control, sediment control, active treatment systems (as appropriate), good site management, and non-stormwater management through all phases of construction until the site is fully stabilized by landscaping or the installation of permanent erosion control measures.*

The City has taken immediate measures to begin remedying this deficiency. The City has hired a Consultant to monitor and support inspector monthly inspection and follow-up site visits in accordance with MRP and proposed ERP requirements (including review of available inspection data collected October 2012-January 2013 and active support beginning February 2013).

September 2013 Update:

The City's consultant has reviewed the inspection data collected October 2012 through April 2013. Based on review of the inspections data, the City's consultant will focus its follow-up C.6 training accordingly (documentation of follow-up inspections and associated correction of deficiencies within 10 days). The follow-up C.6 training is scheduled for late September 2013, prior to the 2013-2014 rainy season, to ensure that inspectors begin the rainy season with the necessary knowledge and tools.

Required Action #17: *The City shall ensure consistency with local requirements, appropriateness and adequacy of proposed BMPs for each site before issuance of grading permits for projects.*

The City has taken immediate measures to begin remedying this deficiency. The City has hired a Consultant to provide stormwater pollution prevention plan review training and/or support consistent with the requirements of section C.6 of the MRP.

September 2013 Update:

Stormwater pollution prevention plan review training is scheduled for late September 2013.

Recommended Action #1: *The City should develop a flow chart for the different development review processes that clearly shows how a project moves from application to finalization with respect to Provision C.3 requirements.*

The City concurs that this recommended action would be helpful in assisting staff to ensure compliance with respect to Provision C.3 requirements. The City has hired a Consultant to:

- work with the Planning staff to determine the various development review processes,
- provide a flow chart clearly showing C.3 review in appropriate phases of the review process, and
- provide training or otherwise ensure that all Planning, Engineering and Building staff understand the applicability of C.3 as they relate to various development projects.

September 2013 Update:

The City's consultant provided general Provision C.3 training to Planning and Building Inspection staff on 5/16/13 and 5/23/13 as well as on 7/1/13. The City's consultant is currently conducting a peer review of C.3 development plans already reviewed by City staff. A follow-up training will be scheduled to review any items that City staff missed in their review.

Recommended Action #2: *The City should develop standard operating procedures (SOPs) to ensure that the O&M requirements of Provision C.3 are implemented for all future projects.*

The City concurs that this recommended action would be helpful in assisting staff to ensure compliance with respect to Provision C.3 requirements. The City has hired a Consultant to provide a C.3 O&M implementation SOP and provide associated training.

September 2013 Update:

C.3 implementation SOP is pending. Please review to September 2013 Update for Required Action #6.

TRAINING ATTENDANCE

MRP TRAINING ATTENDANCE RECORD

TRAINING	MAINTENANCE DIVISION														WATER DIVISION														
	DATES	FLEET		Utilities				Streets/Traffic			Facilities and Grounds					Marina	Lab			Engineers									
		Mark Fowler	Fiona Strykers	Doug Young	Adam Shafer	Arthur Raygosa	Adam Molinar	Shedrick Wilson	Dennis Martin	Mike Schreiner	Sean Sanchez	Tom Wright	Vince Miller	Rich Flores	Robert Ljuba	Fred Buss	Josh Davidson	Sean Arnott	Sean Taylor	Tom Rodgers	Ron Minnis	Danielle Martinez	Tim Matle	Nancy Dodsworth	Jason Frink	Jeanine Jackson	Eric Jansen	Jun Malit	Matthew Brown
C.6	18-Apr	X																					X						
Construction	2-May																							X					
Site Controls	2-May			X				X												X				X					
C.2 Municipal	16-May	X	X							X	X	X								X					X				
Operations	30-May																												
C.3 New	16-May																												
Development	23-May																												
IPM	23-May													X		X		X											
	30-May														X								X	X	X				

MRP TRAINING ATTENDANCE RECORD

		OUTSIDE AGENCIES																	
TRAINING	DATES	Golf Course		GVRD										VSFCD					
		Brian Morris	Tom Wade	Armando Seguro	Brice Sweet	Dave Flowers	Dave Moore	Gabe Lanusse	Joquin Manibusan	Jose Famalette	Kevin Birdsall	Pat Smith	Sal Nuno	Teresa Hall	Tom McNair	Craig Moore	Kellie Barnett	Lance Barnett	
C.6	18-Apr																		
Construction	2-May																		
Site Controls	2-May																		
C.2 Municipal	16-May																		
Operations	30-May	X	X			X								X					
C.3 New	16-May																		
Development	23-May																		
IPM	23-May	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X
	30-May				X	X	X												