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Implementation of Results of the Los Angeles River Copper Water-Effect Ratio and Lead Recalculation Studies

submitted to:

LOS ANGELES RIVER METALS TMDL IMPLEMENTATION GROUP

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Attachment A. Determination of Copper Loading Capacities’ Protectiveness in Downstream Waterbodies

GLOSSARY OF ACRONYMS

BLM	Biotic Ligand Model
BPA	Basin Plan Amendment
BWC	Burbank Western Channel
BWRP	Burbank Water Reclamation Plant
CaCO ₃	Calcium Carbonate
CEQA	California Environmental Quality Act
CF	Conversion Factor
CFR	Code of Federal Regulations
cfs	Cubic feet per second
CMC	Criterion Maximum Concentration
CTR	California Toxics Rule (Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California; Rule)
CWA	Clean Water Act
EC50	Median Effect Concentration. The concentration which adversely affects 50% of the test species.
kg/day	Kilogram per Day (load)
LA	Los Angeles
LAGWRP	Los Angeles-Glendale Water Reclamation Plant
LAR	Los Angeles River
LARWQCB	Los Angeles Regional Water Quality Control Board
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter
MS4	Municipal Separate Storm Sewer System
NOEC	No Observed Effect Concentration
NPDES	National Pollutant Discharge Elimination System
POTW	Publicly Owned Treatment Works
SMAV	Species Mean Acute Value
SWRCB	State Water Resources Control Board
TMDL	Total Maximum Daily Load
USEPA	United States Environmental Protection Agency
WER	Water-Effect Ratio
WLA	Waste Load Allocation
WRP	Water Reclamation Plant
WQBELs	Water Quality Based Effluent Limitations
WQC	Water Quality Criteria

Executive Summary

The purpose of this *Implementation of Results of the Los Angeles River Copper Water-Effect Ratio and Lead Recalculation Studies* report (referred to herein as the Implementation Report) is to provide information to document how the results of two recently completed studies can be used to adopt site-specific objectives (SSOs) for copper and lead into the Water Quality Control Plan for the Los Angeles Region (Basin Plan), amend the Los Angeles River and Tributaries Total Maximum Daily Load for Metals (Metals TMDL), and modify Order No. R4-2012-0175¹ (herein referred to as the LA County MS4 Permit). The Implementation Report presents information related to implementing SSOs, including:

- The SSOs for copper and lead based on the two completed studies;
- The approach for amending the Metals TMDL;
- The approach for implementing the SSOs in the LA County MS4 Permit;
- Environmental analysis of the impacts of implementing the SSOs;
- Analysis of factors set forth in California Water Code (CWC) section 13241
- Anti-degradation review;
- Anti-backsliding review; and
- Future monitoring and reporting requirements.

The proposed SSOs (**Section 3**) were developed consistent with United States Environmental Protection Agency (USEPA) guidance, have been reviewed by Los Angeles Regional Water Quality Control Board staff and an independent Technical Advisory Committee, and are as protective of aquatic life as intended by the California Toxics Rule (CTR) and the Metals TMDL. Copper SSOs were derived utilizing a Water-Effect Ratio (WER) study that followed USEPA guidance and entailed comparing local waterbody toxicity to laboratory water toxicity. The ratio between the toxicities is used to revise national water quality criteria (WQC). Acute and chronic copper WQC presented in the Metals TMDL are expressed using the California Toxics Rule (CTR) equations:

$$\begin{aligned} \textit{Acute} &= \text{WER} * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700} \\ \textit{Chronic} &= \text{WER} * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702} \end{aligned}$$

The WER has a default value of 1.0 unless a site-specific WER has been approved. The WER value modifies the WQC incorporating site-specific water quality conditions. WER values were derived for Los Angeles (LA) River Reaches 1 – 4 and select tributaries [Compton Creek, Rio Hondo, Arroyo Seco, Verdugo Wash, Burbank Western Channel (upstream and downstream of Burbank Water Reclamation Plant (Burbank WRP or BWRP)), Tujunga Wash, and Verdugo Wash]. The site-specific WER values reflect the critical condition in the waterbodies during which aquatic organisms are most sensitive to toxicity from copper. The critical condition was identified to be dry weather (regardless of summer or winter) based on the WERs collected

¹ The National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit and Waste Discharge Requirements for Storm Water and Non-storm Water Discharges from the MS4 within the Coastal Watersheds of Los Angeles County, Except those Discharges Originating from the City of Long Beach MS4.

during three different conditions (wet weather, summer dry weather and winter dry weather). As the WER values reflect the critical condition, the resulting SSOs would be protective of aquatic life during all conditions (dry and wet weather). In addition, statistical analyses were conducted to ensure the SSOs were protective of aquatic organisms. The recommended dissolved copper SSO equations and associated dissolved copper criteria at a standard water hardness of 100 milligrams per liter (mg/L) (as CaCO₃) are presented in **Table ES-1**.

Table ES-1. Recommended Final Water-Effect Ratios for Copper

Waterbody	Dissolved Copper SSO	Dissolved Copper SSOs (ug/L) at a Hardness of 100 mg/L (as CaCO ₃)
Los Angeles River Reaches 1, 2, 3, and 4	<i>Acute</i> = $3.971 * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700}$ <i>Chronic</i> = $3.971 * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702}$	Acute = 53 Chronic = 36
Compton Creek upstream from confluence with LA River	<i>Acute</i> = $3.364 * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700}$ <i>Chronic</i> = $3.364 * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702}$	Acute = 45 Chronic = 30
Rio Hondo upstream from confluence with LA River	<i>Acute</i> = $9.691 * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700}$ <i>Chronic</i> = $9.691 * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702}$	Acute = 130 Chronic = 87
Arroyo Seco upstream from confluence with LA River	<i>Acute</i> = $1.324 * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700}$ <i>Chronic</i> = $1.324 * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702}$	Acute = 18 Chronic = 12
Verdugo Wash upstream from confluence with LA River	<i>Acute</i> = $2.176 * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700}$ <i>Chronic</i> = $2.176 * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702}$	Acute = 29 Chronic = 19
Burbank Western Channel from confluence with LA River to BWRP	<i>Acute</i> = $4.746 * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700}$ <i>Chronic</i> = $4.746 * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702}$	Acute = 64 Chronic = 43
Burbank Western Channel upstream from BWRP	<i>Acute</i> = $5.441 * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700}$ <i>Chronic</i> = $5.441 * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702}$	Acute = 73 Chronic = 49
Tujunga Wash upstream from LA River	<i>Acute</i> = $8.279 * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700}$ <i>Chronic</i> = $8.279 * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702}$	Acute = 111 Chronic = 74

Lead SSOs were derived using the USEPA’s Recalculation Procedure, which utilizes toxicity data from all available national studies to calculate updated national criteria for lead. The Recalculation Procedure is a method for adjusting the national toxicity dataset used to develop lead criteria by incorporating more recent studies and/or adjusting for species that are present in the waterbodies of interest. The Recalculation Procedure was used to develop water quality criteria for lead for the LA River and its tributaries within the urbanized area of the LA River Watershed. The USEPA provided an approved lead toxicity test dataset that meets the minimum data requirements and water quality criterion calculation data requirements (USEPA 2008). The entire approved USEPA dataset was utilized for the Recalculation Procedure. As a result, the recalculation of the lead criteria resulted in a de facto recalculation of the national criteria. Species of interest were identified for the areas where the lead SSO would apply, and based on the available data, the acute and chronic criterion are protective of those species. The

recommended dissolved lead SSO equations and associated dissolved lead criteria at a standard water hardness of 100 mg/L (as CaCO₃) are presented in **Table ES-2**.

Table ES-2. Site-Specific Objectives for Dissolved Lead

Dissolved Lead SSO	Dissolved Lead SSOs (ug/L) at Hardness of 100 mg/L (as CaCO ₃)
<i>Final Acute Criterion Equation</i> $= (1.46203 - \ln(\text{hardness}) * 0.145712) * e^{1.466 * \ln(\text{hardness}) - 1.882}$	103
<i>Final Chronic Criterion Equation</i> $= (1.46203 - \ln(\text{hardness}) * 0.145712) * e^{1.466 * \ln(\text{hardness}) - 3.649}$	18

The proposed SSOs are used to update the TMDL targets for dry and wet weather (**Section 4.1**). Separate targets were developed for dry and wet weather to address variation in hardness values and flow conditions in the LA River and tributaries. Dry weather targets are based on the more limiting of the chronic or acute CTR criteria (chronic for copper and lead). Wet weather targets were based on acute criteria given that storms are generally short-term and episodic in nature. The revised LA River Metals TMDL dry and wet weather numeric targets for copper and lead based on the results from the two studies are presented in **Table ES-3** and **Table ES-4**, respectively.

Table ES-3. Revised LA River Metals TMDL Dry weather Numeric Targets for Copper and Lead (µg total recoverable metals/L)

Waterbody	Copper WER	Copper Target	WER-Incorporated Copper Target	Lead Target
LA Reach 5, 6, and Bell Creek	1.0	WER ⁽¹⁾ x 30	30	WER ⁽¹⁾ x 170
LA Reach 4	3.971	WER x 26	103	WER ⁽¹⁾ x 83
LA Reach 3 above LAG	3.971	WER x 23	91	WER ⁽¹⁾ x 102
LA Reach 3 below LAG	3.971	WER x 26	104	WER ⁽¹⁾ x 100
LA Reach 2	3.971	WER x 22	87	WER ⁽¹⁾ x 94
LA Reach 1	3.971	WER x 23	91	WER ⁽¹⁾ x 102
Tujunga Wash	8.279	WER x 20	166	WER ⁽¹⁾ x 83
Burbank Western Channel (above BWRP)	5.441	WER x 26	141	WER ⁽¹⁾ x 126
Burbank Western Channel (below BWRP)	4.746	WER x 19	90	WER ⁽¹⁾ x 75
Verdugo Wash	2.176	WER x 23	50	WER ⁽¹⁾ x 102
Arroyo Seco	1.324	WER x 22	29	WER ⁽¹⁾ x 94
Compton Creek	3.364	WER x 19	63	WER ⁽¹⁾ x 73
Rio Hondo	9.691	WER x 13	126	WER ⁽¹⁾ x 37
Monrovia Canyon Creek	1.0	-	-	WER ⁽¹⁾ x 66

1. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.

Table ES-4. Revised LA River Metals TMDL Wet weather Numeric Targets for Copper and Lead (μg total recoverable metals/L)

Waterbody	Copper WER	Copper Target	WER-Incorporated Copper Target	Lead Target
LA Reach 5, 6, and Bell Creek	1.0	WER ⁽¹⁾ x 17	17	WER ⁽¹⁾ x 94
LA Reach 4	3.971	WER x 17	67	WER ⁽¹⁾ x 94
LA Reach 3 above LAG	3.971	WER x 17	67	WER ⁽¹⁾ x 94
LA Reach 3 below LAG	3.971	WER x 17	67	WER ⁽¹⁾ x 94
LA Reach 2	3.971	WER x 17	67	WER ⁽¹⁾ x 94
LA Reach 1	3.971	WER x 17	67	WER ⁽¹⁾ x 94
Tujunga Wash	8.279	WER x 17	139	WER ⁽¹⁾ x 94
Burbank Western Channel (above BWRP)	5.441	WER x 17	92	WER ⁽¹⁾ x 94
Burbank Western Channel (below BWRP)	4.746	WER x 17	81	WER ⁽¹⁾ x 94
Verdugo Wash	2.176	WER x 17	37	WER ⁽¹⁾ x 94
Arroyo Seco	1.324	WER x 17	23	WER ⁽¹⁾ x 94
Compton Creek	3.364	WER x 17	56	WER ⁽¹⁾ x 94
Rio Hondo	9.691	WER x 17	162	WER ⁽¹⁾ x 94
Monrovia Canyon Creek	1.0	WER ⁽¹⁾ x 17	17	WER ⁽¹⁾ x 94

1. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.

The loading capacities in the Metals TMDL are based on the dry and wet weather numeric targets and specific flow conditions. The load allocations (LAs) and WLAs are then assigned to the various nonpoint and point sources, respectively. Revised dry weather loading capacities were calculated using the revised targets and the critical dry weather flows listed in the Metals TMDL. Wet weather loading capacities in the Metals TMDL are calculated by multiplying daily storm volumes by the wet weather numeric target for each metal.

Dry weather WLAs for storm water permittees are equal to storm drain flows (critical flows minus median publically owned treatment works' (POTWs) flows minus median open space flows) multiplied by reach-specific numeric targets, minus the contribution from direct air deposition. Wet weather WLAs for the grouped storm water permittees were set equal to the total loading capacity minus the load allocations for open space and direct air deposition and the WLAs for the POTWs. Wet weather WLAs for the grouped storm water permittees apply to all reaches and tributaries. The combined storm water WLA is apportioned between the different storm water categories by their percent area of the portion of the watershed served by storm drains (91 percent for MS4 Permittees). The loading capacities and revised WLAs are presented **Section 4.2**. The updated targets and WLAs form the basis for revising the limitations presented in the LA County MS4 Permit (**Section 5**).

The application of the copper SSOs follows the existing Metals TMDL approach by applying the WER value. The proposed changes to the Metals TMDL targets, loading capacities, and WLAs do not fundamentally change the Metals TMDL or level of protection. Rather, the proposed changes simply replace the current WER values in the Metals TMDL. Implementing the SSOs in the Basin Plan (and ultimately in the Metals TMDL and LA County MS4 permit) is not expected

to change or degrade current receiving water quality. This fact applies equally to future conditions and potential downstream impacts. The expected outcome of the SSO implementation is a reprioritization of management efforts to focus on other relatively more important water quality issues. Additionally, waters downstream of the LA River continue to be protected by the water quality objectives and TMDLs applicable in those waterbodies, and that protection would not be modified by implementation of these SSOs.

Prior to incorporating the SSOs into the Basin Plan, the impacts of the SSOs, the factors contained in the California Water Code (CWC) Section 13241, and anti-degradation must be considered. When establishing water quality objectives in water quality control plans, Regional Water Quality Control Boards are required to consider the following six factors identified in CWC Section 13241:

- Past, present and probable beneficial uses of water.
- Environmental characteristics of the hydrographic unit under consideration; including the quality of water available thereto.
- Water quality conditions that could reasonably be achieved through the coordinated control of all factors that affect water quality in the area.
- Economic considerations.
- The need for developing housing within the region.
- The need to develop and use recycled water.

As described in **Section 6**, implementation of the SSOs is expected to continue to provide the intended protection of the criteria under future conditions and for downstream waters. Establishment of different SSOs for portions of a waterbody is consistent with state and federal water quality criteria development processes as well as the current Metals TMDL. Waterbodies are often separated into multiple reaches due to varying characteristics and different water quality objectives are assigned to reaches based on site-specific characteristics. This approach is in practice in the Metals TMDL where targets were developed for different reaches and tributaries based on the different hardness values observed as well as the inclusion of the WER term directly into the targets, loading capacities, and allocations. The application of the copper SSOs follows the existing Metals TMDL approach by applying the WER value. The proposed changes to the Metals TMDL targets, loading capacities, and WLAs do not fundamentally change the Metals TMDL or level of protection. Consistent with previous SSO adoptions within the Los Angeles Region, the six factors contained in CWC Section 13241 were considered (**Section 7**), and it was determined that the requirements are met.

The proposed SSOs are consistent with the State's anti-degradation policy (SWRCB Resolution 68-16) and federal anti-degradation requirements (**Section 8**). This finding is consistent with the adoption of copper SSOs in the Calleguas Creek Watershed (LARWQCB Resolution 2006-003) and ammonia SSOs for various LA County watersheds (LARWQCB Resolution 2007-005). The proposed SSOs will not lower the water quality of the waterbodies relative to existing conditions because additional loadings of copper and lead are not anticipated.

Anti-backsliding requirements apply when a NPDES permit is reissued and requires an assessment of whether interim effluent limitations, standards or conditions are at least as stringent as the final effluent limitations, standards, or conditions in the previous permit or

revised effluent limits are consistent with the anti-backsliding provisions of the Clean Water Act (CWA) and associated regulations. As discussed in **Section 9**, anti-backsliding must be considered to determine if the new effluent limitations for the MS4 Permittees and Caltrans based on the updated TMDL WLAs meet the anti-backsliding requirements. Section 402(o) of the CWA prohibits specific backsliding, provides exceptions to the prohibition, and includes a “safety” clause that acts as a limitation on backsliding. Section 402(o) allows revisions to effluent limitations based on state standards if one of the exceptions in section 402(o)(2) is met or if the revision is consistent with section 303(d)(4). Section 402(o)(2) and section 303(d)(4) are independent exceptions. Section 303(d)(4) contains two parts and the applicable part depends on whether the water quality standards have been met in the receiving waters.

As there is an existing TMDL for copper and lead, it is presumed that the water quality standards are not yet attained. Further, as the revised effluent limitations are based on the Metals TMDL WLAs, which are intended to attain the applicable water quality standards, the requirement that revised effluent limitations assure the attainment of the applicable water quality standard is met. Thus, the requirements for an exception to anti-backsliding under section 303(d)(4)(A) are met. If the presumption that the water quality standards were not being attained was incorrect the exception under section 303(d)(4)(B) would be met as the requirements of anti-degradation as described in **Section 8**. Additionally, under section 402(o)(2), a permit may be renewed, reissued, or modified to contain a less stringent effluent limitation applicable to a pollutant if any of the exceptions are met. Exception section 402(o)(2)(B) would apply in this instance as backsliding would be allowed since “information is available which was not available at the time of permit issuance ...which would have justified the application of a less stringent effluent limitation at the time of permit issuance.” The SSOs provide such new information. Lastly, section 402(o)(3) contains what is considered a “safety” clause that represents a limitation on backsliding by prohibiting revisions of effluent limitations in all cases if the revised effluent limitation would result in a violation of water quality standards. As the revised effluent limitations are based on the Metals TMDL WLAs intended to attain water quality standards this requirement is met. In summary, at least one of the requirements allowing backsliding has been met. Thus, the proposed effluent limitations for the MS4 Permittees and Caltrans presented in **Section 5** may be utilized in the LA County MS4 permit.

Lastly, because the copper SSOs are based on monitoring conducted within the watershed, follow up monitoring to evaluate the continuing protectiveness of copper SSOs is prudent. The monitoring proposed considers the available data in determining frequency and location of samples, and the types of tests necessary to evaluate implementation of the copper SSOs. Monitoring and reporting should be coordinated with the existing Metals TMDL monitoring program and/or other existing programs, such as the LA County MS4 Permit Coordinated Integrated Monitoring Programs. No monitoring is proposed for the lead SSOs as the SSOs were not based on water quality data collected within the watershed; and thus, changes in water quality are not relevant.

1 Introduction

The Los Angeles (LA) River and Tributaries Total Maximum Daily Load for Metals (Metals TMDL) was originally adopted on June 2, 2005 by the Los Angeles Regional Water Quality Control Board (LARWQCB), approved by the United States Environmental Protection Agency (USEPA) on December 22, 2005, and became effective on January 11, 2006. In conformance with a Los Angeles County Superior Court writ of mandate, the LARWQCB was required to perform a California Environmental Quality Act (CEQA) alternatives analysis. A revised Metals TMDL with alternatives analysis was prepared, circulated, and adopted by the LARWQCB on September 6, 2007 and adopted by the State Water Resources Control Board (SWRCB) on June 17, 2008. The effective date of the current Los Angeles River and Tributaries Metals TMDL is October 29, 2008. The TMDL was amended in 2010 to incorporate a water-effect ratio (WER) for copper into the waste load allocations (WLAs) for the three water reclamation plants in the watershed. The TMDL was developed to address metals listings presented in the 1998 and 2002 303(d) lists as well as any additional listings identified during TMDL development and subsequently added to the 2004/2006 303(d) list. Listings included copper, lead, zinc, cadmium and selenium.

The implementation schedule in the TMDL Basin Plan Amendment (BPA) (LARWQCB 2007b) allows time for special studies that may serve to refine the estimate of loading capacity, waste load and/or load allocations, and other studies that may serve to optimize implementation efforts. The *Work Plan for Recalculation and Water-Effect Ratio to Support Implementation of the Los Angeles River and Tributaries Metals TMDL* (Work Plan) (LWA 2010) was developed to support special studies to evaluate the targets for copper and lead. The Work Plan was submitted to the LARWQCB in March 2010 and was approved by the Executive Officer on February 24, 2011. The Los Angeles River Metals TMDL Implementation Group has taken the lead role in the implementation of the Work Plan, which details the approach to developing a copper WER and a recalculation of the lead criteria.

The purpose of this document (referred to herein as the Implementation Report) is to provide information to document how the results of the *Lead Recalculation Report to Support Implementation of the Los Angeles River and Tributaries Metals TMDL* (LWA 2014a) (referred to herein as the Recalculation Report) and *Copper Water Effect Ratio (WER) Study Report to Support Implementation of the Los Angeles River and Tributaries Metals TMDL* (LWA 2014b) (referred to herein as the WER Report) can be used to adopt site-specific objectives (SSOs) into the Water Quality Control Plan for the Los Angeles Region (Basin Plan), amend the Metals TMDL, and modify Order No. R4-2012-0175, the National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit and Waste Discharge Requirements for Storm Water and Non-storm Water Discharges from the MS4 within the Coastal Watersheds of Los Angeles County, Except those Discharges Originating from the City of Long Beach MS4 (herein referred to as the LA County MS4 Permit). The Implementation Report is intended to provide information needed to satisfy the Regional Water Board's policy requirements for implementing SSOs. The elements addressed in the Implementation Report are presented in **Figure 1**. Details, conclusions, and recommendations based on these analyses are provided in the remaining sections of this Implementation Report. Detailed information on the

approach and results supporting the SSOs presented herein are contained in the Recalculation Report (LWA 2014a) and the WER Report (LWA 2014b).

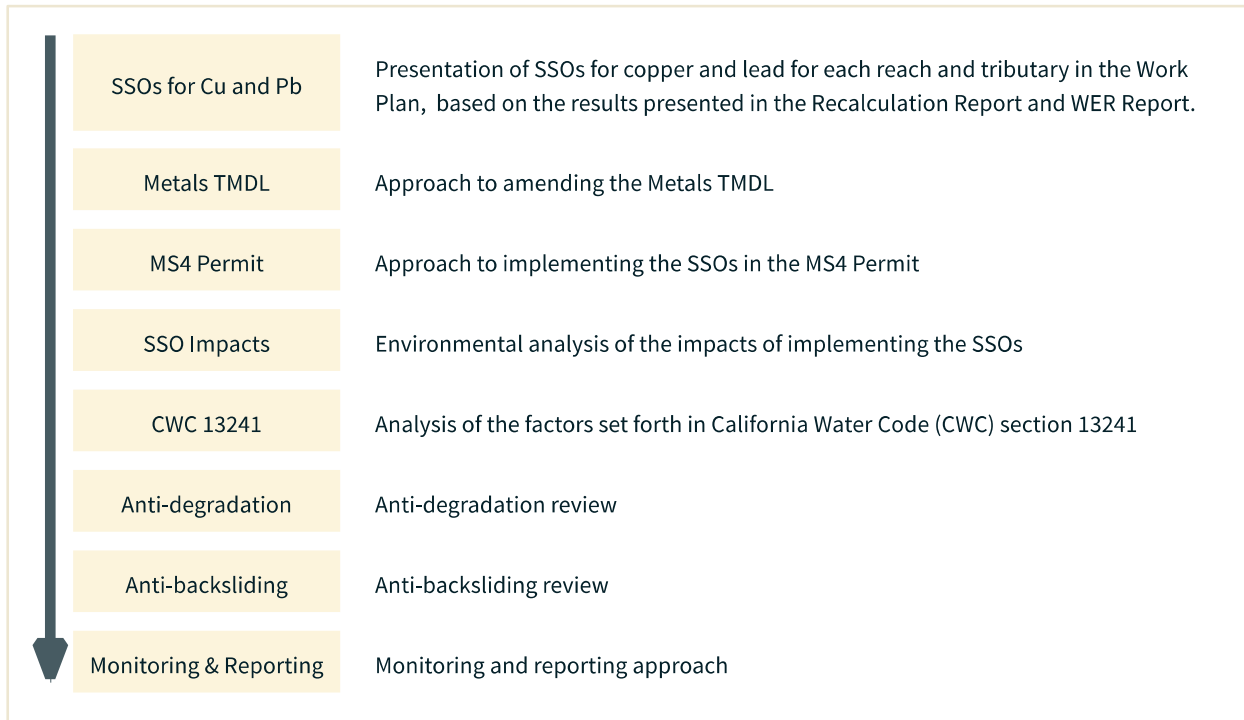


Figure 1. General Approach for Implementing Site-specific Objectives

2 Background

The USEPA publishes national water quality criteria (WQC) for the protection of aquatic life consisting of a concentration, an averaging period, and a return frequency. The WQC for the protection of aquatic life are calculated mostly from laboratory-derived toxicity data. The USEPA compiles data from acceptable toxicity tests, which have been conducted in laboratory or well-characterized dilution water, from a wide range of species. Criteria are developed from the compiled data using the approach outlined in *Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Organisms and Their Uses* (Criteria Guidelines) (USEPA 1985). The Criteria Guidelines provide methods for calculating both acute and chronic criteria.

National WQC are intended to protect 99% of individuals in 95% of the species in aquatic communities from acute and chronic effects resulting from exposure to a chemical stressor in all waters of the United States. However, the Code of Federal Regulations (CFR) 40 CFR 131.11(b)(1)(ii) allows States to establish WQC that are "... modified to reflect site-specific conditions." The Water Quality Standards Handbook (USEPA 1994) states that:

Site-specific criteria, as with all water quality criteria, must be based on a sound scientific rationale in order to protect the designated use. Existing guidance and practice are that EPA will approve site-specific criteria developed using appropriate procedures.

Site-specific criteria are intended to provide the same level of protection intended for aquatic life as the national criteria but at a specific site. Hence, derivation of site-specific criteria does not change the intended level of protection. A "site" may be defined as all waters in the state, region, watershed, or, as a specific waterbody or segment of waterbody (USEPA 1994). The Water Quality Standards Handbook (USEPA 1994) presents three procedures for deriving site-specific criteria:

1. Recalculation Procedure. This method is intended to take into account relevant differences between the sensitivity of species in the national dataset and those at the site. However, recalculation can consist of any updates or revisions in the data set (not necessarily site-specific updates); and therefore be conducted such that it is effectively an update to the national WQC.
2. Water-Effect Ratio Procedure. This method provides for the use of a water-effect ratio to take into account observed differences between the toxicity of a chemical in laboratory dilution water and in site water.
3. Resident Species Procedure. This method is intended to take into account differences for both the aquatic organisms present at a site and differences in toxicity of site water and lab water.

As discussed in Section 3.4.1 of the 2010 Work Plan, the WER Procedure and Recalculation Procedure are the recommended approaches for developing copper and lead SSOs, respectively.

3 Proposed Site Specific Objectives

SSOs for Cu and Pb

Metals TMDL

MS4 Permit

SSO Impacts

CWC 13241

Anti-degradation

Anti-backsliding

Monitoring & Reporting

The proposed SSOs for copper and lead are presented in this section based on the Copper WER Report (LWA 2014b) and the Lead Recalculation Report (LWA 2014a). The waterbodies and reaches in which these SSOs will apply are specified.

3.1 Copper

The California Toxics Rule (CTR), located at 40 CFR 131.38, contains federally promulgated water quality criteria applicable to California waters for 126 priority pollutants for the protection of aquatic life and human health. Water quality criteria for most metals in the CTR are expressed as a function of a WER, and the USEPA has provided for the adjustment of these water quality criteria through the application of the WER procedure. The copper CTR criteria are expressed as follows:

$$Acute = WER * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700}$$

$$Chronic = WER * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702}$$

The WER has a default value of 1.0 unless there is a site-specific WER that has been approved. To use a WER other than the default of 1.0, a study must be conducted, establishing the ratio that represents the difference between toxicity in laboratory test water and toxicity in a specific waterbody. The study must be consistent with USEPA procedures on deriving WERs. Based on the results of the Copper WER Study, the copper water quality criteria contained in the CTR can be modified using the site-specific WERs set forth for the waterbodies in **Table 1**. The details and results of the WER process are presented in the Copper WER Report (LWA 2014b). **Figure 2** presents the LA River main stem reaches (1, 2, 3, and 4) and associated major tributaries (Compton Creek, Rio Hondo, Arroyo Seco, Verdugo Wash, Burbank Western Channel and Tujunga Wash) addressed during the Copper WER Study.

Table 1. Recommended Final Water-Effect Ratios for Copper

Waterbody	Description of Waterbody	WER
LA River Reaches 1 through 4	Reach 1 (Estuary to Carson St.)	3.971
	Reach 2 (Carson St. to Figueroa St.)	
	Reach 3 (Figueroa St. to Riverside Dr.)	
	Reach 4 (Riverside Dr. to Sepulveda Dam)	
Compton Creek	Upstream from confluence with LA River Reach 2	3.364
Rio Hondo	Upstream from confluence with LA River Reach 2	9.691
Arroyo Seco	Upstream from confluence with LA River Reach 2	1.324
Verdugo Wash	Upstream from confluence with LA River Reach 3	2.176
Burbank Western Channel	From confluence with LA River Reach 4 to BWRP	4.746
Burbank Western Channel	Upstream of BWRP	5.441
Tujunga Wash	Upstream from confluence with LA River Reach 4	8.279

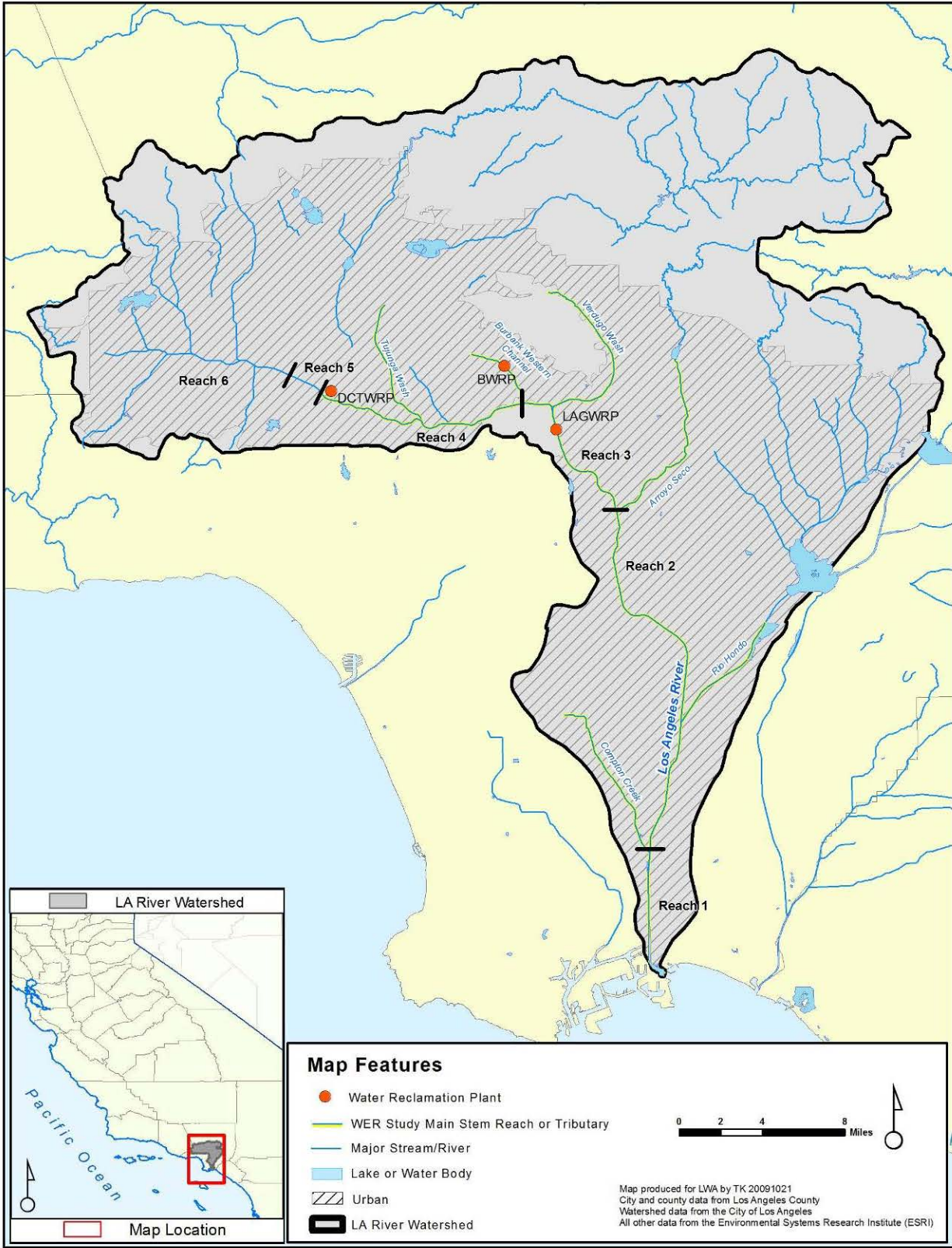


Figure 2. Copper WER Study LA River Main Stem Reaches and Major Tributaries

Incorporating the WERs in **Table 1** into the acute and chronic CTR criteria equations results in copper SSOs for the Los Angeles River and associated tributaries. **Table 2** presents the SSO equations for dissolved copper. For illustrative purposes, the associated dissolved copper criteria at a standard water hardness of 100 milligrams per liter (mg/L) (as CaCO₃) hardness are also presented.

Table 2. Site-Specific Objectives for Dissolved Copper

Waterbody	Dissolved Copper SSO	Dissolved Copper SSOs (ug/L) at a Hardness of 100 mg/L (as CaCO ₃)
LA River Reaches 1, 2, 3, and 4	$Acute = 3.971 * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700}$ $Chronic = 3.971 * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702}$	Acute = 53 Chronic = 36
Compton Creek upstream from confluence with LA River	$Acute = 3.364 * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700}$ $Chronic = 3.364 * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702}$	Acute = 45 Chronic = 30
Rio Hondo upstream from confluence with LA River	$Acute = 9.691 * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700}$ $Chronic = 9.691 * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702}$	Acute = 130 Chronic = 87
Arroyo Seco upstream from confluence with LA River	$Acute = 1.324 * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700}$ $Chronic = 1.324 * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702}$	Acute = 18 Chronic = 12
Verdugo Wash upstream from confluence with LA River	$Acute = 2.176 * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700}$ $Chronic = 2.176 * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702}$	Acute = 29 Chronic = 19
Burbank Western Channel from confluence with LA River to BWRP	$Acute = 4.746 * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700}$ $Chronic = 4.746 * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702}$	Acute = 64 Chronic = 43
Burbank Western Channel upstream from BWRP	$Acute = 5.441 * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700}$ $Chronic = 5.441 * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702}$	Acute = 73 Chronic = 49
Tujunga Wash upstream from LA River	$Acute = 8.279 * 0.96 * e^{0.9422 * \ln(\text{hardness}) - 1.700}$ $Chronic = 8.279 * 0.96 * e^{0.8545 * \ln(\text{hardness}) - 1.702}$	Acute = 111 Chronic = 74

3.2 Lead

USEPA also provides guidance for developing site-specific water quality criteria through the application of the Recalculation Procedure. The Recalculation Procedure is a method for adjusting the national toxicity dataset used to develop criteria by incorporating more recent studies and/or adjusting for species that are present in the waterbodies. The Recalculation Procedure was used to develop water quality criteria for lead for the LA River and its tributaries. The USEPA provided an approved lead toxicity test dataset that meets the minimum data requirements and water quality criterion calculation data requirements (USEPA 2008). The entire approved USEPA dataset was utilized. As a result, the recalculation of the lead criteria results in a de facto recalculation of the national criteria. Species of interest were identified for the waterbodies subject to the TMDL, and based on the available data, the acute and chronic criterion are protective of those species. The details and results of the Recalculation Procedure process are presented in Lead Recalculation Report (LWA 2014a). **Table 3** presents the final

acute and chronic criterion equations for dissolved lead. For illustrative purposes, the associated dissolved lead criteria at a standard water hardness of 100 mg/L (as CaCO₃) hardness are also presented. The lead SSOs are applicable to the urbanized areas of the watershed as illustrated in **Figure 3**.

Table 3. Site-Specific Objectives for Dissolved Lead

Dissolved Lead SSO	Dissolved Lead SSOs (ug/L) at Hardness of 100 mg/L (as CaCO ₃)
<i>Final Acute Criterion Equation</i> $= (1.46203 - \ln(\text{hardness}) * 0.145712) * e^{1.466 * \ln(\text{hardness}) - 1.882}$	103
<i>Final Chronic Criterion Equation</i> $= (1.46203 - \ln(\text{hardness}) * 0.145712) * e^{1.466 * \ln(\text{hardness}) - 3.649}$	18

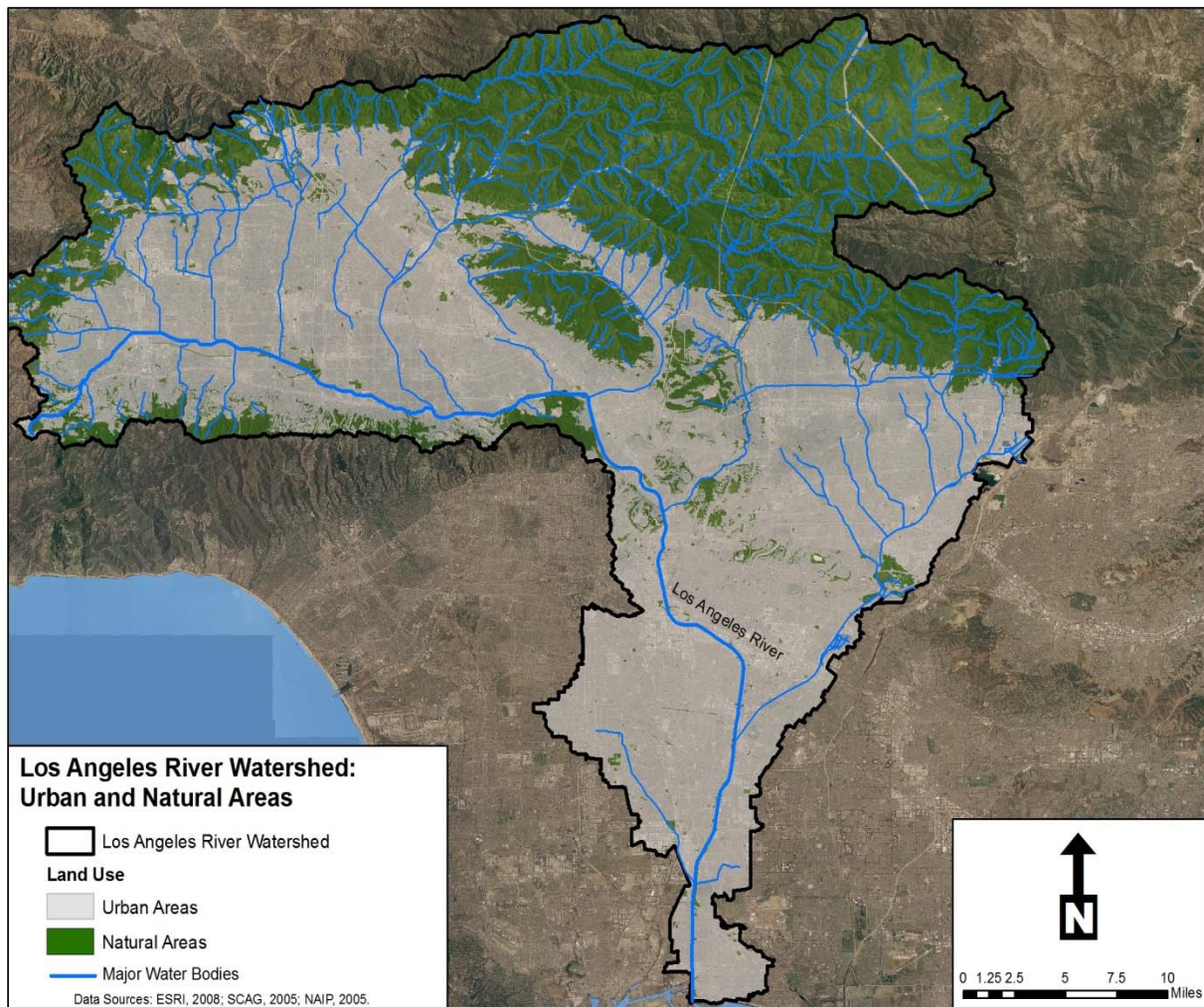


Figure 3. Boundaries of the Application of the Lead Site Specific Objectives

4 Incorporating SSOs into the Metals TMDL

SSOs for Cu and Pb

Metals TMDL

MS4 Permit

SSO Impacts

CWC 13241

Anti-degradation

Anti-backsliding

Monitoring & Reporting

The proposed SSOs are appropriate for updating the Metals TMDL targets, loading capacity, and waste load allocations (WLAs). The following subsections detail the proposed changes to the Metals TMDL based on the SSOs.

4.1 TMDL Targets

The targets in the Metals TMDL are based on CTR criteria. Separate targets were developed for dry and wet weather to address variation in hardness values and flow conditions in the LA River and tributaries. Dry weather targets are based on the more limiting of the chronic or acute CTR criteria (chronic for copper and lead). Wet weather targets were based on acute criteria given that storms are generally short-term and episodic in nature. The TMDL targets for copper and lead during dry weather are based on the 50th percentile of the hardness data for each reach. Targets for Tujunga Wash, Verdugo Wash and Arroyo Seco are based on hardness values in the LA River Reaches 4, 3 and 2, respectively. Site-specific copper translators were utilized to convert the dissolved criteria to total criteria immediately downstream

of the Tillman and LA-Glendale water reclamation plants (WRPs) during dry weather. CTR default conversion factors were used for copper and lead in all other cases during dry weather. **Table 4** and **Table 5** present the dry weather Metals TMDL hardness/conversion factors and numeric targets (prior to incorporation of the SSOs), respectively. **Table 6** presents the updated dry weather Metals TMDL numeric targets based on the copper and lead SSOs presented in **Table 2** and **Table 3**, respectively, and the hardness and translator values used in the TMDL.

Table 4. Hardness and Dry Weather Conversion Factors Used in the LA River Metals TMDL

Waterbody	TMDL Hardness	Conversion Factor	
		Copper	Lead
LA River Reach 5, 6, and Bell Creek	400	0.96	0.59
LA River Reach 4	246	0.74	0.66
LA River Reach 3 above LAG and Verdugo Wash	282	0.96	0.64
LA River Reach 3 below LAG	278	0.80	0.64
Burbank Western Channel (above BWRP)	326	0.96	0.62
Burbank Western Channel (below BWRP)	229	0.96	0.67
LA River Reach 2 and Arroyo Seco	268	0.96	0.65
LA River Reach 1	282	0.96	0.64
Tujunga Wash	246	0.96	0.66
Compton Creek	225	0.96	0.67
Rio Hondo	141	0.96	0.74
Monrovia Canyon Creek	209	0.96	0.68

Table 5. LA River Metals TMDL Dry Weather Numeric Targets for Copper and Lead (μg total recoverable metals/L)

Waterbody	Copper WER	Copper	Lead
LA Reach 5, 6, and Bell Creek	1.0	WER x 30	WER ⁽¹⁾ x 19
LA Reach 4	3.96	WER x 26	WER ⁽¹⁾ x 10
LA Reach 3 above LAG and Verdugo Wash	3.96	WER x 23	WER ⁽¹⁾ x 12
LA Reach 3 below LAG	3.96	WER x 26	WER ⁽¹⁾ x 12
Burbank Western Channel (above BWRP)	3.96	WER x 26	WER ⁽¹⁾ x 14
Burbank Western Channel (below BWRP)	3.96	WER x 19	WER ⁽¹⁾ x 9.1
LA Reach 2 and Arroyo Seco	3.96	WER x 22	WER ⁽¹⁾ x 11
LA Reach 1	3.96	WER x 23	WER ⁽¹⁾ x 12
Compton Creek	1.0	WER x 19	WER ⁽¹⁾ x 8.9
Rio Hondo	1.0	WER x 13	WER ⁽¹⁾ x 5.0
Monrovia Canyon Creek	-	-	WER ⁽¹⁾ x 8.2

1. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.

Table 6. Revised LA River Metals TMDL Dry Weather Numeric Targets for Copper and Lead (μg total recoverable metals/L)

Waterbody	Copper WER	Copper Target	WER-Incorporated Copper Target	Lead Target
LA Reach 5, 6, and Bell Creek	1.0	WER ⁽¹⁾ x 30	30	WER ⁽¹⁾ x 170
LA Reach 4	3.971	WER x 26	102	WER ⁽¹⁾ x 83
LA Reach 3 above LAG	3.971	WER x 23	91	WER ⁽¹⁾ x 102
LA Reach 3 below LAG	3.971	WER x 26	104	WER ⁽¹⁾ x 100
LA Reach 2	3.971	WER x 22	87	WER ⁽¹⁾ x 94
LA Reach 1	3.971	WER x 23	91	WER ⁽¹⁾ x 102
Tujunga Wash	8.279	WER x 20	164	WER ⁽¹⁾ x 83
Burbank Western Channel (above BWRP)	5.441	WER x 26	141	WER ⁽¹⁾ x 126
Burbank Western Channel (below BWRP)	4.746	WER x 19	90	WER ⁽¹⁾ x 75
Verdugo Wash	2.176	WER x 23	50	WER ⁽¹⁾ x 102
Arroyo Seco	1.324	WER x 22	29	WER ⁽¹⁾ x 94
Compton Creek	3.364	WER x 19	63	WER ⁽¹⁾ x 73
Rio Hondo	9.691	WER x 13	121	WER ⁽¹⁾ x 37
Monrovia Canyon Creek	1.0			WER ⁽¹⁾ x 66

1. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.

The TMDL targets for wet weather conditions for copper and lead are based on a median hardness value (80 mg/L) from 42 storm composite samples collected at the MS4 monitoring

program's Wardlow Station between 1996 and 2002.² These same data were used in a regression analysis to evaluate the relationship between dissolved and total recoverable metals in storm water. **Table 7** and **Table 8** present the wet weather Metals TMDL conversion factors and numeric targets, respectively. **Table 9** presents the updated wet weather Metals TMDL numeric targets based on the copper and lead SSOs presented in **Table 2** and **Table 3**, respectively, and translator values used in the TMDL.

Table 7. Wet Weather Conversion Factors Utilized in the LA River Metals TMDL

Copper	Lead
0.65	0.82

Table 8. LA River Metals TMDL Wet Weather Numeric Targets for Copper and Lead (μg total recoverable metals/L)

Copper	Lead
WER ⁽¹⁾ x 17 $\mu\text{g/L}$	WER ⁽²⁾ x 62 $\mu\text{g/L}$

1. The WER for this constituent is 3.96.
2. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.

Table 9. Revised LA River Metals TMDL Wet Weather Numeric Targets for Copper and Lead (μg total recoverable metals/L)

Waterbody	Copper WER	Copper Target	WER-Incorporated Copper Target	Lead Target
LA Reach 5, 6, and Bell Creek	1.0	WER ⁽¹⁾ x 17	17	WER ⁽¹⁾ x 94
LA Reach 4	3.971	WER x 17	67	WER ⁽¹⁾ x 94
LA Reach 3 above LAG	3.971	WER x 17	67	WER ⁽¹⁾ x 94
LA Reach 3 below LAG	3.971	WER x 17	67	WER ⁽¹⁾ x 94
LA Reach 2	3.971	WER x 17	67	WER ⁽¹⁾ x 94
LA Reach 1	3.971	WER x 17	67	WER ⁽¹⁾ x 94
Tujunga Wash	8.279	WER x 17	139	WER ⁽¹⁾ x 94
Burbank Western Channel (above BWRP)	5.441	WER x 17	92	WER ⁽¹⁾ x 94
Burbank Western Channel (below BWRP)	4.746	WER x 17	81	WER ⁽¹⁾ x 94
Verdugo Wash	2.176	WER x 17	37	WER ⁽¹⁾ x 94
Arroyo Seco	1.324	WER x 17	23	WER ⁽¹⁾ x 94
Compton Creek	3.364	WER x 17	56	WER ⁽¹⁾ x 94
Rio Hondo	9.691	WER x 17	162	WER ⁽¹⁾ x 94
Monrovia Canyon Creek	1.0	WER ⁽¹⁾ x 17	17	WER ⁽¹⁾ x 94

1. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.

² The TMDL defines wet weather as those when the maximum daily flow measured at the Wardlow station is equal to or greater than the 90th percentile of measured flows (500 cubic feet per second).

4.2 TMDL Loading Capacities and Waste Load Allocations

The loading capacities in the Metals TMDL are based on the dry and wet weather numeric targets and specific flow conditions. The load allocations and WLAs are then assigned to the various nonpoint and point sources, respectively. The following subsections present the Metals TMDL loading capacities and WLAs as well as the revised loading capacities and WLAs using the updated numeric targets based on the copper and lead SSOs.

4.2.1 Dry Weather Loading Capacity

The following presents the description of the calculation of the dry weather loading capacities as presented in the Metals TMDL.

For dry weather, loading capacities are equal to reach-specific numeric targets multiplied by reach-specific critical dry-weather flows. Summing the critical flows for each reach and tributary, the critical flow for the entire river is 203 cubic feet per second (cfs), which is equal to the combined design flow of the three POTWs (169 cfs) plus the median flow from the storm drains and tributaries (34 cfs). The median storm drain and tributary flow is equal to the median flow at Wardlow (145 cfs) minus the existing median POTW flow (111 cfs). The dry-weather loading capacities for each impaired reach include the critical flows for upstream reaches. The dry-weather loading capacity for Reach 5 includes flows from Reach 6 and Bell Creek, the dry-weather loading capacity for Reach 3 includes flows from Verdugo Wash, and the dry weather loading capacity for Reach 2 includes flows from Arroyo Seco.

No dry weather loading capacities were calculated for lead in Monrovia Canyon Creek and a concentration-based allocation was assigned. **Table 10** presents the critical dry-weather flows listed in the TMDL as well as the dry weather loading capacities. When following the calculation method presented in the TMDL, several of the dry weather loading capacities listed in the TMDL appear to be incorrect. As presented in the TMDL, the critical dry weather flows for Reach 5, Reach 3, and Reach 2 include critical flows for upstream reaches. However, the loading capacities for Reach 2 and Reach 3 do not correspond to the loading capacity that would result from multiplying the reach-specific numeric targets by the TMDL critical flow (shown in **Table 10**). The difference between the loading capacity in the TMDL and the updated loading capacity in **Table 10** is due to the loading capacity listed in the TMDL not including critical flows from all instream stations. For example, in the case of the loading capacity for copper in Reach 2, the critical flow listed in the TMDL (4.44 cfs) is the sum of critical flows from the LAR-7, LAR-8, and Arroyo Seco stations. As a result, the reach-specific numeric target for copper (22 µg/L) multiplied by the critical flow listed in the TMDL (4.44 cfs) results in a loading capacity of 0.24 kg/day multiplied by the WER (as shown in **Table 10**).³ However, the loading capacity listed in the TMDL is 0.16 kg/day. This loading capacity was calculated by multiplying the reach-specific numeric target for copper (22 µg/L) by the sum of the critical flows from only the LAR-8 and Arroyo Seco stations (3.04 cfs). When the critical flow from the LAR-7 station

³ The reach specific numeric target of 22 µg/L is taken from the TMDL as listed in **Table 5** and **Table 6**. The dry weather critical flow is taken from the TMDL as listed in **Table 10** and **Table 11**. Thus, multiplying those two values by each other and conversion factors of 10^{-9} (µg to kg), 28.32 (L to ft³), and 86,400 (seconds to day) results in a loading capacity of 0.24 kg/d.

(1.40 cfs) is incorporated, the resultant critical flow is the critical flow presented in the TMDL (4.44 cfs). Using the correct critical flow also updates the loading capacity for lead in Reach 2.

A similar error appears to have occurred during the calculation of the loading capacity for copper and lead in Reach 3. Using copper as an example, the critical flow for Reach 3 in the TMDL (39.14 cfs) is the sum of critical flows from the LAR-4, LAR-5, LAR-6, and Verdugo Wash stations. As a result, the reach-specific numeric target for copper (26 µg/L) multiplied by the TMDL critical flow (39.14 cfs) results in a loading capacity of 2.5 kg/day multiplied by the WER (as shown in **Table 10**). However, the loading capacity listed in the TMDL is 2.3 kg/day. This loading capacity was calculated by multiplying the reach-specific numeric target for copper (26 µg/L) by the sum of the critical flows from only the LAR-5 and Verdugo Wash stations (35.20 cfs). When the critical flow from the LAR-4 and LAR-6 stations (3.94 cfs) is incorporated, the resultant critical flow is the critical flow listed in the TMDL (39.14 cfs). Utilizing the updated numeric targets presented in **Table 6** and the critical dry weather flows listed in the TMDL, **Table 11** presents the updated dry weather loading capacities. Because the dry weather target is not uniform throughout the Burbank Western Channel, the dry weather loading capacities within the Burbank Western Channel above and below the BWRP have been distinguished from each other. As per the Metals TMDL staff report, given the absence of flow records, an area-weighted approach was used to divide the critical flow among both segments of the Burbank Western Channel. The critical flow for the Burbank Western Channel below the BWRP includes the critical flow associated with the BWRP.

Table 10. Dry Weather Loading Capacities Calculated in the LA River Metals TMDL for Copper and Lead (total recoverable metals)

Waterbody	Critical Flow (cfs)	Copper (kg/day)	Lead (kg/day)
LA Reach 5	8.74	WER ⁽¹⁾ x 0.65	WER ⁽¹⁾ x 0.40
LA Reach 4	129.13	WER ⁽²⁾ x 8.1	WER ⁽¹⁾ x 3.2
LA Reach 3	39.14	WER ⁽²⁾ x 2.5	WER ⁽¹⁾ x 1.12
LA Reach 2	4.44	WER ⁽²⁾ x 0.24	WER ⁽¹⁾ x 0.12
LA Reach 1	2.58	WER ⁽²⁾ x 0.14	WER ⁽¹⁾ x 0.075
Tujunga Wash	0.15	WER ⁽¹⁾ x 0.007	WER ⁽¹⁾ x 0.0035
Burbank Western Channel	17.3	WER ⁽²⁾ x 0.80	WER ⁽¹⁾ x 0.39
Rio Hondo	0.50	WER ⁽¹⁾ x 0.015	WER ⁽¹⁾ x 0.0061
Compton Creek	0.90	WER ⁽¹⁾ x 0.041	WER ⁽¹⁾ x 0.020

1. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.
2. The WER for this constituent in this reach was 3.96.

Table 11. Dry Weather Loading Capacities Calculated Utilizing the Updated Numeric Targets for Copper and Lead (total recoverable metals)

Waterbody	Critical Flow (cfs)	Copper (kg/day)	Lead (kg/day)
LA Reach 5	8.74	WER ⁽¹⁾ x 0.65	WER ⁽¹⁾ x 3.6
LA Reach 4	129.13	3.971 ⁽²⁾ x 8.1	WER ⁽¹⁾ x 26
LA Reach 3	39.14	3.971 ⁽²⁾ x 2.5	WER ⁽¹⁾ x 9.5
LA Reach 2	4.44	3.971 ⁽²⁾ x 0.24	WER ⁽¹⁾ x 1.03
LA Reach 1	2.58	3.971 ⁽²⁾ x 0.14	WER ⁽¹⁾ x 0.64
Tujunga Wash	0.15	8.2792 x 0.007	WER ⁽¹⁾ x 0.030
Burbank Western Channel (above BWRP)	2.8	5.441 x 0.18	WER ⁽¹⁾ x 0.88
Burbank Western Channel (below BWRP)	14.5	4.746 x 0.66	WER ⁽¹⁾ x 2.7
Rio Hondo	0.50	9.691 x 0.015	WER ⁽¹⁾ x 0.045
Compton Creek	0.90	3.364 x 0.041	WER ⁽¹⁾ x 0.16

1. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.
2. The WER for this constituent in this reach was 3.96.

4.2.2 Dry Weather Waste Load Allocations

The following presents the description of the calculation of the dry weather WLAs as presented in the Metals TMDL. A grouped WLA applies to the storm water permittees (Los Angeles County MS4, Long Beach MS4, Caltrans, General Industrial and General Construction), which is calculated by subtracting load allocations (and WLAs for reaches with POTWs) from the total loading capacity according to the following equation:

$$TMDL = POTW + Direct\ Air\ Deposition + Open\ Space + Combined\ Storm\ Water\ Sources$$

Dry weather WLAs for storm water are equal to storm drain flows (critical flows minus median POTW flows minus median open space flows) multiplied by reach-specific numeric targets, minus the contribution from direct air deposition according to the following equation:

$$Storm\ Water\ Dry\ Weather\ WLA = TMDL\ Target * (Critical\ Flow - Median\ POTW\ Flow - Median\ Open\ Space\ Flow) - Direct\ Air\ Deposition$$

The remaining WLAs are shared by the MS4 permittees and Caltrans. **Table 12** presents the dry weather POTW WLAs listed in the Metals TMDL and the updated dry weather POTW WLAs. For copper, the dry weather POTW WLAs remains the same other than the value of the WER. **Table 13** presents the dry weather open space load allocations listed in the Metals TMDL and the updated dry weather open space load allocations. For copper, the dry weather open space load allocations remain the same. Dry weather open space load allocations are only assigned to Tujunga Wash and Arroyo Seco because limited data are available on dry weather flow from the Santa Susana Mountains, the Santa Susana Mountains area is small compared to the Angeles National Forest, there is no evidence of copper and lead impairments in LA River Reach 6, and flows from tributaries of the Rio Hondo that drain the Angeles National Forest do not reach Rio Hondo Reach 1 or the mainstem of the LA River during dry weather. **Table 14** presents the dry

weather direct atmospheric deposition load allocations listed in the Metals TMDL. The load allocations for direct atmospheric deposition are obtained from previous studies; thus, the dry weather direct atmospheric deposition load allocations do not need to be recalculated. The only revision to the dry weather direct atmospheric deposition load allocations is to distinguish between the dry weather direct atmospheric deposition load allocations within the Burbank Western Channel above and below the BWRP (**Table 15**). Additionally, as the load allocations for direct atmospheric deposition are based on current loadings derived from studies, the WER factor is not applicable.

Table 12. Publicly Owned Treatment Works (POTW) Dry Weather Waste Load Allocations Calculated in the LA River Metals TMDL and Utilizing the Updated Numeric Targets for Copper and Lead (total recoverable metals)

POTW	Copper (TMDL)	Copper (Updated)	Lead (TMDL)	Lead (Updated)
Donald C. Tillman				
Concentration-based (µg/L)	WER ⁽¹⁾ x 26	WER ⁽²⁾ x 26	WER ⁽⁴⁾ x 10	WER ⁽⁴⁾ x 83
Mass-based (kg/day)	WER ⁽¹⁾ x 7.8	WER ⁽²⁾ x 7.8	WER ⁽⁴⁾ x 3.03	WER ⁽⁴⁾ x 25
Los Angeles-Glendale				
Concentration-based (µg/L)	WER ⁽¹⁾ x 26	WER ⁽²⁾ x 26	WER ⁽⁴⁾ x 12	WER ⁽⁴⁾ x 100
Mass-based (kg/day)	WER ⁽¹⁾ x 2.0	WER ⁽²⁾ x 2.0	WER ⁽⁴⁾ x 0.88	WER ⁽⁴⁾ x 7.6
Burbank				
Concentration-based (µg/L)	WER ⁽¹⁾ x 19	WER ⁽³⁾ x 19	WER ⁽⁴⁾ x 9.1	WER ⁽⁴⁾ x 75
Mass-based (kg/day)	WER ⁽¹⁾ x 0.64	WER ⁽³⁾ x 0.64	WER ⁽⁴⁾ x 0.31	WER ⁽⁴⁾ x 2.6

1. The WER for this constituent was 3.96.
2. The WER for this constituent is 3.971.
3. The WER for this constituent is 4.746.
4. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.

Table 13. Open Space Dry Weather Load Allocations Calculated in the LA River Metals TMDL and Utilizing the Updated Numeric Targets for Copper and Lead (kg/day total recoverable metals)

Waterbody	Critical Flow (cfs)	Copper (TMDL)	Copper (Updated)	Lead (TMDL)	Lead (TMDL)
Tujunga Wash	0.12	0.0056	0.0056	0.0028	0.0237
Arroyo Seco	0.33	0.018	0.018	0.009	0.076

Table 14. Direct Atmospheric Deposition Dry Weather Load Allocations Calculated in the LA River Metals TMDL for Copper and Lead (total recoverable metals)

Waterbody	Copper (kg/day)	Lead (kg/day)
LA River Reach 6	3.3×10^{-4}	2.2×10^{-4}
LA River Reach 5	3.6×10^{-4}	2.4×10^{-4}
LA River Reach 4	8.1×10^{-4}	5.4×10^{-4}
LA River Reach 3	6.0×10^{-4}	4.03×10^{-4}
LA River Reach 2	1.4×10^{-3}	9.5×10^{-4}
LA River Reach 1	4.4×10^{-4}	2.96×10^{-4}
Bell Creek	2.98×10^{-4}	1.99×10^{-4}
Tujunga Wash	7.4×10^{-4}	4.9×10^{-4}
Burbank Western Channel	7.1×10^{-4}	4.7×10^{-4}
Verdugo Wash	4.7×10^{-4}	3.2×10^{-4}
Arroyo Seco	7.3×10^{-4}	4.9×10^{-4}
Rio Hondo	6.4×10^{-4}	4.2×10^{-4}
Compton Creek	6.5×10^{-4}	4.3×10^{-4}

Table 15. Revised Direct Atmospheric Deposition Dry Weather Load Allocations for Copper and Lead (total recoverable metals)

Waterbody	Copper (kg/day)	Lead (kg/day)
LA River Reach 6	3.3×10^{-4}	2.2×10^{-4}
LA River Reach 5	3.6×10^{-4}	2.4×10^{-4}
LA River Reach 4	8.1×10^{-4}	5.4×10^{-4}
LA River Reach 3	6.0×10^{-4}	4.03×10^{-4}
LA River Reach 2	1.4×10^{-3}	9.5×10^{-4}
LA River Reach 1	4.4×10^{-4}	2.96×10^{-4}
Bell Creek	2.98×10^{-4}	1.99×10^{-4}
Tujunga Wash	7.4×10^{-4}	4.9×10^{-4}
Burbank Western Channel (above BWRP)	3.1×10^{-4}	2.0×10^{-4}
Burbank Western Channel (below BWRP)	1.7×10^{-4}	1.1×10^{-4}
Verdugo Wash	4.7×10^{-4}	3.2×10^{-4}
Arroyo Seco	7.3×10^{-4}	4.9×10^{-4}
Rio Hondo	6.4×10^{-4}	4.2×10^{-4}
Compton Creek	6.5×10^{-4}	4.3×10^{-4}

Table 16 presents the storm water dry weather WLAs and storm drain flows listed in the Metals TMDL. As previously mentioned, dry weather WLAs are equal to reach-specific numeric targets multiplied by storm drain flows. When following this calculation method for the numeric targets listed in the Metals TMDL and the storm drain flows listed in the TMDL, a few of the dry weather WLAs listed in the Metals TMDL appear to be incorrect.

As presented in the TMDL, the storm drain flows are equal to critical flows minus median POTW flows minus median open space flows. However, the WLAs for Reach 2 and Reach 3 listed in the TMDL do not correspond to the WLAs that should result from multiplying the reach-specific numeric target by the storm drain flow listed in the TMDL (shown in **Table 16**). The difference between the WLA listed in the TMDL and the different WLA listed in **Table 16** is due to the WLA listed in the TMDL not including storm drain flows from all instream stations. For example, in the case of the WLA for copper in Reach 2, the storm drain flow listed in the TMDL (3.86 cfs) is the sum of the storm drain flows from the LAR-7 and LAR-8 stations. As a result, the reach-specific numeric target for copper (22 µg/L) multiplied by the storm drain flow listed in the TMDL (3.86 cfs) results in a WLA of 0.21 kg/day multiplied by the WER (as shown in **Table 16**). However, the WLA listed in the TMDL is 0.13 kg/day. This WLA was calculated by multiplying the reach-specific numeric target for copper (22 µg/L) by the storm drain flow from only the LAR-8 station (2.46 cfs). When the storm drain flow from the LAR-7 station (1.40 cfs) is included, the resultant storm drain flow is the critical flow listed in the TMDL (3.86 cfs). Using the correct storm drain flow also updates the WLA for lead in Reach 2.

A similar error appears to have occurred during the calculation of the WLAs for copper and lead in Reach 3. Using copper as an example, the storm drain flow for Reach 3 listed in the TMDL (4.84 cfs) is the sum of storm drain flows from the LAR-4, LAR-5, and LAR-6 stations. As a result, the reach-specific numeric target for copper (26 µg/L) multiplied by the storm drain flow listed in the TMDL (4.84 cfs) results in a WLA of 0.31 kg/day multiplied by the WER (as shown in **Table 16**). However, the WLA listed in the TMDL is 0.06 kg/day. This WLA was calculated by multiplying the reach-specific numeric target for copper (26 µg/L) by the storm drain flow from only the LAR-5 station (0.90 cfs). When the storm drain flow from the LAR-4 and LAR-6 stations (3.94 cfs) are included, the resultant storm drain flow is the critical flow listed in the TMDL (4.84 cfs). **Table 17** presents the updated storm water dry weather WLAs for the MS4s and Caltrans based on the updated dry weather loading capacities presented in **Table 11**.

Table 16. Storm Water Dry Weather Waste Load Allocations Calculated in the LA River Metals TMDL for Copper and Lead (total recoverable metals)

Waterbody	Critical Flow (cfs)	Copper (kg/day)	Lead (kg/day)
LA River Reach 6	7.20	WER ⁽¹⁾ x 0.53	WER ⁽¹⁾ x 0.33
LA River Reach 5	0.75	WER ⁽¹⁾ x 0.05	WER ⁽¹⁾ x 0.03
LA River Reach 4	5.13	WER ⁽¹⁾ x 0.32	WER ⁽¹⁾ x 0.12
LA River Reach 3	4.84	WER ⁽¹⁾ x 0.31	WER ⁽¹⁾ x 0.14
LA River Reach 2	3.86	WER ⁽¹⁾ x 0.21	WER ⁽¹⁾ x 0.11
LA River Reach 1	2.58	WER ⁽¹⁾ x 0.14	WER ⁽¹⁾ x 0.07
Bell Creek	0.79	WER ⁽¹⁾ x 0.06	WER ⁽¹⁾ x 0.04
Tujunga Wash	0.03	WER ⁽¹⁾ x 0.001	WER ⁽¹⁾ x 0.0002
Burbank Western Channel	3.3	WER ⁽¹⁾ x 0.15	WER ⁽¹⁾ x 0.07
Verdugo Wash	3.3	WER ⁽¹⁾ x 0.18	WER ⁽¹⁾ x 0.10
Arroyo Seco	0.25	WER ⁽¹⁾ x 0.01	WER ⁽¹⁾ x 0.01
Rio Hondo	0.50	WER ⁽¹⁾ x 0.01	WER ⁽¹⁾ x 0.006
Compton Creek	0.90	WER ⁽¹⁾ x 0.04	WER ⁽¹⁾ x 0.02

1. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.

Table 17. Storm Water Dry Weather Waste Load Allocations Calculated Utilizing the Updated Numeric Targets for Copper and Lead (total recoverable metals)

Waterbody	Critical Flow (cfs)	Copper WER	Copper (kg/day)	Lead (kg/day)
LA River Reach 6	7.20	1.0	WER ⁽¹⁾ x 0.53	WER ⁽¹⁾ x 3.0
LA River Reach 5	0.75	1.0	WER ⁽¹⁾ x 0.05	WER ⁽¹⁾ x 0.31
LA River Reach 4	5.13	3.971	WER x 0.32	WER ⁽¹⁾ x 1.0
LA River Reach 3	4.84	3.971	WER x 0.31	WER ⁽¹⁾ x 1.2
LA River Reach 2	3.86	3.971	WER x 0.21	WER ⁽¹⁾ x 0.89
LA River Reach 1	2.58	3.971	WER x 0.14	WER ⁽¹⁾ x 0.64
Bell Creek	0.79	1.0	WER ⁽¹⁾ x 0.06	WER ⁽¹⁾ x 0.33
Tujunga Wash	0.03	8.279	WER x 0.001	WER ⁽¹⁾ x 0.005
Burbank Western Channel (above BWRP)	2.85	5.441	WER x 0.18	WER ⁽¹⁾ x 0.88
Burbank Western Channel (below BWRP)	0.49	4.746	WER x 0.02	WER ⁽¹⁾ x 0.09
Verdugo Wash	3.30	2.176	WER x 0.18	WER ⁽¹⁾ x 0.82
Arroyo Seco	0.25	1.324	WER x 0.01	WER ⁽¹⁾ x 0.06
Rio Hondo	0.50	9.691	WER x 0.01	WER ⁽¹⁾ x 0.04
Compton Creek	0.90	3.364	WER x 0.04	WER ⁽¹⁾ x 0.16

1. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.

4.2.3 Wet Weather Loading Capacity

The wet weather loading capacities in the Metals TMDL are calculated by multiplying daily storm volumes by the wet weather numeric target for each metal. **Table 18** presents the resulting loading capacities listed in the Metals TMDL. Utilizing the updated numeric targets presented in **Table 9**, **Table 19** presents the updated wet weather loading capacities that identify the load allowance for a given flow.

Table 18. Wet Weather Loading Capacities in the LA River Metals TMDL for Copper and Lead (total recoverable metals)

Metal	Load Duration Curve (kg/day)
Copper	Daily storm volume x WER ⁽¹⁾ x 17 µg/L
Lead	Daily storm volume x WER ⁽²⁾ x 62 µg/L

1. The WER for this constituent in this reach was 3.96.
2. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.

Table 19. Wet Weather Loading Capacities Calculated Utilizing the Updated Numeric Targets for Copper and Lead (total recoverable metals)

Waterbody	Load Duration Curve (kg/day)	
	Copper	Lead
LA Reach 5, 6, and Bell Creek	DSV x WER ⁽¹⁾ x 17 µg/L	DSV x WER ⁽¹⁾ x 94 µg/L
LA Reach 4	DSV x 3.9712 x 17 µg/L	DSV x WER ⁽¹⁾ x 94 µg/L
LA Reach 3	DSV x 3.9712 x 17 µg/L	DSV x WER ⁽¹⁾ x 94 µg/L
LA Reach 2	DSV x 3.9712 x 17 µg/L	DSV x WER ⁽¹⁾ x 94 µg/L
LA Reach 1	DSV x 3.9712 x 17 µg/L	DSV x WER ⁽¹⁾ x 94 µg/L
Tujunga Wash	DSV x 8.2792 x 17 µg/L	DSV x WER ⁽¹⁾ x 94 µg/L
Burbank Western Channel (above BWRP)	DSV x 5.4412 x 17 µg/L	DSV x WER ⁽¹⁾ x 94 µg/L
Burbank Western Channel (below BWRP)	DSV x 4.7462 x 17 µg/L	DSV x WER ⁽¹⁾ x 94 µg/L
Verdugo Wash	DSV x 2.1762 x 17 µg/L	DSV x WER ⁽¹⁾ x 94 µg/L
Arroyo Seco	DSV x 1.3242 x 17 µg/L	DSV x WER ⁽¹⁾ x 94 µg/L
Rio Hondo	DSV x 9.6912 x 17 µg/L	DSV x WER ⁽¹⁾ x 94 µg/L
Compton Creek	DSV x 3.3642 x 17 µg/L	DSV x WER ⁽¹⁾ x 94 µg/L

DSV – Daily Storm Volume

1. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.
2. This value corresponds to the site-specific WER for this waterbody.

4.2.4 Wet Weather Waste Load Allocations

In the Metals TMDL, the wet weather WLAs for the grouped storm water permittees (MS4) were set equal to the total loading capacity minus the load allocations for open space and direct air deposition and the WLAs for the POTWs. Wet weather WLAs for the grouped storm water permittees apply to all reaches and tributaries. The combined storm water WLA is apportioned between the different storm water categories by their percent area of the portion of the watershed

served by storm drains. The Metals TMDL staff report provides the following summary for the LA River watershed of the total acreage for each storm water category:

- Combined storm water Permittees (MS4): 405,760 acres. This is equal to the total watershed area minus the open space area not covered by storm drains.
- Caltrans: 6,950 acres or 2% of the portion of the watershed served by storm drains. This is an approximation that reflects the area of the Department’s Right-of-Way that drains to LA River (Caltrans comment letter dated 8/26/2004.)
- Industrial: 21,415 acres or 5% of the portion of the watershed served by storm drains. Total acreage obtained from SWRCB enrollment database.
- Construction: 7,764 acres or 2% of the portion of the watershed served by storm drains. Total acreage was obtained from SWRCB enrollment database.
- Remaining allocated to the MS4: 369,631 acres or 91% of the portion of the watershed served by storm drains.

Table 20, Table 21, and Table 22 present the combined storm water wet-weather WLAs, the MS4 wet-weather WLAs, and the Caltrans wet-weather WLAs listed in the TMDL, respectively.

Table 20. Combined Storm Water Wet Weather Waste Load Allocations Calculated in the LA River Metals TMDL for Copper and Lead (total recoverable metals)

Metal	Waste Load Allocation (kg/day)
Copper	$WER^{(1)} \times 1.7 \times 10^{-8} \times \text{daily volume(L)} - 10$
Lead	$WER^{(1)} \times 6.2 \times 10^{-8} \times \text{daily volume(L)} - 4.2$

1. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.

Table 21. MS4 Wet Weather Waste Load Allocations Calculated in the LA River Metals TMDL for Copper and Lead (total recoverable metals)

Metal	Waste Load Allocation (kg/day)
Copper	$WER^{(1)} \times 1.5 \times 10^{-8} \times \text{daily volume(L)} - 9.5$
Lead	$WER^{(1)} \times 5.6 \times 10^{-8} \times \text{daily volume(L)} - 3.85$

1. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.

Table 22. Caltrans Wet Weather Waste Load Allocations Calculated in the LA River Metals TMDL for Copper and Lead (total recoverable metals)

Metal	Waste Load Allocation (kg/day)
Copper	$WER^{(1)} \times 2.9 \times 10^{-10} \times \text{daily volume(L)} - 0.2$
Lead	$WER^{(1)} \times 1.06 \times 10^{-9} \times \text{daily volume(L)} - 0.07$

1. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.

Utilizing the updated numeric targets presented in **Table 9, Table 23, Table 24, and Table 25** present the updated combined storm water wet-weather WLAs, updated MS4 wet-weather WLAs, and the updated Caltrans wet-weather WLAs, respectively.

Table 23. Combined Storm Water Wet Weather Waste Load Allocations Calculated Utilizing the Updated Numeric Targets for Copper and Lead (total recoverable metals)

Waterbody	Copper (kg/day)	Lead (kg/day)
LA River Reach 5, 6, and Bell Creek	$WER^{(1)} \times 1.7 \times 10^{-8} \times DSV - 10$	$WER^{(1)} \times 9.3 \times 10^{-8} \times DSV - 35$
LA River Reach 4	$3.971^{(2)} \times 1.7 \times 10^{-8} \times DSV - 10$	$WER^{(1)} \times 9.3 \times 10^{-8} \times DSV - 35$
LA River Reach 3	$3.971^{(2)} \times 1.7 \times 10^{-8} \times DSV - 10$	$WER^{(1)} \times 9.3 \times 10^{-8} \times DSV - 35$
LA River Reach 2	$3.971^{(2)} \times 1.7 \times 10^{-8} \times DSV - 10$	$WER^{(1)} \times 9.3 \times 10^{-8} \times DSV - 35$
LA River Reach 1	$3.971^{(2)} \times 1.7 \times 10^{-8} \times DSV - 10$	$WER^{(1)} \times 9.3 \times 10^{-8} \times DSV - 35$
Tujunga Wash	$8.279^{(2)} \times 1.7 \times 10^{-8} \times DSV - 10$	$WER^{(1)} \times 9.3 \times 10^{-8} \times DSV - 35$
Burbank Western Channel (above BWRP)	$5.441^{(2)} \times 1.7 \times 10^{-8} \times DSV - 10$	$WER^{(1)} \times 9.3 \times 10^{-8} \times DSV - 35$
Burbank Western Channel (below BWRP)	$4.746^{(2)} \times 1.7 \times 10^{-8} \times DSV - 10$	$WER^{(1)} \times 9.3 \times 10^{-8} \times DSV - 35$
Verdugo Wash	$2.176^{(2)} \times 1.7 \times 10^{-8} \times DSV - 10$	$WER^{(1)} \times 9.3 \times 10^{-8} \times DSV - 35$
Arroyo Seco	$1.324^{(2)} \times 1.7 \times 10^{-8} \times DSV - 10$	$WER^{(1)} \times 9.3 \times 10^{-8} \times DSV - 35$
Rio Hondo	$9.691^{(2)} \times 1.7 \times 10^{-8} \times DSV - 10$	$WER^{(1)} \times 9.3 \times 10^{-8} \times DSV - 35$
Compton Creek	$3.364^{(2)} \times 1.7 \times 10^{-8} \times DSV - 10$	$WER^{(1)} \times 9.3 \times 10^{-8} \times DSV - 35$

DSV – Daily Storm Volume

1. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.
2. This value corresponds to the site-specific WER for this waterbody.

Table 24. MS4 Wet weather Waste Load Allocations Calculated Utilizing the Updated Numeric Targets for Copper and Lead (total recoverable metals)

Waterbody	Copper (kg/day)	Lead (kg/day)
LA River Reach 5, 6, and Bell Creek	$WER^{(1)} \times 1.5 \times 10^{-8} \times DSV - 9.5$	$WER^{(1)} \times 8.5 \times 10^{-8} \times DSV - 32$
LA River Reach 4	$3.971^{(2)} \times 1.5 \times 10^{-8} \times DSV - 9.5$	$WER^{(1)} \times 8.5 \times 10^{-8} \times DSV - 32$
LA River Reach 3	$3.971^{(2)} \times 1.5 \times 10^{-8} \times DSV - 9.5$	$WER^{(1)} \times 8.5 \times 10^{-8} \times DSV - 32$
LA River Reach 2	$3.971^{(2)} \times 1.5 \times 10^{-8} \times DSV - 9.5$	$WER^{(1)} \times 8.5 \times 10^{-8} \times DSV - 32$
LA River Reach 1	$3.971^{(2)} \times 1.5 \times 10^{-8} \times DSV - 9.5$	$WER^{(1)} \times 8.5 \times 10^{-8} \times DSV - 32$
Tujunga Wash	$8.279^{(2)} \times 1.5 \times 10^{-8} \times DSV - 9.5$	$WER^{(1)} \times 8.5 \times 10^{-8} \times DSV - 32$
Burbank Western Channel (above BWRP)	$5.441^{(2)} \times 1.5 \times 10^{-8} \times DSV - 9.5$	$WER^{(1)} \times 8.5 \times 10^{-8} \times DSV - 32$
Burbank Western Channel (below BWRP)	$4.746^{(2)} \times 1.5 \times 10^{-8} \times DSV - 9.5$	$WER^{(1)} \times 8.5 \times 10^{-8} \times DSV - 32$
Verdugo Wash	$2.176^{(2)} \times 1.5 \times 10^{-8} \times DSV - 9.5$	$WER^{(1)} \times 8.5 \times 10^{-8} \times DSV - 32$
Arroyo Seco	$1.324^{(2)} \times 1.5 \times 10^{-8} \times DSV - 9.5$	$WER^{(1)} \times 8.5 \times 10^{-8} \times DSV - 32$
Rio Hondo	$9.691^{(2)} \times 1.5 \times 10^{-8} \times DSV - 9.5$	$WER^{(1)} \times 8.5 \times 10^{-8} \times DSV - 32$
Compton Creek	$3.364^{(2)} \times 1.5 \times 10^{-8} \times DSV - 9.5$	$WER^{(1)} \times 8.5 \times 10^{-8} \times DSV - 32$

DSV – Daily Storm Volume

1. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.
2. This value corresponds to the site-specific WER for this waterbody.

Table 25. Caltrans Wet Weather Waste Load Allocations Calculated Utilizing the Updated Numeric Targets for Copper and Lead (total recoverable metals)

Waterbody	Copper (kg/day)	Lead (kg/day)
LA River Reach 5, 6, and Bell Creek	$WER^{(1)} \times 2.9 \times 10^{-10} \times DSV - 0.2$	$WER^{(1)} \times 1.6 \times 10^{-9} \times DSV - 0.6$
LA River Reach 4	$3.971^{(2)} \times 2.9 \times 10^{-10} \times DSV - 0.2$	$WER^{(1)} \times 1.6 \times 10^{-9} \times DSV - 0.6$
LA River Reach 3	$3.971^{(2)} \times 2.9 \times 10^{-10} \times DSV - 0.2$	$WER^{(1)} \times 1.6 \times 10^{-9} \times DSV - 0.6$
LA River Reach 2	$3.971^{(2)} \times 2.9 \times 10^{-10} \times DSV - 0.2$	$WER^{(1)} \times 1.6 \times 10^{-9} \times DSV - 0.6$
LA River Reach 1	$3.971^{(2)} \times 2.9 \times 10^{-10} \times DSV - 0.2$	$WER^{(1)} \times 1.6 \times 10^{-9} \times DSV - 0.6$
Tujunga Wash	$8.279^{(2)} \times 2.9 \times 10^{-10} \times DSV - 0.2$	$WER^{(1)} \times 1.6 \times 10^{-9} \times DSV - 0.6$
Burbank Western Channel (above BWRP)	$5.441^{(2)} \times 2.9 \times 10^{-10} \times DSV - 0.2$	$WER^{(1)} \times 1.6 \times 10^{-9} \times DSV - 0.6$
Burbank Western Channel (below BWRP)	$4.746^{(2)} \times 2.9 \times 10^{-10} \times DSV - 0.2$	$WER^{(1)} \times 1.6 \times 10^{-9} \times DSV - 0.6$
Verdugo Wash	$2.176^{(2)} \times 2.9 \times 10^{-10} \times DSV - 0.2$	$WER^{(1)} \times 1.6 \times 10^{-9} \times DSV - 0.6$
Arroyo Seco	$1.324^{(2)} \times 2.9 \times 10^{-10} \times DSV - 0.2$	$WER^{(1)} \times 1.6 \times 10^{-9} \times DSV - 0.6$
Rio Hondo	$9.691^{(2)} \times 2.9 \times 10^{-10} \times DSV - 0.2$	$WER^{(1)} \times 1.6 \times 10^{-9} \times DSV - 0.6$
Compton Creek	$3.364^{(2)} \times 2.9 \times 10^{-10} \times DSV - 0.2$	$WER^{(1)} \times 1.6 \times 10^{-9} \times DSV - 0.6$

DSV – Daily Storm Volume

1. WER(s) have default value of 1.0 unless site-specific WER(s) are approved.
2. This value corresponds to the site-specific WER for this waterbody.

4.3 Determination of Loading Capacity and Waste Load Allocation Protectiveness in Downstream Waterbodies with Lower WERs

For instances where the loading capacity (which in turn determines the WLAs) for an upstream waterbody contains a WER that is greater than the WER present in downstream waterbodies (i.e., Tujunga Wash, Burbank Western Channel, and Rio Hondo), an analysis was undertaken to evaluate whether the loading capacities would support compliance in downstream LA River reaches. In addition, given that the WER calculated for Burbank Western Channel above the BWRP discharge is greater than the WER for Burbank Western Channel below the BWRP discharge, a similar analysis was conducted to evaluate the protectiveness of the loading capacities and WLAs for Burbank Western Channel above the BWRP discharge. Attainment of downstream TMDL targets for the LA River and in the Burbank Western Channel below the BWRP was evaluated based on current conditions and the estimated reductions in copper required to meet the concentrations used in calculating the TMDL loading capacities in Tujunga Wash, Burbank Western Channel, and Rio Hondo. The results of the analysis show that TMDL attainment in the LA River reaches immediately downstream from these tributaries, and in the reach of the Burbank Western Channel below the Burbank WRP, would not be adversely impacted by implementing the revised TMDL loading capacities if the TMDL is attained in the tributaries. All downstream reaches were projected to achieve the TMDL (defined as a median expected frequency of zero exceedances in three years), with at least a 99.2% level of confidence. Consequently, implementing these tributary-specific WERs is protective of the downstream reaches with lower WERs. The detailed analysis is presented as **Attachment A**.

5 Updating Limitations in the MS4 Permit

SSOs for Cu and Pb

Metals TMDL

MS4 Permit

SSO Impacts

CWC 13241

Anti-degradation

Anti-backsliding

Monitoring & Reporting

Part C. of Attachment O to the LA County MS4 Permit (Order R4-2102-0175) presents requirements associated with the Metals TMDL including interim and final water quality based effluent limitations (WQBELs). Three tables within Part C of Attachment O would be updated based on the SSOs and resulting changes in the Metals TMDL as outlined in **Section 4** above:

- Final Dry Weather WQBELs: The table contained within Part C.2.b would be replaced with **Table 17**, which presents the final dry weather MS4 WLAs.
- Final Dry Weather Concentration-Based WQBELs: The table contained within Part C.2.c would be replaced with **Table 6**, which presents the final dry weather targets.
- Final Wet Weather WQBELs: The table contained within Part C.2.d would be replaced with **Table 24**, which presents the final wet weather MS4 WLAs.

The Metals TMDL allows permittees to demonstrate WLAs are being met at their point of discharge on a mass basis and within the receiving waters on a concentration basis. Additional language within the BPA would support demonstrating compliance consistent with the intent of the Metals TMDL. The recently amended Ballona Creek Metals TMDL provides a template by which WLA compliance can be determined based on several different mechanisms. The following paragraph provides example language that could be incorporated into the WLA section of the BPA and directly into the LA County MS4 Western Permit to clarify how responsible parties can comply with the WLAs:

MS4 dischargers can demonstrate compliance with the interim and final WLAs by demonstrating one of the following conditions:

- Mass based allocations are met;
- Zero discharge;
- Dissolved water quality criteria are met in-stream; or,
- If permittees provide a quantitative demonstration as part of a watershed management program plan that control measures and BMPs will achieve WLAs consistent with the implementation schedule, then compliance with WLAs may be demonstrated by implementation of those control measures and BMPs, subject to Executive Officer approval.

6 Impacts of Implementing the SSOs

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This section presents a brief summary of the analysis of the protectiveness of the WERs presented in the Copper WER Report and includes consideration of current conditions and reasonable potential future conditions, and evaluates whether conditions allow the establishment of different SSOs for different sites or reaches of the same waterbody. Because the lead recalculation and the subsequent hardness-based WQC are applicable to all reaches, a similar analysis evaluating the effect of different SSOs is not necessary.

An analysis of the protectiveness of the copper SSOs resulting from implementation of the recommended WERs is included in the Copper WER Report (LWA 2014b). In the context of this analysis, "protectiveness" refers specifically to the level of protection for aquatic life that the national criterion is intended to provide. Since aquatic life is the beneficial use most sensitive to copper concentrations, criteria that protect this use will also protect other less sensitive beneficial uses.

The protectiveness of the recommended WERs and resulting SSOs was evaluated by comparing WER-adjusted copper criteria to No Observed Effect Concentrations (NOECs) estimated from the actual toxicity tests conducted as part of the WER Study. This method provided an intuitive and straightforward screening-level assessment of whether the WERs would have been protective for the samples analyzed for the study if ambient concentrations of copper in those samples had equaled the WER-adjusted criteria. In other words, if copper concentrations in the samples were less than or equal to the SSO, would one expect to see toxicity to Ceriodaphnia or other similarly sensitive species? To evaluate the protectiveness of recommended WERs and to be consistent with the Metals TMDL, results for wet weather samples were compared to the acute SSO and dry weather samples were compared to the chronic SSO. The diagnostic ratio was calculated by dividing the measured EC50⁴ for each sample by the SSO for each waterbody (the product of the CTR hardness-adjusted criterion and the WER), and calculating the average of the ratios for the site. The results of the analysis determined that the WERs provide a substantial margin of safety for those sites by generating SSOs that are below the NOEC. Please see Section 7 of the Copper WER Report (LWA 2014b) for additional details.

6.1 Future Conditions and Downstream Impacts

Establishment of different SSOs for portions of a waterbody is consistent with state and federal water quality criteria development processes as well as the current Metals TMDL. Waterbodies are often separated into multiple reaches due to varying characteristics and different water quality objectives are assigned to reaches based on site-specific characteristics. This approach is in practice in the Metals TMDL where TMDL targets were developed for different reaches and

⁴ Median Effect Concentration. The concentration which adversely affects 50% of the test species.

tributaries based on the different hardness values observed as well as the inclusion of the WER term directly into the targets, loading capacities, and allocations. The application of the copper SSOs follows the existing Metals TMDL approach by applying the WER value. The proposed changes to the TMDL targets, loading capacities, and WLAs presented in **Section 4** do not fundamentally change the Metals TMDL or level of protection. Rather, the proposed changes simply replace the current WER values in the Metals TMDL.

Implementing the SSOs in the Basin Plan (and ultimately in the TMDL and NPDES permits) is not expected to change or degrade the current receiving water quality. This fact applies equally to future conditions and potential downstream impacts. Complete implementation of the SSOs will result in changes to WLAs in the TMDL and WQBELs in NPDES permits, as described previously. However, the changes in the effluent limits and WLAs will not result in changes in the quality of the regulated discharges to receiving waters. This is because regulation and management of these discharges is multifaceted and consequently, it is not possible to control a discharge's quality to specifically increase only copper or lead concentrations in response to a change in the WLAs or WQBELs. The expected outcome of the SSO implementation is a reprioritization of management efforts to focus on other relatively more important water quality issues. Additionally, waters downstream of the LA River continue to be protected by the water quality objectives and TMDLs applicable in those waterbodies, and that protection would not be modified by implementation of these SSOs.

Additional compelling evidence that the SSOs will also be protective under reasonably expected future water quality conditions is provided by the number of samples and conditions evaluated for the WER study as well as the spatial and temporal consistency of the WERs derived using USEPA procedures. Concerns related to future applicability of the SSOs related to limited data sets (as expressed in the requirements to investigate WER results in USEPA guidance documents) were addressed by the extensive dataset developed for the WER Study. This data set allowed a thorough assessment of the range of hydrologic and seasonal conditions with the potential to impact copper WERs, and this assessment can also be considered applicable to reasonably expected future conditions. Rigorous statistical evaluation of the spatial and temporal consistency of site-water EC50s and WERs should also moderate concerns about other unidentified or un-quantified factors that might affect the biological availability of copper.

In brief, implementation of the SSOs is expected to continue to provide the intended protection of the criteria under reasonably expected future conditions and for downstream waters.

7 California Water Code Section 13241 Factors

SSOs for Cu and Pb	<p>When establishing water quality objectives in water quality control plans, Regional Boards are required to consider the following six factors identified in CWC Section 13241:</p> <ul style="list-style-type: none">• Past, present and probable beneficial uses of water.• Environmental characteristics of the hydrographic unit under consideration; including the quality of water available thereto.• Water quality conditions that could reasonably be achieved through the coordinated control of all factors that affect water quality in the area.• Economic considerations.• The need for developing housing within the region.• The need to develop and use recycled water. <p>These six factors must be considered in the context of the copper and lead SSOs, and are evaluated in the following subsections. The following analysis is consistent with previous SSO adoptions within</p>
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the Los Angeles Region (e.g., *Site Specific Objectives for Ammonia in the San Gabriel, Los Angeles, and Santa Clara River Watersheds* (LARWQCB 2007a)).

7.1 Beneficial Uses of Water

Definitions of the designated beneficial uses for waterbodies can be found in Chapter 2 of the Basin Plan. For copper and lead, the objectives to protect aquatic life beneficial uses are the most restrictive (lowest) objectives that apply in these waters because these are the uses that are most sensitive to concentrations of trace metals. This will remain the case if and when the proposed SSOs are implemented. Consequently, SSOs for these metals which are protective of aquatic life beneficial uses will also be protective of all other existing and potential beneficial uses.

The goal of developing SSOs for the Los Angeles River and tributaries is to take into account site-specific conditions in these waterbodies to modify the water quality objectives for copper and lead such that the objectives will still be fully protective of the aquatic life in these waterbodies. The WER and Recalculation procedures, developed by USEPA and used as the basis for the proposed SSOs, are designed to ensure that the modified water quality objectives are as protective of aquatic life as the national criteria. The 1986 USEPA document, *Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Organisms and Their Uses*, sets forth procedures to ensure that USEPA's recommended national criteria are protective. The WER and Recalculation Procedures are designed to achieve this same standard of protection for local water quality objectives, while taking into account site-specific characteristics of the waterbodies. Based on the characteristics of the underlying criteria and the fact that the procedures to develop SSOs are based on updating the criteria (lead recalculation) or reflecting site-specific conditions (WER) and the aquatic life beneficial use is recognized as the

most sensitive use to these metals, all past, present, and probable future beneficial uses are as protected by the SSOs as by the CTR criteria for copper and lead.

7.2 Environmental Characteristics of the Hydrographic Unit Under Consideration

The environmental characteristics of the relevant hydrographic units under consideration are described in Chapters 1 through 3 of the Basin Plan. The toxicity of a metal to aquatic life is influenced by a variety of physical and chemical characteristics of both the site water and the metal itself. Bioavailability and toxicity of copper are dependent on site-specific factors such as pH, hardness, suspended solids, dissolved carbon compounds, salinity, and other constituents. If there is a difference in toxicity due to the local site water and it is not taken into account, the aquatic life criteria for the waterbody will be more or less protective than intended by USEPA's 1986 *Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Organisms and Their Uses*.

In the case of the Recalculation Procedure for developing SSOs, the method is intended to take into account relevant differences between the sensitivity of species in the national dataset and those present in local waterbodies (instead of differences in water quality conditions) or can also consist simply of updates or revisions in the data set (not necessarily site-specific updates) as was done for the lead SSO and can therefore be treated as an update to the national WQC.

Because of the potential for site-specific conditions to vary from the conditions used to derive the national aquatic life criteria, USEPA provided guidance for three procedures that may be used to modify national criteria to account for site-specific characteristics (USEPA 1994). In the CTR, the USEPA also specifically provided for the adjustment of water quality for metals through the application by States of the WER procedure.

7.3 Water Quality Conditions that Could Reasonably be Achieved

The environmental setting of the watershed and the environmental factors affecting water quality and beneficial uses in these watersheds are described in Chapters 1 through 3 of the Basin Plan. As described in the LARWQCB Staff Report incorporating SSOs for ammonia (LARWQCB 2008), the adopted water quality standards are considered as the baseline or benchmark for water quality conditions that could reasonably be achieved through the coordinated control of all factors that affect water quality in the affected waters. This same assessment applies equally for SSOs, and no additional analysis beyond that set forth is required.

7.4 Economic Considerations

Municipalities and Caltrans are regulated under stormwater permits to discharge to the waterbodies affected by the SSOs and are expected to be the primary parties involved in compliance with the revised objectives. Implementation of the SSOs is not expected to require additional management or control for stormwater management agencies beyond what is currently required. Additional monitoring, in addition to current stormwater permit required monitoring, will be necessary (**Section 10**), but is relatively minor in comparison to management or control measures. Based on these findings, the incremental economic cost of implementation of the SSOs beyond what has already been required to meet existing objectives is expected to be

negligible for the regulated community. Additionally, there is no cost expected due to environmental degradation because the WER and recalculation procedures that are the basis for the proposed modifications are designed to result in SSOs that are equally protective of aquatic life (and as a result equally protective of all other beneficial uses) as intended for CTR criteria. Therefore, while the proposed SSOs are higher than the current CTR criteria, the change will not result in a decrease in the level of protection below the national standard.

7.5 The Need to Develop Housing Within the Region

The adoption and implementation of SSOs for copper and lead are not expected to affect the development of housing in Los Angeles County. The modified objectives are not expected to require additional treatment of wastewater or additional management of stormwater that could result in increased county or municipal costs that would in turn be transferred as increased cost to homeowners. The SSOs will not result in increased pollution with the potential to make the area undesirable for new housing development. Instead, implementation of the SSOs would provide an appropriate level of protection to support a healthy aquatic environment.

7.6 The Need to Develop and Use Recycled Water

The difference in the allowable copper and lead concentrations with or without a SSO is not significant relative to potential impacts on the development or use of recycled water because recycled water requires specified minimum water quality treatment technologies that depend on the end use of the recycled water. The concentrations required by CTR objectives and the proposed SSOs are both acceptable for application of the specified treatment technologies for recycled water.

8 Anti-degradation Review

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The purpose of this section is to evaluate the implementation of the recommended SSOs for consistency with the Federal and State anti-degradation policies. Anti-degradation policies adopted at both the Federal and State levels are intended to protect and maintain existing water quality. The anti-degradation analysis herein is conducted for the SSOs for copper and lead presented in **Section 3**. It is assumed that the WERs will be used to develop copper SSOs that will be adopted into the Basin Plan. If the copper WERs were only applied to specific dischargers via a permit modification or incorporated directly into the TMDL instead of being implemented as Basin Plan objectives, then an anti-degradation review would not be required because the WERs are part of the CTR copper criteria, which are the adopted water quality standard. Water quality standards modifications and site specific criteria adoption are not subject to anti-degradation review. (*See accord* 78 Fed. Reg. 54526 *citing Native Village of Point Hope v. U.S. EPA*, Case No. 3:11-cv-00200-TMB, slip op. at 24-25 (D. Alaska, Sept. 2012).

This findings presented in this section are consistent with the adoption of previous SSOs in the region for copper in the Calleguas Creek Watershed (LARWQCB Resolution 2006-003) and the adoption of SSOs for ammonia in the San Gabriel, Los Angeles, and Santa Clara River Watersheds (LARWQCB Resolution 2007-005). Similar to the adoption of the copper SSOs for Calleguas Creek and ammonia SSOs, the proposed SSOs will not lower the water quality of the waterbodies relative to existing conditions because additional loadings of copper and lead are not anticipated. Therefore, even if anti-degradation review applied to modifications of WQS, the modifications are consistent with the State’s anti-degradation policy (State Board Resolution 68-16) and federal anti-degradation requirements.

The Federal anti-degradation policy, originally adopted in 1975, is expressed as a regulation in 40 CFR 131.12 and requires that “water quality shall be maintained and protected”. More specifically, this Federal regulation requires States to develop and adopt a statewide anti-degradation policy and identify the methods for implementing such policy (i.e., to protect existing water quality). The State’s anti-degradation policy and implementation methods shall, at a minimum, be consistent with ensuring that existing water uses and the water quality necessary to protect these uses shall be maintained and protected. Where the quality of waters exceeds that necessary to support beneficial uses, measures shall be taken to ensure that water quality is maintained and protected unless the State finds that allowing degradation of water quality is necessary to accommodate important economic or social development in the area in which the waters are located.

The State’s policy for maintaining high quality waters in California was adopted in 1968 as a resolution of the SWRCB (Resolution No. 68-16). State policy requires that changes in water quality do not unreasonably affect beneficial uses, and sets forth the following requirements:

“Whenever the existing quality of water is better than the quality established in policies as of the date on which such policies become effective, such existing high quality will be maintained until it has been demonstrated to the State that any change will be consistent with maximum benefit to the people of the State, will not unreasonably affect present and anticipated beneficial use of such water and will not result in water quality less than that prescribed in the policies.”

“Any activity which produces or may produce a waste or increased volume or concentration of waste and which discharges or proposes to discharge to existing high quality waters will be required to meet waste discharge requirements which will result in the best practicable treatment or control of the discharge necessary to assure that (a) a pollution or nuisance will not occur and (b) the highest water quality consistent with maximum benefit to the people of the State will be maintained.”

Essentially, the State’s anti-degradation policy applies specifically to constrain activities that may result in lower water quality (e.g., substantially increased discharge volumes, new discharges, decreased discharge quality), and conversely does not restrict proposed activities that are not expected to change water quality. If a proposed activity does not change water quality, the State’s requirement to demonstrate that the change is “consistent with the maximum benefit to the people of the State” is not triggered. Water Quality Standards (“WQS” defined as *water quality criteria + beneficial use designations + anti-degradation provisions*) define the water quality needed to protect beneficial uses. Changes in the water quality objectives or criteria (including SSOs) that are part of the WQS will affect permits and TMDL targets and allocations, *but do not change (or degrade) the actual water quality*. Consequently, implementation of the proposed SSOs does not require the State to demonstrate that degradation of water quality is necessary to accommodate important economic or social development.

9 Anti-backsliding Review

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Anti-backsliding requirements apply when an NPDES permit is reissued and requires an assessment of whether the newly proposed effluent limitations, standards or conditions are at least as stringent as the final effluent limitations, standards, or conditions in the previous permit. If less stringent, then the revised effluent limits must be reviewed for consistency with the anti-backsliding provisions of the Clean Water Act (CWA) and associated regulations. For the proposed effluent limits presented in **Section 5**, anti-backsliding must be considered to determine if these new effluent limitations for the MS4 Permittees and Caltrans based on the updated TMDL WLAs meet the anti-backsliding requirements.

Section 402(o) of the CWA (33 U.S.C. §1342(o)) prohibits specific backsliding, provides exceptions to this general prohibition, and includes a floor that provides a limitation on how far a limit can backslide. Section 402(o) allows revisions to effluent limitations based on State WQSs if one of the exceptions in section 402(o)(2) is met or if the revision is consistent with CWA section 303(d)(4).

Sections 402(o)(2) and 303(d)(4) provide independent exceptions. Thus, backsliding is allowed if either of these two CWA provisions is met.

CWA section 303(d)(4) contains two parts and the applicable part depends on whether the WQSs have been met in the receiving waters.

- Section 303(d)(4)(A) – Where the applicable water quality standard has not yet been attained, a TMDL-based effluent limitation or other waste load allocation (“WLA”) may be revised only if (1) the cumulative effect of the revised effluent limitations based on the TMDL or WLA will assure the attainment of the water quality standard, or (2) the designated use which is not being attained is removed or modified in accordance with regulations established under this section.
- Section 303(d)(4)(B) – Where the applicable water quality standard has been attained, an effluent limitation may be revised only if such revision is subject to and consistent with the State’s anti-degradation policy.

The revised effluent limitations are based on the TMDL WLAs, which are intended to attain the applicable water quality standards. Therefore, the requirement that revised effluent limitations assure the attainment of the applicable water quality standard is met under the section 303(d)(4)(A) exception to the anti-backsliding prohibition.

Alternatively, under the SSO, if the water quality standards are being attained, the exception under section 303(d)(4)(B) would be met since the requirements of the Anti-degradation Policy are met as described in **Section 8**.

Additionally, under section 402(o)(2), a permit may be renewed, reissued, or modified to contain a less stringent effluent limitation applicable to a pollutant if any of the exceptions are met. The exception contained in section 402(o)(2)(B) would apply in this instance as backsliding would be allowed since “information is available which was not available at the time of permit issuance ...which would have justified the application of a less stringent effluent limitation at the time of permit issuance.” The SSOs provide such new information. As acknowledged on page 14 of the Staff Report for the Revisions to the TMDL for Nitrogen Compounds and Related Effects in the Los Angeles River (LARWQCB 2012), which incorporated the updated ammonia Basin Plan objectives into the TMDL, “the WER based SSOs provide new information and therefore the POTWs may meet the backsliding exception under CWA section 402(o)(2).”

Lastly, section 402(o)(3) contains what is considered the maximum allowed amount of backsliding, which prohibits revisions of effluent limitations that would result in a violation of applicable water quality standards. As the revised effluent limitations are based on the revised WQS, and the resultant modified TMDL WLAs, there is no violation of water quality standards to trigger this section.

In summary, at least one of the statutory exceptions allowing backsliding has been met. Thus, the proposed effluent limitations for the MS4 Permittees and Caltrans presented in **Section 5** may be utilized in NPDES permits.

10 Monitoring and Reporting

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As the copper SSOs are based on monitoring conducted within the watershed, follow up monitoring to evaluate the continuing protectiveness of copper SSOs is prudent. Monitoring for copper, lead, and toxicity is required in the MS4 and WRP NPDES permits. The monitoring proposed below is in addition to the MS4 stormwater permit requirements, is specific to the evaluation of the copper SSOs, and considers the available data in determining frequency and location of samples, and the types of tests necessary to evaluate implementation of the copper SSOs. Monitoring and reporting should be coordinated with the existing Metals TMDL monitoring program and/or other existing programs, such as the MS4 Permit required Integrated Monitoring Program and/or Coordinated Integrated Monitoring Program. No monitoring is proposed for the lead SSOs as the SSOs were not based on water quality data collected within the watershed, and thus changes in water quality are not relevant.

Copper WER evaluation monitoring will consist of receiving water monitoring for key chemical parameters needed for estimates of WERs utilizing the Biotic Ligand Model (BLM). Details on the use of the BLM in the context of the copper WERs is presented in Section 8 and Attachment 5 of the Copper WER Report (LWA 2014b). The WER evaluation monitoring will be supplemental to other compliance monitoring required in the NPDES permits. Receiving water WER evaluation monitoring should include three sample events per year. Three samples per year is consistent with the frequency of sampling conducted for the development of the WERs. The monitoring sites would include those used during the WER study. Although given the similarity in WERs between LA River mainstem sites, it may be appropriate to consolidate sites (e.g., one site on LA River Reach 2 as opposed to the two sites utilized). All sample events should be conducted during dry weather conditions (winter and summer), as this was the identified critical condition.

Reevaluation of a WER is triggered when the average of three consecutive BLM-estimated WERs is less than 75% of the average BLM-estimated WER for data collected during the WER study (**Table 26**). The BLM WER value is calculated as the BLM Acute Criterion ÷ CTR Acute Criterion for each sample. See Appendix 5 of the WER Report for additional details on the BLM calculations. This trigger is a conservative “operational” threshold that is not intended to depend on measures of statistical significance. The 75% threshold was selected because (1) it represents a magnitude of change in the WERs that is sufficiently large to be of concern relative to changes that might impact beneficial uses, and (2) it is a smaller change (i.e., a more sensitive trigger) than would be statistically detectable with reasonable confidence for three WER samples. Specifically, based on the variability of data for individual sites, the expected 95% one-sided confidence limit for a three sample average WER that was 75% of the final WER (fWER) used to implement the SSOs would include the fWER. Additionally, the evaluation of protectiveness in the final Copper WER report established that the fWERs, which are the basis for the SSOs, provide the level of protection intended by USEPA for WQC development with a substantial

margin of safety by generating site-specific objectives that are below the NOEC. It should be noted that the BLM-estimated WERs are used as indicators of relevant water quality conditions and are not expected to be equivalent to the WERs used for SSOs.

If WER evaluation monitoring indicates that there has been a sufficient change in water quality conditions compared to the baseline conditions used to develop the WERs, the affected MS4 Permittees should develop and submit a plan for reevaluating the WER and SSO for the affected reach(es) to the LARWQCB Executive Officer. The plan would include at least one copper WER test to evaluate the continuing protectiveness of the current SSO. Given that the BLM is a gauge of potential changes and WER testing is needed to determine if an actual change has occurred, only one test may be necessary if the results from a single test confirm the WER. However, the determination on the number of tests needed and the process for evaluating the results should be included in the plan. The reevaluation and associated plan would not establish a new study, rather the protocols established in the Work Plan can be utilized to collect and analyze sample(s) to conduct the reevaluation. The results of the reevaluation shall be provided to the LARWQCB Executive Officer with appropriate recommendations for next steps, if necessary.

Table 26. Copper WER Reevaluation Triggers for LA River and Tributaries

Waterbody	Average BLM WER for WER Study	WER Evaluation Trigger⁽¹⁾ (Avg of three consecutive BLM WERs)
LA River Reaches 1 through 4	4.04	3.23
Compton Creek	6.83	5.47
Rio Hondo	18.34	14.68
Arroyo Seco	2.27	1.82
Verdugo Wash	3.52	2.82
BWC upstream of BWRP	6.21	4.97
BWC downstream of BWRP	3.53	2.82
Tujunga Wash	10.21	8.17

1. The WER evaluation trigger is set at 75% of the average BLM WER. The trigger would be exceeded if the average of three consecutive BLM WERs is below the WER value for a given waterbody.

11 References

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Attachment A. Determination of Copper Loading Capacities' Protectiveness in Downstream Waterbodies

The analysis presented herein was undertaken to evaluate whether copper loading capacities calculated for some tributaries using water-effect ratios (WERs) higher than those used downstream from the tributary would support attainment of Total Maximum Daily Load (TMDL) targets in downstream reaches. Four specific tributary reaches were evaluated, as the WER study demonstrated that WERs higher than those proposed downstream would be protective of these upstream tributaries:

- Tujunga Wash, which is tributary to Los Angeles (LA) River Reach 4
- Burbank Western Channel (BWC) below Burbank Water Reclamation Plant (WRP), which is tributary to Reach 3
- Rio Hondo, which is tributary to Reach 2
- Burbank Western Channel above Burbank WRP, which is tributary to BWC downstream of the Burbank WRP

The general approach used to evaluate the effect of applying the higher WER in the upstream tributary on water quality in the reach downstream from the tributary was to estimate the expected frequency that total copper concentrations in the downstream reach would exceed the downstream reach's target. The method used to estimate the frequency of exceedance was a combination of Monte-Carlo simulations and mass-balance models. These models were based on the following shared assumptions and characteristics:

- Simulations were based on the statistical distributions of water quality and flow data from October 2003 – September 2013 for analyses of LA River downstream reaches and October 2008 – September 2013 for analysis of the BWC downstream reach. (See **Appendix 1** to this attachment.)
- Water quality data, flow data, and the Monte-Carlo simulations included wet and dry weather conditions.
- The proportion of wet and dry weather events was modeled based on the observed frequency for the underlying data set (approximately 16% wet weather conditions).
- Attainment during wet and dry weather was assessed using the observed flow proportions of the tributary and upstream waterbody and the observed or adjusted distributions of copper concentrations. Upstream and tributary distributions of total copper were adjusted to account for the assumption that once the TMDL was implemented, TMDL targets will be attained. Adjusting upstream and tributary distributions of total copper was done in a way that avoids distortion of the underlying distributions and preserves the relationship between the mean and variance of the observed data.
- Total copper concentrations in the downstream reach were calculated using standard mass balance principles.

- Copper concentrations will be managed to meet the TMDL targets to the same level of confidence in the downstream reaches and the tributaries.
- Copper concentrations in the tributaries and upstream reaches are not significantly correlated to proportion of tributary flows. The validity of this assumption was confirmed with correlation analysis for dry and wet events. (See **Appendix 2** to this attachment.)
- Downstream TMDL targets were based on implementation of the copper site-specific objectives (SSOs) detailed in this Implementation Report (i.e., using the WER specific to the downstream reach).
- Attainment of upstream and downstream TMDL targets was defined as **zero** exceedances of the wet weather and dry weather TMDL targets in a three-year period, *with greater than 90% confidence*. If one or more exceedances were projected to occur in a three-year period, this was considered non-attainment of the downstream TMDL target. The three-year period was selected to be consistent with the exceedance frequency identified in the 1984 USEPA Copper Water Quality Criteria document for the protection of aquatic life, which is the basis for the California Toxics Rule and TMDL copper targets. Note that a zero exceedance frequency allowance is more stringent than intended by USEPA's criterion, which recommends a once in three-year allowable exceedance frequency.

Each reach was modeled using the same estimation method to determine if the downstream WER-adjusted TMDL targets was attained (i.e., **zero** exceedances of the wet weather and dry weather TMDL targets in a three-year period, with greater than 90% confidence). The Monte-Carlo simulation method used to evaluate protectiveness of the SSOs for the downstream reaches is summarized as follows and diagramed in **Figure A-1**:

1. Characterize distributions of copper concentrations in upstream reaches and proportion of upstream tributary flows (for wet and dry events).
2. If one or more exceedances were projected to occur in a three-year period in the upstream reach or tributary, this was considered non-attainment of the TMDL target. In this case, the upstream and/or tributary distributions were adjusted to attain the TMDL targets (zero exceedances with 90% confidence in the upstream waterbodies) *before running the Monte-Carlo simulations to evaluate attainment in the downstream reach*. Attainment of the TMDL targets in the downstream reach was not considered or evaluated when adjusting the upstream waterbody input distributions. The following adjustments were made using a preliminary Monte-Carlo to determine the minimum adjustment needed to meet the assumption of attainment in the upstream reach or tributary (zero exceedances with 90% confidence in the upstream waterbodies); however, *the distribution was not adjusted so that there were no upstream exceedances*:
 - a. Adjust both mean and variance of each upstream waterbody distribution in increments of $\leq 2.5\%$ in log-scale. This method preserves the ratio between the observed mean and variance (coefficient of variation [CV]) with no distortion and minimal adjustment.
 - b. Run the preliminary Monte-Carlo to evaluate whether the upstream waterbody achieves 90% confidence in attaining zero-in-3-year exceedance frequency.
 - c. If the adjusted distribution does not attain the TMDL target of zero exceedances with 90% confidence, repeat steps 1 and 2 starting with the adjusted distribution parameters.

- d. If the adjusted distribution attains the TMDL target of zero exceedances with 90% confidence, use the distribution parameters for the upstream waterbody as the inputs for the simulations to evaluate downstream attainment of the TMDL.
3. Run Monte-Carlo simulations to generate 1095 daily copper concentrations (3 years) based on random independent selections from (a) proportional distribution of frequency of wet and dry events, (b) observed or adjusted distributions of upstream copper concentrations, and (c) the distributions of the upstream tributary flow proportion.
4. Iterate the Monte-Carlo three-year simulation 1000 times, recording the number of exceedances of dry and wet event TMDL target concentrations and the maximum copper concentration for each three-year period. This represents concentrations for 1,095,000 days (3000 years).
5. Analyze distributions of the number of exceedances and the maximum copper concentrations in a three-year period for the median unbiased estimate and 90% upper confidence level.

Total copper concentrations were assessed for the presence of co-variation in the LA River and tributary under each scenario. For the LA River below BWC scenario, co-variation of total copper concentrations in the LA River and BWC was observed. As a result, the analysis for the scenario was also run capturing co-variation. The results indicate only a nominal difference when compared to the analysis without considering co-variation (i.e., the LA River downstream of BWC was projected to achieve the TMDL with at least a 90% level of confidence). Given the similarity of results between the simulations that capture co-variation and those that do not capture co-variation, and for consistency with the analyses presented for Tujunga Wash and Rio Hondo, which do not have similar co-variation, the analyses presented for BWC do not incorporate co-variation.

The form of the Monte-Carlo flow proportion simulation for all reaches was:

$$C_{U_{Downstream}} = \frac{(C_{U_{Trib}} \times p_{Trib}) + (C_{U_{Upstream}} \times p_{Upstream})}{p_{Trib} + p_{Upstream}} \quad \text{Equation 1}$$

where,

- $C_{U_{Downstream}}$ = Total copper in the downstream reach below the confluence with the tributary.
- $C_{U_{Trib}}$ = Random lognormal distributions of total copper in the tributary for wet and dry events.
- p_{Trib} = Random distributions of the proportion of flows contributed to the downstream reach below the confluence by the tributary for wet and dry events.
- $C_{U_{Upstream}}$ = Random lognormal distribution of total copper in upstream above the confluence.
- $p_{Upstream}$ = The proportion of flows contributed to the downstream reach below the confluence by upstream reach above the confluence for wet and dry events. This is equal to $1 - p_{Trib}$.

Since the sum of the proportions of contributing flows above the confluence is always equal to one, this equation reduces to:

$$Cu_{Downstream} = (Cu_{Trib} \times p_{Trib}) + (Cu_{Upstream} \times p_{Upstream}) \quad \text{Equation 2}$$

Additional details and assumptions used to evaluate the protectiveness for each reach are described in the following sections.

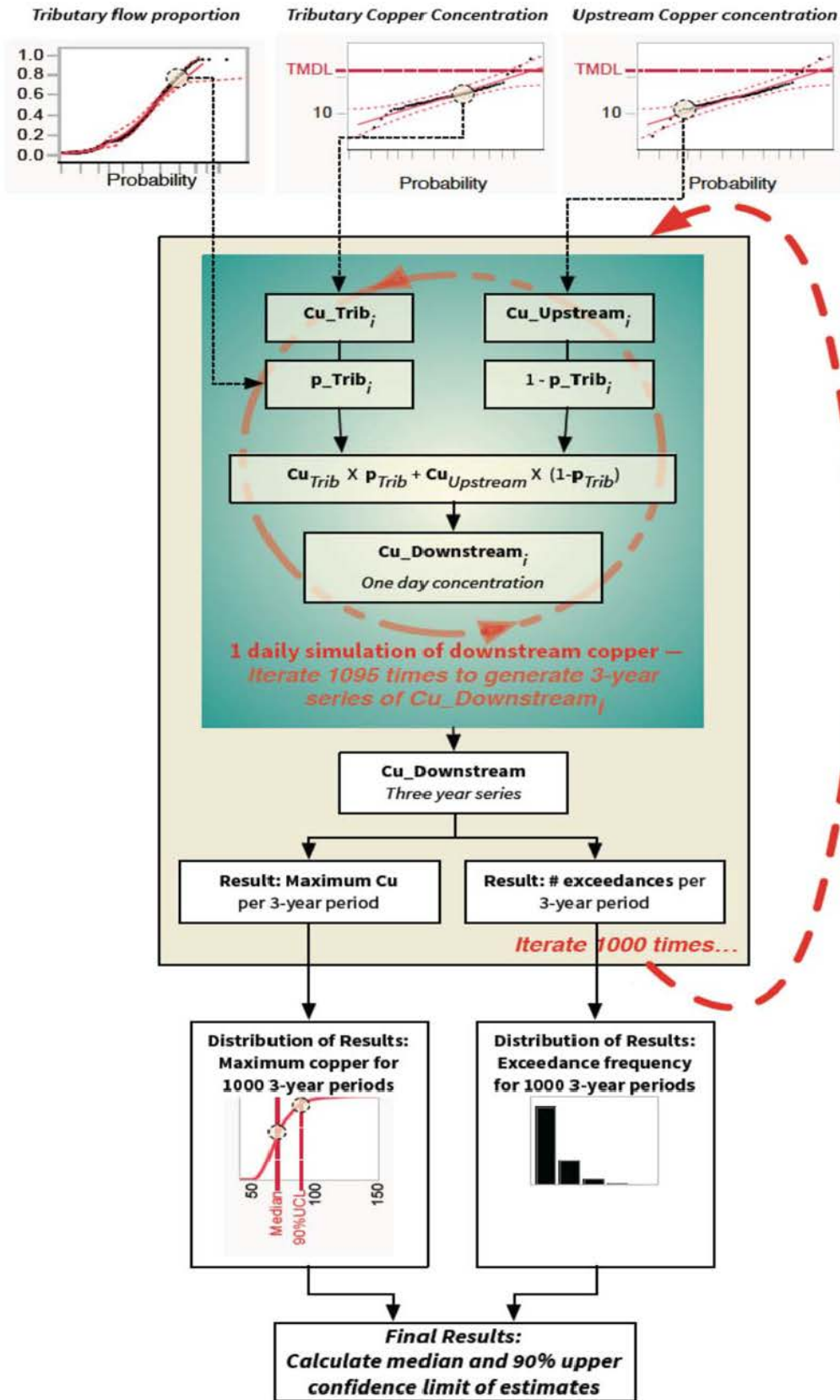


Figure A-1. Monte Carlo analysis flow chart

Protectiveness of Tujunga Wash SSO for Reach 4

The protectiveness of the revised loading capacity based on the copper WER for Tujunga Wash was evaluated using total copper data and flows for Tujunga Wash and for Reach 4 above the confluence. The distributions of total copper and the proportions of contributing flows were based on data collected from 2003 – 2013 in Tujunga Wash and the LA River below Sepulveda Dam. The copper data were evaluated separately for wet and dry conditions and were approximately lognormally distributed.

As described in bullet #2 on page A-2, because one or more exceedances were projected to occur in a three-year period in the upstream LA River reach during wet weather and the Tujunga Wash during dry weather based on the water quality data, the total copper distributions for these waterbody conditions were adjusted in increments of $\leq 2.5\%$ in log-scale to attain the TMDL targets (zero exceedances with 90% confidence in the upstream waterbodies) *before running the Monte-Carlo simulations to evaluate attainment in the downstream reach*. Attainment of the TMDL targets in the downstream reach was not considered or evaluated when adjusting the upstream waterbody input distributions. No distribution adjustments were needed for the upstream LA River reach for dry weather or the Tujunga Wash for wet weather. The copper water quality data distribution parameters, the adjustments for the simulations and the corresponding Monte-Carlo based distribution parameters are provided in **Table A-1**. The proportion of Tujunga Wash flows in Reach 4 varies from 0-0.95 in wet and dry conditions (**Figure A-2**). These observed limits were used to constrain the flow proportions used in the Monte-Carlo analysis. The Tujunga Wash flow proportion was zero for approximately 50% of dry weather and wet weather events. The flow proportions for wet and dry events were simulated using 3-part random normal mixture distributions for flows greater than zero. This distribution is comprised of three normal distributions, each with a different mean, standard deviation, and proportion of the overall distribution. The distribution was selected by fitting and evaluating multiple types of distributions, including normal, lognormal, normal mixtures, and the Johnson distribution family. The distribution was selected based on the best fit for the flow proportion data.

Table A-1. Copper distribution parameters for Tujunga Wash Monte-Carlo simulations

Reach	Event Type	Water Quality Distribution (µg/L) ⁽¹⁾		Monte-Carlo Distribution (µg/L) ⁽²⁾		Three Year Maximum Copper Concentration in Upstream Waterbody (µg/L) ⁽³⁾			WER-Adjusted TMDL Target Concentration (µg/L)	Notes
		Mean	Std Dev	Mean	Std Dev	Minimum	Median	Maximum		
Reach 4 above Tujunga Wash	DRY	17.4	25.8	16.2	9.4	50	77	250	103	Single outlier removed ⁽⁴⁾ , no other adjustments
	WET	31.0	8.0	28.5	7.0	43	53	78	67	-2.5% adjustment
Tujunga Wash	DRY	39.0	46.6	19.1	13.2	69	114	321	166	-17.5% adjustment
	WET	7.3	3.1	7.4	3.0	13	19	41	139	No adjustment

- (1) Unadjusted distribution parameters of the water quality data used to develop the input distributions for the Monte-Carlo simulations.
- (2) Distribution parameters resulting from the Monte-Carlo simulations after any necessary adjustments for attainment (i.e., zero exceedances with 90% confidence) of the WER-adjusted TMDL targets.
- (3) Statistics for the maximum simulated copper concentrations observed in 1,000 three-year Monte-Carlo simulation periods.
- (4) A single outlier of 306 µg/L was excluded from the dry weather copper water quality distribution for Reach 4 utilized as the input to the Monte-Carlo simulations. The lower mean and standard deviation of the Monte-Carlo distribution is the result of this exclusion with no other adjustments to the input distribution.

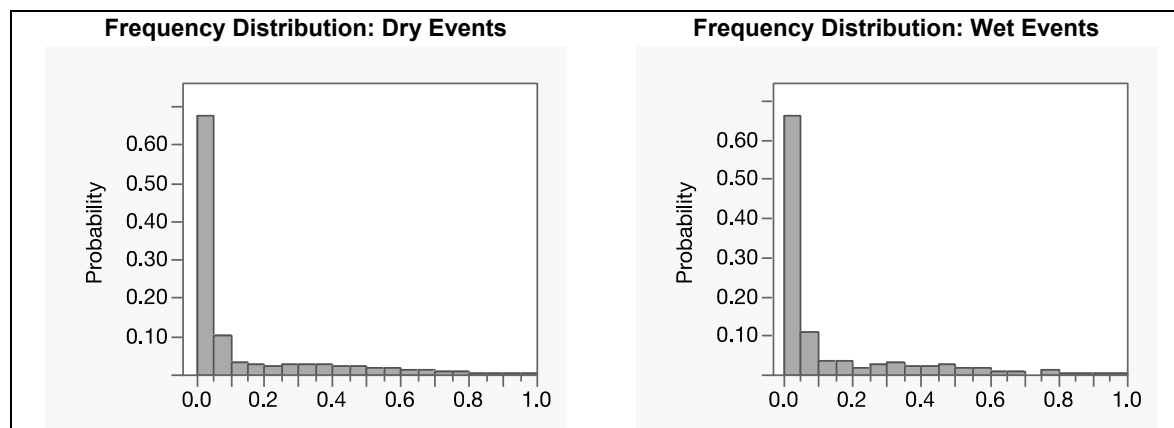


Figure A-2. Flow proportions of Tujunga Wash in LA River Reach 4

Results for Tujunga Wash and Reach 4

For the interaction between LA River Reach 4 and Tujunga Wash, the Monte-Carlo simulation results demonstrate that the LA River downstream of Tujunga Wash was projected to achieve the TMDL with at least a 90% level of confidence and meet the definition of attainment established for the analysis (i.e., defined as **zero** exceedances of the wet weather and dry weather TMDL targets in a three-year period, with greater than 90% confidence). **Table A-2** and **Figure A-3** (left panel) show that zero (0) exceedances of the downstream TMDL target occurred in 911 of the 1,000 simulated three-year periods (i.e., the confidence level that zero exceedances will occur downstream of Tujunga Wash is 91.1%). Of the 89 simulated three-year periods for which downstream exceedances were observed, the following was noted:

- 82 simulated three-year periods consisted of exceedances associated with concentrations in the upstream LA River that exceeded the upstream WER-adjusted target (shown in **Table A-2**).
- 5 simulated three-year periods consisted of exceedances associated with concentrations in the tributary that exceeded the tributary WER-adjusted target (shown in **Table A-2**).
- 2 simulated three-year periods contained exceedances associated with concentrations in the tributary and upstream LA River which met their WER-adjusted targets (shown in **Table A-2**).

As such, only 2 of the 89 simulated downstream exceedances occurred during the condition of interest (i.e., no exceedances upstream). A recalculation of exceedances based on only data that meet the “no exceedance upstream” assumption show that zero (0) exceedances of the downstream target occurred in 827 of the 829 simulated three-year periods resulting in an adjusted confidence level of 99.8% (shown in **Figure A-3**, right panel), thus meeting the definition of attainment for the analysis.

Table A-2. Summary of Results for 1,000 Simulated Three-Year Periods for the LA River Downstream of Tujunga Wash for the Different Dry and Wet Weather Upstream River and Tributary Conditions (Values are the Number of Simulations; Parentheses are the Percent of Total)⁽¹⁾

Downstream Result Type	Dry Weather and Wet Weather Condition Type/Category				Total
	Tributary and Upstream River Less Than TMDL Target	Upstream River Greater Than TMDL Target	Tributary Greater Than TMDL Target	Tributary and Upstream River Greater Than TMDL Target	
	1	2	3	4	
Characteristics of No Exceedance Downstream	827 (82.7%)	21 (2.1%)	63 (6.3%)	0 (0%)	911 (91.1%)
Characteristics of Exceedance Downstream	2 (0.2%)	82 (8.2%)	5 (0.5%)	0 (0%)	89 (8.9%)
Total	829 (82.9%)	103 (10.3%)	68 (6.8%)	0 (0%)	1,000 (100%)

(1) The condition where both the tributary and upstream river are less than their respective WER adjusted TMDL targets is the condition of interest (shown in bold, condition 1). The other conditions (2, 3, and 4) are not consistent with the assumption that the tributary and upstream river are meeting the TMDL target, and therefore, are not the focus of the analysis.

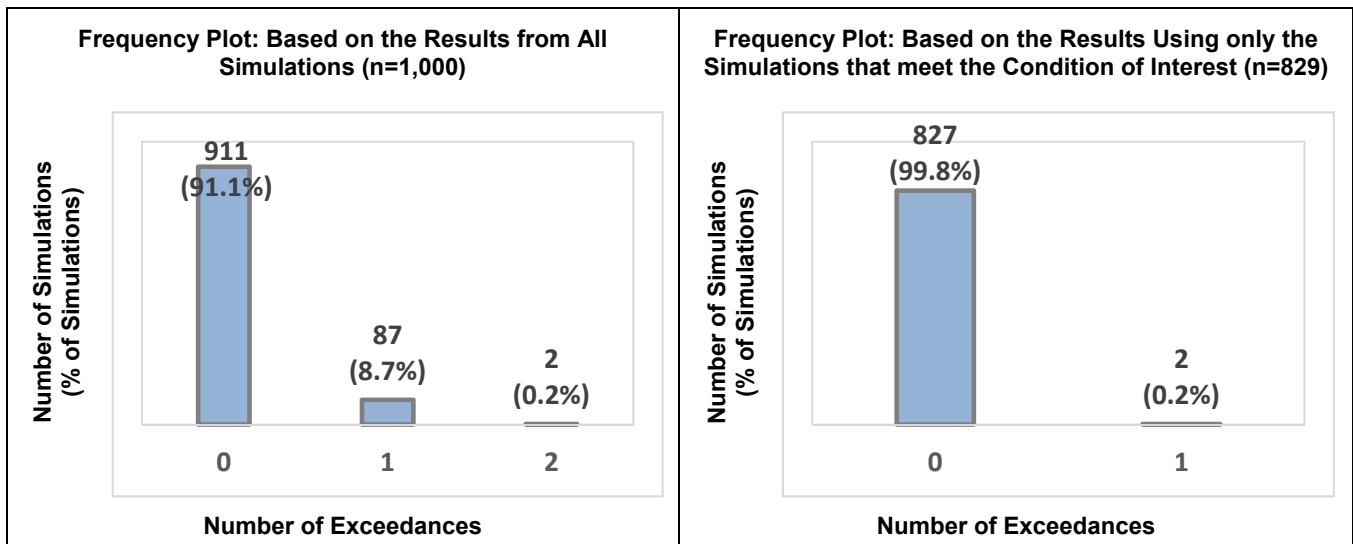


Figure A-3. Results of Monte-Carlo simulations for LA River in Reach 4 below Tujunga Wash: Distribution of exceedances per three-year period during All Conditions (left) and the Condition of Interest (right) (i.e., when both the upstream LA River and Tujunga Wash meet their respective WER adjusted TMDL targets). Each bar indicates the number and percentage of model runs (3-year periods) with the indicated number of exceedances.

In addition, the unbiased estimate (median) of the maximum copper concentration expected in a three-year period is 60 µg/L with a 90% upper confidence limit of 90 µg/L (**Figure A-4**). These results mean that if copper concentrations in Tujunga Wash and LA River Reach 4 upstream of Tujunga Wash meet the revised TMDL loading capacity requirements during dry and wet weather, the highest copper concentration expected during a three-year period is expected to be less than the TMDL targets in LA River Reach 4 below Tujunga Wash (103 and 67 ug/L total copper during dry and wet weather, respectively).

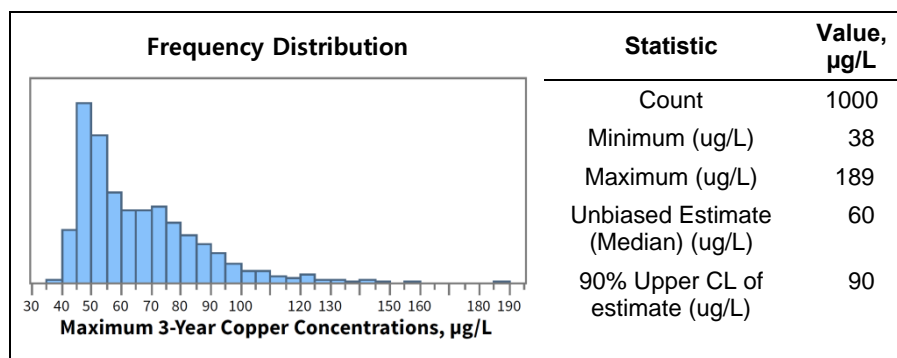
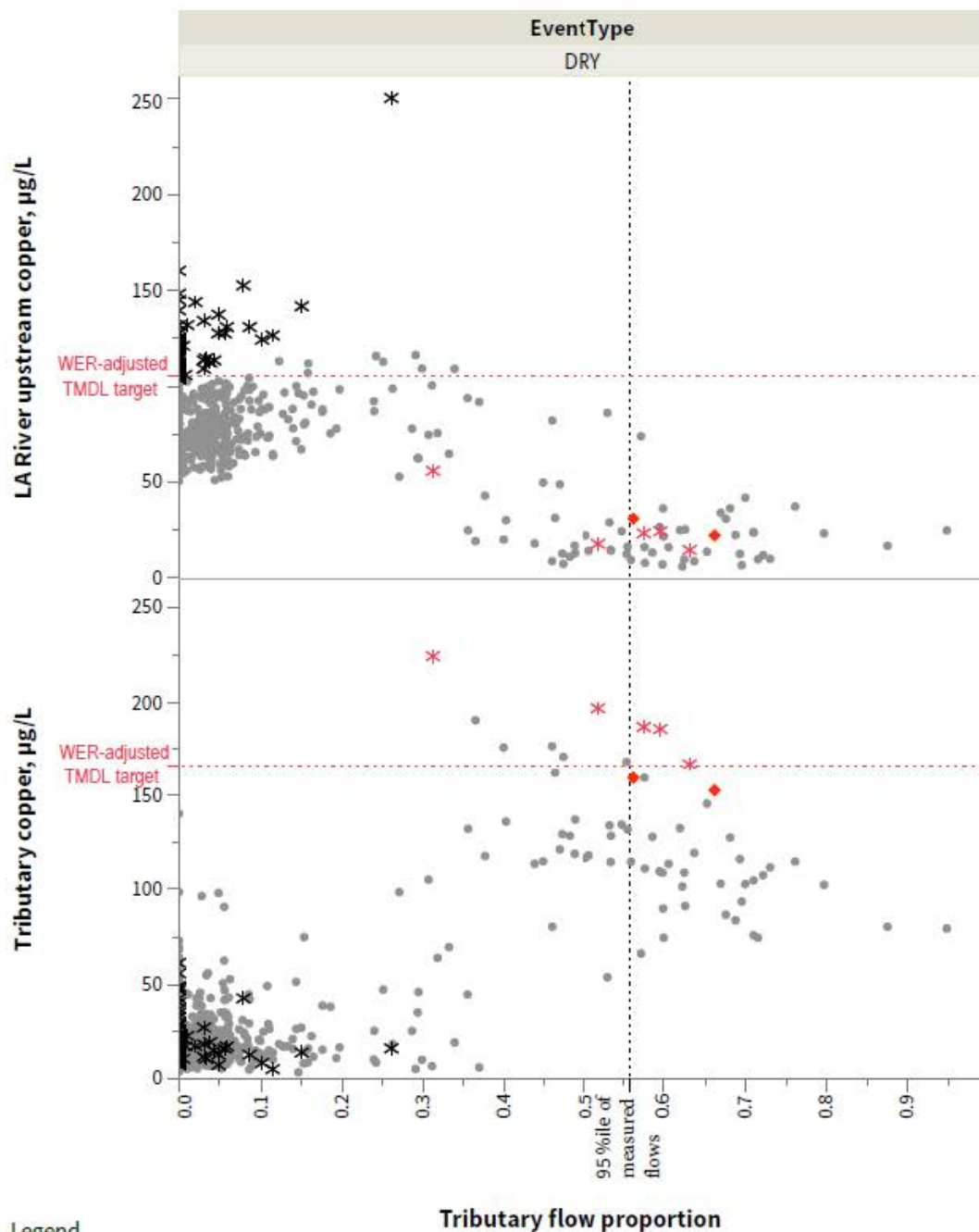


Figure A-4. Results of Monte-Carlo simulations for LA River in Reach 4 below Tujunga Wash: Distribution of maximum copper concentrations per three-year period. The histogram illustrates the distribution of the maximum copper concentrations for the downstream reach for 1,000 three-year model iterations. Each bar indicates the number of model runs (3-year periods) with the indicated maximum concentration. The unbiased estimate of the maximum concentration expected in three years is equal to the median, and the 90% confidence level is equal to the 90 percent cumulative probability level.

Figure A-5 and **Figure A-6** present separate dry and wet weather plots of the total copper concentrations and associated flow proportions generated through a Monte-Carlo simulation in the LA River upstream of Tujunga Wash and within Tujunga Wash itself on the days when the LA River downstream of Tujunga Wash was at the three-year maximum dry and wet weather copper concentrations for each of the 1,000 simulated three-year periods. The upstream LA River and tributary WER-adjusted TMDL targets and the 95th percentile of the measured flow proportions are also presented. **Figure A-7** shows separate dry and wet weather pie charts illustrating a breakdown of the characteristics of the simulated exceedances downstream of Tujunga Wash.

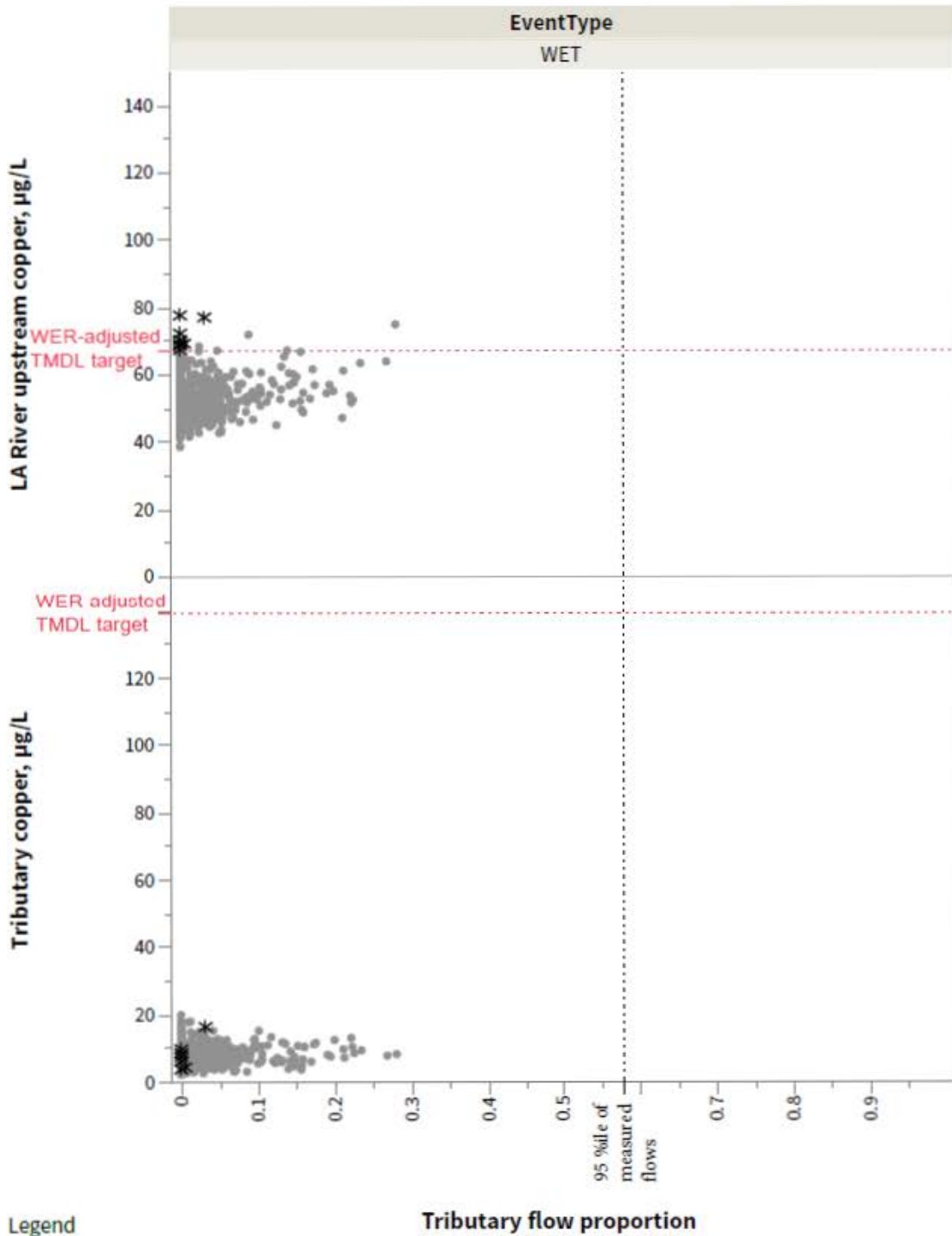
In summary, the results of the analysis demonstrated that the downstream WER-adjusted TMDL targets are expected to be attained (i.e., **zero** exceedances of the wet weather and dry weather TMDL targets in a three-year period, with greater than 90% confidence).



Legend

- * Downstream exceedances associated with upstream LAR exceeding WER adjusted target (N=76)
- * Downstream exceedances associated with Tributary exceeding WER adjusted target (N=5)
- ◆ Downstream exceedances associated with upstream LAR and Tributary meeting WER adjusted target (N=2)
- Meets WER adjusted TMDL Target (N=917)

Figure A-5. Monte-Carlo results observed in the LA River upstream of Tujunga Wash and in the Tujunga Wash during each of the 1,000 simulations on the days when the LA River downstream of Tujunga Wash was at the three-year maximum dry weather copper concentrations. The upper and lower portions of the figure display the corresponding concentration in the LA River upstream of Tujunga Wash and in the Tujunga Wash, respectively, plotted against the tributary flow proportion.



Legend

- * Downstream exceedances associated with upstream LA River exceeding WER adjusted target (N=8)
- Meets WER adjusted TMDL Target (N=992)

Figure A-6. Monte-Carlo results observed in the LA River upstream of Tujunga Wash and in the Tujunga Wash during each of the 1,000 simulations on the days when the LA River downstream of Tujunga Wash was at the three-year maximum wet weather copper concentrations. The upper and lower portions of the figure display the corresponding concentration in the LA River upstream of Tujunga Wash and in the Tujunga Wash, respectively, plotted against the tributary flow proportion.

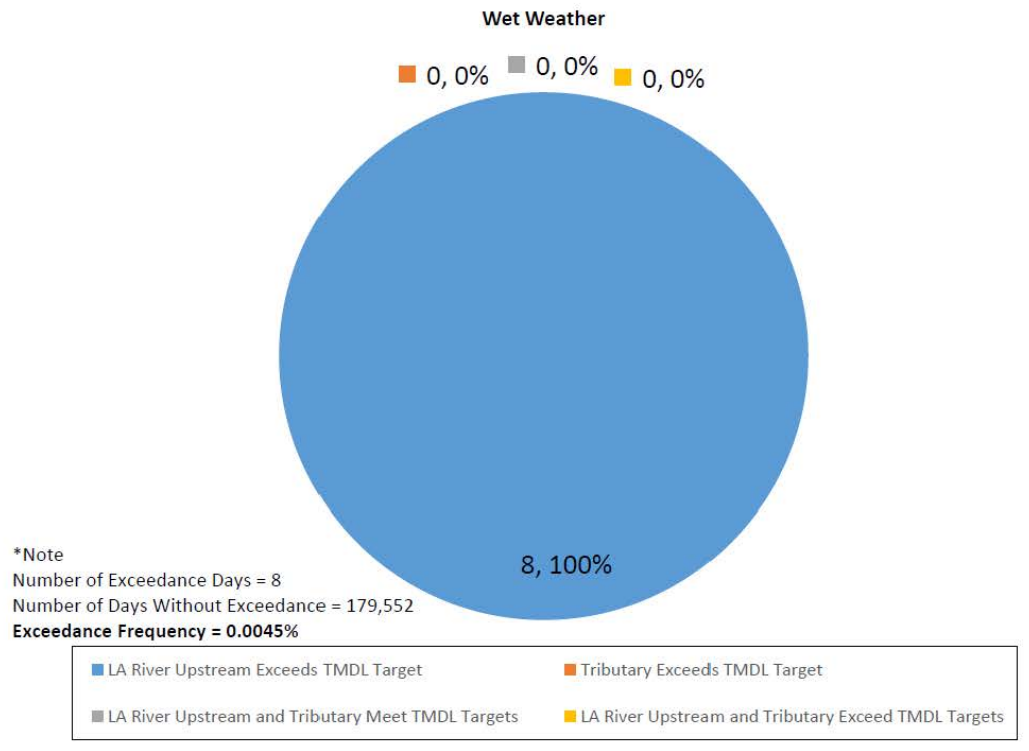
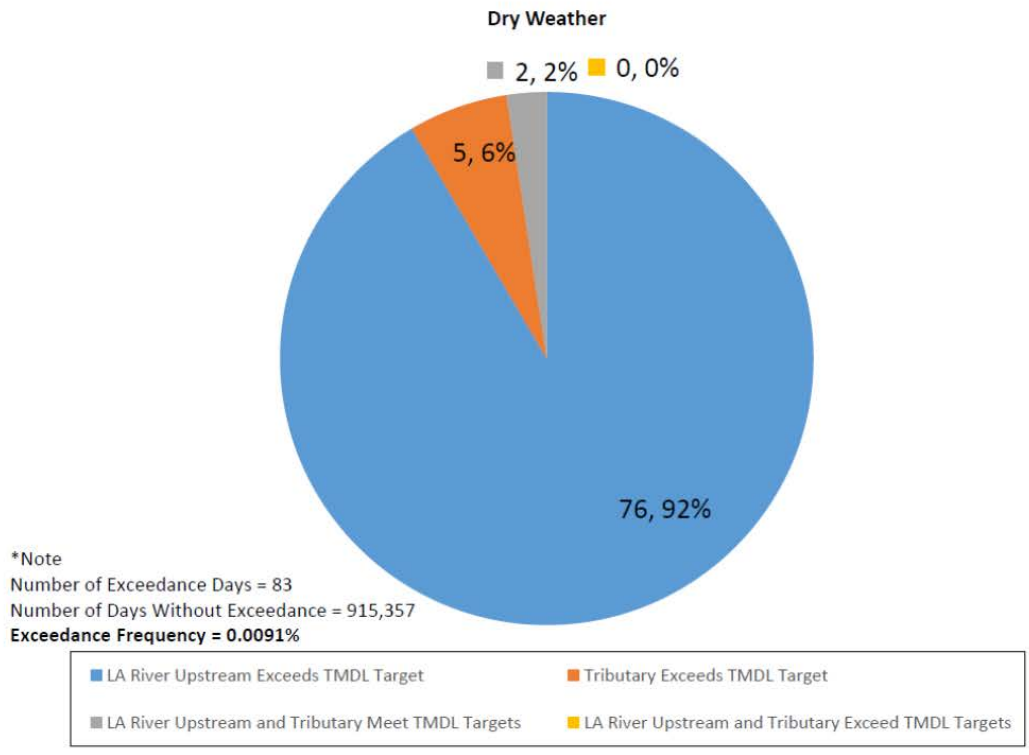


Figure A-7. Characteristics of simulated dry weather (top) and wet weather (bottom) exceedances in the LA River downstream of Tujunga Wash for illustrative purposes. As detailed in the preceding text, the analysis demonstrates that the LA River downstream of Tujunga Wash is projected to achieve the TMDL (defined as a median expected frequency of zero exceedances in three years), with at least a 90% level of confidence.

Protectiveness of Burbank Western Channel SSO for Reach 3

The protectiveness of the revised loading capacity based on the copper WER for the BWC was evaluated using total copper data and flows for lower BWC and for the LA River at Tujunga Avenue. The distributions of total copper and the proportions of contributing flows were based on data collected from 2003 – 2013 in BWC and the LA River in Reach 4. The copper data were evaluated separately for wet and dry conditions and were approximately lognormally distributed.

As described in bullet #2 on page A-2, because one or more exceedances were projected to occur in a three-year period in the upstream LA River reach and BWC during wet and dry weather based on the water quality data, the total copper distributions for these waterbody conditions were adjusted in increments of $\leq 2.5\%$ in log-scale to attain the TMDL targets (zero exceedances with 90% confidence in the upstream waterbodies) *before running the Monte-Carlo simulations to evaluate attainment in the downstream reach*. Attainment of the TMDL targets in the downstream reach was not considered or evaluated when adjusting the upstream waterbody input distributions. The copper water quality data distribution parameters, the adjustments for the simulations and the corresponding Monte-Carlo based distribution parameters are provided in **Table A-3**. The proportion of BWC flows in Reach 3 ranges from 0.021-0.57 in dry conditions, and from 0.016-0.45 in wet conditions (**Figure A-8**). These observed limits were used to constrain the flow proportions used in the Monte-Carlo analysis. The flow proportions were simulated using a 2-part random normal mixture distribution for dry events and a random lognormal distribution for wet events. This distribution is comprised of two normal distributions, each with a different mean, standard deviation, and proportion of the overall distribution. The distribution was selected by fitting and evaluating multiple types of distributions, including normal, lognormal, normal mixtures, and the Johnson distribution family. The distribution was selected based on the best fit for the flow proportion data.

Table A-3. Copper distribution parameters for Burbank Western Channel Monte-Carlo simulations

Reach	Event Type	Water Quality Distribution (µg/L) ⁽¹⁾		Monte-Carlo Distribution (µg/L) ⁽²⁾		Three Year Maximum Copper Concentration in Upstream Waterbody (µg/L) ⁽³⁾			WER-Adjusted TMDL Target Concentration (µg/L)	Notes
		Mean	Std Dev	Mean	Std Dev	Minimum	Median	Maximum		
Reach 4 above Burbank Western Channel	DRY	18.7	12.7	13.5	7.8	46	72	190	103	-5% adjustment
	WET	45.9	27.1	18.9	7.5	35	49	124	67	-22.5% adjustment
Burbank Western Channel	DRY	23.1	17.9	12.9	7.0	38	57	132	90	-17.5% adjustment
	WET	34.3	27.4	17.7	9.3	37	58	168	81	-17.5% adjustment

- (1) Unadjusted distribution parameters of the water quality data used to develop the input distributions for the Monte-Carlo simulations.
- (2) Distribution parameters resulting from the Monte-Carlo simulations after any necessary adjustments for attainment (i.e., zero exceedances with 90% confidence) of the WER-adjusted TMDL targets.
- (3) Statistics for the maximum simulated copper concentrations observed in 1,000 three-year Monte-Carlo simulation periods.

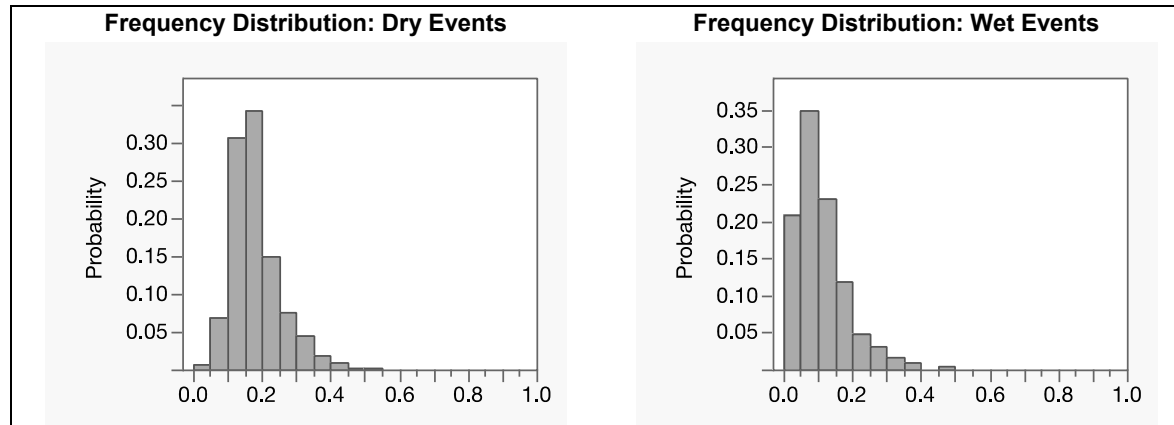


Figure A-8. Flow proportions of Burbank Western Channel in LA River Reach 3

Results for Burbank Western Channel and Reach 3

For the interaction between LA River Reach 4 and BWC, the Monte-Carlo simulation results demonstrate that the LA River downstream of BWC was projected to achieve the TMDL with at least a 90% level of confidence and meet the definition of attainment established for the analysis (i.e., defined as **zero** exceedances of the wet weather and dry weather TMDL targets in a three-year period, with greater than 90% confidence). **Table A-4** and **Figure A-9** (left panel) show that zero (0) exceedances of the downstream TMDL target occurred in 959 of the 1,000 simulated three-year periods (i.e., the confidence level that zero exceedances will occur downstream of BWC is 95.9%). Of the 41 simulated three-year periods for which downstream exceedances were observed, all exceedances were associated with the upstream LA River not meeting its WER-adjusted targets (shown in **Table A-4**). As such, none of the simulated three-year periods contained exceedances associated with concentrations in the tributary and upstream LA River that met their respective WER-adjusted targets (i.e., the condition of interest). A recalculation of the confidence level based on only the data that meet the assumptions of the analysis (i.e., no exceedances upstream) shows that the best estimate (median) number of exceedances of the downstream TMDL target associated with the upstream LA River and tributary meeting the WER-adjusted target for any three-year period is **zero**, with a confidence level of 100% (shown in **Figure A-9**, right panel), thus meeting the definition of attainment for the analysis.

Table A-4. Summary of Results for 1,000 Simulated Three-Year Periods for the LA River Downstream of Burbank Western Channel for the Different Dry and Wet Weather Upstream River and Tributary Conditions (Values are the Number of Simulations; Parentheses are the Percent of Total)⁽¹⁾

Downstream Result Type	Dry Weather and Wet Weather Condition Type/Category				Total
	Tributary and Upstream River Less Than TMDL Target	Upstream River Greater Than TMDL Target	Tributary Greater Than TMDL Target	Tributary and Upstream River Greater Than TMDL Target	
	1	2	3	4	
Characteristics of No Exceedance Downstream	760 (76.0%)	106 (10.6%)	83 (8.3%)	10 (1.0%)	959 (95.9%)
Characteristics of Exceedance Downstream	0 (0%)	41 (4.1%)	0 (0%)	0 (0%)	41 (4.1%)
Total	760 (76.0%)	147 (14.7%)	83 (8.3%)	10 (1.0%)	1,000 (100%)

(1) The condition where both the tributary and upstream river are less than their respective WER adjusted TMDL targets is the condition of interest (shown in bold, condition 1). The other conditions (2, 3, and 4) are not consistent with the assumption that the tributary and upstream river are meeting the TMDL target, and therefore, are not the focus of the analysis.

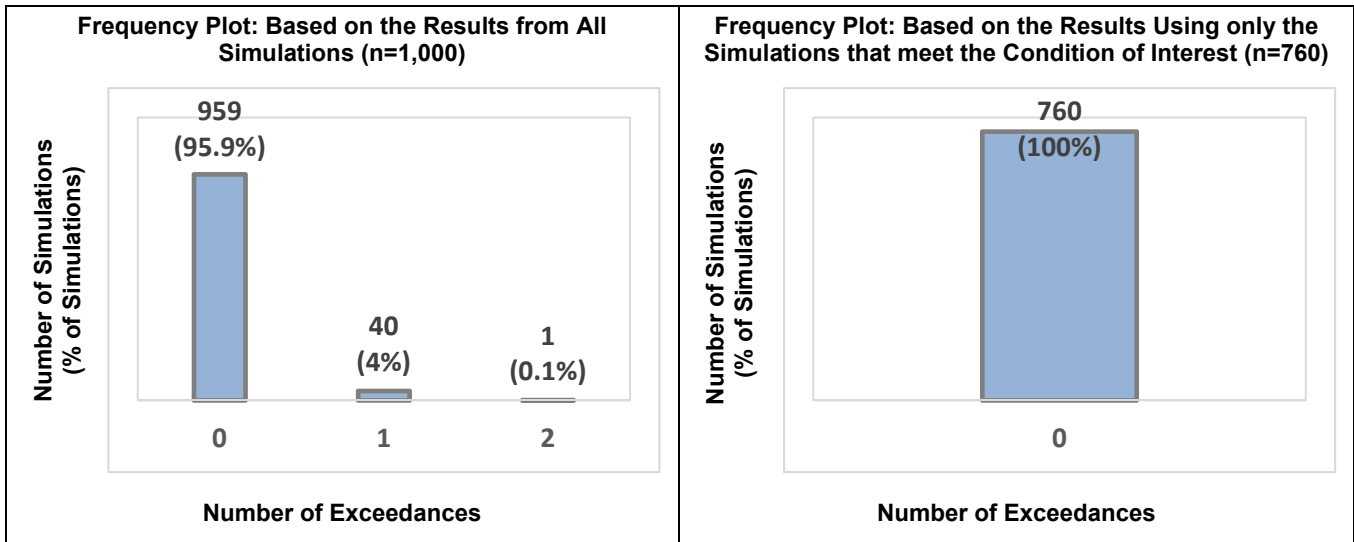


Figure A-9. Results of Monte-Carlo simulations for LA River below Burbank Western Channel: Distribution of exceedances per three-year period during All Conditions (left) and the Condition of Interest (right) (i.e., when both the upstream LA River and Burbank Western Channel meet their respective WER adjusted TMDL targets). Each bar indicates the number and percentage of model runs (3-year periods) with the indicated number of exceedances.

In addition, the unbiased estimate (median) of the maximum copper concentration expected in a three-year period is 54 µg/L with a 90% upper confidence limit of 74 µg/L (**Figure A-10**). These results mean that if copper concentrations in BWC and LA River Reach 4 upstream of BWC meet the revised TMDL loading capacity requirements during dry and wet weather, the highest copper concentration expected during a three-year period is expected to be less than the TMDL targets in LA River Reach 3 below BWC (91 and 67 ug/L total copper during dry and wet weather, respectively).

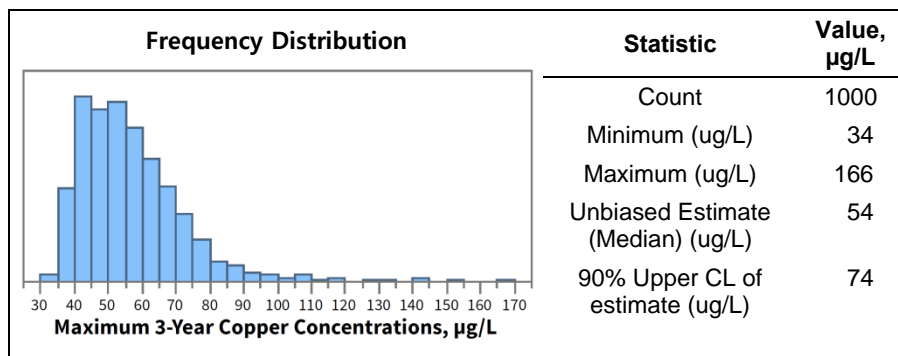


Figure A-10. Results of Monte-Carlo simulations for LA River below Burbank Western Channel: Distribution of maximum copper concentrations per three-year period. The histogram illustrates the distribution of the maximum copper concentrations for the downstream reach for 1,000 three-year model iterations. Each bar indicates the number of model runs (3-year periods) with the indicated maximum concentration. The unbiased estimate of the maximum concentration expected in three years is equal to the median, and the 90% confidence level is equal to the 90 percent cumulative probability level.

Figure A-11 and **Figure A-12** present separate dry and wet weather plots of the total copper concentrations and associated flow proportions generated through a Monte-Carlo simulation in the LA River upstream of BWC and within Burbank BWC itself on the days when the LA River downstream of BWC was at the three-year maximum dry and wet weather copper concentrations for each of the 1,000 simulated three-year periods. The upstream LA River and tributary WER-adjusted TMDL targets and the 95th percentile of the measured flow proportions are also presented. **Figure A-13** shows separate dry and wet weather pie charts illustrating a breakdown of the characteristics of the simulated exceedances downstream of BWC.

In summary, the results of the analysis demonstrated that the downstream WER-adjusted TMDL targets are expected to be attained (i.e., **zero** exceedances of the wet weather and dry weather TMDL targets in a three-year period, with greater than 90% confidence).

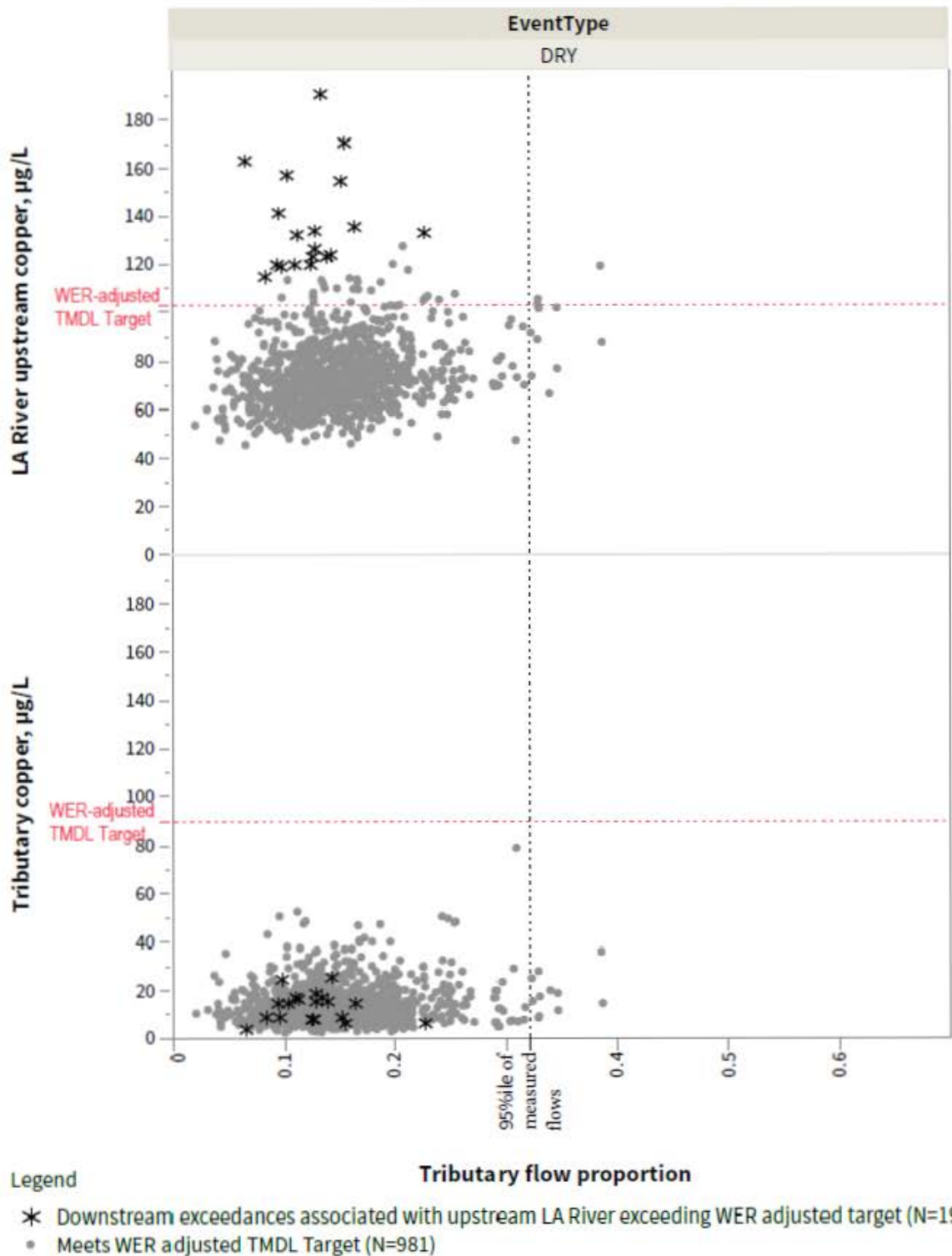


Figure A-11. Monte-Carlo results observed in the LA River upstream of Burbank Western Channel and in the Burbank Western Channel during each of the 1,000 simulations on the days when the LA River downstream of Burbank Western Channel was at the three-year maximum dry weather copper concentrations. The upper and lower portions of the figure display the corresponding concentration in the LA River upstream of Burbank Western Channel and in the Burbank Western Channel, respectively, plotted against the tributary flow proportion.

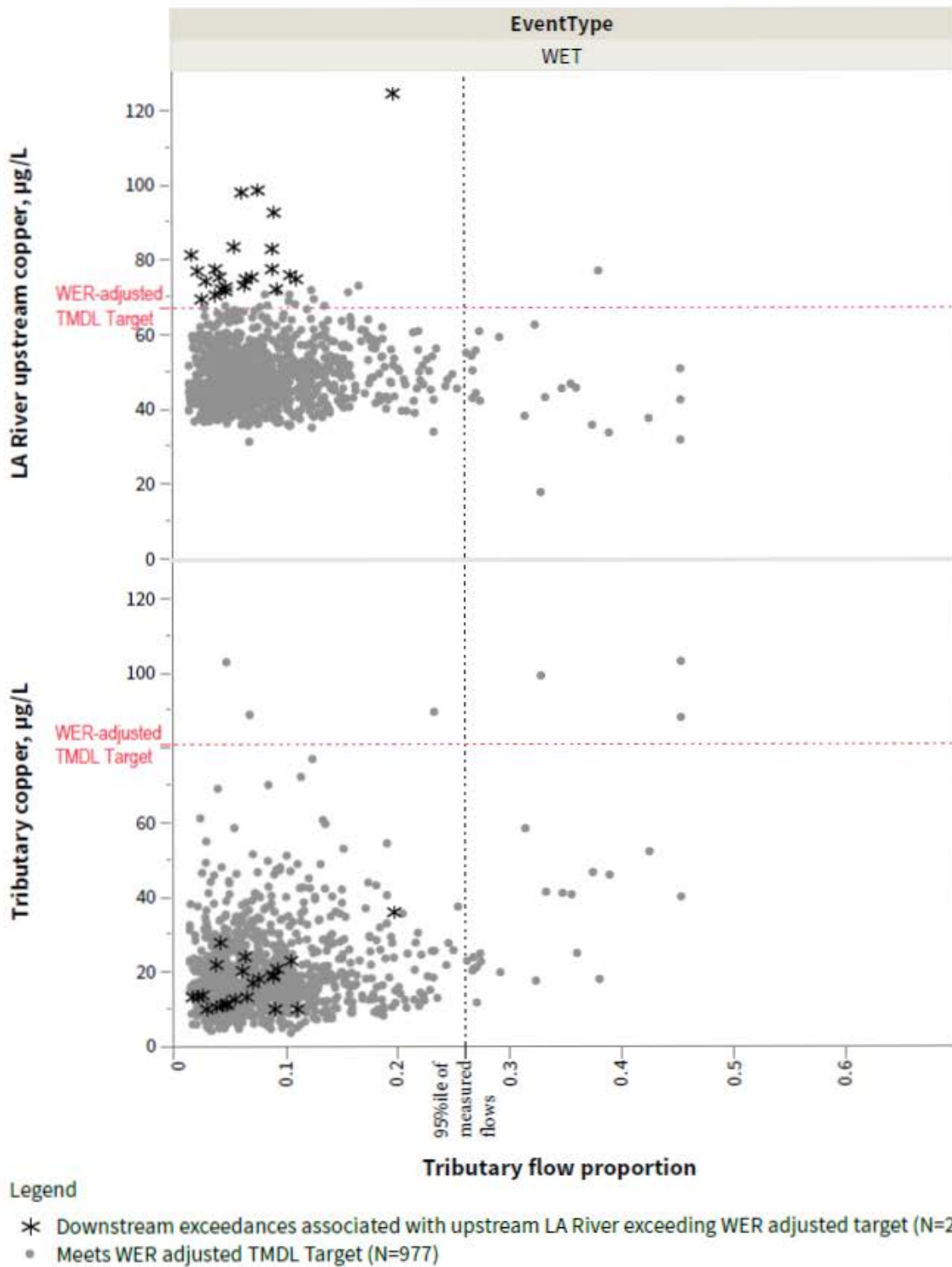


Figure A-12. Monte-Carlo results observed in the LA River upstream of Burbank Western Channel and in the Burbank Western Channel during each of the 1,000 simulations on the days when the LA River downstream of Burbank Western Channel was at the three-year maximum wet weather copper concentrations. The upper and lower portions of the figure display the corresponding concentration in the LA River upstream of Burbank Western Channel and in the Burbank Western Channel, respectively, plotted against the tributary flow proportion.

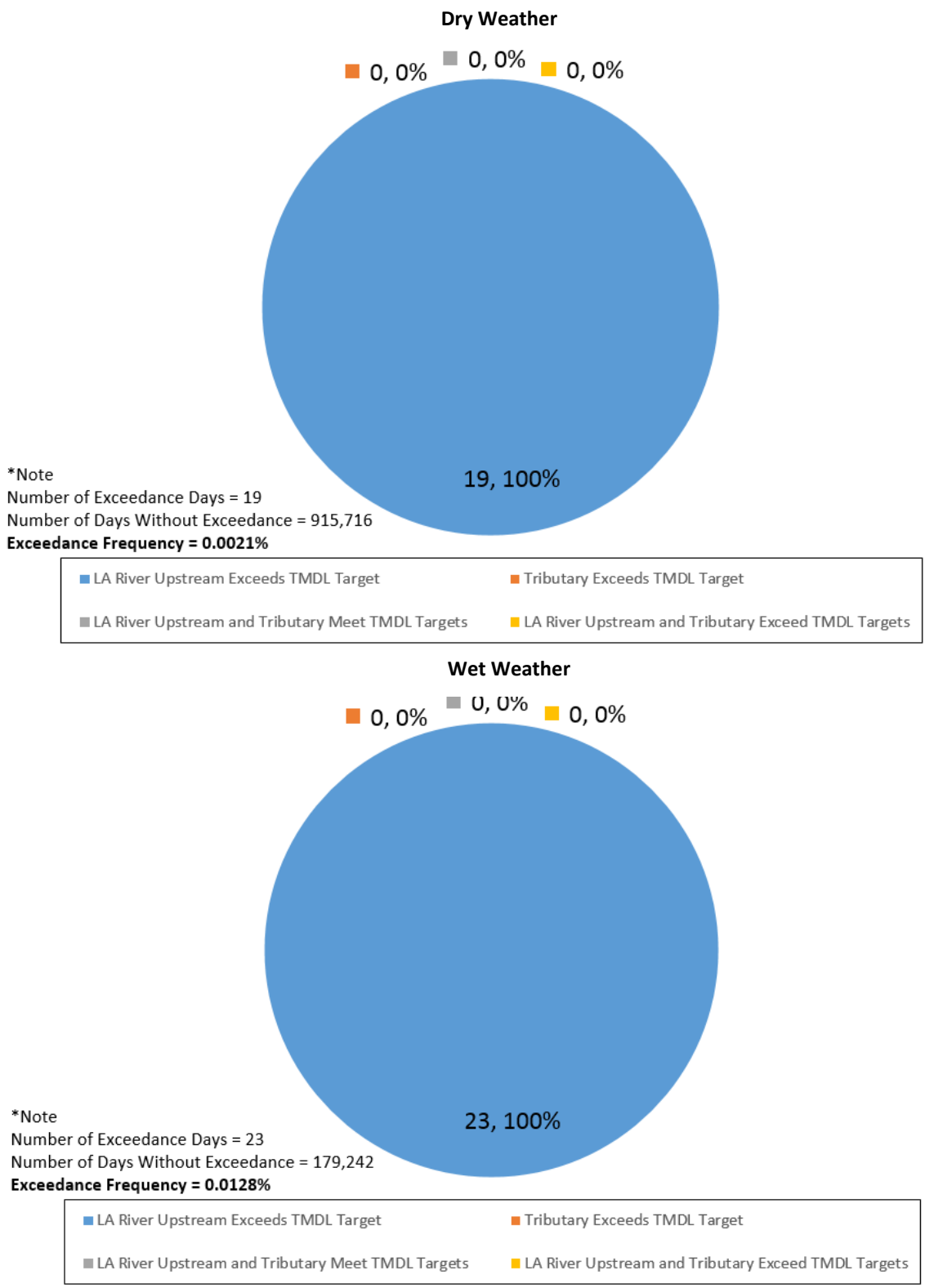


Figure A-13. Characteristics of simulated dry weather (top) and wet weather (bottom) exceedances in the LA River downstream of Burbank Western Channel for illustrative purposes. As detailed in the preceding text, the analysis demonstrates that the LA River downstream of Burbank Western Channel is projected to achieve the TMDL (defined as a median expected frequency of zero exceedances in three years), with at least a 90% level of confidence.

Protectiveness of Rio Hondo SSO for Reach 2

The protectiveness of the revised loading capacity based on the copper WER for the Rio Hondo was evaluated using total copper data and flows for Rio Hondo and for the LA River at Firestone Boulevard. The distributions of total copper and the proportions of contributing flows were based on data collected from 2003 – 2013 in Rio Hondo and the LA River in Reach 2. The copper data were evaluated separately for wet and dry conditions for LA River at Firestone Boulevard and were approximately lognormally distributed.

As described in bullet #2 on page A-2, because one or more exceedances were projected to occur in a three-year period in the upstream LA River reach during wet weather and the Rio Hondo during dry weather based on the water quality data, the wet and dry weather total copper distributions for these waterbody conditions were adjusted in increments of $\leq 2.5\%$ in log-scale to attain the TMDL targets (zero exceedances with 90% confidence in the upstream waterbodies) *before running the Monte-Carlo simulations to evaluate attainment in the downstream reach*. Attainment of the TMDL targets in the downstream reach was not considered or evaluated when adjusting the upstream waterbody input distributions. No distribution adjustments were needed for the upstream LA River reach for dry weather or Rio Hondo for wet weather. The copper water quality data distribution parameters, the adjustments for the simulations and the corresponding Monte-Carlo based distribution parameters are provided in **Table A-5**. The proportion of Rio Hondo flows in Reach 2 ranges from 0.0-0.78 in dry conditions, and from 0.00002-0.945 in wet conditions (**Figure A-14**). These observed limits were used to constrain the flow proportions used in the Monte-Carlo analysis. Rio Hondo flow proportions for wet and dry events were simulated using four-parameter random Johnson S_u distributions. This distribution is a flexible transformation of the normal distribution with parameters for mean, standard deviation, skewness, and kurtosis. The distribution was selected by fitting and evaluating multiple types of distributions, including normal, lognormal, normal mixtures, and the Johnson distribution family. The distribution was selected based on the best fit for the flow proportion data.

Table A-5. Copper distribution parameters for Rio Hondo Monte-Carlo simulations

Reach	Event Type	Water Quality Distribution (µg/L) ⁽¹⁾		Monte-Carlo Distribution (µg/L) ⁽²⁾		Three Year Maximum Copper Concentration in Upstream Waterbody (µg/L) ⁽³⁾			WER-Adjusted TMDL Target Concentration (µg/L)	Notes
		Mean	Std Dev	Mean	Std Dev	Minimum	Median	Maximum		
Reach 2 above Rio Hondo	DRY	12.6	5.7	12.6	5.8	32	46	94	87	No adjustment
	WET	17.6	16.7	12.5	7.8	28	49	144	67	-10% adjustment
Rio Hondo	DRY	26.3	16.3	21.5	11.4	62	91	195	126	-5% adjustment
	WET	14.7	4.9	14.8	5.3	26	35	66	162	No adjustment

- (1) Unadjusted distribution parameters of the water quality data used to develop the input distributions for the Monte-Carlo simulations.
- (2) Distribution parameters resulting from the Monte-Carlo simulations after any necessary adjustments for attainment (i.e., zero exceedances with 90% confidence) of the WER-adjusted TMDL targets.
- (3) Statistics for the maximum simulated copper concentrations observed in 1,000 three-year Monte-Carlo simulation periods.

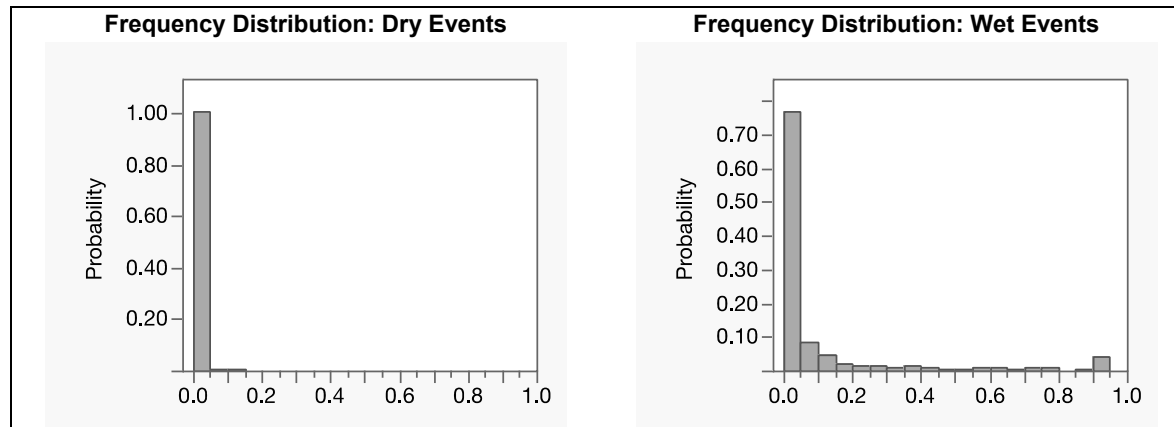


Figure A-14. Flow proportions of Rio Hondo in LA River Reach 2

Results for Rio Hondo and Reach 2

For the interaction between LA River Reach 2 and Rio Hondo, the Monte-Carlo simulation results demonstrate that the LA River downstream of Rio Hondo was projected to achieve the TMDL with at least a 90% level of confidence and meet the definition of attainment established for the analysis (i.e., defined as **zero** exceedances of the wet weather and dry weather TMDL targets in a three-year period, with greater than 90% confidence). **Table A-6** and **Figure A-15** (left panel) show that zero (0) exceedances of the downstream TMDL target occurred in 912 of the 1,000 simulated three-year periods (i.e., the confidence level that zero exceedances will occur downstream of Rio Hondo is 91.2%). However, all 88 simulated three-year periods for which downstream exceedances were observed consisted of exceedances associated with concentrations in the upstream LA River that exceeded the upstream WER-adjusted target (shown in **Table A-6**). As such, none of the simulated three-year periods contained exceedances associated with concentrations in the tributary and upstream LA River that met their WER-adjusted targets (i.e., the condition of interest). A recalculation of the confidence level based on only the data that meet the assumptions of the analysis (i.e., no exceedances upstream) shows that the best estimate (median) number of exceedances of the downstream TMDL target associated with the upstream LA River and tributary meeting the WER-adjusted target for any three-year period is **zero**, with a confidence level of 100% (shown in **Figure A-15**, right panel), thus meeting the definition of attainment for the analysis.

Table A-6. Summary of Results for 1,000 Simulated Three-Year Periods for the LA River Downstream of Rio Hondo for the Different Dry and Wet Weather Upstream River and Tributary Conditions (Values are the Number of Simulations; Parentheses are the Percent of Total)⁽¹⁾

Downstream Result Type	Dry Weather and Wet Weather Condition Type/Category				Total
	Tributary and Upstream River Less Than TMDL Target	Upstream River Greater Than TMDL Target	Tributary Greater Than TMDL Target	Tributary and Upstream River Greater Than TMDL Target	
	1	2	3	4	
Characteristics of No Exceedance Downstream	832 (83.2%)	21 (2.1%)	59 (5.9%)	0 (0%)	912 (91.2%)
Characteristics of Exceedance Downstream	0 (0%)	88 (8.8%)	0 (0%)	0 (0%)	88 (8.8%)
Total	832 (83.2%)	109 (10.9%)	59 (5.9%)	0 (0%)	1,000 (100%)

(1) The condition where both the tributary and upstream river are less than their respective WER adjusted TMDL targets is the condition of interest (shown in bold, condition 1). The other conditions (2, 3, and 4) are not consistent with the assumption that the tributary and upstream river are meeting the TMDL target, and therefore, are not the focus of the analysis.

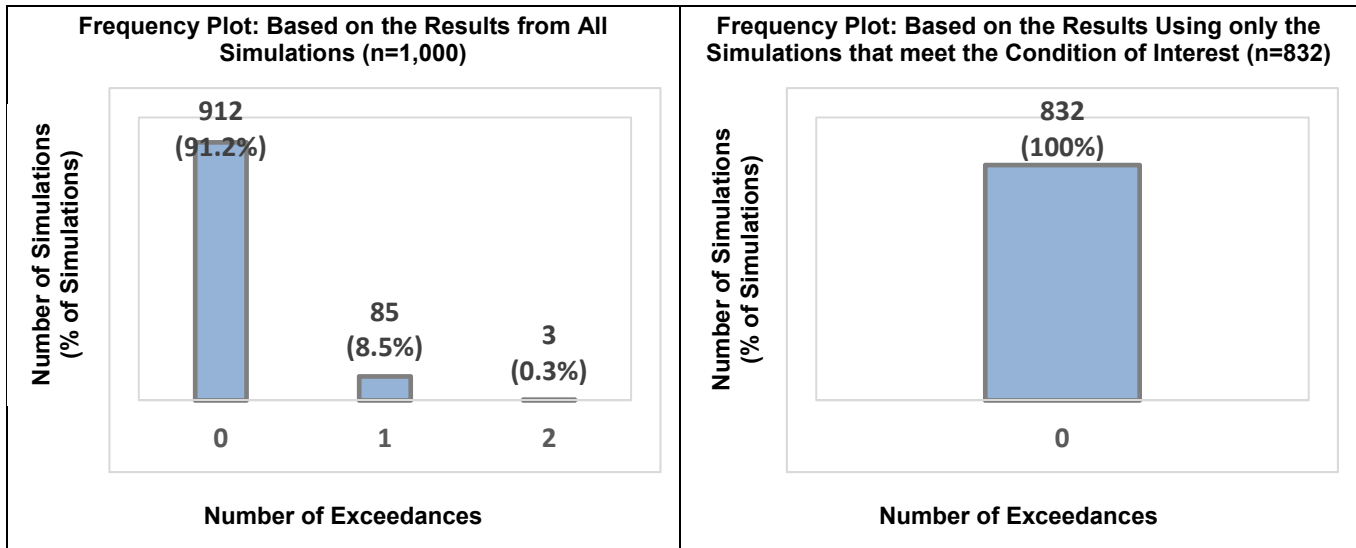


Figure A-15. Results of Monte-Carlo simulations for LA River in Reach 2 below Rio Hondo: Distribution of exceedances per three-year period during All Conditions (left) and the Condition of Interest (right) (i.e., when both the upstream LA River and Rio Hondo meet their respective WER adjusted TMDL targets). Each bar indicates the number and percentage of model runs (3-year periods) with the indicated number of exceedances.

In addition, the unbiased estimate (median) of the maximum copper concentration expected in a three-year period is 47 µg/L with a 90% upper confidence limit of 62 µg/L (**Figure A-16**). These results mean that if copper concentrations in Rio Hondo and LA River Reach 2 upstream of Rio Hondo meet the revised TMDL loading capacity requirements during dry and wet weather, the highest copper concentration expected during a three-year period is expected to be less than the TMDL targets in LA River Reach 2 below Rio Hondo (87 and 67 ug/L total copper during dry and wet weather, respectively).

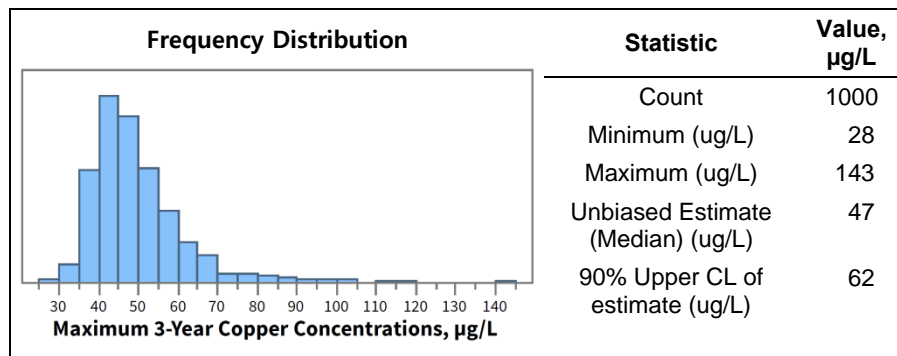
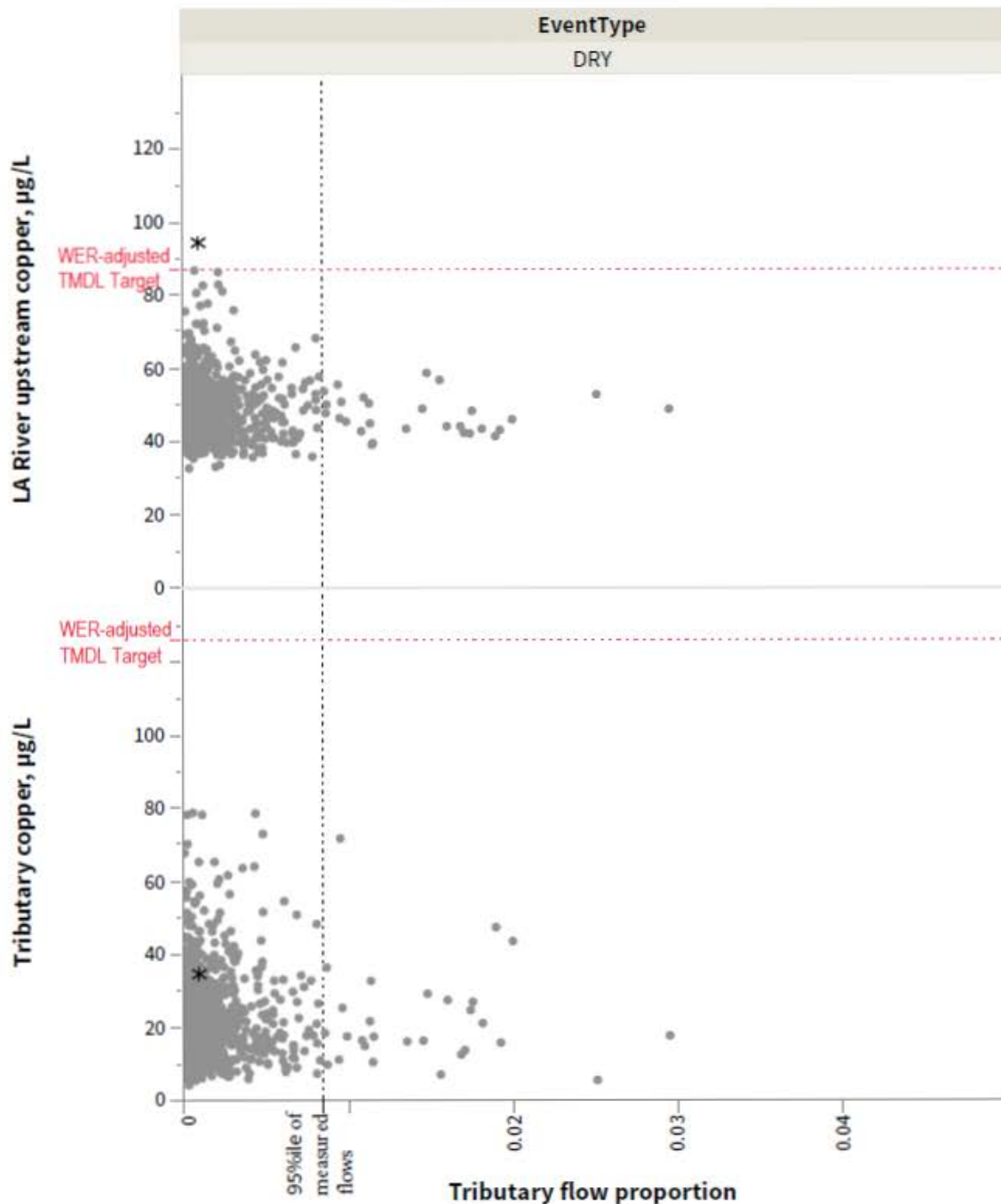


Figure A-16. Results of Monte-Carlo simulations for LA River in Reach 2 below Rio Hondo: Distribution of maximum copper concentrations per three-year period. The histogram illustrates the distribution of the maximum copper concentrations for the downstream reach for 1,000 three-year model iterations. Each bar indicates the number of model runs (3-year periods) with the indicated maximum concentration. The unbiased estimate of the maximum concentration expected in three years is equal to the median, and the 90% confidence level is equal to the 90 percent cumulative probability level.

Figure A-17 and **Figure A-18** present separate dry and wet weather plots of the total copper concentrations and associated flow proportions generated through a Monte-Carlo simulation in the LA River upstream of Rio Hondo and within Rio Hondo itself on the days when the LA River downstream of Rio Hondo was at the three-year maximum dry and wet weather copper concentrations for each of the 1,000 simulated three-year periods. The upstream LA River and tributary WER-adjusted TMDL targets and the 95th percentile of the measured flow proportions are also presented. **Figure A-19** shows separate dry and wet weather pie charts illustrating a breakdown of the characteristics of the simulated exceedances downstream of Rio Hondo.

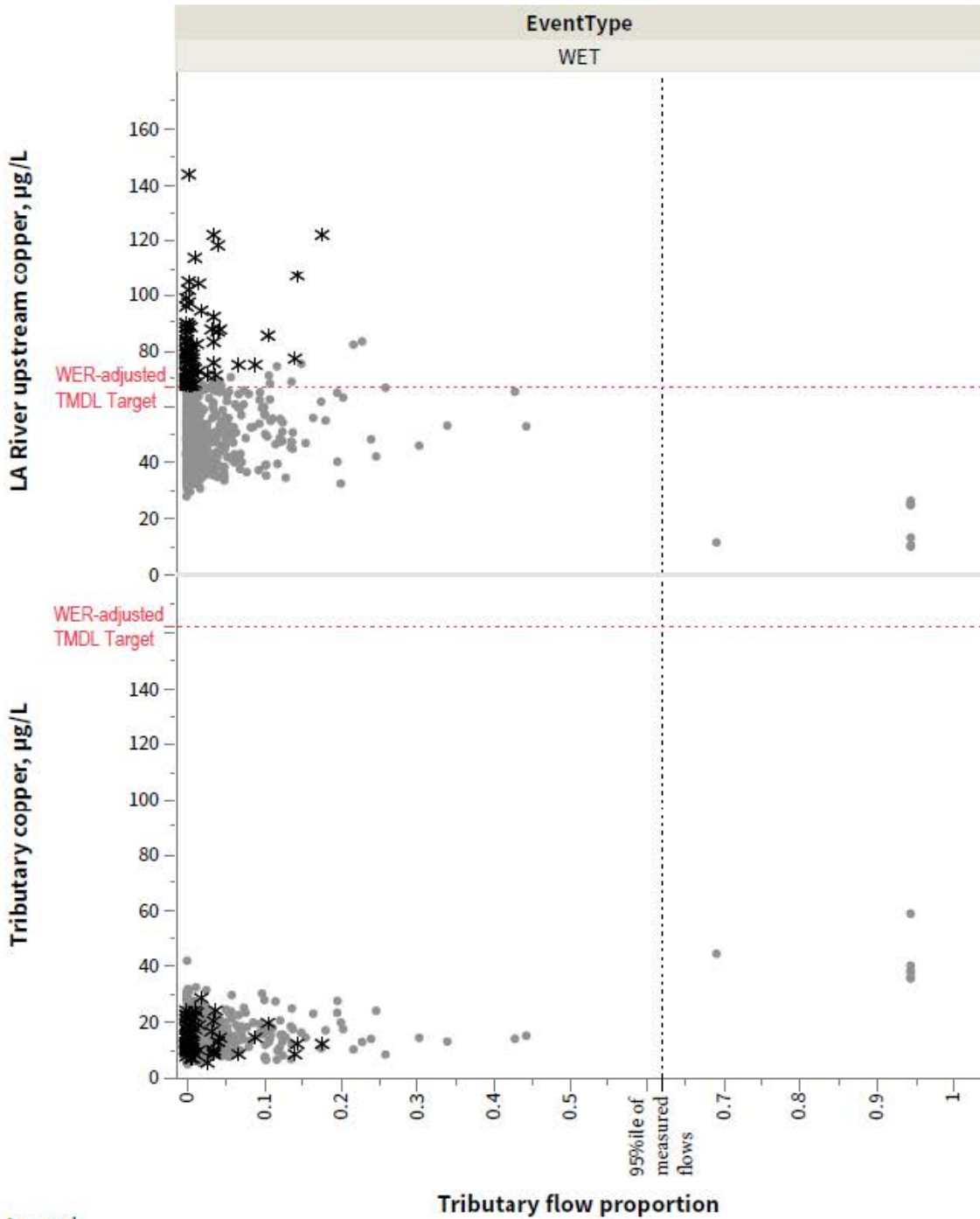
In summary, the results of the analysis demonstrated that the downstream WER-adjusted TMDL targets are expected to be attained (i.e., **zero** exceedances of the wet weather and dry weather TMDL targets in a three-year period, with greater than 90% confidence).



Legend

- * Downstream exceedances associated with upstream LA River exceeding WER adjusted target (N=1)
- Meets WER adjusted TMDL Target (N=999)

Figure A-17. Monte-Carlo results observed in the LA River upstream of Rio Hondo and in the Rio Hondo during each of the 1,000 simulations on the days when the LA River downstream of Rio Hondo was at the three-year maximum dry weather copper concentrations. The upper and lower portions of the figure display the corresponding concentration in the LA River upstream of Rio Hondo and in the Rio Hondo, respectively, plotted against the tributary flow proportion.



Legend

- * Downstream exceedances associated with upstream LA River exceeding WER adjusted target (N=87)
- Meets WER adjusted TMDL Target (N=913)

Figure A-18. Monte-Carlo results observed in the LA River upstream of Rio Hondo and in the Rio Hondo during each of the 1,000 simulations on the days when the LA River downstream of Rio Hondo was at the three-year maximum wet weather copper concentrations. The upper and lower portions of the figure display the corresponding concentration in the LA River upstream of Rio Hondo and in the Rio Hondo, respectively, plotted against the tributary flow proportion.

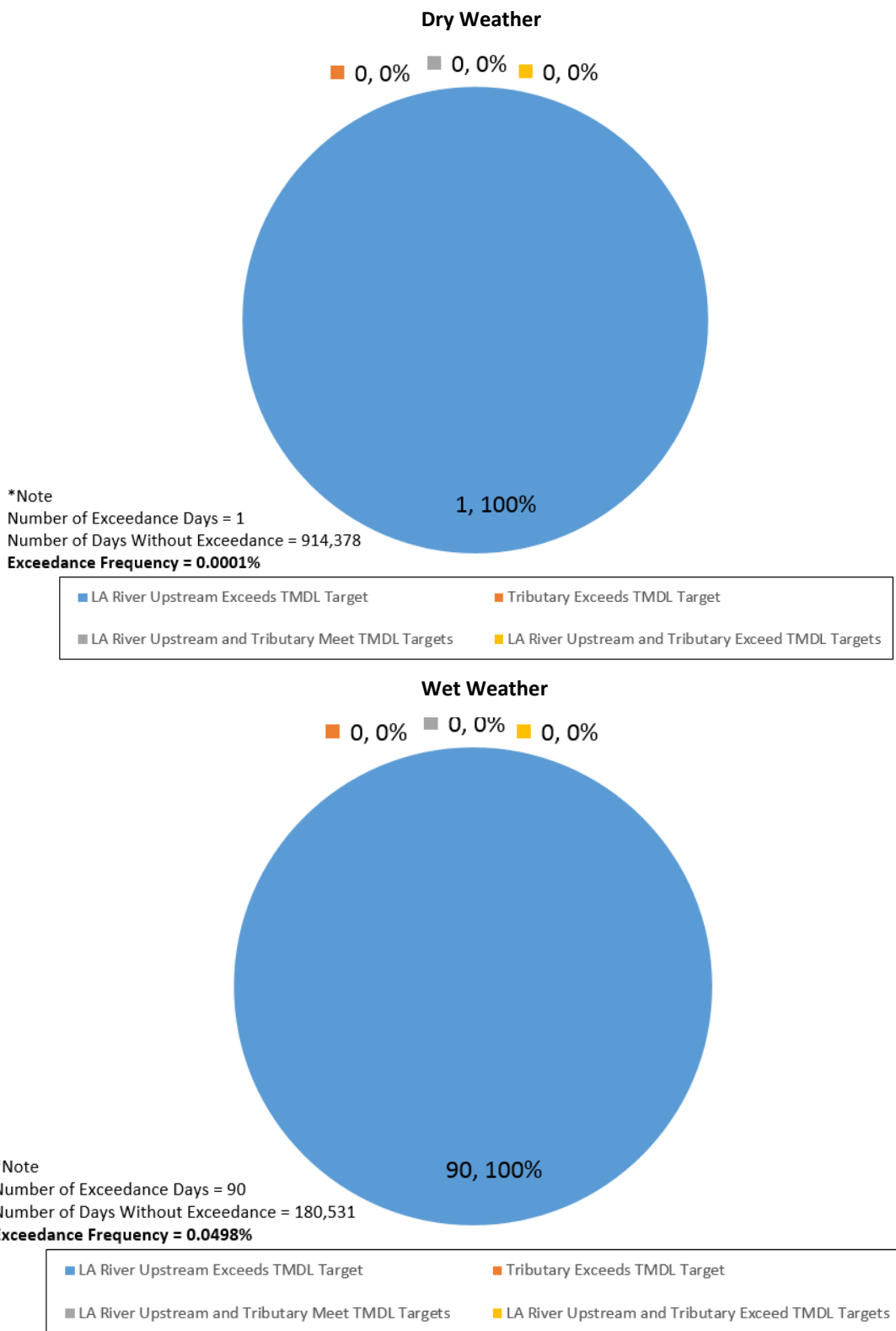


Figure A-19. Characteristics of simulated dry weather (top) and wet weather (bottom) exceedances in the LA River downstream of Rio Hondo for illustrative purposes. As detailed in the preceding text, the analysis demonstrates that the LA River downstream of Rio Hondo is projected to achieve the TMDL (defined as a median expected frequency of zero exceedances in three years), with at least a 90% level of confidence.

Protectiveness of Burbank Western Channel SSOs below Burbank WRP

The protectiveness of the revised loading capacity based on the copper WER for BWC was evaluated using total copper data and flows for BWC and the actual and design flows for Burbank WRP. The distributions of total copper and the proportions of contributing flows were based on data collected from 2008 – 2013 for Burbank WRP and BWC below the Burbank WRP. This time period was selected because changes in Burbank WRP operations (nitrification/denitrification and chloramination) have resulted in lower copper concentrations in the WRP final effluent as well as lower variability (**Figure A-20**). This reduction in Burbank WRP copper concentrations and variability is also reflected in the data for the channel below the Burbank WRP (**Figure A-21**) during dry weather conditions when Burbank WRP discharges make up the majority of the flow. The copper concentration data were considered separately for wet and dry conditions and were approximately lognormally distributed.

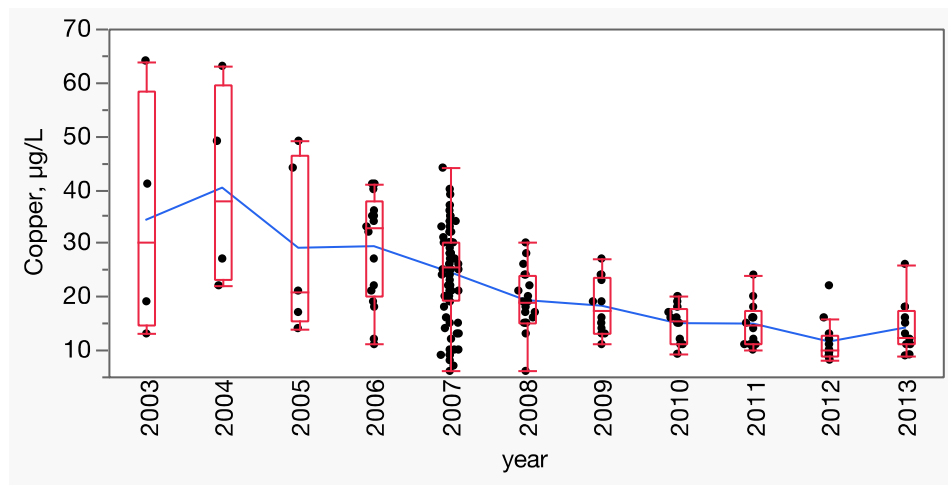


Figure A-20. Copper concentrations in Burbank WRP final treated effluent

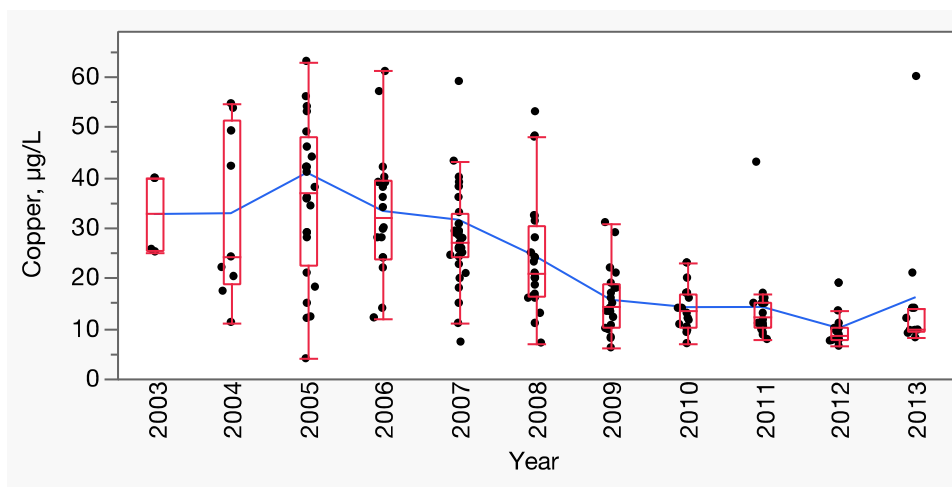


Figure A-21. Copper concentrations in Burbank Western Channel below Burbank WRP

The protectiveness of the revised loading capacity based on the copper WER for the BWC above the Burbank WRP was evaluated using total copper data and flows for the Burbank WRP, total copper data (dry weather) and flows for the BWC below the Burbank WRP, and total copper data (wet weather) for the BWC below the Burbank WRP. There were insufficient wet weather data for the channel above the Burbank WRP, so the wet weather total copper distribution for BWC was based on the downstream data distribution.

The total copper distribution for the Burbank WRP was used without adjustment because it currently is estimated to attain the revised TMDL loading capacity with 90% confidence. The wet and dry weather total copper distributions for BWC upstream from the WRP were adjusted as needed to achieve 90% confidence in attainment and meet the expectations of the TMDL. As described in bullet #2 on page A-2, adjustments were made in increments of $\leq 2.5\%$ in log-scale to attain the TMDL targets (zero exceedances with 90% confidence in the upstream waterbodies) *before running the Monte-Carlo simulations to evaluate attainment in the downstream reach*. Attainment of the TMDL targets in the downstream reach was not considered or evaluated when adjusting the upstream waterbody input distributions. The copper water quality data distribution parameters, the adjustments for the simulations and the corresponding Monte-Carlo based distribution parameters are provided in **Table A-7**.

Flows in BWC below the Burbank WRP consist predominantly of Burbank WRP discharge in dry weather. TMDL critical dry weather flows of 17.3 cfs for the channel are based on 14 cfs design flow for the Burbank WRP plus 3.3 cfs median non-Burbank WRP flows. Actual average flows for the Burbank WRP were 9.9 cfs for the period 2008-2013. The proportion of flow contributed by the Burbank WRP is typically small during wet weather conditions, but varies widely. Flows below the Burbank WRP are greater than the average Burbank WRP flow more than 90% of the time, and are often as high as 10 to 100 times the average Burbank WRP flow. The proportion of non-Burbank WRP flows in BWC below the Burbank WRP ranges from 0-0.96 in dry conditions, and from 0-0.992 in wet conditions (**Figure A-22**). These observed limits were used to constrain the flow proportions used in the Monte-Carlo analysis. Non-Burbank WRP flow proportions for wet and dry events in BWC were simulated using four-parameter random Johnson S_u distributions. This distribution is a flexible transformation of the normal distribution with parameters for mean, standard deviation, skewness, and kurtosis. The distribution was selected by fitting and evaluating multiple types of distributions, including normal, lognormal, normal mixtures, and the Johnson distribution family. The distribution was selected based on the best fit for the flow proportion data.

Table A-7. Copper distribution parameters for Monte-Carlo simulations for Burbank Western Channel below the Burbank WRP, 2008-2013 data

Reach	Event Type	Water Quality Distribution (µg/L) ⁽¹⁾		Monte-Carlo Distribution (µg/L) ⁽²⁾		Three Year Maximum Copper Concentration in Upstream Waterbody (µg/L) ⁽³⁾			WER-Adjusted TMDL Target Concentration (µg/L)	Notes
		Mean	Std Dev	Mean	Std Dev	Minimum	Median	Maximum		
Burbank WRP Effluent	NA	15.8	5.4	15.8	5.5	26	41	73	90	No adjustment
Burbank Western Channel <i>above</i> Burbank WRP	DRY	18.2	14.3	14.5	10.0	52	86	269	141	-7.5% adjustment
	WET ⁽⁴⁾	27.8	13.1	20.4	12.6	42	65	156	92	-7.5% adjustment

- (1) Unadjusted distribution parameters of the water quality data used to develop the input distributions for the Monte-Carlo simulations.
- (2) Distribution parameters resulting from the Monte-Carlo simulations after any necessary adjustments for attainment (i.e., zero exceedances with 90% confidence) of the WER-adjusted TMDL targets.
- (3) Statistics for the maximum simulated copper concentrations observed in 1,000 three-year Monte-Carlo simulation periods.
- (4) Insufficient data to determine distribution for upstream copper concentrations. Downstream data were used as the basis for distribution, with the mean adjusted to meet upstream TMDL with 90% confidence.

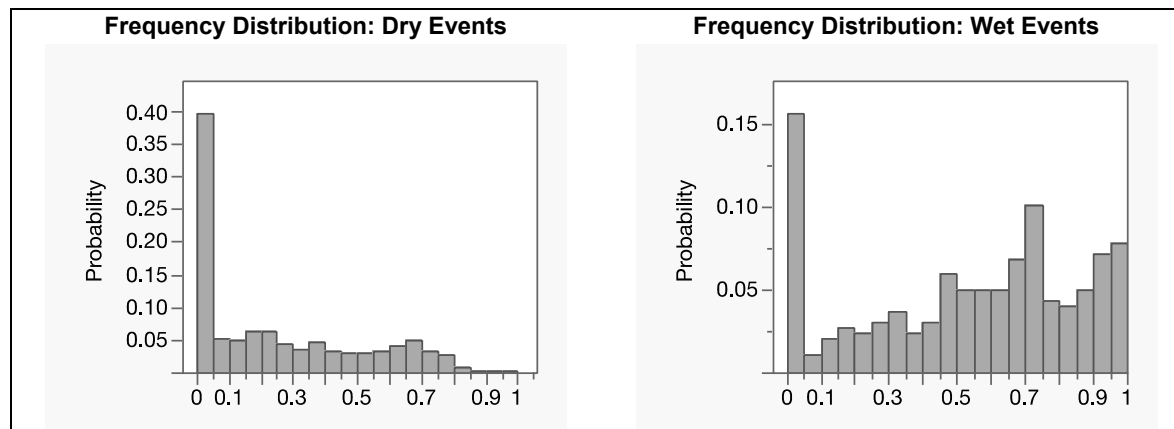


Figure A-22. Proportion of non-WRP flows in Burbank Western Channel below the Burbank WRP

Results for Burbank Western Channel below the Burbank WRP

For the interaction between Burbank WRP effluent and BWC above the WRP, the Monte-Carlo simulation results demonstrate that BWC downstream of the WRP was projected to achieve the TMDL with at least a 90% level of confidence and meet the definition of attainment established for the analysis (i.e., defined as **zero** exceedances of the wet weather and dry weather TMDL targets in a three-year period, with greater than 90% confidence). **Table A-8** and **Figure A-23** (left panel) show that zero (0) exceedances of the downstream TMDL target occurred in 964 of the 1,000 simulated three-year periods (i.e., the confidence level that zero exceedances will occur in the BWC downstream of the WRP is 96.4%). Of the 36 simulated three-year periods for which downstream exceedances were observed the following was noted:

- 29 simulated three-year periods consisted of exceedances associated with concentrations in the BWC above the WRP that exceeded the upstream WER-adjusted targets (shown in **Table A-8**).
- 7 simulated three-year periods contained exceedances associated with concentrations in the Burbank WRP effluent and BWC above the WRP which met their WER-adjusted targets (shown in **Table A-8**).

A recalculation of the confidence level based on only the data that meet the assumptions of the analysis (i.e., no exceedances upstream) shows that the best estimate (median) number of exceedances of the downstream TMDL target associated with the Burbank WRP effluent and BWC above the WRP meeting the WER-adjusted target for any three-year period is **zero**, with a confidence level of 99.2% (shown in **Figure A-23**, right panel), thus meeting the definition of attainment for the analysis.

Table A-8. Summary of Results for 1,000 Simulated Three-Year Periods for the Burbank Western Channel Downstream of the Burbank Water Reclamation Plant for the Different Dry and Wet Weather Upstream and Downstream Tributary Conditions (Values are the Number of Simulations; Parentheses are the Percent of Total)⁽¹⁾

Downstream Result Type	Dry Weather and Wet Weather Condition Type/Category				Total
	Upstream BWC and Burbank WRP Less Than TMDL Target	Burbank WRP Greater Than TMDL Target	Upstream BWC Greater Than TMDL Target	Upstream BWC and Burbank WRP Greater Than TMDL Target	
	1	2	3	4	
Characteristics of No Exceedance Downstream	913 (91.3%)	0 (0%)	51 (5.1%)	0 (0%)	964 (96.4%)
Characteristics of Exceedance Downstream	7 (0.7%)	0 (0%)	29 (2.9%)	0 (0%)	36 (3.6%)
Total	920 (92.0%)	0 (0%)	80 (8.0%)	0 (0%)	1,000 (100%)

(1) The condition where both the BWC above the WRP and Burbank WRP are less than their respective WER adjusted TMDL targets is the condition of interest (shown in bold, condition 1). The others conditions (2, 3, and 4) are not consistent with the assumption that the BWC above the WRP and Burbank WRP are meeting the TMDL target, and therefore, are not the focus of the analysis.

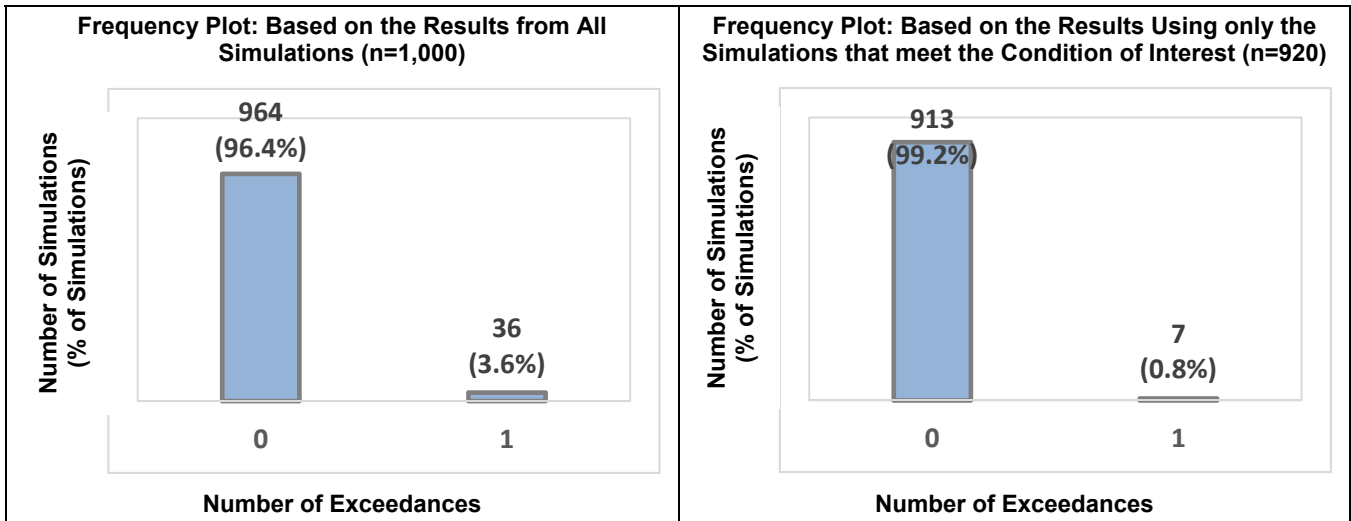


Figure A-23. Results of Monte-Carlo simulations for Burbank Western Channel below the Burbank WRP: Distribution of exceedances per three-year period during All Conditions (left) and the Condition of Interest (right) (i.e., when both the Burbank WRP effluent and Burbank Western Channel above the WRP meet their respective WER adjusted TMDL targets). Each bar indicates the number and percentage of model runs (3-year periods) with the indicated number of exceedances.

In addition, the unbiased estimate (median) of the maximum copper concentration expected in a three-year period is 50 µg/L with a 90% upper confidence limit of 67 µg/L (**Figure A-24**). These results mean that if copper concentrations in the Burbank WRP effluent and BWC above the WRP meet the revised TMDL loading capacity requirements during dry and wet weather, the highest copper concentration expected during a three-year period is expected to be less than the TMDL targets in the BWC downstream of the WRP (90 and 81 ug/L total copper during dry and wet weather, respectively).

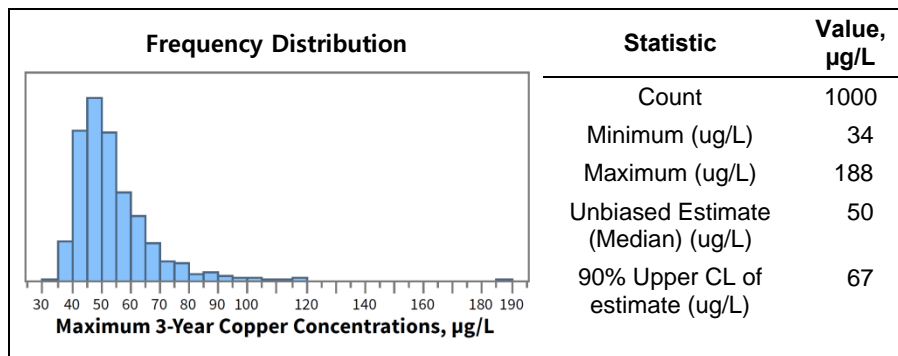
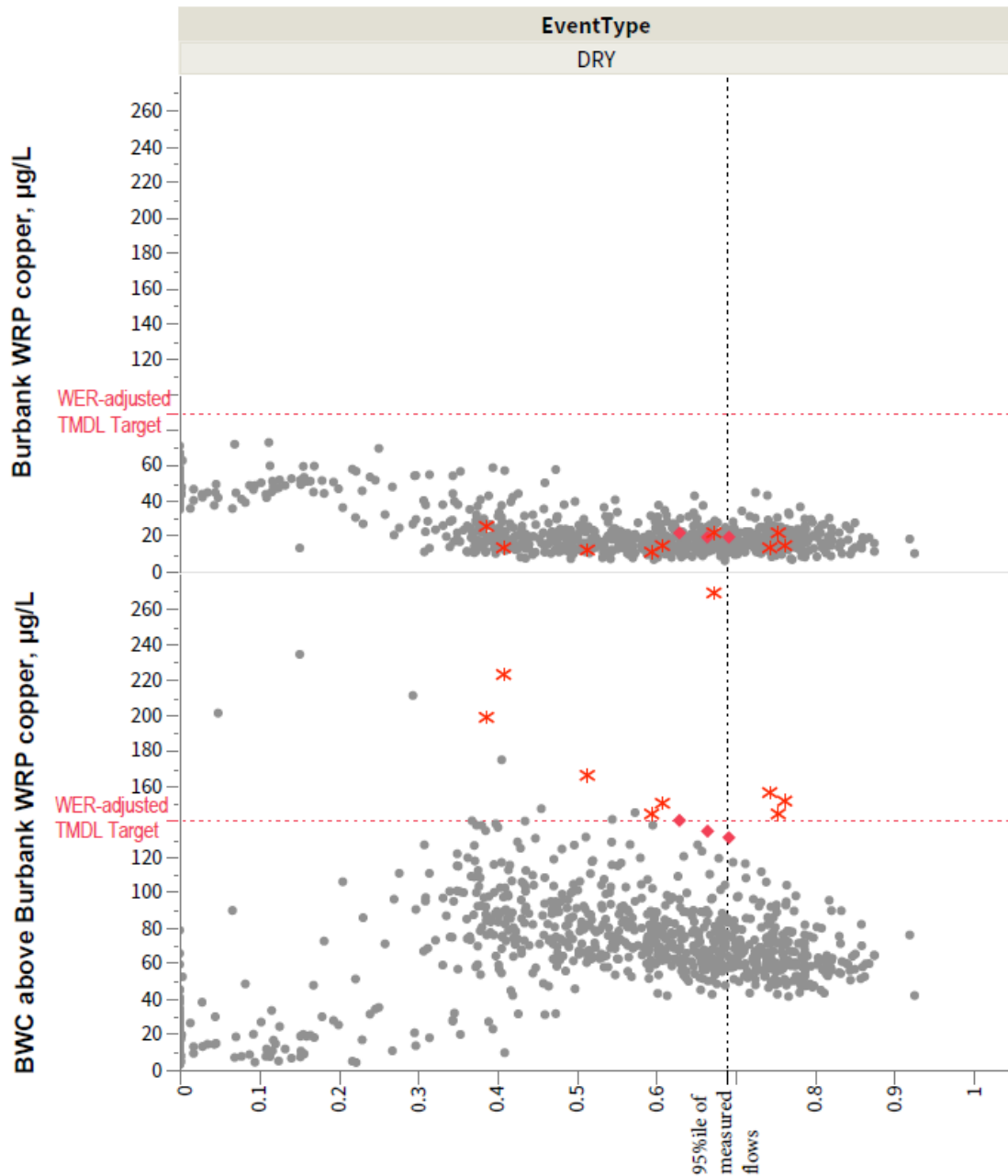


Figure A-24. Results of Monte-Carlo simulations for Burbank Western Channel downstream of the WRP: Distribution of maximum copper concentrations per three-year period. The histogram illustrates the distribution of the maximum copper concentrations for the downstream reach for 1,000 three-year model iterations. Each bar indicates the number of model runs (3-year periods) with the indicated maximum concentration. The unbiased estimate of the maximum concentration expected in three years is equal to the median, and the 90% confidence level is equal to the 90 percent cumulative probability level.

Figure A-25 and **Figure A-26** present separate dry and wet weather plots of the total copper concentrations and associated flow proportions generated through a Monte-Carlo simulation in the Burbank WRP effluent and within the BWC upstream of the Burbank WRP on the days when the BWC downstream of the Burbank WRP was at the three-year maximum dry and wet weather copper concentrations for each of the 1,000 simulated three-year periods. The Burbank WRP and the BWC upstream of the Burbank WRP WER-adjusted TMDL targets and the 95th percentile of the measured flow proportions are also presented. **Figure A-27** shows separate dry and wet weather pie charts illustrating a breakdown of the characteristics of the simulated exceedances downstream of the Burbank WRP.

In summary, the results of the analysis demonstrated that the downstream WER-adjusted TMDL targets are expected to be attained (i.e., **zero** exceedances of the wet weather and dry weather TMDL targets in a three-year period, with greater than 90% confidence).

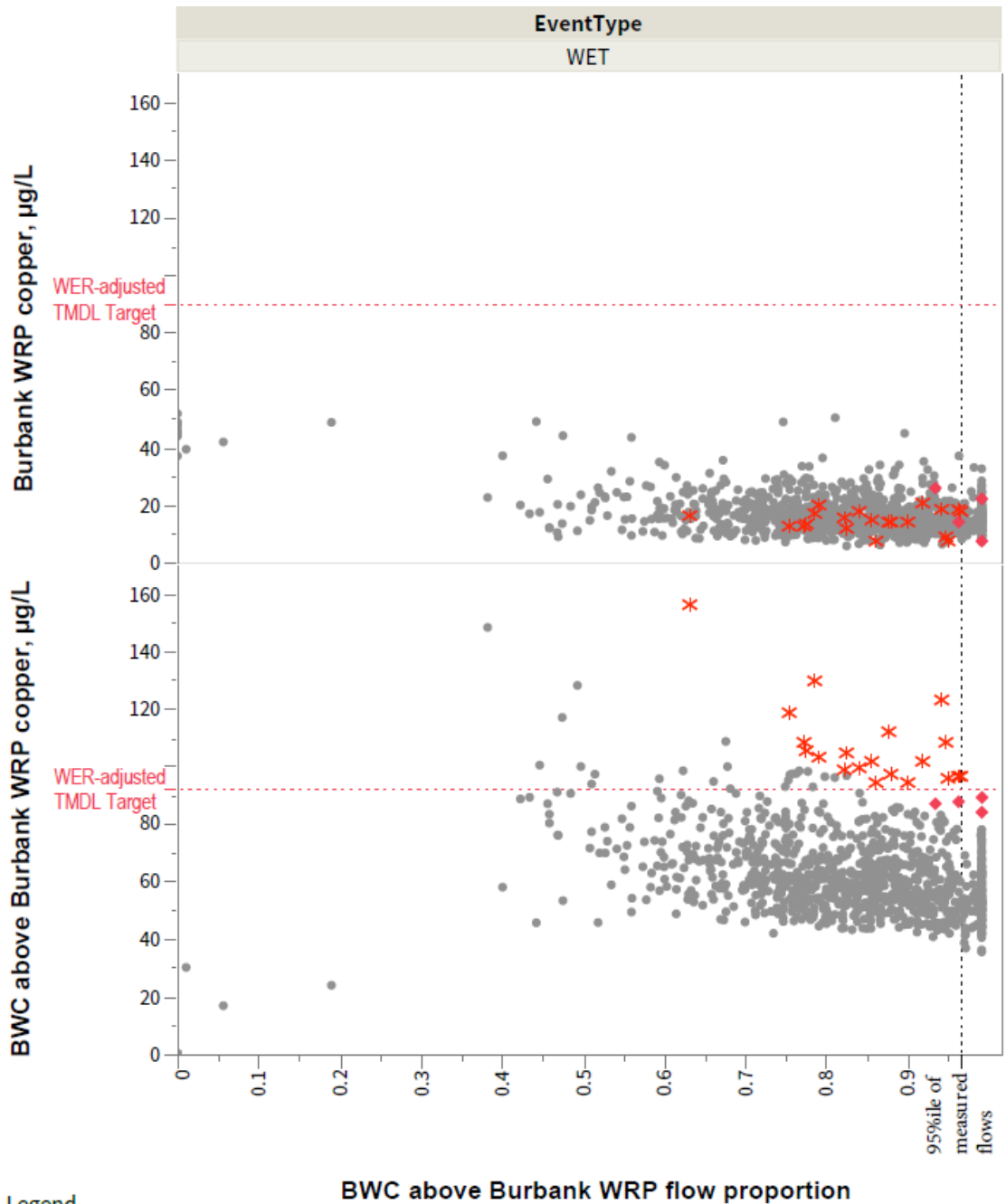


Legend

BWC above Burbank WRP flow proportion

- * Downstream exceedances associated with upstream BWC exceeding WER adjusted target (N=9)
- ◆ Downstream exceedances associated with upstream BWC and WRP meeting WER adjusted target (N=3)
- Meets WER adjusted TMDL Target (N=988)

Figure A-25. Monte-Carlo results observed in the Burbank WRP effluent and Burbank Western Channel above the WRP during each of the 1,000 simulations on the days when the Burbank Western Channel downstream of the Burbank WRP was at the three-year maximum dry weather copper concentrations. The upper and lower portions of the figure display the corresponding concentration in the Burbank WRP effluent and Burbank Western Channel above the WRP, respectively, plotted against the Burbank Western Channel above the WRP flow proportion.



Legend

- * Downstream exceedances associated with upstream BWC exceeding WER adjusted target (N=20)
- ◆ Downstream exceedances associated with upstream BWC and WRP meeting WER adjusted target (N=4)
- Meets WER adjusted TMDL Target (N=976)

Figure A-26. Monte-Carlo results observed in the Burbank WRP effluent and Burbank Western Channel above the WRP during each of the 1,000 simulations on the days when the Burbank Western Channel downstream of the Burbank WRP was at the three-year maximum wet weather copper concentrations. The upper and lower portions of the figure display the corresponding concentration in the Burbank WRP effluent and Burbank Western Channel above the WRP, respectively, plotted against the Burbank Western Channel above the WRP flow proportion.

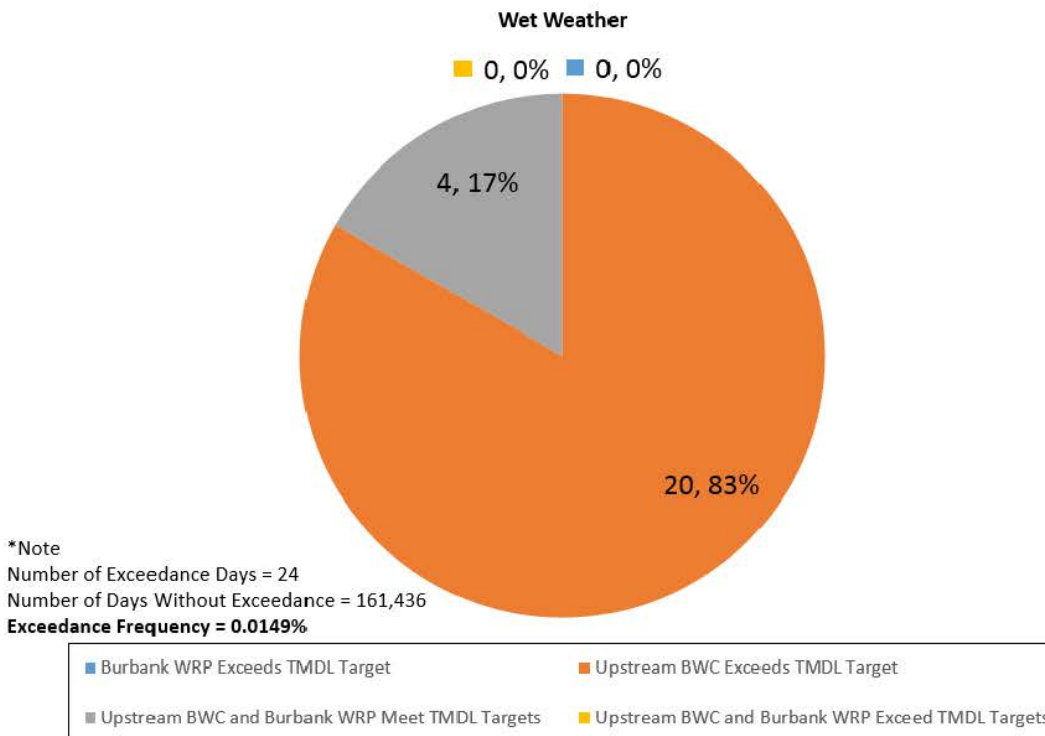
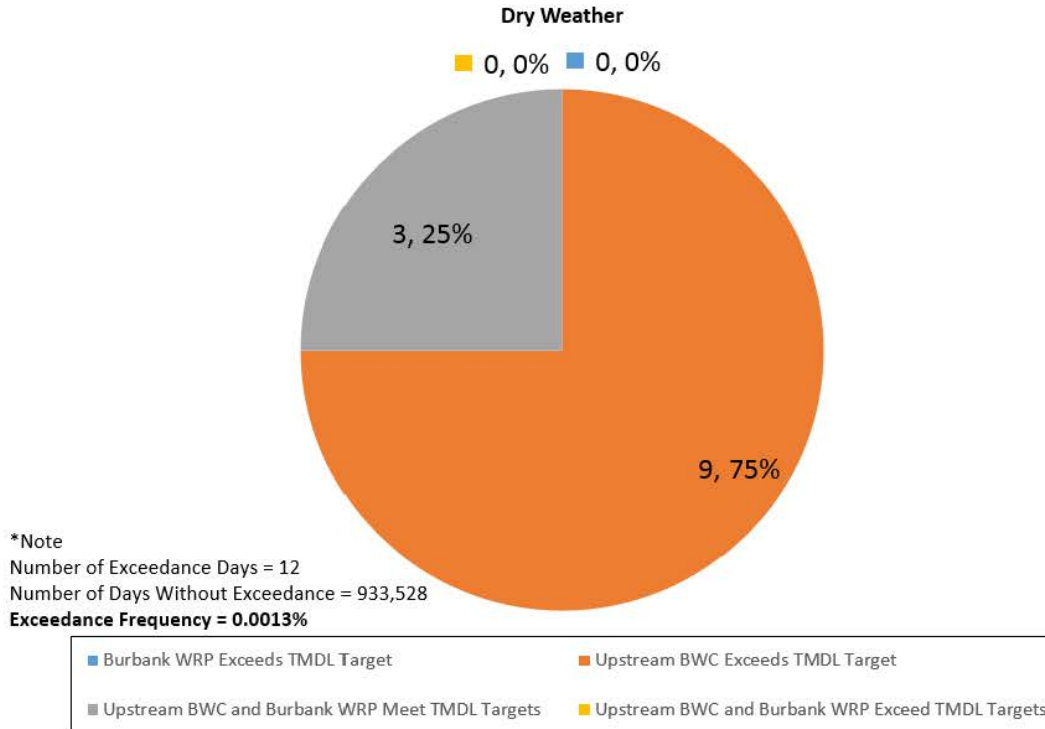


Figure A-27. Characteristics of simulated dry weather (top) and wet weather (bottom) exceedances in the Burbank Western Channel downstream of the Burbank WRP for illustrative purposes. As detailed in the preceding text, the analysis demonstrates that the Burbank Western Channel downstream of the Burbank WRP is projected to achieve the TMDL (defined as a median expected frequency of zero exceedances in three years), with at least a 90% level of confidence.

Conclusion

Attainment of downstream TMDL targets for the LA River and in the BWC below the Burbank WRP was evaluated based on current conditions and the estimated reductions in copper required to meet the concentrations used in calculating the TMDL loading capacities in Tujunga Wash, BWC, and Rio Hondo. The results of the analysis show that TMDL attainment in the LA River reaches immediately downstream from these tributaries, and in the reach of the BWC below the Burbank WRP, would not be adversely impacted by applying the higher WER and corresponding WER adjusted TMDL target, if the TMDL is attained in the tributaries. All downstream reaches were projected to achieve the TMDL (defined as a median expected frequency of zero exceedances in three years of the WER adjusted TMDL targets), with at least a 90% level of confidence. Furthermore, a recalculation of the confidence level based on only the data that meet the assumptions of the analysis (i.e., no exceedances upstream) shows that, for all downstream waterbodies, the best estimate (median) number of exceedances of the downstream TMDL targets associated with the waterbodies meeting the WER-adjusted targets for any three-year period is **zero**, with a minimum confidence level of 99.2%. Consequently, implementing these tributary-specific WERs is protective of the downstream reaches with lower WERs.

APPENDIX 1 – Attachment A Dataset

Date	Cu Data Event Type	Event Type	FLOW_ LARS	FLOW_ TUJW	FLOW LARS+TUJW	FlowRatio_ TUJW to TUJW+ LARS	FLOW_ LART	FLOW_ BWCH	FlowRatio_ BWCH to BWCH+ LART	FLOW_ BWRP	FlowRatio_ Above BWRP to BWCH
10/1/2003		DRY	78	0.09	78.09	0.00	78.6	15.74	0.17		
10/2/2003		DRY	85	0	85	0.00	88.6	16.03	0.15		
10/3/2003		DRY	85	0.02	85.02	0.00	96.6	14.20	0.13		
10/4/2003		DRY	80	0	80	0.00	93.1	15.40	0.14		
10/5/2003		DRY	79	0	79	0.00	90.2	14.05	0.13		
10/6/2003		DRY	84	0	84	0.00	96.0	15.80	0.14		
10/7/2003	DRY	DRY	85	0	85	0.00	96.0	15.32	0.14		
10/8/2003		DRY	86	0	86	0.00	97.8	15.77	0.14		
10/9/2003		DRY	86	0	86	0.00	98.7	15.95	0.14		
10/10/2003		DRY	86	0	86	0.00	99.8	15.05	0.13		
10/11/2003		DRY	83	0	83	0.00	97.2	14.80	0.13		
10/12/2003		DRY	81	0	81	0.00	92.5	14.53	0.14		
10/13/2003		DRY	83	0	83	0.00	79.7	13.67	0.15		
10/14/2003		DRY	82	0	82	0.00	78.1	15.28	0.16		
10/15/2003		WET	70	0	70	0.00	92.9	15.60	0.14		
10/16/2003		DRY	71	0	71	0.00	89.7	15.87	0.15		
10/17/2003		DRY	73	0	73	0.00	89.7	15.06	0.14		
10/18/2003		DRY	72	0	72	0.00	87.7	15.02	0.15		
10/19/2003		DRY	72	0	72	0.00	86.1	17.23	0.17		
10/20/2003		DRY	73	0	73	0.00	86.8	17.01	0.16		
10/21/2003		DRY	76	0	76	0.00	86.8	12.02	0.12		
10/22/2003		DRY	74	0	74	0.00	86.6	12.55	0.13		
10/23/2003		DRY	76	0	76	0.00	86.6	11.99	0.12		
10/24/2003		DRY	78	0	78	0.00	86.9	10.72	0.11		
10/25/2003		DRY	76	0	76	0.00	84.5	9.96	0.11		
10/26/2003		DRY	76	0	76	0.00	81.3	9.99	0.11		
10/27/2003		DRY	77	0	77	0.00	86.2	10.86	0.11		
10/28/2003		DRY	81	0	81	0.00	89.2	8.52	0.09		
10/29/2003		DRY	80	0	80	0.00	88.4	7.85	0.08		
10/30/2003		DRY	81	0	81	0.00	88.3	6.73	0.07		
10/31/2003		WET	104	0	104	0.00	189.9	47.88	0.20		
11/1/2003		WET	113	0	113	0.00	302.9	21.80	0.07		
11/2/2003		WET	72	0	72	0.00	86.1	9.25	0.10		
11/3/2003		DRY	75	0	75	0.00	96.2	7.14	0.07		
11/4/2003	DRY	DRY	72	0	72	0.00	85.2	7.11	0.08		
11/5/2003		DRY	75	0	75	0.00	88.9	7.11	0.07		
11/6/2003		DRY	72	0	72	0.00	80.1	7.62	0.09		
11/7/2003		DRY	71	0	71	0.00	78.7	9.05	0.10		
11/8/2003		DRY	74	0	74	0.00	84.9	9.05	0.10		
11/9/2003		DRY	77	0	77	0.00	93.5	9.05	0.09		
11/10/2003		DRY	76	0	76	0.00	89.6	9.05	0.09		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
11/11/2003		DRY	76	0	76	0.00	84.7	9.05	0.10		
11/12/2003	WET	WET	80	0	80	0.00	96.4	10.36	0.10		
11/13/2003		DRY	81	0	81	0.00	89.5	11.77	0.12		
11/14/2003		DRY	81	0	81	0.00	70.5	10.80	0.13		
11/15/2003		DRY	81	0	81	0.00	71.6	10.51	0.13		
11/16/2003		WET	85	0	85	0.00	84.0	9.53	0.10		
11/17/2003		DRY	80	0	80	0.00	70.7	7.90	0.10		
11/18/2003		DRY	80	0	80	0.00	70.8	7.90	0.10		
11/19/2003		DRY	80	0	80	0.00	72.5	7.90	0.10		
11/20/2003		DRY	82	0	82	0.00	71.4	7.90	0.10		
11/21/2003		WET	79	0	79	0.00	88.0	7.90	0.08		
11/22/2003		DRY	77	0	77	0.00	68.3	7.54	0.10		
11/23/2003		WET	77	0	77	0.00	80.0	6.52	0.08		
11/24/2003		DRY	80	0	80	0.00	68.0	6.32	0.09		
11/25/2003		WET	78	0	78	0.00	88.4	6.32	0.07		
11/26/2003		DRY	83	0	83	0.00	98.7	6.32	0.06		
11/27/2003		DRY	79	0	79	0.00	89.5	6.32	0.07		
11/28/2003		DRY	77	0	77	0.00	85.2	5.76	0.06		
11/29/2003		DRY	79	0	79	0.00	87.6	6.26	0.07		
11/30/2003		DRY	80	0	80	0.00	88.3	7.59	0.08		
12/1/2003		DRY	83	0	83	0.00	93.7	9.05	0.09		
12/2/2003		DRY	85	0	85	0.00	96.2	10.13	0.10		
12/3/2003		DRY	84	0	84	0.00	90.0	9.37	0.09		
12/4/2003		DRY	79	0	79	0.00	77.4	9.29	0.11		
12/5/2003		DRY	78	0	78	0.00	74.6	9.00	0.11		
12/6/2003		DRY	84	0	84	0.00	84.5	9.53	0.10		
12/7/2003		WET	96	0	96	0.00	141.7	15.17	0.10		
12/8/2003		DRY	81	0	81	0.00	85.8	7.95	0.08		
12/9/2003	DRY	DRY	80	0	80	0.00	79.3	7.19	0.08		
12/10/2003		DRY	82	0	82	0.00	84.9	7.74	0.08		
12/11/2003		DRY	82	0	82	0.00	82.6	8.20	0.09		
12/12/2003		DRY	82	0	82	0.00	82.3	7.88	0.09		
12/13/2003		DRY	80	0	80	0.00	79.1	7.70	0.09		
12/14/2003		WET	161	0	161	0.00	228.9	17.03	0.07		
12/15/2003		WET	75	0	75	0.00	89.8	10.47	0.10		
12/16/2003		DRY	71	0	71	0.00	76.7	8.19	0.10		
12/17/2003		DRY	73	0	73	0.00	79.3	7.90	0.09		
12/18/2003		DRY	72	0	72	0.00	76.0	7.90	0.09		
12/19/2003		DRY	73	0	73	0.00	78.8	7.59	0.09		
12/20/2003		DRY	74	0	74	0.00	80.8	7.79	0.09		
12/21/2003		DRY	75	0	75	0.00	84.0	7.90	0.09		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
12/22/2003		DRY	76	0	76	0.00	83.5	7.83	0.09		
12/23/2003		WET	90	0	90	0.00	139.2	7.56	0.05		
12/24/2003		WET	212	0	212	0.00	287.5	8.65	0.03		
12/25/2003		WET	1280	0	1280	0.00	1729.4	130.58	0.07		
12/26/2003		WET	125	0	125	0.00	139.6	18.98	0.12		
12/27/2003		WET	84	0	84	0.00	78.0	9.84	0.11		
12/28/2003		DRY	83	0	83	0.00	78.2	9.05	0.10		
12/29/2003		DRY	89	0	89	0.00	83.8	7.85	0.09		
12/30/2003		DRY	92	0	92	0.00	86.2	7.11	0.08		
12/31/2003		DRY	87	0	87	0.00	80.8	8.70	0.10		
1/1/2004		DRY	83	0	83	0.00	76.7	8.53	0.10		
1/2/2004		WET	600	0	600	0.00	732.8	14.52	0.02		
1/3/2004		WET	97	0	97	0.00	101.0	8.84	0.08		
1/4/2004		DRY	84	0	84	0.00	80.1	8.86	0.10		
1/5/2004		DRY	85	0	85	0.00	81.3	8.99	0.10		
1/6/2004		WET	115	0	115	0.00	131.7	9.14	0.06		
1/7/2004		WET	140	0	140	0.00	184.0	9.49	0.05		
1/8/2004		WET	133	0	133	0.00	168.2	9.71	0.05		
1/9/2004		WET	126	0	126	0.00	161.0	9.14	0.05		
1/10/2004		WET	120	0	120	0.00	153.3	9.36	0.06		
1/11/2004		WET	109	0	109	0.00	139.0	9.28	0.06		
1/12/2004		DRY	85	0	85	0.00	99.9	10.13	0.09		
1/13/2004	DRY	DRY	76	0	76	0.00	84.7	9.86	0.10		
1/14/2004		DRY	72	0	72	0.00	86.2	10.38	0.11		
1/15/2004		DRY	64	0	64	0.00	85.5	10.03	0.11		
1/16/2004		WET	73	0	73	0.00	110.9	10.46	0.09		
1/17/2004		WET	81	0	81	0.00	143.6	10.53	0.07		
1/18/2004		WET	87	0	87	0.00	173.4	10.24	0.06		
1/19/2004		WET	88	0	88	0.00	184.6	9.99	0.05		
1/20/2004		WET	88	0	88	0.00	178.3	10.18	0.05		
1/21/2004		WET	87	0	87	0.00	187.9	9.71	0.05		
1/22/2004		WET	85	0	85	0.00	166.3	11.65	0.07		
1/23/2004		WET	86	0	86	0.00	167.0	9.90	0.06		
1/24/2004		WET	86	0	86	0.00	167.3	10.38	0.06		
1/25/2004		WET	86	0	86	0.00	169.8	10.28	0.06		
1/26/2004		WET	87	0	87	0.00	171.9	10.37	0.06		
1/27/2004		WET	81	0	81	0.00	148.8	9.94	0.06		
1/28/2004		WET	69	0	69	0.00	86.6	10.41	0.11		
1/29/2004		DRY	64	0	64	0.00	77.9	9.96	0.11		
1/30/2004		DRY	66	0	66	0.00	82.1	8.75	0.10		
1/31/2004		DRY	65	0	65	0.00	79.8	9.15	0.10		

Date	Cu Data Event Type	Event Type	FLOW_ LARS	FLOW_ TUJW	FLOW LARS+TUJW	FlowRatio_ TUJW to TUJW+ LARS	FLOW_ LART	FLOW_ BWCH	FlowRatio_ BWCH to BWCH+ LART	FLOW_ BWRP	FlowRatio_ Above BWRP to BWCH
2/1/2004		DRY	65	0	65	0.00	80.2	9.08	0.10		
2/2/2004		WET	434	0	434	0.00	641.5	95.87	0.13		
2/3/2004		WET	141	0	141	0.00	255.2	9.46	0.04		
2/4/2004		WET	80	0	80	0.00	93.5	7.50	0.07		
2/5/2004		DRY	72	0	72	0.00	77.7	8.14	0.09		
2/6/2004		DRY	72	0	72	0.00	76.6	7.92	0.09		
2/7/2004		DRY	69	0	69	0.00	72.6	8.18	0.10		
2/8/2004		DRY	69	0	69	0.00	75.1	7.76	0.09		
2/9/2004	DRY	DRY	72	0	72	0.00	76.4	9.06	0.11		
2/10/2004	DRY	DRY	73	0	73	0.00	76.3	11.17	0.13		
2/11/2004		DRY	74	0	74	0.00	79.3	12.91	0.14		
2/12/2004		DRY	72	0	72	0.00	76.4	12.67	0.14		
2/13/2004		DRY	73	0	73	0.00	76.3	12.40	0.14		
2/14/2004		DRY	70	0	70	0.00	74.2	12.14	0.14		
2/15/2004		DRY	69	0	69	0.00	73.4	11.88	0.14		
2/16/2004		DRY	70	0	70	0.00	76.6	12.32	0.14		
2/17/2004		DRY	71	0	71	0.00	78.3	12.44	0.14		
2/18/2004		WET	271	0	271	0.00	401.4	45.89	0.10		
2/19/2004		WET	80	0	80	0.00	95.1	9.20	0.09		
2/20/2004		WET	67	0	67	0.00	135.1	11.78	0.08		
2/21/2004		WET	137	0	137	0.00	317.9	31.05	0.09		
2/22/2004		WET	1510	0	1510	0.00	1978.1	91.31	0.04		
2/23/2004		WET	323	0	323	0.00	458.6	30.26	0.06		
2/24/2004		WET	95	0	95	0.00	97.0	8.03	0.08		
2/25/2004		WET	1360	0	1360	0.00	1897.1	217.56	0.10		
2/26/2004		WET	2780	61	2841	0.02	3711.5	396.03	0.10		
2/27/2004		WET	145	35	180	0.19	192.5	10.65	0.05		
2/28/2004		WET	103	0.29	103.29	0.00	106.7	8.09	0.07		
2/29/2004		DRY	88	0	88	0.00	89.6	10.34	0.10		
3/1/2004		WET	208	0	208	0.00	318.0	32.88	0.09		
3/2/2004		WET	307	0.2	307.2	0.00	444.8	77.73	0.15		
3/3/2004		WET	78	0	78	0.00	90.5	19.31	0.18		
3/4/2004		DRY	77	0	77	0.00	87.6	9.54	0.10		
3/5/2004		DRY	75	0	75	0.00	84.9	8.06	0.09		
3/6/2004		DRY	75	0	75	0.00	84.4	7.74	0.08		
3/7/2004		DRY	74	0	74	0.00	82.9	7.72	0.09		
3/8/2004		DRY	74	0	74	0.00	83.4	8.02	0.09		
3/9/2004		DRY	76	0	76	0.00	84.5	8.14	0.09		
3/10/2004		DRY	75	0	75	0.00	85.4	8.37	0.09		
3/11/2004		DRY	74	0	74	0.00	83.1	8.28	0.09		
3/12/2004		DRY	76	0	76	0.00	84.3	8.35	0.09		

Date	Cu Data Event Type	Event Type	FLOW_ LARS	FLOW_ TUJW	FLOW LARS+TUJW	FlowRatio_ TUJW to TUJW+ LARS	FLOW_ LART	FLOW_ BWCH	FlowRatio_ BWCH to BWCH+ LART	FLOW_ BWRP	FlowRatio_ Above BWRP to BWCH
3/13/2004		DRY	75	0	75	0.00	81.4	8.88	0.10		
3/14/2004		DRY	75	0	75	0.00	80.3	9.64	0.11		
3/15/2004		DRY	78	0	78	0.00	83.2	10.06	0.11		
3/16/2004	DRY	DRY	78	0	78	0.00	82.6	10.01	0.11		
3/17/2004		DRY	79	0	79	0.00	83.7	9.61	0.10		
3/18/2004		DRY	78	0	78	0.00	82.3	9.55	0.10		
3/19/2004		DRY	75	0	75	0.00	80.0	10.04	0.11		
3/20/2004		DRY	75	0	75	0.00	81.3	10.08	0.11		
3/21/2004		DRY	74	0	74	0.00	78.8	10.80	0.12		
3/22/2004		DRY	75	0	75	0.00	80.9	11.26	0.12		
3/23/2004		DRY	77	0	77	0.00	84.5	10.45	0.11		
3/24/2004		DRY	65	0	65	0.00	69.5	9.59	0.12		
3/25/2004		DRY	68	0	68	0.00	72.0	9.50	0.12		
3/26/2004		DRY	75	0	75	0.00	78.5	9.33	0.11		
3/27/2004		DRY	75	0	75	0.00	77.3	9.53	0.11		
3/28/2004		DRY	75	0	75	0.00	78.4	9.27	0.11		
3/29/2004		DRY	77	0	77	0.00	80.6	9.07	0.10		
3/30/2004		DRY	77	0	77	0.00	81.0	9.31	0.10		
3/31/2004		DRY	78	0	78	0.00	82.4	8.24	0.09		
4/1/2004		WET	191	0	191	0.00	284.0	65.65	0.19		
4/2/2004		WET	69	0	69	0.00	69.9	23.62	0.25		
4/3/2004		DRY	64	0	64	0.00	62.1	10.65	0.15		
4/4/2004		DRY	66	0	66	0.00	64.4	8.89	0.12		
4/5/2004		DRY	61	0	61	0.00	62.4	8.05	0.11		
4/6/2004		DRY	67	0	67	0.00	67.0	7.90	0.11		
4/7/2004		DRY	61	0	61	0.00	63.2	7.50	0.11		
4/8/2004		DRY	63	0	63	0.00	64.2	8.47	0.12		
4/9/2004		DRY	62	0	62	0.00	64.3	9.05	0.12		
4/10/2004		DRY	64	0	64	0.00	68.0	9.10	0.12		
4/11/2004		DRY	64	0	64	0.00	65.5	9.28	0.12		
4/12/2004		DRY	62	0	62	0.00	62.4	9.58	0.13		
4/13/2004		DRY	60	0	60	0.00	60.9	9.32	0.13		
4/14/2004		DRY	60	0	60	0.00	60.3	9.05	0.13		
4/15/2004		DRY	60	0	60	0.00	61.9	8.49	0.12		
4/16/2004	DRY	DRY	66	0	66	0.00	73.1	9.05	0.11		
4/17/2004		DRY	62	0	62	0.00	81.8	9.05	0.10		
4/18/2004		DRY	58	0	58	0.00	65.4	8.17	0.11		
4/19/2004		DRY	59	0	59	0.00	64.9	8.85	0.12		
4/20/2004		DRY	59	0	59	0.00	64.5	8.18	0.11		
4/21/2004		DRY	60	0	60	0.00	66.3	7.90	0.11		
4/22/2004		DRY	59	0	59	0.00	64.2	7.61	0.11		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
4/23/2004		DRY	58	0	58	0.00	61.5	7.77	0.11		
4/24/2004		DRY	59	0	59	0.00	63.9	5.36	0.08		
4/25/2004		DRY	58	0	58	0.00	63.0	5.64	0.08		
4/26/2004		DRY	56	0	56	0.00	62.5	6.27	0.09		
4/27/2004		DRY	55	0	55	0.00	65.4	6.32	0.09		
4/28/2004		DRY	54	0	54	0.00	63.0	6.32	0.09		
4/29/2004		DRY	53	0	53	0.00	62.4	6.99	0.10		
4/30/2004		DRY	54	0	54	0.00	62.3	7.11	0.10		
5/1/2004		DRY	54	0	54	0.00	59.7	7.05	0.11		
5/2/2004		DRY	55	0	55	0.00	60.8	6.46	0.10		
5/3/2004		DRY	53	0	53	0.00	64.0	6.50	0.09		
5/4/2004	DRY	DRY	50	0	50	0.00	61.1	7.11	0.10		
5/5/2004		DRY	51	0	51	0.00	61.5	7.11	0.10		
5/6/2004		DRY	49	0	49	0.00	60.5	7.11	0.11		
5/7/2004		DRY	48	0	48	0.00	58.6	7.11	0.11		
5/8/2004		DRY	50	0	50	0.00	60.4	7.11	0.11		
5/9/2004		DRY	53	0	53	0.00	63.0	7.11	0.10		
5/10/2004		DRY	51	0	51	0.00	61.3	7.11	0.10		
5/11/2004		DRY	52	0	52	0.00	62.6	7.11	0.10		
5/12/2004		DRY	53	0	53	0.00	62.7	7.11	0.10		
5/13/2004		DRY	54	0	54	0.00	62.9	6.51	0.09		
5/14/2004		DRY	56	0	56	0.00	66.4	6.32	0.09		
5/15/2004		DRY	52	0.29	52.29	0.01	62.9	6.32	0.09		
5/16/2004		DRY	52	0	52	0.00	62.2	6.32	0.09		
5/17/2004		DRY	52	0	52	0.00	61.4	6.32	0.09		
5/18/2004		DRY	53	0	53	0.00	63.7	6.38	0.09		
5/19/2004		DRY	51	0	51	0.00	63.3	7.11	0.10		
5/20/2004	DRY	DRY	51	0	51	0.00	62.5	7.11	0.10		
5/21/2004		DRY	51	0	51	0.00	61.8	7.11	0.10		
5/22/2004		DRY	52	0	52	0.00	59.9	7.11	0.11		
5/23/2004		DRY	54	0	54	0.00	62.0	7.90	0.11		
5/24/2004		DRY	56	0	56	0.00	61.8	7.90	0.11		
5/25/2004		DRY	57	0	57	0.00	62.2	7.90	0.11		
5/26/2004		DRY	58	0	58	0.00	62.0	7.90	0.11		
5/27/2004		DRY	47	0	47	0.00	50.4	8.00	0.14		
5/28/2004		DRY	58	0	58	0.00	61.7	8.93	0.13		
5/29/2004		DRY	58	0	58	0.00	61.3	9.65	0.14		
5/30/2004		DRY	57	0	57	0.00	59.1	10.24	0.15		
5/31/2004		DRY	58	0	58	0.00	58.9	10.24	0.15		
6/1/2004		DRY	60	0	60	0.00	58.8	10.21	0.15		
6/2/2004		DRY	58	0	58	0.00	57.5	9.83	0.15		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
6/3/2004		DRY	59	0	59	0.00	56.7	9.26	0.14		
6/4/2004		DRY	60	0	60	0.00	57.5	9.05	0.14		
6/5/2004		DRY	61	0	61	0.00	54.5	9.05	0.14		
6/6/2004		DRY	63	0	63	0.00	57.5	9.05	0.14		
6/7/2004		DRY	62	0	62	0.00	59.9	9.05	0.13		
6/8/2004	DRY	DRY	59	0	59	0.00	58.5	9.05	0.13		
6/9/2004		DRY	61	0	61	0.00	57.6	9.05	0.14		
6/10/2004		DRY	61	0	61	0.00	56.3	9.05	0.14		
6/11/2004		DRY	64	0	64	0.00	57.0	9.05	0.14		
6/12/2004		DRY	65	0	65	0.00	59.0	9.05	0.13		
6/13/2004		DRY	64	0	64	0.00	59.1	9.05	0.13		
6/14/2004		DRY	64	0	64	0.00	59.7	9.05	0.13		
6/15/2004		DRY	64	0	64	0.00	59.4	9.23	0.13		
6/16/2004		DRY	66	0	66	0.00	61.2	10.24	0.14		
6/17/2004		DRY	66	0	66	0.00	62.9	10.24	0.14		
6/18/2004		DRY	64	0	64	0.00	60.3	10.24	0.15		
6/19/2004		DRY	66	0	66	0.00	61.5	10.24	0.14		
6/20/2004		DRY	64	0	64	0.00	58.7	10.24	0.15		
6/21/2004		DRY	67	0	67	0.00	60.4	10.24	0.14		
6/22/2004		DRY	69	0	69	0.00	62.5	10.24	0.14		
6/23/2004		DRY	68	0	68	0.00	59.9	10.86	0.15		
6/24/2004		DRY	58	0	58	0.00	52.5	11.48	0.18		
6/25/2004		DRY	67	0	67	0.00	60.6	11.48	0.16		
6/26/2004		DRY	67	0	67	0.00	59.9	11.48	0.16		
6/27/2004		DRY	64	0	64	0.00	58.7	10.89	0.16		
6/28/2004		DRY	60	0	60	0.00	57.5	10.24	0.15		
6/29/2004		DRY	61	0	61	0.00	57.9	10.24	0.15		
6/30/2004		DRY	62	0	62	0.00	58.7	10.24	0.15		
7/1/2004		DRY	64	0	64	0.00	60.6	9.86	0.14		
7/2/2004		DRY	63	0	63	0.00	57.5	9.05	0.14		
7/3/2004		DRY	64	0	64	0.00	58.1	9.05	0.13		
7/4/2004		DRY	63	0	63	0.00	57.5	9.05	0.14		
7/5/2004		DRY	61	0	61	0.00	55.6	8.59	0.13		
7/6/2004	DRY	DRY	65	0.15	65.15	0.00	59.0	7.90	0.12		
7/7/2004		DRY	65	0	65	0.00	59.4	7.90	0.12		
7/8/2004		DRY	64	0	64	0.00	58.3	7.64	0.12		
7/9/2004		DRY	63	0	63	0.00	57.7	7.11	0.11		
7/10/2004		DRY	63	0	63	0.00	57.6	7.11	0.11		
7/11/2004		DRY	57	0	57	0.00	52.9	7.11	0.12		
7/12/2004		DRY	62	0	62	0.00	56.5	7.73	0.12		
7/13/2004		DRY	62	0	62	0.00	57.5	7.90	0.12		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
7/14/2004		DRY	60	0	60	0.00	55.1	7.90	0.13		
7/15/2004		DRY	60	0	60	0.00	55.6	7.90	0.12		
7/16/2004		DRY	62	0	62	0.00	56.4	8.31	0.13		
7/17/2004		DRY	61	0	61	0.00	56.0	8.28	0.13		
7/18/2004		DRY	57	0	57	0.00	52.8	8.07	0.13		
7/19/2004		DRY	59	0	59	0.00	56.6	8.47	0.13		
7/20/2004		DRY	56	0.42	56.42	0.01	57.9	9.05	0.14		
7/21/2004		DRY	52	0	52	0.00	59.4	9.05	0.13		
7/22/2004		DRY	36	0	36	0.00	46.4	8.77	0.16		
7/23/2004		DRY	48	0	48	0.00	59.6	8.50	0.12		
7/24/2004		DRY	52	0	52	0.00	63.2	7.90	0.11		
7/25/2004		DRY	52	0	52	0.00	64.3	7.90	0.11		
7/26/2004		DRY	47	0	47	0.00	59.2	7.63	0.11		
7/27/2004		DRY	50	0	50	0.00	61.7	7.11	0.10		
7/28/2004		DRY	51	0	51	0.00	63.3	7.11	0.10		
7/29/2004		DRY	54	0	54	0.00	65.4	6.48	0.09		
7/30/2004		DRY	54	0	54	0.00	65.0	5.99	0.08		
7/31/2004		DRY	54	0	54	0.00	64.3	5.58	0.08		
8/1/2004		DRY	54	0	54	0.00	65.0	6.34	0.09		
8/2/2004		DRY	54	0	54	0.00	61.6	9.34	0.13		
8/3/2004		DRY	52	0	52	0.00	55.9	9.06	0.14		
8/4/2004	DRY	DRY	52	0	52	0.00	51.6	8.21	0.14		
8/5/2004		DRY	60	0	60	0.00	53.1	7.31	0.12		
8/6/2004		DRY	60	0	60	0.00	51.6	6.37	0.11		
8/7/2004		DRY	61	0	61	0.00	51.4	6.04	0.11		
8/8/2004		DRY	57	0	57	0.00	46.6	5.31	0.10		
8/9/2004		DRY	55	0	55	0.00	45.6	4.50	0.09		
8/10/2004	DRY	DRY	54	0	54	0.00	43.8	7.42	0.14		
8/11/2004		DRY	53	0	53	0.00	41.8	9.50	0.19		
8/12/2004		DRY	57	0	57	0.00	43.0	9.45	0.18		
8/13/2004		DRY	56	0	56	0.00	40.4	9.33	0.19		
8/14/2004		DRY	56	0	56	0.00	38.5	9.65	0.20		
8/15/2004		DRY	59	0	59	0.00	38.9	9.92	0.20		
8/16/2004		DRY	57	0	57	0.00	37.8	12.00	0.24		
8/17/2004		DRY	61	0	61	0.00	40.9	8.68	0.18		
8/18/2004		DRY	62	0	62	0.00	41.8	7.52	0.15		
8/19/2004		DRY	46	0	46	0.00	32.8	7.11	0.18		
8/20/2004		DRY	61	0	61	0.00	42.8	6.72	0.14		
8/21/2004		DRY	60	0	60	0.00	44.2	6.07	0.12		
8/22/2004		DRY	59	0	59	0.00	45.7	5.19	0.10		
8/23/2004		DRY	55	0	55	0.00	46.4	4.11	0.08		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
8/24/2004		DRY	57	0	57	0.00	49.7	3.48	0.07		
8/25/2004		DRY	59	0	59	0.00	49.7	3.81	0.07		
8/26/2004		DRY	53	0	53	0.00	50.6	4.08	0.07		
8/27/2004		DRY	39	0	39	0.00	43.3	3.29	0.07		
8/28/2004		DRY	45	0	45	0.00	50.4	2.82	0.05		
8/29/2004		DRY	47	0	47	0.00	51.7	2.37	0.04		
8/30/2004		DRY	49	0	49	0.00	52.4	2.04	0.04		
8/31/2004		DRY	51	0	51	0.00	54.8	1.58	0.03		
9/1/2004		DRY	55	0	55	0.00	56.8	6.79	0.11		
9/2/2004		DRY	57	0	57	0.00	56.3	12.76	0.18		
9/3/2004		DRY	58	0	58	0.00	57.2	12.76	0.18		
9/4/2004		DRY	59	0	59	0.00	56.5	12.76	0.18		
9/5/2004		DRY	57	0	57	0.00	54.6	13.51	0.20		
9/6/2004		DRY	55	0	55	0.00	53.1	14.26	0.21		
9/7/2004	DRY	DRY	58	0	58	0.00	55.7	15.43	0.22		
9/8/2004		DRY	39	0	39	0.00	42.0	16.69	0.28		
9/9/2004		DRY	51	0	51	0.00	53.9	16.82	0.24		
9/10/2004		DRY	55	0	55	0.00	54.8	17.49	0.24		
9/11/2004		DRY	53	0	53	0.00	54.1	18.25	0.25		
9/12/2004		DRY	54	0	54	0.00	55.3	18.25	0.25		
9/13/2004		DRY	54	0	54	0.00	54.2	18.27	0.25		
9/14/2004		DRY	58	0	58	0.00	57.2	11.10	0.16		
9/15/2004		DRY	59	0	59	0.00	58.0	12.85	0.18		
9/16/2004		DRY	57	0	57	0.00	58.7	16.16	0.22		
9/17/2004		DRY	55	0	55	0.00	56.2	16.56	0.23		
9/18/2004		DRY	54	0	54	0.00	57.0	16.47	0.22		
9/19/2004		DRY	53	0	53	0.00	55.6	16.74	0.23		
9/20/2004		DRY	52	0	52	0.00	54.8	16.57	0.23		
9/21/2004		DRY	49	0	49	0.00	50.1	16.74	0.25		
9/22/2004		DRY	55	0	55	0.00	53.6	16.76	0.24		
9/23/2004		DRY	59	0	59	0.00	56.9	17.98	0.24		
9/24/2004		DRY	59	0	59	0.00	57.9	17.21	0.23		
9/25/2004		DRY	61	0	61	0.00	57.4	16.10	0.22		
9/26/2004		DRY	59	0	59	0.00	54.4	17.14	0.24		
9/27/2004		DRY	63	0	63	0.00	55.4	18.03	0.25		
9/28/2004		DRY	65	0	65	0.00	56.3	17.70	0.24		
9/29/2004		DRY	59	0	59	0.00	55.5	16.77	0.23		
9/30/2004		DRY	55	0	55	0.00	56.6	17.19	0.23		
10/1/2004		DRY	55	0	55	0.00	57.3	16.71	0.23		
10/2/2004		DRY	54	0	54	0.00	55.6	16.73	0.23		
10/3/2004		DRY	54	0	54	0.00	56.4	16.72	0.23		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
10/4/2004		DRY	54	0	54	0.00	56.2	17.04	0.23		
10/5/2004		DRY	56	0	56	0.00	56.5	14.59	0.21		
10/6/2004		DRY	55	0	55	0.00	55.0	15.02	0.21		
10/7/2004		DRY	57	0	57	0.00	57.9	15.53	0.21		
10/8/2004		DRY	49	0	49	0.00	49.6	15.17	0.23		
10/9/2004		DRY	52	0	52	0.00	53.9	15.14	0.22		
10/10/2004		DRY	52	0	52	0.00	50.4	15.55	0.24		
10/11/2004		DRY	55	0	55	0.00	53.5	15.63	0.23		
10/12/2004	DRY	DRY	55	0	55	0.00	54.9	15.58	0.22		
10/13/2004		WET	60	0	60	0.00	63.4	15.61	0.20		
10/14/2004		WET	70	0	70	0.00	78.0	16.14	0.17		
10/15/2004		DRY	71	0	71	0.00	79.1	15.56	0.16		
10/16/2004		DRY	71	0	71	0.00	90.5	17.72	0.16		
10/17/2004		WET	687	0	687	0.00	935.4	70.85	0.07		
10/18/2004		WET	316	0	316	0.00	376.9	50.86	0.12		
10/19/2004		WET	993	0.48	993.48	0.00	1838.7	254.22	0.12		
10/20/2004		WET	2330	75	2405	0.03	2889.1	363.21	0.11		
10/21/2004		WET	116	38	154	0.25	100.1	22.40	0.18		
10/22/2004		DRY	113	9.1	122.1	0.07	95.4	13.60	0.12		
10/23/2004		DRY	94	0	94	0.00	75.1	13.00	0.15		
10/24/2004		DRY	97	0	97	0.00	76.9	13.09	0.15		
10/25/2004		DRY	104	0	104	0.00	82.7	13.15	0.14		
10/26/2004		WET	1700	0.17	1700.17	0.00	2396.8	287.72	0.11		
10/27/2004		WET	1240	11	1251	0.01	1534.0	165.84	0.10		
10/28/2004		WET	141	16	157	0.10	187.3	31.47	0.14		
10/29/2004		WET	101	0.43	101.43	0.00	93.8	14.58	0.13		
10/30/2004		DRY	91	0	91	0.00	81.0	13.29	0.14		
10/31/2004		DRY	90	0	90	0.00	78.4	13.14	0.14		
11/1/2004		DRY	93	0	93	0.00	82.3	12.53	0.13		
11/2/2004	DRY	DRY	93	0	93	0.00	82.1	12.19	0.13		
11/3/2004		DRY	95	0	95	0.00	84.6	12.40	0.13		
11/4/2004		DRY	101	0	101	0.00	88.2	12.34	0.12		
11/5/2004		DRY	103	0	103	0.00	92.7	12.41	0.12		
11/6/2004		DRY	102	0	102	0.00	88.8	13.19	0.13		
11/7/2004		DRY	104	0	104	0.00	93.2	13.66	0.13		
11/8/2004		WET	122	0	122	0.00	129.8	14.76	0.10		
11/9/2004	DRY	DRY	104	0	104	0.00	97.5	13.14	0.12		
11/10/2004		DRY	105	0	105	0.00	98.8	12.92	0.12		
11/11/2004		DRY	104	0	104	0.00	94.3	12.45	0.12		
11/12/2004		DRY	102	0	102	0.00	90.7	13.14	0.13		
11/13/2004		DRY	103	0	103	0.00	89.6	14.20	0.14		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
11/14/2004		DRY	106	0	106	0.00	91.5	14.83	0.14		
11/15/2004		DRY	110	0	110	0.00	92.4	15.55	0.14		
11/16/2004		WET	105	0	105	0.00	34.7	10.52	0.23		
11/17/2004		WET	100	0	100	0.00	177.9	8.39	0.05		
11/18/2004		WET	105	0	105	0.00	307.6	7.90	0.03		
11/19/2004		WET	102	0	102	0.00	305.1	7.65	0.02		
11/20/2004		WET	186	0	186	0.00	401.9	17.97	0.04		
11/21/2004		WET	187	0	187	0.00	520.0	73.55	0.12		
11/22/2004		WET	93	0	93	0.00	290.4	19.05	0.06		
11/23/2004		WET	90	0	90	0.00	172.0	13.57	0.07		
11/24/2004		WET	95	0	95	0.00	99.7	12.86	0.11		
11/25/2004		DRY	83	0	83	0.00	89.9	13.47	0.13		
11/26/2004		DRY	80	0	80	0.00	85.9	13.82	0.14		
11/27/2004		WET	123	0	123	0.00	160.6	16.46	0.09		
11/28/2004		DRY	82	0	82	0.00	111.5	16.36	0.13		
11/29/2004		DRY	81	0	81	0.00	99.6	14.82	0.13		
11/30/2004		DRY	78	0	78	0.00	97.4	15.99	0.14		
12/1/2004		DRY	75	0	75	0.00	94.0	15.74	0.14		
12/2/2004		DRY	71	0	71	0.00	92.0	14.50	0.14		
12/3/2004		DRY	70	0	70	0.00	90.3	13.74	0.13		
12/4/2004		DRY	70	0	70	0.00	87.9	14.78	0.14		
12/5/2004		WET	412	0	412	0.00	592.0	23.88	0.04		
12/6/2004		WET	101	0	101	0.00	104.8	21.03	0.17		
12/7/2004		WET	151	0	151	0.00	136.8	15.11	0.10		
12/8/2004		WET	178	0	178	0.00	206.5	13.79	0.06		
12/9/2004		WET	93	0	93	0.00	85.6	13.27	0.13		
12/10/2004		DRY	89	0	89	0.00	83.6	13.62	0.14		
12/11/2004		DRY	87	0	87	0.00	80.7	13.58	0.14		
12/12/2004		DRY	89	0	89	0.00	82.2	13.57	0.14		
12/13/2004		DRY	96	0	96	0.00	87.4	13.69	0.14		
12/14/2004	DRY	DRY	77	0	77	0.00	73.8	13.80	0.16		
12/15/2004		DRY	88	0	88	0.00	80.4	13.05	0.14		
12/16/2004		DRY	87	0	87	0.00	81.5	12.30	0.13		
12/17/2004		DRY	84	0	84	0.00	78.8	11.61	0.13		
12/18/2004		DRY	84	0	84	0.00	76.8	11.71	0.13		
12/19/2004		DRY	83	0	83	0.00	76.4	11.07	0.13		
12/20/2004		DRY	92	0	92	0.00	82.2	11.43	0.12		
12/21/2004		DRY	93	0	93	0.00	83.1	11.48	0.12		
12/22/2004		DRY	93	0	93	0.00	80.5	11.48	0.12		
12/23/2004		DRY	88	0	88	0.00	74.5	12.29	0.14		
12/24/2004		DRY	95	0	95	0.00	80.8	14.07	0.15		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
12/25/2004		DRY	91	0	91	0.00	76.2	14.07	0.16		
12/26/2004		DRY	93	0	93	0.00	77.1	12.10	0.14		
12/27/2004		WET	804	0	804	0.00	974.8	82.57	0.08		
12/28/2004		WET	7000	26	7026	0.00	8348.4	764.95	0.08		
12/29/2004		WET	2520	646	3166	0.20	4091.0	442.08	0.10		
12/30/2004		WET	201	915	1116	0.82	1031.2	96.63	0.09		
12/31/2004		WET	2000	493	2493	0.20	3071.1	207.45	0.06		
1/1/2005		WET	210	306	516	0.59	512.0	42.90	0.08		
1/2/2005		WET	304	236	540	0.44	757.9	58.36	0.07		
1/3/2005		WET	4430	289	4719	0.06	5462.5	290.06	0.05		
1/4/2005		WET	302	238	540	0.44	619.6	98.99	0.14		
1/5/2005		WET	176	264	440	0.60	496.7	43.12	0.08		
1/6/2005		WET	151	272	423	0.64	529.2	38.86	0.07		
1/7/2005		WET	2750	312	3062	0.10	3940.6	192.23	0.05		
1/8/2005		WET	1910	829	2739	0.30	3447.8	262.11	0.07		
1/9/2005		WET	7790	4460	12250	0.36	14366.6	724.81	0.05		
1/10/2005		WET	4420	8230	12650	0.65	15804.8	467.08	0.03		
1/11/2005	WET	WET	1430	6260	7690	0.81	9057.6	204.49	0.02		
1/12/2005		WET	339	2200	2539	0.87	3560.1	156.58	0.04		
1/13/2005		WET	251	1230	1481	0.83	1833.7	119.15	0.06		
1/14/2005		WET	220	1010	1230	0.82	1309.1	91.89	0.07		
1/15/2005		WET	205	939	1144	0.82	1176.8	79.78	0.06		
1/16/2005		WET	189	878	1067	0.82	1020.8	68.27	0.06		
1/17/2005		WET	183	857	1040	0.82	940.4	58.85	0.06		
1/18/2005	WET	WET	177	478	655	0.73	721.7	43.32	0.06		
1/19/2005		WET	171	249	420	0.59	576.1	36.99	0.06		
1/20/2005		WET	160	167	327	0.51	547.9	36.40	0.06		
1/21/2005		WET	138	186	324	0.57	518.9	34.74	0.06		
1/22/2005		WET	131	232	363	0.64	522.1	29.20	0.05		
1/23/2005		WET	129	216	345	0.63	531.3	26.21	0.05		
1/24/2005		WET	127	128	255	0.50	528.0	25.17	0.05		
1/25/2005		WET	127	1.7	128.7	0.01	491.9	25.17	0.05		
1/26/2005		WET	141	0	141	0.00	456.4	25.17	0.05		
1/27/2005		WET	124	0	124	0.00	416.5	25.17	0.06		
1/28/2005		WET	512	17	529	0.03	804.5	89.51	0.10		
1/29/2005		WET	137	52	189	0.28	457.2	84.88	0.16		
1/30/2005		WET	125	56	181	0.31	266.4	54.08	0.17		
1/31/2005		WET	131	29	160	0.18	204.2	44.02	0.18		
2/1/2005		WET	127	6.5	133.5	0.05	186.6	38.75	0.17		
2/2/2005	DRY	DRY	126	24	150	0.16	174.0	32.20	0.16		
2/3/2005		WET	128	15	143	0.10	164.3	27.44	0.14		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
2/4/2005		WET	119	0	119	0.00	155.8	24.26	0.13		
2/5/2005		WET	126	0	126	0.00	152.7	23.15	0.13		
2/6/2005		WET	132	0	132	0.00	152.3	22.67	0.13		
2/7/2005		WET	124	0	124	0.00	154.8	20.20	0.12		
2/8/2005		WET	126	0	126	0.00	151.8	18.98	0.11		
2/9/2005		WET	132	0	132	0.00	148.7	18.25	0.11		
2/10/2005		WET	136	0	136	0.00	145.0	18.25	0.11		
2/11/2005		WET	3610	0	3610	0.00	4837.0	324.11	0.06		
2/12/2005		WET	380	226	606	0.37	824.7	98.90	0.11		
2/13/2005		WET	163	231	394	0.59	612.1	41.19	0.06		
2/14/2005		WET	154	272	426	0.64	608.1	23.95	0.04		
2/15/2005	DRY	DRY	144	147	291	0.51	594.3	20.00	0.03		
2/16/2005		WET	141	104	245	0.42	583.6	19.71	0.03		
2/17/2005		WET	513	64	577	0.11	1078.2	75.75	0.07		
2/18/2005		WET	3070	522	3592	0.15	4128.2	566.32	0.12		
2/19/2005		WET	3770	2130	5900	0.36	7298.9	554.37	0.07		
2/20/2005		WET	3310	1690	5000	0.34	6856.9	546.12	0.07		
2/21/2005		WET	6680	4360	11040	0.39	12320.3	626.79	0.05		
2/22/2005		WET	2840	3410	6250	0.55	7385.5	302.66	0.04		
2/23/2005		WET	1230	2740	3970	0.69	4841.5	289.34	0.06		
2/24/2005		WET	468	2030	2498	0.81	2703.9	167.12	0.06		
2/25/2005		WET	620	1660	2280	0.73	2428.5	111.18	0.04		
2/26/2005		WET	280	1510	1790	0.84	1817.5	64.52	0.03		
2/27/2005		WET	248	1460	1708	0.85	1684.8	47.61	0.03		
2/28/2005		WET	230	751	981	0.77	1201.5	47.03	0.04		
3/1/2005		WET	192	258	450	0.57	665.5	45.48	0.06		
3/2/2005		WET	180	470	650	0.72	728.4	38.27	0.05		
3/3/2005		WET	236	596	832	0.72	957.7	38.86	0.04		
3/4/2005		WET	457	669	1126	0.59	1332.8	138.88	0.09		
3/5/2005		WET	157	669	826	0.81	954.3	66.39	0.07		
3/6/2005		WET	144	653	797	0.82	897.2	32.74	0.04		
3/7/2005		WET	136	572	708	0.81	809.9	24.37	0.03		
3/8/2005		WET	143	430	573	0.75	632.8	20.90	0.03		
3/9/2005		WET	151	330	481	0.69	562.0	18.68	0.03		
3/10/2005		WET	160	295	455	0.65	552.0	18.25	0.03		
3/11/2005		WET	165	336	501	0.67	570.8	17.13	0.03		
3/12/2005		WET	162	343	505	0.68	567.9	16.82	0.03		
3/13/2005		WET	146	332	478	0.69	567.6	16.82	0.03		
3/14/2005		WET	142	334	476	0.70	567.6	16.82	0.03		
3/15/2005	WET	WET	129	359	488	0.74	567.6	15.94	0.03		
3/16/2005		WET	109	356	465	0.77	567.6	15.43	0.03		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
3/17/2005		WET	128	328	456	0.72	567.6	15.43	0.03		
3/18/2005		WET	165	273	438	0.62	620.9	15.43	0.02		
3/19/2005		WET	208	273	481	0.57	675.4	15.43	0.02		
3/20/2005		WET	127	265	392	0.68	571.3	14.54	0.02		
3/21/2005		WET	117	240	357	0.67	562.1	14.07	0.02		
3/22/2005		DRY	1260	266	1526	0.17	2227.1	203.57	0.08		
3/23/2005		WET	233	353	586	0.60	681.1	104.63	0.13		
3/24/2005		WET	157	331	488	0.68	569.9	65.08	0.10		
3/25/2005		WET	148	279	427	0.65	567.6	44.03	0.07		
3/26/2005		WET	143	277	420	0.66	567.6	28.12	0.05		
3/27/2005		WET	144	287	431	0.67	567.6	25.17	0.04		
3/28/2005		WET	156	132	288	0.46	541.0	24.23	0.04		
3/29/2005		WET	142	36	178	0.20	343.4	23.15	0.06		
3/30/2005		WET	140	46	186	0.25	234.4	22.10	0.09		
3/31/2005		WET	135	44	179	0.25	186.7	21.20	0.10		
4/1/2005		WET	97	41	138	0.30	161.8	19.79	0.11		
4/2/2005		WET	96	44	140	0.31	151.2	19.71	0.12		
4/3/2005		WET	97	45	142	0.32	144.8	19.71	0.12		
4/4/2005		WET	95	50	145	0.34	141.1	18.60	0.12		
4/5/2005		WET	95	49	144	0.34	136.2	18.25	0.12		
4/6/2005		WET	95	47	142	0.33	133.1	18.25	0.12		
4/7/2005		WET	95	47	142	0.33	131.8	17.77	0.12		
4/8/2005		WET	94	47	141	0.33	130.9	16.82	0.11		
4/9/2005		WET	95	48	143	0.34	129.5	16.82	0.11		
4/10/2005		WET	96	48	144	0.33	128.1	16.82	0.12		
4/11/2005		WET	100	47	147	0.32	128.0	15.90	0.11		
4/12/2005		WET	97	47	144	0.33	127.7	15.43	0.11		
4/13/2005		WET	95	45	140	0.32	126.9	15.43	0.11		
4/14/2005		DRY	94	43	137	0.31	115.7	14.45	0.11		
4/15/2005		DRY	94	43	137	0.31	100.9	14.07	0.12		
4/16/2005		DRY	97	49	146	0.34	100.9	14.07	0.12		
4/17/2005		DRY	98	38	136	0.28	100.9	14.07	0.12		
4/18/2005		DRY	95	44	139	0.32	93.7	14.07	0.13		
4/19/2005	DRY	DRY	97	45	142	0.32	109.1	13.02	0.11		
4/20/2005		WET	92	43	135	0.32	188.2	14.23	0.07		
4/21/2005		WET	93	41	134	0.31	230.7	12.81	0.05		
4/22/2005		WET	89	37	126	0.29	209.6	13.10	0.06		
4/23/2005		WET	94	36	130	0.28	183.1	12.88	0.07		
4/24/2005		WET	96	35	131	0.27	171.3	13.24	0.07		
4/25/2005		WET	96	34	130	0.26	158.1	13.16	0.08		
4/26/2005		WET	94	34	128	0.27	144.8	12.71	0.08		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
4/27/2005		WET	89	39	128	0.30	131.2	12.76	0.09		
4/28/2005		WET	946	35	981	0.04	2335.1	183.01	0.07		
4/29/2005		WET	88	34	122	0.28	371.2	12.69	0.03		
4/30/2005		WET	86	33	119	0.28	160.2	12.51	0.07		
5/1/2005		DRY	88	32	120	0.27	130.8	12.29	0.09		
5/2/2005		DRY	88	31	119	0.26	113.1	12.58	0.10		
5/3/2005	DRY	DRY	90	38	128	0.30	102.3	12.94	0.11		
5/4/2005		DRY	89	41	130	0.32	92.7	13.42	0.13		
5/5/2005		DRY	144	41	185	0.22	162.0	26.92	0.14		
5/6/2005		DRY	97	42	139	0.30	160.4	13.06	0.08		
5/7/2005		DRY	83	45	128	0.35	78.8	12.64	0.14		
5/8/2005		DRY	82	45	127	0.35	67.7	12.73	0.16		
5/9/2005		DRY	151	46	197	0.23	109.8	14.08	0.11		
5/10/2005		DRY	81	58	139	0.42	84.0	12.95	0.13		
5/11/2005		DRY	79	67	146	0.46	55.1	13.46	0.20		
5/12/2005		DRY	54	68	122	0.56	42.8	13.03	0.23		
5/13/2005		DRY	74	68	142	0.48	38.4	11.86	0.24		
5/14/2005		DRY	76	69	145	0.48	40.1	12.05	0.23		
5/15/2005		DRY	75	69	144	0.48	41.9	11.87	0.22		
5/16/2005		DRY	76	71	147	0.48	42.7	12.41	0.23		
5/17/2005	DRY	DRY	75	83	158	0.53	46.5	12.39	0.21		
5/18/2005		DRY	73	66	139	0.47	48.2	12.44	0.21		
5/19/2005		DRY	71	62	133	0.47	48.8	11.92	0.20		
5/20/2005		DRY	68	62	130	0.48	48.3	13.32	0.22		
5/21/2005		DRY	70	73	143	0.51	47.9	11.84	0.20		
5/22/2005		DRY	68	85	153	0.56	47.5	12.31	0.21		
5/23/2005		DRY	72	89	161	0.55	47.4	13.83	0.23		
5/24/2005		DRY	68	101	169	0.60	47.0	13.72	0.23		
5/25/2005		DRY	72	114	186	0.61	47.1	13.94	0.23		
5/26/2005		DRY	51	116	167	0.69	41.5	14.04	0.25		
5/27/2005		DRY	66	120	186	0.65	43.0	14.35	0.25		
5/28/2005		DRY	69	120	189	0.63	46.4	14.29	0.24		
5/29/2005		DRY	73	120	193	0.62	50.5	15.28	0.23		
5/30/2005		DRY	73	122	195	0.63	54.2	15.26	0.22		
5/31/2005		DRY	74	105	179	0.59	58.8	15.76	0.21		
6/1/2005		DRY	75	90	165	0.55	64.1	17.88	0.22		
6/2/2005		DRY	75	127	202	0.63	66.8	19.17	0.22		
6/3/2005		DRY	73	132	205	0.64	70.1	18.44	0.21		
6/4/2005		DRY	78	126	204	0.62	72.9	19.09	0.21		
6/5/2005		DRY	80	120	200	0.60	76.4	17.78	0.19		
6/6/2005		DRY	84	113	197	0.57	106.8	19.84	0.16		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
6/7/2005	DRY	DRY	80	92	172	0.53	149.2	19.98	0.12		
6/8/2005		DRY	87	80	167	0.48	149.7	20.17	0.12		
6/9/2005		DRY	94	59	153	0.39	145.6	20.86	0.13		
6/10/2005		DRY	93	59	152	0.39	142.1	20.25	0.12		
6/11/2005		DRY	98	59	157	0.38	138.1	21.78	0.14		
6/12/2005		DRY	94	59	153	0.39	132.9	24.68	0.16		
6/13/2005		DRY	101	59	160	0.37	129.1	24.76	0.16		
6/14/2005		DRY	105	58	163	0.36	126.9	32.66	0.20		
6/15/2005		DRY	117	82	199	0.41	124.7	31.78	0.20		
6/16/2005		DRY	172	68	240	0.28	174.4	30.69	0.15		
6/17/2005		DRY	86	83	169	0.49	174.2	31.40	0.15		
6/18/2005		DRY	81	103	184	0.56	133.9	31.63	0.19		
6/19/2005		DRY	83	103	186	0.55	120.3	32.60	0.21		
6/20/2005		DRY	83	100	183	0.55	112.6	32.79	0.23		
6/21/2005		DRY	80	100	180	0.56	107.8	35.50	0.25		
6/22/2005		DRY	91	97	188	0.52	107.0	37.22	0.26		
6/23/2005		DRY	78	95	173	0.55	114.8	36.81	0.24		
6/24/2005		DRY	76	93	169	0.55	111.7	33.38	0.23		
6/25/2005		DRY	76	91	167	0.54	107.0	33.38	0.24		
6/26/2005		DRY	80	90	170	0.53	104.1	34.91	0.25		
6/27/2005		DRY	79	84	163	0.52	101.0	33.32	0.25		
6/28/2005		DRY	79	58	137	0.42	98.0	32.40	0.25		
6/29/2005		DRY	79	50	129	0.39	95.0	31.29	0.25		
6/30/2005		DRY	84	44	128	0.34	92.7	34.64	0.27		
7/1/2005		DRY	84	41	125	0.33	90.9	39.11	0.30		
7/2/2005		DRY	86	33	119	0.28	90.8	34.49	0.28		
7/3/2005		DRY	88	24	112	0.21	90.2	34.82	0.28		
7/4/2005		DRY	93	21	114	0.18	90.1	31.31	0.26		
7/5/2005		DRY	91	19	110	0.17	90.0	28.56	0.24		
7/6/2005		DRY	92	21	113	0.19	89.7	28.55	0.24		
7/7/2005		DRY	67	30	97	0.31	76.5	29.61	0.28		
7/8/2005		DRY	90	34	124	0.27	71.7	28.48	0.28		
7/9/2005		DRY	93	36	129	0.28	73.1	28.01	0.28		
7/10/2005		DRY	97	37	134	0.28	74.1	29.79	0.29		
7/11/2005		DRY	102	11	113	0.10	75.7	29.33	0.28		
7/12/2005	DRY	DRY	99	0	99	0.00	79.3	19.60	0.20		
7/13/2005		DRY	102	0	102	0.00	81.1	17.39	0.18		
7/14/2005		DRY	80	0	80	0.00	72.4	17.28	0.19		
7/15/2005		DRY	101	0	101	0.00	71.2	17.04	0.19		
7/16/2005		DRY	103	0	103	0.00	72.7	18.31	0.20		
7/17/2005		DRY	105	0	105	0.00	73.8	18.30	0.20		

Date	Cu Data Event Type	Event Type	FLOW_ LARS	FLOW_ TUJW	FLOW LARS+TUJW	FlowRatio_ TUJW to TUJW+ LARS	FLOW_ LART	FLOW_ BWCH	FlowRatio_ BWCH to BWCH+ LART	FLOW_ BWRP	FlowRatio_ Above BWRP to BWCH
7/18/2005		DRY	106	0	106	0.00	66.0	16.75	0.20		
7/19/2005		DRY	105	0	105	0.00	60.4	15.71	0.21		
7/20/2005		DRY	100	0	100	0.00	60.9	14.49	0.19		
7/21/2005		DRY	96	0	96	0.00	60.9	16.20	0.21		
7/22/2005		DRY	92	0	92	0.00	60.8	16.12	0.21		
7/23/2005		DRY	95	0	95	0.00	60.7	16.47	0.21		
7/24/2005		DRY	93	0	93	0.00	62.1	15.48	0.20		
7/25/2005		DRY	92	0	92	0.00	62.1	13.86	0.18		
7/26/2005		DRY	88	0	88	0.00	62.2	15.30	0.20		
7/27/2005		DRY	90	0	90	0.00	62.4	14.37	0.19		
7/28/2005		DRY	88	0	88	0.00	62.2	13.76	0.18		
7/29/2005		DRY	81	0	81	0.00	62.1	13.94	0.18		
7/30/2005		DRY	80	0	80	0.00	62.1	13.44	0.18		
7/31/2005		DRY	80	0	80	0.00	62.5	18.64	0.23		
8/1/2005		DRY	78	0	78	0.00	62.1	23.35	0.27		
8/2/2005	DRY	DRY	75	0	75	0.00	61.7	17.44	0.22		
8/3/2005		DRY	59	0	59	0.00	57.9	17.40	0.23		
8/4/2005		DRY	80	0	80	0.00	85.2	16.76	0.16		
8/5/2005		DRY	79	0	79	0.00	86.2	13.63	0.14		
8/6/2005		DRY	83	0	83	0.00	86.8	16.29	0.16		
8/7/2005		DRY	81	0	81	0.00	87.4	17.58	0.17		
8/8/2005		DRY	79	0	79	0.00	84.2	17.60	0.17		
8/9/2005	DRY	DRY	87	0	87	0.00	86.4	17.70	0.17		
8/10/2005		DRY	79	0	79	0.00	86.7	17.96	0.17		
8/11/2005		DRY	78	0	78	0.00	84.9	18.02	0.18		
8/12/2005		DRY	79	0	79	0.00	84.9	19.83	0.19		
8/13/2005		DRY	79	0	79	0.00	84.7	19.32	0.19		
8/14/2005		DRY	80	0	80	0.00	85.1	15.28	0.15		
8/15/2005		DRY	92	0	92	0.00	108.1	17.34	0.14		
8/16/2005		DRY	77	0	77	0.00	82.2	15.73	0.16		
8/17/2005		DRY	76	0	76	0.00	79.1	15.46	0.16		
8/18/2005		DRY	70	0	70	0.00	75.0	15.84	0.17		
8/19/2005		DRY	65	0	65	0.00	68.9	16.74	0.20		
8/20/2005		DRY	71	0	71	0.00	75.6	17.29	0.19		
8/21/2005		DRY	72	0	72	0.00	80.2	17.80	0.18		
8/22/2005		DRY	72	0	72	0.00	79.0	18.36	0.19		
8/23/2005		DRY	76	0	76	0.00	85.0	17.66	0.17		
8/24/2005		DRY	72	0	72	0.00	83.5	18.26	0.18		
8/25/2005		DRY	69	0	69	0.00	83.8	16.87	0.17		
8/26/2005		DRY	69	0	69	0.00	81.0	16.07	0.17		
8/27/2005		DRY	71	0	71	0.00	81.6	16.43	0.17		

Date	Cu Data Event Type	Event Type	FLOW_ LARS	FLOW_ TUJW	FLOW LARS+TUJW	FlowRatio_ TUJW to TUJW+ LARS	FLOW_ LART	FLOW_ BWCH	FlowRatio_ BWCH to BWCH+ LART	FLOW_ BWRP	FlowRatio_ Above BWRP to BWCH
8/28/2005		DRY	70	0	70	0.00	82.6	17.04	0.17		
8/29/2005		DRY	74	0	74	0.00	83.3	17.66	0.17		
8/30/2005		DRY	73	0	73	0.00	84.0	18.35	0.18		
8/31/2005		DRY	66	0	66	0.00	83.1	18.21	0.18		
9/1/2005		DRY	70	0	70	0.00	83.1	18.47	0.18		
9/2/2005		DRY	68	0	68	0.00	82.9	16.61	0.17		
9/3/2005		DRY	65	0	65	0.00	82.7	16.25	0.16		
9/4/2005		DRY	65	0	65	0.00	82.5	15.74	0.16		
9/5/2005		DRY	73	0	73	0.00	82.7	16.38	0.17		
9/6/2005		DRY	71	0	71	0.00	82.7	17.56	0.18		
9/7/2005		DRY	69	0	69	0.00	82.7	18.33	0.18		
9/8/2005		DRY	72	0	72	0.00	82.4	18.02	0.18		
9/9/2005		DRY	74	0	74	0.00	82.6	18.39	0.18		
9/10/2005		DRY	73	0	73	0.00	81.9	20.05	0.20		
9/11/2005		DRY	75	0	75	0.00	81.7	20.72	0.20		
9/12/2005		DRY	77	0	77	0.00	81.8	18.08	0.18		
9/13/2005	DRY	DRY	74	0	74	0.00	81.9	19.09	0.19		
9/14/2005		DRY	69	0	69	0.00	81.0	18.69	0.19		
9/15/2005		DRY	69	0	69	0.00	80.4	19.36	0.19		
9/16/2005		DRY	69	0	69	0.00	80.6	21.10	0.21		
9/17/2005		DRY	65	0	65	0.00	79.7	20.02	0.20		
9/18/2005		DRY	68	0	68	0.00	80.0	20.16	0.20		
9/19/2005		DRY	68	0	68	0.00	79.7	20.47	0.20		
9/20/2005		DRY	108	0.45	108.45	0.00	277.0	33.64	0.11		
9/21/2005		DRY	79	0	79	0.00	79.4	15.07	0.16		
9/22/2005		DRY	73	0	73	0.00	71.3	14.08	0.16		
9/23/2005		DRY	73	0	73	0.00	72.6	13.55	0.16		
9/24/2005		DRY	72	0	72	0.00	69.7	14.09	0.17		
9/25/2005		DRY	74	0	74	0.00	68.9	12.98	0.16		
9/26/2005		DRY	80	0	80	0.00	74.5	14.22	0.16		
9/27/2005		DRY	72	0	72	0.00	68.6	12.92	0.16		
9/28/2005		DRY	71	0	71	0.00	60.9	13.38	0.18		
9/29/2005		DRY	67	0	67	0.00	61.6	13.22	0.18		
9/30/2005		DRY	71	0	71	0.00	62.9	13.21	0.17		
10/1/2005		DRY	74	0	74	0.00	65.0	13.21	0.17		
10/2/2005		DRY	72	0	72	0.00	66.4	14.14	0.18		
10/3/2005		DRY	75	0	75	0.00	67.5	13.56	0.17		
10/4/2005		DRY	64	0	64	0.00	67.9	13.26	0.16		
10/5/2005		DRY	67	0	67	0.00	59.2	12.52	0.17		
10/6/2005		DRY	74	0	74	0.00	61.4	12.72	0.17		
10/7/2005		DRY	75	0	75	0.00	63.8	12.66	0.17		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
10/8/2005		DRY	77	0	77	0.00	65.1	13.64	0.17		
10/9/2005		DRY	81	0	81	0.00	66.8	13.76	0.17		
10/10/2005		DRY	85	0	85	0.00	68.6	12.94	0.16		
10/11/2005	DRY	DRY	81	0	81	0.00	69.7	13.62	0.16		
10/12/2005		DRY	82	0	82	0.00	70.3	13.74	0.16		
10/13/2005		DRY	81	0	81	0.00	71.5	13.45	0.16		
10/14/2005		DRY	79	0	79	0.00	71.8	14.22	0.17		
10/15/2005		DRY	81	0	81	0.00	72.3	13.57	0.16		
10/16/2005		DRY	73	0	73	0.00	71.4	14.36	0.17		
10/17/2005		WET	958	0	958	0.00	1481.6	237.00	0.14		
10/18/2005		DRY	593	0.72	593.72	0.00	820.0	47.43	0.05		
10/19/2005		WET	83	0	83	0.00	88.3	12.31	0.12		
10/20/2005		DRY	88	0	88	0.00	82.7	11.10	0.12		
10/21/2005		DRY	85	0	85	0.00	76.8	11.19	0.13		
10/22/2005		DRY	87	0	87	0.00	74.5	12.04	0.14		
10/23/2005		DRY	84	0	84	0.00	72.2	12.32	0.15		
10/24/2005		DRY	86	0	86	0.00	69.9	12.97	0.16		
10/25/2005		WET	105	0	105	0.00	87.6	12.18	0.12		
10/26/2005		DRY	89	0	89	0.00	76.3	11.78	0.13		
10/27/2005		DRY	89	0	89	0.00	75.8	10.99	0.13		
10/28/2005		DRY	88	0	88	0.00	77.1	11.09	0.13		
10/29/2005		DRY	87	0	87	0.00	76.2	11.45	0.13		
10/30/2005		DRY	83	0	83	0.00	74.9	11.26	0.13		
10/31/2005		DRY	85	0	85	0.00	72.8	11.43	0.14		
11/1/2005	DRY	DRY	97	0	97	0.00	73.7	12.22	0.14		
11/2/2005		DRY	81	0	81	0.00	77.3	12.76	0.14		
11/3/2005		DRY	102	0	102	0.00	76.4	13.04	0.15		
11/4/2005		DRY	110	0	110	0.00	82.3	13.49	0.14		
11/5/2005		DRY	112	0	112	0.00	87.8	12.53	0.12		
11/6/2005		DRY	110	0	110	0.00	91.9	13.97	0.13		
11/7/2005		DRY	114	0	114	0.00	94.2	14.63	0.13		
11/8/2005	DRY	DRY	114	0	114	0.00	97.4	15.33	0.14		
11/9/2005		WET	318	0	318	0.00	235.5	25.45	0.10		
11/10/2005		WET	200	0	200	0.00	394.0	14.68	0.04		
11/11/2005		WET	107	0	107	0.00	112.8	13.35	0.11		
11/12/2005		DRY	98	0	98	0.00	87.8	16.35	0.16		
11/13/2005		DRY	96	0	96	0.00	85.7	17.57	0.17		
11/14/2005		DRY	99	0	99	0.00	87.1	17.57	0.17		
11/15/2005		DRY	98	2.7	100.7	0.03	91.7	17.93	0.16		
11/16/2005		DRY	99	0	99	0.00	90.6	17.24	0.16		
11/17/2005		DRY	98	0	98	0.00	91.7	15.43	0.14		

Date	Cu Data Event Type	Event Type	FLOW_ LARS	FLOW_ TUJW	FLOW LARS+TUJW	FlowRatio_ TUJW to TUJW+ LARS	FLOW_ LART	FLOW_ BWCH	FlowRatio_ BWCH to BWCH+ LART	FLOW_ BWRP	FlowRatio_ Above BWRP to BWCH
11/18/2005		DRY	98	0	98	0.00	88.2	18.78	0.18		
11/19/2005		DRY	99	0	99	0.00	86.6	17.88	0.17		
11/20/2005		DRY	98	0	98	0.00	86.9	21.63	0.20		
11/21/2005		DRY	101	0	101	0.00	87.3	21.30	0.20		
11/22/2005		DRY	102	0	102	0.00	90.2	21.34	0.19		
11/23/2005		DRY	105	0	105	0.00	92.6	21.72	0.19		
11/24/2005		DRY	103	0	103	0.00	92.1	21.60	0.19		
11/25/2005		DRY	101	0	101	0.00	90.1	22.53	0.20		
11/26/2005		DRY	99	0	99	0.00	85.9	21.78	0.20		
11/27/2005		DRY	96	0	96	0.00	84.8	20.59	0.20		
11/28/2005		DRY	104	0	104	0.00	85.4	18.01	0.17		
11/29/2005		DRY	106	0	106	0.00	89.6	17.22	0.16		
11/30/2005		DRY	113	0	113	0.00	93.6	19.03	0.17		
12/1/2005		DRY	106	0	106	0.00	95.1	19.76	0.17		
12/2/2005		DRY	131	0	131	0.00	95.0	22.19	0.19		
12/3/2005		DRY	111	0	111	0.00	104.0	20.55	0.17		
12/4/2005		DRY	106	0	106	0.00	98.9	19.94	0.17		
12/5/2005		DRY	96	0	96	0.00	89.3	15.99	0.15		
12/6/2005		DRY	92	0	92	0.00	83.2	17.83	0.18		
12/7/2005		DRY	99	0	99	0.00	86.8	18.96	0.18		
12/8/2005		DRY	99	0	99	0.00	91.9	18.92	0.17		
12/9/2005		DRY	100	0	100	0.00	95.4	18.53	0.16		
12/10/2005		DRY	97	0	97	0.00	89.8	16.94	0.16		
12/11/2005		DRY	95	0	95	0.00	88.2	15.98	0.15		
12/12/2005		DRY	103	0	103	0.00	89.9	16.25	0.15		
12/13/2005		DRY	103	4.9	107.9	0.05	90.3	15.80	0.15		
12/14/2005	DRY	DRY	104	12	116	0.10	91.2	15.90	0.15		
12/15/2005		DRY	103	12	115	0.10	90.7	16.34	0.15		
12/16/2005		DRY	107	12	119	0.10	91.3	16.74	0.15		
12/17/2005		DRY	102	12	114	0.11	90.8	16.13	0.15		
12/18/2005		DRY	100	12	112	0.11	89.5	16.23	0.15		
12/19/2005		DRY	112	12	124	0.10	87.7	16.34	0.16		
12/20/2005		DRY	102	12	114	0.11	88.0	16.42	0.16		
12/21/2005		DRY	112	12	124	0.10	89.8	17.16	0.16		
12/22/2005		DRY	107	12	119	0.10	92.4	19.43	0.17		
12/23/2005		DRY	108	12	120	0.10	90.0	19.46	0.18		
12/24/2005		DRY	104	12	116	0.10	88.9	19.37	0.18		
12/25/2005		DRY	100	10	110	0.09	86.2	18.70	0.18		
12/26/2005		DRY	178	11	189	0.06	96.8	18.54	0.16		
12/27/2005		DRY	105	12	117	0.10	94.1	21.25	0.18		
12/28/2005		DRY	106	4.1	110.1	0.04	88.7	19.94	0.18		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
12/29/2005		DRY	108	0	108	0.00	87.8	18.84	0.18		
12/30/2005		DRY	105	0	105	0.00	85.2	19.13	0.18		
12/31/2005		WET	720	0	720	0.00	234.3	89.55	0.28		
1/1/2006		WET	603	0	603	0.00	314.4	53.61	0.15		
1/2/2006		WET	3000	52	3052	0.02	3536.1	478.49	0.12		
1/3/2006		WET	152	49	201	0.24	451.6	16.98	0.04		
1/4/2006		WET	108	39	147	0.27	162.5	13.03	0.07		
1/5/2006		WET	99	53	152	0.35	131.0	12.92	0.09		
1/6/2006		DRY	97	36	133	0.27	124.8	12.93	0.09		
1/7/2006		DRY	93	0	93	0.00	118.8	11.94	0.09		
1/8/2006		DRY	92	0	92	0.00	115.1	12.72	0.10		
1/9/2006		DRY	94	0	94	0.00	114.1	12.47	0.10		
1/10/2006		DRY	95	0	95	0.00	116.8	12.63	0.10		
1/11/2006		DRY	97	0	97	0.00	116.0	12.94	0.10		
1/12/2006		DRY	99	0	99	0.00	119.7	13.70	0.10		
1/13/2006		DRY	98	0	98	0.00	117.1	14.10	0.11		
1/14/2006		WET	172	0	172	0.00	460.9	36.47	0.07		
1/15/2006		WET	93	0	93	0.00	133.1	13.16	0.09		
1/16/2006		DRY	91	0	91	0.00	113.3	14.11	0.11		
1/17/2006	DRY	DRY	92	0	92	0.00	115.2	14.35	0.11		
1/18/2006		DRY	102	0	102	0.00	110.8	15.12	0.12		
1/19/2006		DRY	104	0	104	0.00	123.2	15.08	0.11		
1/20/2006		DRY	100	0	100	0.00	123.1	14.98	0.11		
1/21/2006		WET	105	0	105	0.00	125.6	15.48	0.11		
1/22/2006		DRY	99	0	99	0.00	122.9	15.84	0.11		
1/23/2006		DRY	101	0	101	0.00	119.9	10.73	0.08		
1/24/2006		DRY	102	0	102	0.00	121.0	9.52	0.07		
1/25/2006		DRY	104	0	104	0.00	122.9	10.81	0.08		
1/26/2006		WET	107	0	107	0.00	125.8	12.37	0.09		
1/27/2006		WET	107	0	107	0.00	127.9	11.18	0.08		
1/28/2006		DRY	101	0	101	0.00	122.9	11.11	0.08		
1/29/2006		DRY	103	0	103	0.00	121.8	10.60	0.08		
1/30/2006		DRY	110	0	110	0.00	124.0	10.29	0.08		
1/31/2006		WET	109	12	121	0.10	126.4	12.10	0.09		
2/1/2006		DRY	110	18	128	0.14	121.3	16.76	0.12		
2/2/2006		DRY	105	17	122	0.14	119.4	22.28	0.16		
2/3/2006		DRY	106	16	122	0.13	116.0	26.96	0.19		
2/4/2006		DRY	104	12	116	0.10	115.8	25.50	0.18		
2/5/2006		DRY	106	9.7	115.7	0.08	117.3	17.72	0.13		
2/6/2006		DRY	113	8	121	0.07	120.2	15.82	0.12		
2/7/2006		DRY	112	8	120	0.07	119.1	17.92	0.13		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
2/8/2006	DRY	DRY	112	8	120	0.07	118.1	16.37	0.12		
2/9/2006		DRY	111	8	119	0.07	115.9	16.65	0.13		
2/10/2006		DRY	114	8	122	0.07	115.7	17.10	0.13		
2/11/2006		DRY	111	8	119	0.07	115.8	17.96	0.13		
2/12/2006		DRY	111	8.8	119.8	0.07	116.1	17.25	0.13		
2/13/2006		DRY	117	9.7	126.7	0.08	117.4	17.48	0.13		
2/14/2006	DRY	DRY	114	10	124	0.08	105.2	19.44	0.16		
2/15/2006		DRY	119	12	131	0.09	106.5	19.96	0.16		
2/16/2006		DRY	115	13	128	0.10	109.8	20.35	0.16		
2/17/2006		DRY	206	18	224	0.08	114.5	38.44	0.25		
2/18/2006		WET	175	25	200	0.13	144.8	21.27	0.13		
2/19/2006		WET	278	26	304	0.09	188.3	29.71	0.14		
2/20/2006		WET	99	24	123	0.20	135.7	15.50	0.10		
2/21/2006		DRY	97	20	117	0.17	123.3	17.21	0.12		
2/22/2006		DRY	94	18	112	0.16	120.4	19.42	0.14		
2/23/2006		DRY	95	16	111	0.14	118.1	20.17	0.15		
2/24/2006		DRY	94	18	112	0.16	116.6	20.93	0.15		
2/25/2006		DRY	94	46	140	0.33	115.5	21.24	0.16		
2/26/2006		DRY	96	53	149	0.36	117.2	21.03	0.15		
2/27/2006		WET	1950	34	1984	0.02	2212.9	316.90	0.13		
2/28/2006		WET	1360	39	1399	0.03	2564.3	193.80	0.07		
3/1/2006		WET	136	89	225	0.40	452.1	17.94	0.04		
3/2/2006		WET	113	70	183	0.38	161.9	17.10	0.10		
3/3/2006		WET	571	56	627	0.09	1220.0	127.31	0.09		
3/4/2006		WET	117	64	181	0.35	156.9	15.19	0.09		
3/5/2006		DRY	106	57	163	0.35	113.7	14.51	0.11		
3/6/2006		WET	212	45	257	0.18	297.9	21.30	0.07		
3/7/2006		WET	148	55	203	0.27	344.7	13.71	0.04		
3/8/2006		WET	106	51	157	0.32	128.9	14.55	0.10		
3/9/2006		DRY	109	53	162	0.33	109.4	14.62	0.12		
3/10/2006		DRY	109	44	153	0.29	104.7	22.93	0.18		
3/11/2006		WET	232	39	271	0.14	581.4	32.67	0.05		
3/12/2006		WET	108	50	158	0.32	140.7	15.87	0.10		
3/13/2006		DRY	110	43	153	0.28	112.5	15.06	0.12		
3/14/2006		DRY	108	41	149	0.28	107.4	13.44	0.11		
3/15/2006		DRY	108	41	149	0.28	105.6	15.16	0.13		
3/16/2006		DRY	107	41	148	0.28	104.2	15.37	0.13		
3/17/2006		DRY	132	41	173	0.24	103.4	16.40	0.14		
3/18/2006		DRY	110	41	151	0.27	110.5	28.12	0.20		
3/19/2006		DRY	110	42	152	0.28	111.0	16.14	0.13		
3/20/2006		WET	269	37	306	0.12	339.1	66.07	0.16		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
3/21/2006	WET	WET	177	7.1	184.1	0.04	529.3	21.08	0.04		
3/22/2006		WET	104	0	104	0.00	119.5	16.62	0.12		
3/23/2006		DRY	101	0	101	0.00	103.5	15.47	0.13		
3/24/2006		DRY	78	0	78	0.00	79.2	15.41	0.16		
3/25/2006		DRY	96	0	96	0.00	79.1	15.60	0.16		
3/26/2006		DRY	96	0	96	0.00	84.5	15.79	0.16		
3/27/2006		DRY	98	0	98	0.00	88.5	16.23	0.15		
3/28/2006		WET	2120	1.3	2121.3	0.00	2686.2	271.03	0.09		
3/29/2006		WET	440	61	501	0.12	936.0	100.51	0.10		
3/30/2006		WET	119	52	171	0.30	192.2	17.02	0.08		
3/31/2006		WET	109	49	158	0.31	120.1	16.45	0.12		
4/1/2006		WET	635	36	671	0.05	1077.6	39.48	0.04		
4/2/2006		WET	113	30	143	0.21	185.9	15.99	0.08		
4/3/2006		WET	131	29	160	0.18	128.9	19.65	0.13		
4/4/2006		WET	2010	12	2022	0.01	2705.7	284.75	0.10		
4/5/2006		WET	847	453	1300	0.35	1685.9	61.63	0.04		
4/6/2006		WET	142	468	610	0.77	747.9	17.55	0.02		
4/7/2006		WET	126	214	340	0.63	517.7	16.12	0.03		
4/8/2006		WET	86	110	196	0.56	269.2	16.47	0.06		
4/9/2006		WET	81	80	161	0.50	139.3	17.26	0.11		
4/10/2006		WET	88	65	153	0.42	133.8	18.52	0.12		
4/11/2006		WET	84	48	132	0.36	126.5	19.60	0.13		
4/12/2006		DRY	84	51	135	0.38	113.1	18.15	0.14		
4/13/2006		DRY	85	53	138	0.38	101.2	19.10	0.16		
4/14/2006		WET	217	50	267	0.19	427.2	45.37	0.10		
4/15/2006		WET	89	51	140	0.36	208.6	19.00	0.08		
4/16/2006		WET	79	51	130	0.39	111.9	18.02	0.14		
4/17/2006		DRY	78	51	129	0.40	98.9	18.87	0.16		
4/18/2006		DRY	79	52	131	0.40	92.3	17.06	0.16		
4/19/2006		DRY	71	52	123	0.42	84.0	18.11	0.18		
4/20/2006		DRY	76	52	128	0.41	80.3	17.40	0.18		
4/21/2006		DRY	81	54	135	0.40	79.7	17.94	0.18		
4/22/2006		DRY	82	54	136	0.40	80.0	18.22	0.19		
4/23/2006		DRY	77	53	130	0.41	80.3	19.06	0.19		
4/24/2006		DRY	78	53	131	0.40	79.7	19.67	0.20		
4/25/2006	DRY	DRY	77	55	132	0.42	77.1	20.25	0.21		
4/26/2006		DRY	77	72	149	0.48	75.1	20.10	0.21		
4/27/2006		DRY	71	77	148	0.52	73.7	19.96	0.21		
4/28/2006		DRY	78	78	156	0.50	72.8	19.74	0.21		
4/29/2006		DRY	79	78	157	0.50	72.8	19.83	0.21		
4/30/2006		DRY	79	79	158	0.50	72.8	19.25	0.21		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
5/1/2006		DRY	83	80	163	0.49	70.1	20.44	0.23		
5/2/2006	DRY	DRY	79	77	156	0.49	69.6	21.25	0.23		
5/3/2006		DRY	78	73	151	0.48	69.6	21.13	0.23		
5/4/2006		DRY	81	47	128	0.37	69.2	21.92	0.24		
5/5/2006		DRY	80	0	80	0.00	69.0	19.51	0.22		
5/6/2006		DRY	79	0	79	0.00	69.0	20.27	0.23		
5/7/2006		DRY	82	0	82	0.00	69.0	20.10	0.23		
5/8/2006		DRY	83	0	83	0.00	69.0	21.03	0.23		
5/9/2006		DRY	82	0	82	0.00	69.0	21.45	0.24		
5/10/2006		DRY	80	0	80	0.00	68.2	21.65	0.24		
5/11/2006		DRY	84	0	84	0.00	67.7	22.02	0.25		
5/12/2006		DRY	83	0	83	0.00	67.7	21.92	0.24		
5/13/2006		DRY	83	0	83	0.00	67.7	21.63	0.24		
5/14/2006		DRY	94	0	94	0.00	78.1	22.34	0.22		
5/15/2006		DRY	87	0	87	0.00	74.0	23.15	0.24		
5/16/2006	DRY	DRY	97	0	97	0.00	68.1	23.25	0.25		
5/17/2006		DRY	93	0	93	0.00	68.3	20.77	0.23		
5/18/2006		DRY	95	0	95	0.00	68.9	19.61	0.22		
5/19/2006		DRY	90	0	90	0.00	68.5	19.96	0.23		
5/20/2006		DRY	96	0	96	0.00	68.3	18.79	0.22		
5/21/2006		DRY	99	0	99	0.00	68.9	28.14	0.29		
5/22/2006		DRY	887	0	887	0.00	1129.6	89.00	0.07		
5/23/2006		WET	94	0	94	0.00	103.9	17.88	0.15		
5/24/2006		DRY	81	0	81	0.00	61.7	17.48	0.22		
5/25/2006		DRY	82	0	82	0.00	55.0	16.65	0.23		
5/26/2006		DRY	81	0	81	0.00	50.8	17.10	0.25		
5/27/2006		DRY	81	0	81	0.00	48.9	17.15	0.26		
5/28/2006		DRY	77	0	77	0.00	46.9	17.00	0.27		
5/29/2006		DRY	77	0	77	0.00	45.2	16.85	0.27		
5/30/2006		DRY	77	0	77	0.00	63.0	18.64	0.23		
5/31/2006		DRY	76	0	76	0.00	70.4	18.28	0.21		
6/1/2006		DRY	79	0	79	0.00	69.9	19.21	0.22		
6/2/2006		DRY	78	0	78	0.00	69.2	17.91	0.21		
6/3/2006		DRY	79	0	79	0.00	69.0	18.20	0.21		
6/4/2006		DRY	77	0	77	0.00	68.6	18.00	0.21		
6/5/2006		DRY	81	0	81	0.00	68.3	17.73	0.21		
6/6/2006		DRY	81	0	81	0.00	68.3	19.80	0.22		
6/7/2006		DRY	81	0	81	0.00	69.0	19.40	0.22		
6/8/2006		DRY	80	0	80	0.00	69.0	17.19	0.20		
6/9/2006		DRY	79	0	79	0.00	68.5	17.22	0.20		
6/10/2006		DRY	82	0	82	0.00	68.3	16.63	0.20		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
6/11/2006		DRY	82	0	82	0.00	67.9	16.90	0.20		
6/12/2006		DRY	84	0	84	0.00	67.7	17.26	0.20		
6/13/2006	DRY	DRY	82	0	82	0.00	67.7	14.49	0.18		
6/14/2006		DRY	81	0	81	0.00	67.7	15.41	0.19		
6/15/2006		DRY	83	0	83	0.00	67.3	17.23	0.20		
6/16/2006		DRY	81	0	81	0.00	67.2	15.56	0.19		
6/17/2006		DRY	83	0	83	0.00	67.0	16.13	0.19		
6/18/2006		DRY	87	0	87	0.00	67.0	16.54	0.20		
6/19/2006		DRY	91	0	91	0.00	67.1	16.31	0.20		
6/20/2006		DRY	92	0	92	0.00	67.5	16.09	0.19		
6/21/2006		DRY	92	0	92	0.00	67.3	16.15	0.19		
6/22/2006		DRY	97	0	97	0.00	67.2	15.81	0.19		
6/23/2006		DRY	94	0	94	0.00	67.7	15.60	0.19		
6/24/2006		DRY	100	0	100	0.00	67.8	14.88	0.18		
6/25/2006		DRY	100	0	100	0.00	68.3	14.49	0.17		
6/26/2006		DRY	104	0	104	0.00	68.9	14.21	0.17		
6/27/2006		DRY	100	0	100	0.00	70.2	14.46	0.17		
6/28/2006		DRY	95	0	95	0.00	70.9	14.17	0.17		
6/29/2006		DRY	90	0	90	0.00	70.9	13.41	0.16		
6/30/2006		DRY	87	0	87	0.00	70.9	14.14	0.17		
7/1/2006		DRY	87	0	87	0.00	70.6	15.08	0.18		
7/2/2006		DRY	86	0	86	0.00	70.2	14.63	0.17		
7/3/2006		DRY	87	0	87	0.00	70.0	14.91	0.18		
7/4/2006		DRY	83	0	83	0.00	70.2	14.58	0.17		
7/5/2006		DRY	77	0	77	0.00	69.7	15.94	0.19		
7/6/2006		DRY	75	0	75	0.00	69.6	13.76	0.17		
7/7/2006		DRY	75	0	75	0.00	69.3	14.10	0.17		
7/8/2006		DRY	78	0	78	0.00	69.5	14.06	0.17		
7/9/2006		DRY	79	0	79	0.00	69.6	14.31	0.17		
7/10/2006	DRY	DRY	80	0	80	0.00	69.6	14.49	0.17		
7/11/2006		DRY	82	0	82	0.00	69.4	13.62	0.16		
7/12/2006		DRY	80	0	80	0.00	69.0	12.93	0.16		
7/13/2006		DRY	77	0	77	0.00	69.0	13.81	0.17		
7/14/2006		DRY	75	0	75	0.00	68.6	13.75	0.17		
7/15/2006		DRY	82	0	82	0.00	68.3	13.11	0.16		
7/16/2006		DRY	82	0	82	0.00	68.9	13.42	0.16		
7/17/2006		DRY	81	0	81	0.00	69.4	11.73	0.14		
7/18/2006		DRY	80	0	80	0.00	69.6	11.81	0.15		
7/19/2006		DRY	78	0	78	0.00	69.1	13.32	0.16		
7/20/2006		DRY	79	0	79	0.00	68.0	13.50	0.17		
7/21/2006		DRY	76	0	76	0.00	67.3	13.82	0.17		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
7/22/2006		DRY	78	0	78	0.00	67.0	13.14	0.16		
7/23/2006		DRY	80	0	80	0.00	67.2	13.55	0.17		
7/24/2006		DRY	82	0	82	0.00	67.7	13.04	0.16		
7/25/2006		DRY	87	0	87	0.00	68.3	14.90	0.18		
7/26/2006		DRY	75	0	75	0.00	67.9	15.96	0.19		
7/27/2006		DRY	71	0	71	0.00	67.7	13.12	0.16		
7/28/2006		DRY	73	0	73	0.00	67.7	13.38	0.17		
7/29/2006		DRY	72	0	72	0.00	67.2	13.32	0.17		
7/30/2006		DRY	71	0	71	0.00	67.0	13.23	0.16		
7/31/2006		DRY	73	0	73	0.00	66.9	12.93	0.16		
8/1/2006	DRY	DRY	72	0	72	0.00	67.0	13.96	0.17		
8/2/2006		DRY	73	0	73	0.00	67.2	13.91	0.17		
8/3/2006		DRY	72	0	72	0.00	66.9	14.54	0.18		
8/4/2006		DRY	70	0	70	0.00	65.9	14.12	0.18		
8/5/2006		DRY	71	0	71	0.00	65.6	12.85	0.16		
8/6/2006		DRY	72	0	72	0.00	65.2	12.36	0.16		
8/7/2006		DRY	77	0	77	0.00	65.2	12.62	0.16		
8/8/2006		DRY	70	0	70	0.00	65.4	11.73	0.15		
8/9/2006		DRY	68	0	68	0.00	65.2	11.75	0.15		
8/10/2006		DRY	69	0	69	0.00	64.9	11.24	0.15		
8/11/2006		DRY	67	0	67	0.00	64.5	10.11	0.14		
8/12/2006		DRY	71	0	71	0.00	64.5	9.68	0.13		
8/13/2006		DRY	70	0	70	0.00	64.2	11.32	0.15		
8/14/2006		DRY	71	0	71	0.00	63.5	11.02	0.15		
8/15/2006	DRY	DRY	73	0	73	0.00	63.3	9.26	0.13		
8/16/2006		DRY	73	0	73	0.00	62.9	8.56	0.12		
8/17/2006		DRY	75	0	75	0.00	62.7	10.60	0.14		
8/18/2006		DRY	74	0	74	0.00	62.7	8.78	0.12		
8/19/2006		DRY	75	0	75	0.00	62.7	8.25	0.12		
8/20/2006		DRY	76	0	76	0.00	62.7	12.50	0.17		
8/21/2006		DRY	74	0	74	0.00	62.7	13.54	0.18		
8/22/2006		DRY	74	0	74	0.00	62.7	12.21	0.16		
8/23/2006		DRY	74	0	74	0.00	62.7	10.89	0.15		
8/24/2006		DRY	83	0	83	0.00	63.6	8.60	0.12		
8/25/2006		DRY	71	0	71	0.00	63.4	8.97	0.12		
8/26/2006		DRY	74	0	74	0.00	63.3	11.88	0.16		
8/27/2006		DRY	76	0	76	0.00	63.0	7.39	0.10		
8/28/2006		DRY	77	0	77	0.00	62.7	10.43	0.14		
8/29/2006		DRY	80	0	80	0.00	62.7	8.52	0.12		
8/30/2006		DRY	81	0	81	0.00	62.7	11.31	0.15		
8/31/2006		DRY	77	0	77	0.00	62.7	9.48	0.13		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
9/1/2006		DRY	77	0	77	0.00	62.7	7.81	0.11		
9/2/2006		DRY	77	0	77	0.00	62.7	7.84	0.11		
9/3/2006		DRY	71	0	71	0.00	62.8	7.39	0.11		
9/4/2006		DRY	72	0	72	0.00	62.7	7.22	0.10		
9/5/2006		DRY	70	0	70	0.00	62.7	7.42	0.11		
9/6/2006		DRY	71	0	71	0.00	62.3	8.08	0.11		
9/7/2006		DRY	71	0	71	0.00	62.2	7.52	0.11		
9/8/2006		DRY	72	0	72	0.00	62.2	11.58	0.16		
9/9/2006		DRY	71	0	71	0.00	62.7	11.53	0.16		
9/10/2006		DRY	68	0	68	0.00	62.3	8.21	0.12		
9/11/2006		DRY	69	0	69	0.00	62.1	9.52	0.13		
9/12/2006	DRY	DRY	66	0	66	0.00	62.1	10.64	0.15		
9/13/2006		DRY	60	0	60	0.00	61.2	10.07	0.14		
9/14/2006		DRY	71	0	71	0.00	61.1	9.03	0.13		
9/15/2006		DRY	70	0	70	0.00	61.5	13.90	0.18		
9/16/2006		DRY	60	0	60	0.00	61.0	10.64	0.15		
9/17/2006		DRY	69	0	69	0.00	60.4	15.09	0.20		
9/18/2006		DRY	72	0	72	0.00	60.4	10.14	0.14		
9/19/2006		DRY	73	0	73	0.00	60.4	10.16	0.14		
9/20/2006		DRY	74	0	74	0.00	60.4	9.93	0.14		
9/21/2006		DRY	74	0	74	0.00	60.4	9.93	0.14		
9/22/2006		DRY	77	0	77	0.00	60.4	10.92	0.15		
9/23/2006		DRY	78	0	78	0.00	60.9	10.61	0.15		
9/24/2006		DRY	88	0	88	0.00	61.4	9.38	0.13		
9/25/2006		DRY	77	0	77	0.00	62.1	11.17	0.15		
9/26/2006		DRY	79	0	79	0.00	62.1	11.93	0.16		
9/27/2006		DRY	80	0	80	0.00	62.1	11.83	0.16		
9/28/2006		DRY	76	0	76	0.00	61.7	11.01	0.15		
9/29/2006		DRY	69	0	69	0.00	61.1	9.85	0.14		
9/30/2006		DRY	72	0	72	0.00	60.9	8.18	0.12		
10/1/2006		DRY	78	0	78	0.00	60.7	8.90	0.13		
10/2/2006		DRY	79	0	79	0.00	60.9	9.61	0.14		
10/3/2006		DRY	73	0	73	0.00	60.9	14.32	0.19		
10/4/2006		DRY	72	0	72	0.00	60.5	14.50	0.19		
10/5/2006		DRY	61	0	61	0.00	60.1	13.21	0.18		
10/6/2006		DRY	61	0	61	0.00	59.1	15.26	0.21		
10/7/2006		DRY	66	0	66	0.00	58.6	14.88	0.20		
10/8/2006		DRY	65	0	65	0.00	58.6	13.06	0.18		
10/9/2006		DRY	65	0	65	0.00	58.6	16.37	0.22		
10/10/2006	DRY	DRY	72	0	72	0.00	58.4	15.37	0.21		
10/11/2006		DRY	64	0	64	0.00	57.5	16.85	0.23		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
10/12/2006		DRY	56	0	56	0.00	55.3	12.83	0.19		
10/13/2006		DRY	68	0	68	0.00	54.3	14.80	0.21		
10/14/2006		DRY	72	0	72	0.00	56.6	18.60	0.25		
10/15/2006		DRY	72	0.21	72.21	0.00	58.1	15.76	0.21		
10/16/2006		DRY	77	0.5	77.5	0.01	58.9	14.84	0.20		
10/17/2006		DRY	77	0.5	77.5	0.01	60.5	14.41	0.19		
10/18/2006		DRY	75	0.26	75.26	0.00	60.6	13.74	0.18		
10/19/2006		DRY	66	0.01	66.01	0.00	60.1	13.46	0.18		
10/20/2006		DRY	69	0.46	69.46	0.01	59.4	13.66	0.19		
10/21/2006		DRY	75	0.5	75.5	0.01	59.6	13.61	0.19		
10/22/2006		DRY	75	0.5	75.5	0.01	59.8	13.42	0.18		
10/23/2006		DRY	77	0.5	77.5	0.01	59.8	13.53	0.18		
10/24/2006		DRY	76	0.5	76.5	0.01	59.8	13.22	0.18		
10/25/2006		DRY	69	0.5	69.5	0.01	59.7	13.34	0.18		
10/26/2006		DRY	62	0.5	62.5	0.01	58.7	13.41	0.19		
10/27/2006		DRY	66	0.5	66.5	0.01	57.3	12.13	0.17		
10/28/2006		DRY	70	0.5	70.5	0.01	57.2	12.57	0.18		
10/29/2006		DRY	71	0.5	71.5	0.01	57.5	11.91	0.17		
10/30/2006		DRY	74	0.5	74.5	0.01	59.0	12.90	0.18		
10/31/2006		DRY	77	0.5	77.5	0.01	60.5	11.35	0.16		
11/1/2006	DRY	DRY	75	2.4	77.4	0.03	61.5	13.49	0.18		
11/2/2006		DRY	66	3.4	69.4	0.05	61.2	11.32	0.16		
11/3/2006		DRY	78	3.4	81.4	0.04	61.2	11.19	0.15		
11/4/2006		DRY	72	2.5	74.5	0.03	62.1	12.10	0.16		
11/5/2006		DRY	74	0.5	74.5	0.01	62.1	10.46	0.14		
11/6/2006		DRY	69	0.5	69.5	0.01	62.1	9.24	0.13		
11/7/2006		DRY	70	0.74	70.74	0.01	62.1	9.18	0.13		
11/8/2006		DRY	70	1.6	71.6	0.02	62.7	9.59	0.13		
11/9/2006		DRY	70	2.7	72.7	0.04	62.7	9.75	0.13		
11/10/2006		DRY	69	3.1	72.1	0.04	62.3	10.33	0.14		
11/11/2006		DRY	66	3.3	69.3	0.05	61.8	10.70	0.15		
11/12/2006		DRY	70	2.7	72.7	0.04	61.2	9.30	0.13		
11/13/2006		DRY	71	1.5	72.5	0.02	60.9	10.50	0.15		
11/14/2006	DRY	DRY	70	3.4	73.4	0.05	60.9	10.74	0.15		
11/15/2006		DRY	70	3.4	73.4	0.05	60.9	9.78	0.14		
11/16/2006		DRY	69	3.4	72.4	0.05	60.9	10.64	0.15		
11/17/2006		DRY	65	3.4	68.4	0.05	61.0	9.06	0.13		
11/18/2006		DRY	65	3.4	68.4	0.05	61.2	10.23	0.14		
11/19/2006		DRY	69	3.4	72.4	0.05	60.9	9.73	0.14		
11/20/2006		DRY	65	3.4	68.4	0.05	60.9	10.31	0.14		
11/21/2006		DRY	67	3.4	70.4	0.05	60.9	9.46	0.13		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
11/22/2006		DRY	75	3.4	78.4	0.04	61.0	10.59	0.15		
11/23/2006		DRY	76	3.4	79.4	0.04	62.0	11.06	0.15		
11/24/2006		DRY	74	4.1	78.1	0.05	62.7	9.82	0.14		
11/25/2006		DRY	74	4.5	78.5	0.06	63.3	12.29	0.16		
11/26/2006		DRY	73	4.6	77.6	0.06	62.9	10.83	0.15		
11/27/2006		WET	112	4.6	116.6	0.04	74.9	11.66	0.13		
11/28/2006		DRY	70	3.9	73.9	0.05	83.8	11.45	0.12		
11/29/2006		DRY	66	3.4	69.4	0.05	79.4	12.39	0.13		
11/30/2006		DRY	62	3.4	65.4	0.05	73.0	10.59	0.13		
12/1/2006		DRY	62	3.7	65.7	0.06	68.4	12.00	0.15		
12/2/2006		DRY	60	4	64	0.06	65.9	12.35	0.16		
12/3/2006		DRY	56	3.4	59.4	0.06	62.7	11.53	0.16		
12/4/2006		DRY	64	3.4	67.4	0.05	61.1	11.76	0.16		
12/5/2006		DRY	67	4	71	0.06	61.5	12.01	0.16		
12/6/2006		DRY	71	4	75	0.05	61.9	14.76	0.19		
12/7/2006		DRY	70	2.1	72.1	0.03	61.9	15.68	0.20		
12/8/2006		DRY	67	0	67	0.00	62.3	13.39	0.18		
12/9/2006		WET	250	0.01	250.01	0.00	72.2	58.57	0.45		
12/10/2006		WET	226	0	226	0.00	401.1	16.97	0.04		
12/11/2006		WET	67	0	67	0.00	90.8	14.20	0.14		
12/12/2006	DRY	DRY	63	0	63	0.00	73.1	14.29	0.16		
12/13/2006		DRY	62	0	62	0.00	64.4	13.51	0.17		
12/14/2006		DRY	60	0	60	0.00	61.3	14.72	0.19		
12/15/2006		DRY	62	0	62	0.00	59.6	15.22	0.20		
12/16/2006		DRY	112	0	112	0.00	60.9	16.28	0.21		
12/17/2006		WET	69	0	69	0.00	75.9	15.49	0.17		
12/18/2006		DRY	84	0	84	0.00	70.8	16.47	0.19		
12/19/2006		DRY	106	0	106	0.00	79.1	17.90	0.18		
12/20/2006		DRY	108	0	108	0.00	87.0	17.33	0.17		
12/21/2006		DRY	94	0	94	0.00	91.5	17.04	0.16		
12/22/2006		DRY	95	0	95	0.00	93.9	19.64	0.17		
12/23/2006		DRY	93	0	93	0.00	94.4	16.26	0.15		
12/24/2006		DRY	97	0	97	0.00	94.9	19.38	0.17		
12/25/2006		DRY	89	0	89	0.00	94.0	17.77	0.16		
12/26/2006		DRY	98	0	98	0.00	92.9	17.94	0.16		
12/27/2006		WET	198	0	198	0.00	527.8	47.75	0.08		
12/28/2006		WET	95	0	95	0.00	132.4	17.76	0.12		
12/29/2006		DRY	95	0	95	0.00	95.6	17.57	0.16		
12/30/2006		DRY	92	0	92	0.00	96.1	17.06	0.15		
12/31/2006		DRY	100	0	100	0.00	97.4	17.53	0.15		
1/1/2007		DRY	89	0	89	0.00	99.0	16.81	0.15		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
1/2/2007		DRY	94	0	94	0.00	98.2	17.89	0.15		
1/3/2007		DRY	92	0	92	0.00	98.8	16.60	0.14		
1/4/2007		DRY	98	0	98	0.00	99.3	20.21	0.17		
1/5/2007		DRY	102	0	102	0.00	104.4	18.93	0.15		
1/6/2007		DRY	95	0	95	0.00	100.4	16.53	0.14		
1/7/2007		DRY	101	0	101	0.00	98.0	16.51	0.14		
1/8/2007		DRY	99	0	99	0.00	98.6	16.09	0.14		
1/9/2007		DRY	101	0	101	0.00	97.7	15.95	0.14		
1/10/2007		DRY	75	0	75	0.00	95.1	16.85	0.15		
1/11/2007		DRY	62	0	62	0.00	83.2	17.69	0.18		
1/12/2007		DRY	80	0	80	0.00	74.6	17.97	0.19		
1/13/2007		DRY	103	0	103	0.00	77.7	18.18	0.19		
1/14/2007		WET	137	0	137	0.00	92.6	18.47	0.17		
1/15/2007		DRY	104	0	104	0.00	102.5	20.02	0.16		
1/16/2007	DRY	DRY	105	0	105	0.00	100.3	19.10	0.16		
1/17/2007		WET	141	0	141	0.00	200.0	27.34	0.12		
1/18/2007		WET	89	0	89	0.00	144.7	19.46	0.12		
1/19/2007		DRY	92	0	92	0.00	92.1	19.03	0.17		
1/20/2007		DRY	86	0	86	0.00	92.7	19.21	0.17		
1/21/2007		DRY	90	0	90	0.00	91.8	19.57	0.18		
1/22/2007		DRY	90	0	90	0.00	91.7	19.81	0.18		
1/23/2007		DRY	87	0	87	0.00	91.3	21.51	0.19		
1/24/2007		DRY	93	0	93	0.00	85.3	20.93	0.20		
1/25/2007		DRY	101	0	101	0.00	81.7	23.37	0.22		
1/26/2007		DRY	93	0	93	0.00	81.2	24.01	0.23		
1/27/2007		WET	156	0	156	0.00	160.0	50.73	0.24		
1/28/2007		WET	310	0	310	0.00	391.2	27.75	0.07		
1/29/2007		WET	107	0	107	0.00	104.3	26.84	0.20		
1/30/2007		WET	182	0	182	0.00	205.0	31.39	0.13		
1/31/2007		WET	135	0	135	0.00	219.7	32.50	0.13		
2/1/2007		WET	104	0	104	0.00	98.8	28.65	0.22		
2/2/2007		DRY	104	0	104	0.00	81.8	28.47	0.26		
2/3/2007		DRY	94	0	94	0.00	79.1	28.56	0.27		
2/4/2007		DRY	92	0	92	0.00	77.0	29.36	0.28		
2/5/2007		DRY	95	0	95	0.00	76.1	28.37	0.27		
2/6/2007		DRY	97	0	97	0.00	75.5	31.38	0.29		
2/7/2007	DRY	DRY	102	0	102	0.00	75.5	30.41	0.29		
2/8/2007		DRY	109	0	109	0.00	78.4	30.65	0.28		
2/9/2007		DRY	110	0	110	0.00	80.4	30.47	0.27		
2/10/2007		DRY	108	0	108	0.00	80.8	30.14	0.27		
2/11/2007		WET	476	0	476	0.00	555.4	103.48	0.16		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
2/12/2007		WET	112	0	112	0.00	120.8	23.72	0.16		
2/13/2007	DRY	DRY	108	0	108	0.00	90.3	21.72	0.19		
2/14/2007		DRY	102	0	102	0.00	85.0	21.02	0.20		
2/15/2007		DRY	106	0	106	0.00	81.1	20.11	0.20		
2/16/2007		DRY	100	0	100	0.00	79.5	19.38	0.20		
2/17/2007		DRY	96	0	96	0.00	76.3	20.38	0.21		
2/18/2007		DRY	95	0	95	0.00	74.2	20.77	0.22		
2/19/2007		WET	455	0	455	0.00	534.0	60.75	0.10		
2/20/2007		WET	110	0	110	0.00	122.6	18.27	0.13		
2/21/2007		DRY	98	0	98	0.00	84.9	18.35	0.18		
2/22/2007		WET	533	0.01	533.01	0.00	298.9	30.35	0.09		
2/23/2007		WET	122	0	122	0.00	181.4	20.34	0.10		
2/24/2007		WET	105	0	105	0.00	91.7	16.20	0.15		
2/25/2007		DRY	105	0	105	0.00	80.2	15.85	0.16		
2/26/2007		DRY	103	0	103	0.00	77.9	16.31	0.17		
2/27/2007		WET	347	0	347	0.00	505.3	95.91	0.16		
2/28/2007		WET	92	0	92	0.00	97.5	16.87	0.15		
3/1/2007		DRY	95	0	95	0.00	78.9	16.09	0.17		
3/2/2007		DRY	91	0	91	0.00	75.5	15.53	0.17		
3/3/2007		DRY	100	0	100	0.00	74.3	15.06	0.17		
3/4/2007		DRY	102	0	102	0.00	75.3	15.46	0.17		
3/5/2007		DRY	102	0	102	0.00	76.5	15.71	0.17		
3/6/2007	DRY	DRY	96	0	96	0.00	76.5	15.14	0.17		
3/7/2007		DRY	97	0	97	0.00	75.4	16.26	0.18		
3/8/2007		DRY	98	0	98	0.00	74.7	16.90	0.18		
3/9/2007		DRY	99	0	99	0.00	74.1	16.04	0.18		
3/10/2007		DRY	98	0	98	0.00	73.6	16.64	0.18		
3/11/2007		DRY	96	0	96	0.00	73.5	17.03	0.19		
3/12/2007		DRY	102	0	102	0.00	73.5	16.35	0.18		
3/13/2007	DRY	DRY	105	0	105	0.00	73.9	16.29	0.18		
3/14/2007		DRY	108	0	108	0.00	74.0	18.55	0.20		
3/15/2007		DRY	112	0	112	0.00	74.6	18.82	0.20		
3/16/2007		DRY	112	0	112	0.00	74.9	19.94	0.21		
3/17/2007		DRY	110	0	110	0.00	75.0	21.32	0.22		
3/18/2007		DRY	108	0	108	0.00	74.8	23.57	0.24		
3/19/2007		DRY	113	0	113	0.00	74.8	25.25	0.25		
3/20/2007		DRY	121	0	121	0.00	75.4	23.07	0.23		
3/21/2007		DRY	126	0	126	0.00	78.3	27.45	0.26		
3/22/2007		DRY	112	0	112	0.00	79.3	23.84	0.23		
3/23/2007		DRY	106	0	106	0.00	78.8	22.48	0.22		
3/24/2007		DRY	103	0	103	0.00	78.0	22.53	0.22		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
3/25/2007		DRY	105	0	105	0.00	77.1	22.47	0.23		
3/26/2007		DRY	110	0	110	0.00	76.6	23.05	0.23		
3/27/2007		DRY	107	0	107	0.00	76.6	23.51	0.23		
3/28/2007		DRY	98	0	98	0.00	76.2	18.99	0.20		
3/29/2007		DRY	103	0	103	0.00	75.2	21.18	0.22		
3/30/2007		DRY	107	0	107	0.00	74.6	22.80	0.23		
3/31/2007		DRY	103	0	103	0.00	74.4	22.36	0.23		
4/1/2007		DRY	73	0	73	0.00	72.9	23.22	0.24		
4/2/2007	DRY	DRY	79	0	79	0.00	70.0	23.67	0.25		
4/3/2007		DRY	76	0	76	0.00	68.0	22.80	0.25		
4/4/2007		DRY	71	0	71	0.00	65.9	23.79	0.27		
4/5/2007		DRY	69	0	69	0.00	64.0	24.32	0.28		
4/6/2007		DRY	66	0	66	0.00	62.2	21.03	0.25		
4/7/2007		DRY	71	0	71	0.00	61.0	18.20	0.23		
4/8/2007		DRY	71	0	71	0.00	60.1	18.02	0.23		
4/9/2007		DRY	72	0	72	0.00	59.2	17.62	0.23		
4/10/2007	DRY	DRY	73	0	73	0.00	58.7	17.86	0.23		
4/11/2007		DRY	70	0	70	0.00	58.2	17.84	0.23		
4/12/2007		DRY	68	0	68	0.00	57.5	17.90	0.24		
4/13/2007		DRY	71	0	71	0.00	56.9	18.57	0.25		
4/14/2007		DRY	70	0	70	0.00	56.5	18.01	0.24		
4/15/2007		DRY	73	0	73	0.00	55.2	23.66	0.30		
4/16/2007		DRY	72	0	72	0.00	55.7	18.91	0.25		
4/17/2007		DRY	73	0	73	0.00	55.8	18.93	0.25		
4/18/2007		DRY	71	0	71	0.00	55.8	18.68	0.25		
4/19/2007		DRY	68	0	68	0.00	55.8	17.34	0.24		
4/20/2007		WET	581	0	581	0.00	589.1	73.03	0.11		
4/21/2007		WET	84	0	84	0.00	134.3	19.27	0.13		
4/22/2007		DRY	76	0	76	0.00	79.9	18.78	0.19		
4/23/2007		DRY	93	0	93	0.00	80.2	22.16	0.22		
4/24/2007		DRY	66	0	66	0.00	75.7	18.31	0.19		
4/25/2007		DRY	65	0	65	0.00	70.2	18.02	0.20		
4/26/2007		DRY	65	0	65	0.00	66.7	18.62	0.22		
4/27/2007		DRY	66	0	66	0.00	64.2	17.83	0.22		
4/28/2007		DRY	66	0	66	0.00	62.0	17.88	0.22		
4/29/2007		DRY	66	0	66	0.00	60.2	18.34	0.23		
4/30/2007		DRY	67	0	67	0.00	58.7	18.72	0.24		
5/1/2007	DRY	DRY	69	0	69	0.00	58.2	18.30	0.24		
5/2/2007		DRY	70	0	70	0.00	58.2	18.99	0.25		
5/3/2007		DRY	69	0	69	0.00	57.4	19.89	0.26		
5/4/2007		DRY	72	0	72	0.00	56.9	19.53	0.26		

Date	Cu Data Event Type	Event Type	FLOW_ LARS	FLOW_ TUJW	FLOW LARS+TUJW	FlowRatio_ TUJW to TUJW+ LARS	FLOW_ LART	FLOW_ BWCH	FlowRatio_ BWCH to BWCH+ LART	FLOW_ BWRP	FlowRatio_ Above BWRP to BWCH
5/5/2007		DRY	69	0	69	0.00	56.5	21.15	0.27		
5/6/2007		DRY	67	0	67	0.00	56.0	21.11	0.27		
5/7/2007		DRY	69	0	69	0.00	55.7	19.54	0.26		
5/8/2007		DRY	68	0	68	0.00	54.7	18.49	0.25		
5/9/2007		DRY	68	0	68	0.00	54.7	18.31	0.25		
5/10/2007		DRY	71	0	71	0.00	54.2	18.91	0.26		
5/11/2007		DRY	69	0	69	0.00	53.7	20.15	0.27		
5/12/2007		DRY	69	0	69	0.00	53.6	20.04	0.27		
5/13/2007		DRY	76	0	76	0.00	53.1	20.04	0.27		
5/14/2007		DRY	75	0	75	0.00	53.0	19.99	0.27		
5/15/2007	DRY	DRY	70	0	70	0.00	53.0	18.15	0.26		
5/16/2007		DRY	54	0	54	0.00	51.8	20.46	0.28		
5/17/2007		DRY	62	0	62	0.00	50.6	20.62	0.29		
5/18/2007		DRY	63	0	63	0.00	49.9	20.60	0.29		
5/19/2007		DRY	70	0	70	0.00	49.4	20.46	0.29		
5/20/2007		DRY	74	0	74	0.00	49.4	20.52	0.29		
5/21/2007		DRY	67	0	67	0.00	49.4	20.32	0.29		
5/22/2007		DRY	62	0	62	0.00	48.8	19.14	0.28		
5/23/2007		DRY	77	0	77	0.00	48.4	20.51	0.30		
5/24/2007		DRY	75	0	75	0.00	48.4	19.55	0.29		
5/25/2007		DRY	76	0	76	0.00	48.4	19.95	0.29		
5/26/2007		DRY	81	0	81	0.00	48.4	19.87	0.29		
5/27/2007		DRY	84	0	84	0.00	48.4	19.14	0.28		
5/28/2007		DRY	84	0	84	0.00	48.4	18.81	0.28		
5/29/2007		WET	87	0	87	0.00	48.5	18.88	0.28		
5/30/2007		DRY	91	0	91	0.00	49.0	19.61	0.29		
5/31/2007		DRY	85	0	85	0.00	49.4	16.25	0.25		
6/1/2007		DRY	81	0	81	0.00	49.8	19.81	0.28		
6/2/2007		DRY	78	0	78	0.00	50.3	20.54	0.29		
6/3/2007		DRY	75	0	75	0.00	50.4	19.46	0.28		
6/4/2007		DRY	75	0	75	0.00	50.8	18.65	0.27		
6/5/2007	DRY	DRY	75	0	75	0.00	51.3	20.08	0.28		
6/6/2007		DRY	69	0	69	0.00	51.8	19.25	0.27		
6/7/2007		DRY	69	0	69	0.00	52.2	19.35	0.27		
6/8/2007		DRY	70	0	70	0.00	52.5	18.56	0.26		
6/9/2007		DRY	71	0	71	0.00	52.5	21.59	0.29		
6/10/2007		DRY	68	0	68	0.00	52.7	24.96	0.32		
6/11/2007		DRY	68	0	68	0.00	53.1	23.55	0.31		
6/12/2007	DRY	DRY	67	0	67	0.00	54.3	20.50	0.27		
6/13/2007		DRY	68	0	68	0.00	56.2	21.18	0.27		
6/14/2007		DRY	67	0	67	0.00	57.8	19.60	0.25		

Date	Cu Data Event Type	Event Type	FLOW_ LARS	FLOW_ TUJW	FLOW LARS+TUJW	FlowRatio_ TUJW to TUJW+ LARS	FLOW_ LART	FLOW_ BWCH	FlowRatio_ BWCH to BWCH+ LART	FLOW_ BWRP	FlowRatio_ Above BWRP to BWCH
6/15/2007		DRY	64	0	64	0.00	59.1	20.05	0.25		
6/16/2007		DRY	61	0	61	0.00	60.1	20.36	0.25		
6/17/2007		DRY	63	0	63	0.00	60.9	19.13	0.24		
6/18/2007		DRY	74	0	74	0.00	61.0	19.09	0.24		
6/19/2007		DRY	61	0	61	0.00	62.1	18.47	0.23		
6/20/2007		DRY	51	0	51	0.00	62.1	17.85	0.22		
6/21/2007		DRY	48	0	48	0.00	62.1	16.81	0.21		
6/22/2007		DRY	49	0	49	0.00	62.1	16.71	0.21		
6/23/2007		DRY	50	0	50	0.00	62.1	16.36	0.21		
6/24/2007		DRY	50	0	50	0.00	62.1	16.66	0.21		
6/25/2007		DRY	52	0	52	0.00	68.2	15.90	0.19		
6/26/2007		DRY	51	0	51	0.00	70.9	15.74	0.18		
6/27/2007		DRY	50	0	50	0.00	70.9	15.98	0.18		
6/28/2007		DRY	51	0	51	0.00	70.9	15.15	0.18		
6/29/2007		DRY	52	0	52	0.00	70.9	14.91	0.17		
6/30/2007		DRY	51	0	51	0.00	70.9	14.82	0.17		
7/1/2007		DRY	52	0	52	0.00	70.9	16.03	0.18		
7/2/2007	DRY	DRY	52	0	52	0.00	70.9	15.95	0.18		
7/3/2007		DRY	51	0	51	0.00	71.1	17.12	0.19		
7/4/2007		DRY	50	0	50	0.00	71.5	17.95	0.20		
7/5/2007		DRY	49	0	49	0.00	71.5	16.15	0.18		
7/6/2007		DRY	57	0	57	0.00	71.5	17.28	0.19		
7/7/2007		DRY	53	0	53	0.00	71.5	16.87	0.19		
7/8/2007		DRY	54	0	54	0.00	71.7	16.21	0.18		
7/9/2007		DRY	54	0	54	0.00	72.2	16.78	0.19		
7/10/2007	DRY	DRY	56	0	56	0.00	72.2	16.52	0.19		
7/11/2007		DRY	54	0	54	0.00	72.2	17.64	0.20		
7/12/2007		DRY	53	0	53	0.00	71.7	15.77	0.18		
7/13/2007		DRY	50	0	50	0.00	71.0	14.31	0.17		
7/14/2007		DRY	52	0	52	0.00	70.4	15.78	0.18		
7/15/2007		DRY	49	0	49	0.00	70.1	18.61	0.21		
7/16/2007		DRY	48	0	48	0.00	69.6	17.36	0.20		
7/17/2007		DRY	48	0	48	0.00	69.6	15.30	0.18		
7/18/2007		DRY	46	0	46	0.00	69.6	15.66	0.18		
7/19/2007		DRY	43	0	43	0.00	69.6	15.23	0.18		
7/20/2007		DRY	43	0	43	0.00	69.6	15.05	0.18		
7/21/2007		DRY	44	0	44	0.00	69.6	14.99	0.18		
7/22/2007		DRY	44	0	44	0.00	69.6	14.98	0.18		
7/23/2007		DRY	45	0	45	0.00	69.1	16.35	0.19		
7/24/2007		DRY	47	0	47	0.00	69.0	16.48	0.19		
7/25/2007		DRY	47	0	47	0.00	69.0	15.92	0.19		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
7/26/2007		DRY	43	0	43	0.00	68.9	16.08	0.19		
7/27/2007		DRY	45	0	45	0.00	68.3	16.09	0.19		
7/28/2007		DRY	44	0	44	0.00	68.0	16.62	0.20		
7/29/2007		DRY	52	0	52	0.00	67.7	16.99	0.20		
7/30/2007		DRY	49	0	49	0.00	67.7	17.15	0.20		
7/31/2007		DRY	47	0	47	0.00	67.7	16.42	0.20		
8/1/2007		DRY	47	0	47	0.00	67.7	15.84	0.19		
8/2/2007		DRY	51	0	51	0.00	67.3	15.28	0.18		
8/3/2007		DRY	53	0	53	0.00	67.3	15.19	0.18		
8/4/2007		DRY	52	0	52	0.00	67.7	14.75	0.18		
8/5/2007		DRY	53	0	53	0.00	67.7	14.78	0.18		
8/6/2007	DRY	DRY	54	0	54	0.00	67.9	15.39	0.18		
8/7/2007		DRY	56	0	56	0.00	68.3	15.40	0.18		
8/8/2007		DRY	54	2.6	56.6	0.05	68.3	15.53	0.19		
8/9/2007		DRY	55	1.6	56.6	0.03	69.0	14.50	0.17		
8/10/2007		DRY	56	0.5	56.5	0.01	69.0	14.85	0.18		
8/11/2007		DRY	53	0.86	53.86	0.02	69.0	14.56	0.17		
8/12/2007		DRY	52	3.1	55.1	0.06	69.0	14.50	0.17		
8/13/2007		DRY	51	3.4	54.4	0.06	69.0	14.06	0.17		
8/14/2007	DRY	DRY	53	3.4	56.4	0.06	68.5	13.92	0.17		
8/15/2007		DRY	63	3.4	66.4	0.05	69.2	14.77	0.18		
8/16/2007		DRY	60	3.4	63.4	0.05	70.5	15.76	0.18		
8/17/2007		DRY	58	3.4	61.4	0.06	70.9	15.10	0.18		
8/18/2007		DRY	59	3.9	62.9	0.06	71.7	13.53	0.16		
8/19/2007		DRY	59	3.9	62.9	0.06	72.2	14.39	0.17		
8/20/2007		DRY	63	3.4	66.4	0.05	72.2	14.63	0.17		
8/21/2007		DRY	66	3.4	69.4	0.05	72.7	13.89	0.16		
8/22/2007		DRY	65	3.1	68.1	0.05	73.3	14.64	0.17		
8/23/2007		DRY	65	2.4	67.4	0.04	73.7	15.36	0.17		
8/24/2007		DRY	70	0.71	70.71	0.01	74.7	15.40	0.17		
8/25/2007		DRY	74	0.74	74.74	0.01	75.6	15.77	0.17		
8/26/2007		DRY	74	0.98	74.98	0.01	76.5	15.10	0.16		
8/27/2007		DRY	72	0.5	72.5	0.01	77.1	15.62	0.17		
8/28/2007		DRY	70	0.41	70.41	0.01	77.6	17.35	0.18		
8/29/2007		DRY	69	0.29	69.29	0.00	78.0	16.96	0.18		
8/30/2007		DRY	70	0.39	70.39	0.01	78.3	15.86	0.17		
8/31/2007		DRY	73	0.29	73.29	0.00	79.2	16.00	0.17		
9/1/2007		DRY	72	0.4	72.4	0.01	80.0	14.39	0.15		
9/2/2007		DRY	69	0.29	69.29	0.00	80.9	14.89	0.16		
9/3/2007		DRY	68	0	68	0.00	81.1	13.80	0.15		
9/4/2007		DRY	68	0	68	0.00	81.6	15.29	0.16		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
9/5/2007	DRY	DRY	71	0	71	0.00	82.0	16.40	0.17		
9/6/2007		DRY	72	0	72	0.00	82.6	16.69	0.17		
9/7/2007		DRY	74	0	74	0.00	82.6	16.33	0.16		
9/8/2007		DRY	74	0.23	74.23	0.00	83.3	17.31	0.17		
9/9/2007		DRY	72	0.5	72.5	0.01	84.0	17.63	0.17		
9/10/2007		DRY	75	0.5	75.5	0.01	84.0	17.06	0.17		
9/11/2007	DRY	DRY	73	0.31	73.31	0.00	84.0	16.54	0.16		
9/12/2007		DRY	76	0.32	76.32	0.00	84.4	16.79	0.17		
9/13/2007		DRY	69	0.5	69.5	0.01	84.8	17.06	0.17		
9/14/2007		DRY	77	0.45	77.45	0.01	85.0	17.26	0.17		
9/15/2007		DRY	69	0.27	69.27	0.00	86.2	17.13	0.17		
9/16/2007		DRY	68	0.33	68.33	0.00	85.7	16.93	0.16		
9/17/2007		DRY	70	0.5	70.5	0.01	85.5	17.61	0.17		
9/18/2007		DRY	71	0.02	71.02	0.00	84.9	16.79	0.17		
9/19/2007		DRY	71	0.36	71.36	0.01	84.8	17.35	0.17		
9/20/2007		DRY	68	0.5	68.5	0.01	84.7	18.87	0.18		
9/21/2007		DRY	204	0.56	204.56	0.00	807.7	46.55	0.05		
9/22/2007		DRY	1010	7.6	1017.6	0.01	3720.3	174.18	0.04		
9/23/2007		DRY	86	14	100	0.14	110.8	15.40	0.12		
9/24/2007		DRY	75	5.9	80.9	0.07	71.6	14.13	0.16		
9/25/2007		DRY	77	3.8	80.8	0.05	59.6	14.23	0.19		
9/26/2007		DRY	78	2.8	80.8	0.03	60.3	15.07	0.20		
9/27/2007		DRY	81	0.5	81.5	0.01	62.8	14.92	0.19		
9/28/2007		DRY	83	0.5	83.5	0.01	71.1	15.08	0.18		
9/29/2007		DRY	77	0.47	77.47	0.01	76.1	14.83	0.16		
9/30/2007		DRY	76	0.1	76.1	0.00	78.0	14.83	0.16		
10/1/2007		DRY	70	0	70	0.00	78.3	15.27	0.16		
10/2/2007	DRY	DRY	68	0	68	0.00	77.5	15.26	0.16		
10/3/2007		DRY	68	0	68	0.00	76.2	15.64	0.17		
10/4/2007		DRY	72	0	72	0.00	76.4	16.41	0.18		
10/5/2007		DRY	73	0	73	0.00	77.1	16.39	0.18		
10/6/2007		DRY	69	0	69	0.00	76.4	16.02	0.17		
10/7/2007		DRY	70	0	70	0.00	75.7	15.77	0.17		
10/8/2007		DRY	68	0	68	0.00	74.9	16.43	0.18		
10/9/2007		DRY	75	0	75	0.00	74.3	8.47	0.10		
10/10/2007		DRY	80	0	80	0.00	73.9	15.34	0.17		
10/11/2007		DRY	79	0	79	0.00	73.0	15.55	0.18		
10/12/2007		DRY	82	0	82	0.00	80.7	22.10	0.22		
10/13/2007		WET	487	0	487	0.00	1234.2	52.25	0.04		
10/14/2007		WET	95	0	95	0.00	85.7	13.56	0.14		
10/15/2007		DRY	83	0	83	0.00	81.9	14.42	0.15		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
10/16/2007	DRY	DRY	80	0	80	0.00	81.2	15.12	0.16		
10/17/2007		DRY	79	0	79	0.00	79.6	15.10	0.16		
10/18/2007		DRY	76	0	76	0.00	81.6	15.35	0.16		
10/19/2007		DRY	78	0	78	0.00	80.9	15.83	0.16		
10/20/2007		DRY	73	0	73	0.00	79.7	15.45	0.16		
10/21/2007		DRY	70	0	70	0.00	76.7	14.72	0.16		
10/22/2007		DRY	76	0	76	0.00	75.0	15.12	0.17		
10/23/2007		DRY	75	0	75	0.00	75.0	15.93	0.18		
10/24/2007		DRY	80	0	80	0.00	74.9	16.49	0.18		
10/25/2007		DRY	81	0	81	0.00	75.5	17.25	0.19		
10/26/2007		DRY	85	0	85	0.00	76.4	18.11	0.19		
10/27/2007		DRY	80	0	80	0.00	77.4	17.15	0.18		
10/28/2007		DRY	85	0	85	0.00	77.7	17.12	0.18		
10/29/2007		DRY	84	0	84	0.00	78.6	17.15	0.18		
10/30/2007		DRY	84	0	84	0.00	79.0	18.98	0.19		
10/31/2007		DRY	85	2.4	87.4	0.03	79.5	19.31	0.20		
11/1/2007		DRY	75	4.4	79.4	0.06	79.3	19.08	0.19		
11/2/2007		DRY	77	5.1	82.1	0.06	78.7	19.72	0.20		
11/3/2007		DRY	77	5.9	82.9	0.07	77.9	19.06	0.20		
11/4/2007		DRY	78	6.1	84.1	0.07	77.6	19.71	0.20		
11/5/2007		DRY	79	2.6	81.6	0.03	77.6	21.40	0.22		
11/6/2007	DRY	DRY	71	0	71	0.00	77.6	18.54	0.19		
11/7/2007		DRY	73	0	73	0.00	77.6	20.54	0.21		
11/8/2007		DRY	77	0	77	0.00	77.1	20.47	0.21		
11/9/2007		DRY	81	0	81	0.00	76.9	20.60	0.21		
11/10/2007		DRY	80	0	80	0.00	76.9	20.39	0.21		
11/11/2007		DRY	79	0	79	0.00	76.9	20.11	0.21		
11/12/2007		DRY	78	0	78	0.00	76.9	20.69	0.21		
11/13/2007	DRY	DRY	75	0	75	0.00	76.3	20.77	0.21		
11/14/2007		DRY	70	0	70	0.00	75.5	20.83	0.22		
11/15/2007		DRY	74	0	74	0.00	75.4	19.29	0.20		
11/16/2007		DRY	75	0	75	0.00	75.5	19.68	0.21		
11/17/2007		DRY	76	0	76	0.00	75.5	19.72	0.21		
11/18/2007		DRY	77	0	77	0.00	75.5	19.49	0.21		
11/19/2007		DRY	78	0	78	0.00	75.5	19.95	0.21		
11/20/2007		DRY	73	0	73	0.00	75.8	20.69	0.21		
11/21/2007		DRY	79	0	79	0.00	75.5	20.66	0.21		
11/22/2007		DRY	76	0	76	0.00	75.5	18.74	0.20		
11/23/2007		DRY	75	0	75	0.00	75.5	18.52	0.20		
11/24/2007		DRY	71	0	71	0.00	75.5	18.97	0.20		
11/25/2007		DRY	72	0	72	0.00	75.1	18.79	0.20		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
11/26/2007		DRY	74	0.4	74.4	0.01	74.8	19.32	0.21		
11/27/2007		DRY	73	0.5	73.5	0.01	74.4	19.96	0.21		
11/28/2007		DRY	74	0.5	74.5	0.01	73.8	18.40	0.20		
11/29/2007		DRY	76	0.5	76.5	0.01	73.5	19.32	0.21		
11/30/2007		WET	467	0.49	467.49	0.00	856.4	117.15	0.12		
12/1/2007		WET	86	0	86	0.00	169.6	21.14	0.11		
12/2/2007		WET	76	0	76	0.00	99.0	20.26	0.17		
12/3/2007		DRY	82	0	82	0.00	89.4	20.54	0.19		
12/4/2007	DRY	DRY	75	0	75	0.00	85.8	19.48	0.18		
12/5/2007		DRY	75	0	75	0.00	84.3	19.07	0.18		
12/6/2007		DRY	80	0	80	0.00	84.0	19.15	0.19		
12/7/2007		WET	221	0	221	0.00	669.0	57.54	0.08		
12/8/2007		WET	83	0	83	0.00	125.4	17.24	0.12		
12/9/2007		DRY	82	0	82	0.00	108.3	17.57	0.14		
12/10/2007		DRY	80	0	80	0.00	99.8	17.55	0.15		
12/11/2007		DRY	77	0	77	0.00	92.7	18.00	0.16		
12/12/2007		DRY	79	0	79	0.00	87.8	18.69	0.18		
12/13/2007		DRY	77	0	77	0.00	85.7	18.76	0.18		
12/14/2007		DRY	79	0	79	0.00	83.8	17.82	0.18		
12/15/2007		DRY	80	0	80	0.00	82.8	17.58	0.18		
12/16/2007		DRY	80	0	80	0.00	82.2	17.63	0.18		
12/17/2007		DRY	80	0	80	0.00	81.9	17.67	0.18		
12/18/2007	WET	DRY	552	0	552	0.00	1073.6	90.56	0.08		
12/19/2007		WET	329	0	329	0.00	1000.1	44.19	0.04		
12/20/2007		WET	92	0	92	0.00	148.7	17.78	0.11		
12/21/2007		DRY	78	0	78	0.00	110.5	18.12	0.14		
12/22/2007		DRY	63	0	63	0.00	88.8	16.93	0.16		
12/23/2007		DRY	62	0	62	0.00	77.8	16.20	0.17		
12/24/2007		DRY	65	0	65	0.00	73.8	17.13	0.19		
12/25/2007		DRY	63	0	63	0.00	72.2	16.77	0.19		
12/26/2007		DRY	68	0	68	0.00	71.5	17.68	0.20		
12/27/2007		DRY	70	0	70	0.00	71.9	17.46	0.20		
12/28/2007		DRY	73	0	73	0.00	73.0	17.81	0.20		
12/29/2007		DRY	72	0	72	0.00	74.4	18.04	0.20		
12/30/2007		DRY	71	0	71	0.00	75.8	17.85	0.19		
12/31/2007		DRY	70	0	70	0.00	75.9	19.79	0.21		
1/1/2008		DRY	65	0	65	0.00	75.7	18.53	0.20		
1/2/2008	DRY	DRY	64	0	64	0.00	74.8	18.50	0.20		
1/3/2008		DRY	68	0	68	0.00	74.2	19.68	0.21		
1/4/2008		WET	1750	0	1750	0.00	2594.6	441.49	0.15		
1/5/2008		WET	843	32	875	0.04	1860.8	89.34	0.05		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
1/6/2008		WET	410	8	418	0.02	1794.5	170.52	0.09		
1/7/2008		WET	190	15	205	0.07	1235.0	38.85	0.03		
1/8/2008		WET	92	0	92	0.00	281.8	15.88	0.05		
1/9/2008		WET	89	0	89	0.00	162.9	16.74	0.09		
1/10/2008		WET	83	0	83	0.00	138.3	18.20	0.12		
1/11/2008		DRY	81	0	81	0.00	124.0	18.25	0.13		
1/12/2008		DRY	82	0	82	0.00	115.3	17.85	0.13		
1/13/2008		DRY	81	0	81	0.00	111.6	17.56	0.14		
1/14/2008		DRY	80	0	80	0.00	107.0	18.64	0.15		
1/15/2008		DRY	80	0	80	0.00	103.5	18.47	0.15		
1/16/2008		DRY	82	0	82	0.00	102.4	19.23	0.16		
1/17/2008		DRY	77	0	77	0.00	101.7	18.96	0.16		
1/18/2008		DRY	83	0	83	0.00	101.0	19.07	0.16		
1/19/2008		DRY	76	0	76	0.00	100.8	18.34	0.15		
1/20/2008		DRY	75	0	75	0.00	100.0	18.25	0.15		
1/21/2008		DRY	89	0	89	0.00	102.2	19.94	0.16		
1/22/2008	DRY	DRY	171	0	171	0.00	556.8	22.48	0.04		
1/23/2008		WET	1270	0	1270	0.00	1815.4	239.44	0.12		
1/24/2008		WET	1760	0	1760	0.00	2849.6	295.15	0.09		
1/25/2008		WET	2880	197	3077	0.06	4407.8	515.83	0.10		
1/26/2008		WET	761	70	831	0.08	1676.4	129.16	0.07		
1/27/2008		WET	4070	185	4255	0.04	5573.8	318.92	0.05		
1/28/2008		WET	819	732	1551	0.47	2615.5	116.78	0.04		
1/29/2008		WET	201	511	712	0.72	1348.2	22.87	0.02		
1/30/2008		WET	149	167	316	0.53	837.1	17.33	0.02		
1/31/2008		WET	118	136	254	0.54	435.0	16.76	0.04		
2/1/2008		WET	105	84	189	0.44	233.7	17.19	0.07		
2/2/2008		WET	95	79	174	0.45	181.3	17.38	0.09		
2/3/2008		WET	713	61	774	0.08	1485.8	24.38	0.02		
2/4/2008		WET	157	54	211	0.26	706.4	21.07	0.03		
2/5/2008	DRY	DRY	99	44	143	0.31	277.6	18.99	0.06		
2/6/2008		WET	99	42	141	0.30	192.3	18.73	0.09		
2/7/2008		WET	102	43	145	0.30	179.5	18.85	0.09		
2/8/2008		WET	107	41	148	0.28	172.5	18.97	0.10		
2/9/2008		WET	102	41	143	0.29	164.0	18.75	0.10		
2/10/2008		WET	92	41	133	0.31	157.3	18.05	0.10		
2/11/2008		WET	89	59	148	0.40	153.5	18.49	0.11		
2/12/2008	DRY	DRY	93	76	169	0.45	152.4	18.80	0.11		
2/13/2008		WET	90	76	166	0.46	150.8	19.05	0.11		
2/14/2008		WET	87	53	140	0.38	153.1	19.08	0.11		
2/15/2008		WET	87	0	87	0.00	155.3	19.02	0.11		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
2/16/2008		WET	89	0	89	0.00	165.4	19.17	0.10		
2/17/2008		WET	92	0	92	0.00	166.7	19.47	0.10		
2/18/2008		WET	97	0	97	0.00	168.0	19.96	0.11		
2/19/2008		DRY	101	0	101	0.00	170.5	19.97	0.10		
2/20/2008		WET	198	0	198	0.00	1188.7	26.86	0.02		
2/21/2008		WET	165	0	165	0.00	877.6	31.33	0.03		
2/22/2008		WET	471	0	471	0.00	2082.1	51.30	0.02		
2/23/2008		WET	94	0	94	0.00	925.2	25.36	0.03		
2/24/2008		WET	1050	0	1050	0.00	2755.4	91.33	0.03		
2/25/2008		WET	108	0	108	0.00	1262.0	22.47	0.02		
2/26/2008		WET	86	0	86	0.00	690.5	20.49	0.03		
2/27/2008		WET	83	0	83	0.00	328.4	20.66	0.06		
2/28/2008		WET	79	0	79	0.00	84.6	20.00	0.19		
2/29/2008		DRY	77	0	77	0.00	76.7	21.06	0.22		
3/1/2008		DRY	80	0	80	0.00	73.4	21.71	0.23		
3/2/2008		DRY	80	0	80	0.00	72.4	22.42	0.24		
3/3/2008		DRY	84	0	84	0.00	75.2	23.55	0.24		
3/4/2008		DRY	79	0	79	0.00	76.1	23.35	0.23		
3/5/2008	DRY	DRY	70	0	70	0.00	74.1	23.34	0.24		
3/6/2008		DRY	74	0	74	0.00	69.7	24.21	0.26		
3/7/2008		DRY	83	0	83	0.00	69.0	26.18	0.28		
3/8/2008		DRY	86	0	86	0.00	69.0	27.47	0.28		
3/9/2008		DRY	81	0	81	0.00	69.0	27.84	0.29		
3/10/2008		DRY	83	0	83	0.00	68.4	28.18	0.29		
3/11/2008		DRY	85	1.2	86.2	0.01	68.3	29.77	0.30		
3/12/2008		DRY	89	0	89	0.00	68.3	31.26	0.31		
3/13/2008		DRY	87	0	87	0.00	68.3	34.14	0.33		
3/14/2008		DRY	93	0	93	0.00	66.5	35.04	0.35		
3/15/2008		DRY	118	0.01	118.01	0.00	66.8	36.58	0.35		
3/16/2008		DRY	104	0	104	0.00	72.1	37.31	0.34		
3/17/2008		DRY	94	0	94	0.00	71.6	36.00	0.33		
3/18/2008		DRY	100	21	121	0.17	70.6	37.71	0.35		
3/19/2008		DRY	94	47	141	0.33	69.8	38.33	0.35		
3/20/2008		DRY	102	46	148	0.31	69.0	39.39	0.36		
3/21/2008		DRY	101	44	145	0.30	69.0	40.52	0.37		
3/22/2008		DRY	95	44	139	0.32	69.0	40.95	0.37		
3/23/2008		DRY	95	41	136	0.30	68.6	41.91	0.38		
3/24/2008		DRY	92	41	133	0.31	68.3	41.37	0.38		
3/25/2008		DRY	94	41	135	0.30	68.3	42.02	0.38		
3/26/2008		DRY	96	38	134	0.28	68.3	41.26	0.38		
3/27/2008		DRY	94	38	132	0.29	68.3	43.65	0.39		

Date	Cu Data Event Type	Event Type	FLOW_ LARS	FLOW_ TUJW	FLOW LARS+TUJW	FlowRatio_ TUJW to TUJW+ LARS	FLOW_ LART	FLOW_ BWCH	FlowRatio_ BWCH to BWCH+ LART	FLOW_ BWRP	FlowRatio_ Above BWRP to BWCH
3/28/2008		DRY	95	38	133	0.29	68.3	45.73	0.40		
3/29/2008		DRY	88	38	126	0.30	68.3	43.79	0.39		
3/30/2008		DRY	87	38	125	0.30	68.7	44.54	0.39		
3/31/2008		DRY	86	38	124	0.31	69.0	42.16	0.38		
4/1/2008		DRY	80	24	104	0.23	69.0	39.74	0.37		
4/2/2008	DRY	DRY	80	5.7	85.7	0.07	69.5	39.23	0.36		
4/3/2008		DRY	88	0	88	0.00	71.4	38.51	0.35		
4/4/2008		DRY	78	0	78	0.00	71.5	37.08	0.34		
4/5/2008		DRY	79	0	79	0.00	71.5	34.70	0.33		
4/6/2008		DRY	77	0	77	0.00	71.5	35.68	0.33		
4/7/2008		DRY	77	0	77	0.00	71.5	37.20	0.34		
4/8/2008		DRY	74	0	74	0.00	71.0	35.00	0.33		
4/9/2008		DRY	71	0	71	0.00	70.4	32.55	0.32		
4/10/2008		DRY	72	0	72	0.00	69.7	30.55	0.30		
4/11/2008		DRY	73	0	73	0.00	69.6	28.14	0.29		
4/12/2008		DRY	74	0	74	0.00	69.2	27.32	0.28		
4/13/2008		DRY	75	0	75	0.00	68.6	26.65	0.28		
4/14/2008		DRY	80	0	80	0.00	68.0	26.30	0.28		
4/15/2008		DRY	80	0	80	0.00	67.7	26.80	0.28		
4/16/2008		DRY	77	0	77	0.00	67.8	22.85	0.25		
4/17/2008		DRY	76	0	76	0.00	67.7	23.13	0.25		
4/18/2008		DRY	76	0	76	0.00	67.7	24.98	0.27		
4/19/2008		DRY	77	0	77	0.00	67.7	25.50	0.27		
4/20/2008		DRY	78	0	78	0.00	66.9	24.97	0.27		
4/21/2008		DRY	92	0	92	0.00	66.4	24.99	0.27		
4/22/2008		DRY	81	0	81	0.00	67.6	24.65	0.27		
4/23/2008		DRY	65	0	65	0.00	67.7	25.48	0.27		
4/24/2008		DRY	67	0	67	0.00	67.7	24.67	0.27		
4/25/2008		DRY	64	0	64	0.00	67.7	25.43	0.27		
4/26/2008		DRY	69	0	69	0.00	67.7	24.00	0.26		
4/27/2008		DRY	69	0	69	0.00	67.3	22.81	0.25		
4/28/2008		DRY	69	0	69	0.00	67.0	23.79	0.26		
4/29/2008	DRY	DRY	73	0	73	0.00	66.7	24.60	0.27		
4/30/2008		DRY	76	0	76	0.00	66.4	24.71	0.27		
5/1/2008		DRY	74	0	74	0.00	66.4	24.06	0.27		
5/2/2008		DRY	74	0	74	0.00	66.0	24.50	0.27		
5/3/2008		DRY	73	0	73	0.00	65.8	24.46	0.27		
5/4/2008		DRY	74	0	74	0.00	65.4	22.59	0.26		
5/5/2008		DRY	77	0	77	0.00	63.9	21.89	0.26		
5/6/2008		DRY	72	0	72	0.00	63.3	20.64	0.25		
5/7/2008	DRY	DRY	79	0	79	0.00	62.7	21.04	0.25		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
5/8/2008		DRY	78	0	78	0.00	62.3	21.06	0.25		
5/9/2008		DRY	74	0	74	0.00	62.1	20.75	0.25		
5/10/2008		DRY	77	0	77	0.00	62.1	22.35	0.26		
5/11/2008		DRY	78	0	78	0.00	62.1	23.39	0.27		
5/12/2008		DRY	78	0	78	0.00	62.1	25.34	0.29		
5/13/2008	DRY	DRY	85	0	85	0.00	62.2	27.61	0.31		
5/14/2008		DRY	76	0	76	0.00	62.5	28.33	0.31		
5/15/2008		DRY	83	0	83	0.00	62.7	28.40	0.31		
5/16/2008		DRY	80	0	80	0.00	62.7	25.93	0.29		
5/17/2008		DRY	77	0	77	0.00	62.8	21.07	0.25		
5/18/2008		DRY	81	0	81	0.00	63.3	18.12	0.22		
5/19/2008		DRY	82	0	82	0.00	63.3	17.17	0.21		
5/20/2008		DRY	78	0	78	0.00	63.3	16.92	0.21		
5/21/2008		DRY	74	0	74	0.00	63.3	15.97	0.20		
5/22/2008		DRY	73	0	73	0.00	63.1	15.38	0.20		
5/23/2008		DRY	75	0	75	0.00	63.3	16.39	0.21		
5/24/2008		DRY	119	0	119	0.00	102.9	17.41	0.14		
5/25/2008		DRY	69	0	69	0.00	97.1	15.04	0.13		
5/26/2008		DRY	78	0	78	0.00	83.1	13.75	0.14		
5/27/2008		DRY	78	0	78	0.00	76.7	14.15	0.16		
5/28/2008		DRY	77	0	77	0.00	71.6	14.50	0.17		
5/29/2008		DRY	74	0	74	0.00	68.4	14.56	0.18		
5/30/2008		DRY	74	0	74	0.00	65.7	15.26	0.19		
5/31/2008		DRY	74	0	74	0.00	63.7	15.64	0.20		
6/1/2008		DRY	73	0	73	0.00	62.1	15.90	0.20		
6/2/2008		DRY	74	0	74	0.00	61.0	16.10	0.21		
6/3/2008		DRY	72	0	72	0.00	60.1	16.91	0.22		
6/4/2008	DRY	DRY	63	0	63	0.00	58.8	17.01	0.22		
6/5/2008		DRY	62	0	62	0.00	56.6	16.90	0.23		
6/6/2008		DRY	61	0	61	0.00	54.8	16.82	0.23		
6/7/2008		DRY	64	0	64	0.00	54.7	16.33	0.23		
6/8/2008		DRY	63	0	63	0.00	54.7	16.82	0.24		
6/9/2008		DRY	64	0	64	0.00	54.7	16.82	0.24		
6/10/2008		DRY	64	0	64	0.00	54.7	16.22	0.23		
6/11/2008		DRY	64	0	64	0.00	55.2	16.40	0.23		
6/12/2008		DRY	61	0	61	0.00	54.8	15.73	0.22		
6/13/2008		DRY	61	0	61	0.00	54.7	14.70	0.21		
6/14/2008		DRY	61	0	61	0.00	54.7	15.34	0.22		
6/15/2008		DRY	62	0	62	0.00	54.7	16.11	0.23		
6/16/2008		DRY	66	0	66	0.00	54.8	16.64	0.23		
6/17/2008	DRY	DRY	57	0	57	0.00	55.0	16.82	0.23		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
6/18/2008		DRY	57	0	57	0.00	54.1	16.65	0.24		
6/19/2008		DRY	56	0	56	0.00	53.5	16.02	0.23		
6/20/2008		DRY	57	0	57	0.00	52.8	15.69	0.23		
6/21/2008		DRY	56	0	56	0.00	52.5	15.43	0.23		
6/22/2008		DRY	56	0	56	0.00	52.5	15.49	0.23		
6/23/2008		DRY	58	2.7	60.7	0.04	52.5	15.83	0.23		
6/24/2008		DRY	58	16	74	0.22	51.5	16.00	0.24		
6/25/2008		DRY	58	31	89	0.35	50.9	17.07	0.25		
6/26/2008		DRY	62	32	94	0.34	50.5	17.30	0.26		
6/27/2008		DRY	63	28	91	0.31	50.4	17.40	0.26		
6/28/2008		DRY	63	16	79	0.20	50.4	17.49	0.26		
6/29/2008		DRY	63	9.1	72.1	0.13	50.4	17.48	0.26		
6/30/2008		DRY	62	6.8	68.8	0.10	50.4	17.87	0.26		
7/1/2008		DRY	60	5.7	65.7	0.09	50.1	17.81	0.26		
7/2/2008	DRY	DRY	60	4.6	64.6	0.07	49.9	17.16	0.26		
7/3/2008		DRY	61	4.6	65.6	0.07	49.9	17.06	0.25		
7/4/2008		DRY	62	4.5	66.5	0.07	49.9	17.04	0.25		
7/5/2008		DRY	62	4	66	0.06	50.0	16.82	0.25		
7/6/2008		DRY	59	3.6	62.6	0.06	50.1	16.09	0.24		
7/7/2008		DRY	65	3.5	68.5	0.05	50.3	15.87	0.24		
7/8/2008		DRY	61	3.7	64.7	0.06	50.4	15.65	0.24		
7/9/2008		DRY	52	3.8	55.8	0.07	49.6	15.43	0.24		
7/10/2008		DRY	48	4.1	52.1	0.08	48.2	15.43	0.24		
7/11/2008		DRY	55	3.6	58.6	0.06	47.1	15.43	0.25		
7/12/2008		DRY	64	3.6	67.6	0.05	47.0	15.63	0.25		
7/13/2008		DRY	66	3.4	69.4	0.05	47.4	16.12	0.25		
7/14/2008		DRY	75	3.4	78.4	0.04	47.8	16.47	0.26		
7/15/2008	DRY	DRY	60	3.4	63.4	0.05	48.5	15.94	0.25		
7/16/2008		DRY	68	3.4	71.4	0.05	47.5	16.41	0.26		
7/17/2008		DRY	70	3.4	73.4	0.05	47.7	16.82	0.26		
7/18/2008		DRY	71	3.4	74.4	0.05	48.1	16.82	0.26		
7/19/2008		DRY	70	3.5	73.5	0.05	48.4	16.98	0.26		
7/20/2008		DRY	71	3.4	74.4	0.05	48.4	17.01	0.26		
7/21/2008		DRY	73	3.4	76.4	0.04	48.5	16.29	0.25		
7/22/2008		DRY	72	3.4	75.4	0.05	49.1	15.65	0.24		
7/23/2008		DRY	71	3.4	74.4	0.05	49.4	14.71	0.23		
7/24/2008		DRY	73	3.4	76.4	0.04	49.4	14.89	0.23		
7/25/2008		DRY	73	3.4	76.4	0.04	49.4	14.53	0.23		
7/26/2008		DRY	73	3.4	76.4	0.04	49.4	14.36	0.23		
7/27/2008		DRY	71	3.4	74.4	0.05	49.4	14.07	0.22		
7/28/2008		DRY	75	3.4	78.4	0.04	49.4	14.09	0.22		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
7/29/2008		DRY	75	3.4	78.4	0.04	49.3	14.26	0.22		
7/30/2008		DRY	76	3.4	79.4	0.04	49.7	13.44	0.21		
7/31/2008		DRY	77	3.4	80.4	0.04	50.4	12.43	0.20		
8/1/2008		DRY	77	3.4	80.4	0.04	50.4	11.16	0.18		
8/2/2008		DRY	76	3.4	79.4	0.04	50.4	9.73	0.16		
8/3/2008		DRY	74	3.4	77.4	0.04	50.4	8.71	0.15		
8/4/2008		DRY	76	3.4	79.4	0.04	50.4	8.18	0.14		
8/5/2008		DRY	77	3.4	80.4	0.04	50.4	8.29	0.14		
8/6/2008	DRY	DRY	78	3.4	81.4	0.04	50.4	8.10	0.14		
8/7/2008		DRY	79	3.4	82.4	0.04	50.4	7.62	0.13		
8/8/2008		DRY	80	3.4	83.4	0.04	50.4	7.22	0.13		
8/9/2008		DRY	81	3.4	84.4	0.04	50.4	6.81	0.12		
8/10/2008		DRY	79	3.4	82.4	0.04	50.4	6.40	0.11		
8/11/2008		DRY	78	3.4	81.4	0.04	50.4	5.99	0.11		
8/12/2008	DRY	DRY	77	3.4	80.4	0.04	50.4	5.61	0.10		
8/13/2008		DRY	76	3.4	79.4	0.04	50.4	5.74	0.10		
8/14/2008		DRY	73	3.4	76.4	0.04	49.9	7.90	0.14		
8/15/2008		DRY	75	3.4	78.4	0.04	49.9	10.29	0.17		
8/16/2008		DRY	76	3.4	79.4	0.04	49.9	10.42	0.17		
8/17/2008		DRY	75	3.4	78.4	0.04	49.6	10.23	0.17		
8/18/2008		DRY	76	3.4	79.4	0.04	49.4	9.99	0.17		
8/19/2008		DRY	74	3.4	77.4	0.04	49.4	10.08	0.17		
8/20/2008		DRY	74	3.9	77.9	0.05	49.1	9.79	0.17		
8/21/2008		DRY	75	4.6	79.6	0.06	48.9	9.56	0.16		
8/22/2008		DRY	77	4.6	81.6	0.06	48.9	9.53	0.16		
8/23/2008		DRY	76	4.6	80.6	0.06	48.9	9.14	0.16		
8/24/2008		DRY	76	4.4	80.4	0.05	48.9	8.93	0.15		
8/25/2008		DRY	77	4.6	81.6	0.06	48.9	9.42	0.16		
8/26/2008		DRY	75	4.5	79.5	0.06	48.9	9.59	0.16		
8/27/2008		DRY	72	4.4	76.4	0.06	48.5	8.71	0.15		
8/28/2008		DRY	75	4	79	0.05	48.6	9.23	0.16		
8/29/2008		DRY	74	3.8	77.8	0.05	48.9	10.21	0.17		
8/30/2008		DRY	73	3.8	76.8	0.05	49.3	9.79	0.17		
8/31/2008		DRY	71	4.5	75.5	0.06	49.4	9.83	0.17		
9/1/2008		DRY	70	3.9	73.9	0.05	49.4	9.27	0.16		
9/2/2008		DRY	73	3.8	76.8	0.05	49.9	9.75	0.16		
9/3/2008	DRY	DRY	66	3.5	69.5	0.05	49.9	9.32	0.16		
9/4/2008		DRY	66	3.4	69.4	0.05	49.9	9.96	0.17		
9/5/2008		DRY	68	3.4	71.4	0.05	49.9	9.59	0.16		
9/6/2008		DRY	69	3.4	72.4	0.05	50.0	9.94	0.17		
9/7/2008		DRY	71	3.4	74.4	0.05	50.2	10.35	0.17		

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
9/8/2008		DRY	72	3.4	75.4	0.05	50.4	10.93	0.18		
9/9/2008		DRY	71	3.6	74.6	0.05	50.4	11.49	0.19		
9/10/2008		DRY	72	3.4	75.4	0.05	50.4	10.93	0.18		
9/11/2008		DRY	73	4.2	77.2	0.05	50.4	11.04	0.18		
9/12/2008		DRY	74	6.1	80.1	0.08	50.5	11.12	0.18		
9/13/2008		DRY	74	4.6	78.6	0.06	50.9	10.27	0.17		
9/14/2008		DRY	73	4	77	0.05	51.2	10.01	0.16		
9/15/2008		DRY	74	3.5	77.5	0.05	51.4	10.29	0.17		
9/16/2008		DRY	73	3.4	76.4	0.04	51.4	9.83	0.16		
9/17/2008		DRY	74	3.4	77.4	0.04	51.4	10.19	0.17		
9/18/2008		DRY	74	3.4	77.4	0.04	51.4	10.97	0.18		
9/19/2008		DRY	75	3.4	78.4	0.04	51.4	10.13	0.16		
9/20/2008		DRY	73	3.4	76.4	0.04	51.4	9.54	0.16		
9/21/2008		DRY	73	3.4	76.4	0.04	51.4	9.42	0.15		
9/22/2008		DRY	73	3.4	76.4	0.04	51.6	9.61	0.16		
9/23/2008		DRY	69	3.4	72.4	0.05	51.9	9.49	0.15		
9/24/2008		DRY	65	3.4	68.4	0.05	51.5	8.27	0.14		
9/25/2008		DRY	67	3.4	70.4	0.05	51.4	7.49	0.13		
9/26/2008		DRY	64	3.3	67.3	0.05	51.0	7.64	0.13		
9/27/2008		DRY	62	3.4	65.4	0.05	50.5	7.67	0.13		
9/28/2008		DRY	61	3.4	64.4	0.05	49.7	7.19	0.13		
9/29/2008		DRY	60	3.2	63.2	0.05	48.7	7.24	0.13		
9/30/2008		DRY	60	3.3	63.3	0.05	47.6	7.31	0.13		
10/1/2008		DRY	62	3.4	65.4	0.05	46.6	6.88	0.13	9.98	0.00
10/2/2008		DRY	64	2.7	66.7	0.04	46.5	6.92	0.13	9.35	0.00
10/3/2008		DRY	65	2.8	67.8	0.04	47.0	7.07	0.13	9.39	0.00
10/4/2008		DRY	74	3.4	77.4	0.04	47.3	6.99	0.13	9.79	0.00
10/5/2008		DRY	66	3.4	69.4	0.05	50.7	7.31	0.13	9.98	0.00
10/6/2008		DRY	63	3.4	66.4	0.05	51.1	6.51	0.11	8.90	0.00
10/7/2008	DRY	DRY	63	3.3	66.3	0.05	51.2	7.00	0.12	9.24	0.00
10/8/2008		DRY	62	3.4	65.4	0.05	50.6	7.00	0.12	9.84	0.00
10/9/2008		DRY	63	3.9	66.9	0.06	51.0	7.23	0.12	9.87	0.00
10/10/2008		DRY	67	4.6	71.6	0.06	51.8	7.37	0.12	9.79	0.00
10/11/2008		DRY	64	3.5	67.5	0.05	52.4	7.39	0.12	9.38	0.00
10/12/2008		DRY	60	3.4	63.4	0.05	50.6	7.72	0.13	9.28	0.00
10/13/2008		DRY	62	3.4	65.4	0.05	48.8	5.62	0.10	6.48	0.00
10/14/2008		DRY	62	3.4	65.4	0.05	47.7	6.34	0.12	7.81	0.00
10/15/2008		DRY	63	3.4	66.4	0.05	47.3	6.11	0.11	7.33	0.00
10/16/2008		DRY	63	3.4	66.4	0.05	47.5	6.97	0.13	7.38	0.00
10/17/2008		DRY	64	4	68	0.06	47.6	7.69	0.14	8.90	0.00
10/18/2008		DRY	65	4.6	69.6	0.07	47.9	10.55	0.18	11.39	0.06

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
10/19/2008		DRY	67	4.6	71.6	0.06	47.6	14.65	0.24	11.06	0.32
10/20/2008		DRY	69	4.6	73.6	0.06	48.2	9.99	0.17	9.79	0.01
10/21/2008		DRY	70	4.6	74.6	0.06	48.8	9.31	0.16	10.66	0.00
10/22/2008		DRY	65	4.6	69.6	0.07	48.7	12.74	0.21	9.36	0.22
10/23/2008		DRY	64	4.6	68.6	0.07	47.0	15.60	0.25	8.65	0.37
10/24/2008		DRY	66	4.6	70.6	0.07	47.3	17.03	0.26	9.87	0.42
10/25/2008		DRY	64	4.6	68.6	0.07	47.5	16.00	0.25	8.80	0.38
10/26/2008		DRY	64	4.6	68.6	0.07	47.6	19.00	0.29	9.65	0.48
10/27/2008		DRY	67	3.5	70.5	0.05	47.3	17.87	0.27	9.10	0.45
10/28/2008		DRY	63	3.4	66.4	0.05	47.6	18.09	0.28	8.80	0.45
10/29/2008		DRY	53	3.4	56.4	0.06	31.9	19.54	0.38	9.48	0.49
10/30/2008		WET	55	3.4	58.4	0.06	37.4	21.52	0.37	9.76	0.54
10/31/2008		DRY	59	3.4	62.4	0.05	40.2	25.31	0.39	10.74	0.61
11/1/2008		WET	172	3.4	175.4	0.02	126.3	33.35	0.21	11.33	0.70
11/2/2008		DRY	79	3.6	82.6	0.04	72.8	9.27	0.11	11.05	0.00
11/3/2008		DRY	75	4.6	79.6	0.06	47.8	9.34	0.16	11.08	0.00
11/4/2008		WET	161	4.2	165.2	0.03	174.6	15.17	0.08	11.98	0.35
11/5/2008		WET	70	3.6	73.6	0.05	51.2	10.07	0.16	11.60	0.02
11/6/2008		DRY	66	3.4	69.4	0.05	47.0	10.62	0.18	11.59	0.07
11/7/2008		DRY	71	3.5	74.5	0.05	46.7	10.76	0.19	11.37	0.08
11/8/2008		DRY	70	3.6	73.6	0.05	47.5	10.90	0.19	11.62	0.09
11/9/2008		DRY	70	3.2	73.2	0.04	47.2	11.30	0.19	11.57	0.12
11/10/2008		DRY	65	3.4	68.4	0.05	43.1	11.03	0.20	10.92	0.10
11/11/2008		DRY	68	3.4	71.4	0.05	43.3	11.62	0.21	12.27	0.15
11/12/2008	DRY	DRY	71	3.4	74.4	0.05	43.0	12.37	0.22	12.08	0.20
11/13/2008		DRY	61	3.4	64.4	0.05	42.7	12.65	0.23	11.98	0.22
11/14/2008		DRY	61	3.4	64.4	0.05	41.1	13.21	0.24	11.45	0.25
11/15/2008		DRY	66	3.4	69.4	0.05	39.0	12.30	0.24	9.64	0.20
11/16/2008		DRY	78	3.4	81.4	0.04	41.7	13.15	0.24	10.55	0.25
11/17/2008		DRY	59	3.4	62.4	0.05	35.4	13.86	0.28	10.85	0.29
11/18/2008		WET	65	3.4	68.4	0.05	42.6	15.32	0.26	11.77	0.35
11/19/2008		DRY	60	3.4	63.4	0.05	43.1	14.86	0.26	11.57	0.33
11/20/2008		DRY	75	3.4	78.4	0.04	46.4	14.42	0.24	11.42	0.31
11/21/2008		DRY	83	3.4	86.4	0.04	51.6	14.24	0.22	11.99	0.30
11/22/2008		DRY	73	3.4	76.4	0.04	53.2	13.06	0.20	11.02	0.24
11/23/2008		DRY	78	3.4	81.4	0.04	52.8	13.11	0.20	11.57	0.24
11/24/2008		DRY	82	3.4	85.4	0.04	54.2	12.87	0.19	11.64	0.23
11/25/2008		DRY	81	3.5	84.5	0.04	56.0	54.86	0.49	11.68	0.82
11/26/2008		WET	1450	25	1475	0.02	1729.1	303.39	0.15	13.69	0.97
11/27/2008		WET	134	30	164	0.18	136.2	7.19	0.05	11.23	0.00
11/28/2008		WET	87	17	104	0.16	76.5	6.92	0.08	11.03	0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
11/29/2008		DRY	81	10	91	0.11	65.6	6.42	0.09	10.95	0.00
11/30/2008		DRY	77	7.5	84.5	0.09	61.5	7.22	0.11	11.43	0.00
12/1/2008		DRY	74	6.1	80.1	0.08	58.2	7.91	0.12	12.27	0.00
12/2/2008		DRY	74	5.7	79.7	0.07	57.1	7.78	0.12	11.08	0.00
12/3/2008	DRY	DRY	74	3.9	77.9	0.05	57.0	8.85	0.13	11.94	0.00
12/4/2008		DRY	73	3.4	76.4	0.04	56.2	9.35	0.14	12.30	0.00
12/5/2008		DRY	70	3.4	73.4	0.05	54.6	9.32	0.15	11.50	0.00
12/6/2008		DRY	66	3.4	69.4	0.05	52.9	9.70	0.15	11.77	0.00
12/7/2008		DRY	68	3.4	71.4	0.05	51.6	9.51	0.16	11.25	0.00
12/8/2008		DRY	70	3.4	73.4	0.05	51.4	10.37	0.17	12.07	0.05
12/9/2008	DRY	DRY	67	3.3	70.3	0.05	51.2	10.50	0.17	12.05	0.06
12/10/2008		DRY	61	0.7	61.7	0.01	49.7	10.43	0.17	12.24	0.05
12/11/2008		DRY	63	0.5	63.5	0.01	49.1	9.79	0.17	11.54	0.00
12/12/2008		DRY	65	2.5	67.5	0.04	48.9	9.42	0.16	11.87	0.00
12/13/2008		DRY	62	3.2	65.2	0.05	49.4	8.88	0.15	11.26	0.00
12/14/2008		DRY	60	3.3	63.3	0.05	49.4	8.85	0.15	11.60	0.00
12/15/2008		WET	1870	18	1888	0.01	2164.1	205.76	0.09	13.51	0.95
12/16/2008		WET	158	21	179	0.12	184.7	7.11	0.04	11.77	0.00
12/17/2008		WET	228	18	246	0.07	264.9	49.74	0.16	13.01	0.80
12/18/2008		WET	147	14	161	0.09	137.3	7.31	0.05	12.44	0.00
12/19/2008		WET	96	10	106	0.09	66.5	7.06	0.10	12.72	0.00
12/20/2008		DRY	91	8.5	99.5	0.09	57.4	6.71	0.10	11.84	0.00
12/21/2008		DRY	89	8	97	0.08	54.0	6.97	0.11	11.94	0.00
12/22/2008		WET	364	6.9	370.9	0.02	338.5	10.84	0.03	11.37	0.09
12/23/2008		WET	103	6.1	109.1	0.06	78.3	6.96	0.08	10.86	0.00
12/24/2008		DRY	92	6.1	98.1	0.06	62.9	7.46	0.11	10.43	0.00
12/25/2008		WET	295	5.4	300.4	0.02	313.6	16.29	0.05	10.32	0.39
12/26/2008		WET	129	5.5	134.5	0.04	138.2	7.73	0.05	10.30	0.00
12/27/2008		WET	91	6.1	97.1	0.06	71.1	7.64	0.10	9.89	0.00
12/28/2008		DRY	87	6.1	93.1	0.07	58.6	7.83	0.12	9.96	0.00
12/29/2008		DRY	85	6.1	91.1	0.07	53.5	8.00	0.13	10.23	0.00
12/30/2008		DRY	77	6.1	83.1	0.07	52.4	8.44	0.14	10.24	0.00
12/31/2008		DRY	79	6.1	85.1	0.07	53.0	8.81	0.14	10.63	0.00
1/1/2009		DRY	79	6.1	85.1	0.07	53.2	7.91	0.13	8.99	0.00
1/2/2009		DRY	79	6.1	85.1	0.07	53.6	8.69	0.14	10.17	0.00
1/3/2009		DRY	80	6.1	86.1	0.07	53.7	8.17	0.13	9.38	0.00
1/4/2009		DRY	76	5.3	81.3	0.07	53.5	8.46	0.14	9.18	0.00
1/5/2009		DRY	73	4.6	77.6	0.06	52.1	8.84	0.14	10.01	0.00
1/6/2009		DRY	78	6.3	84.3	0.07	52.1	8.64	0.14	9.69	0.00
1/7/2009	DRY	DRY	77	6.2	83.2	0.07	52.2	9.40	0.15	10.47	0.00
1/8/2009		DRY	79	6.1	85.1	0.07	51.9	9.05	0.15	9.90	0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
1/9/2009		DRY	82	6.5	88.5	0.07	53.0	9.50	0.15	10.38	0.00
1/10/2009		DRY	76	6	82	0.07	53.5	8.89	0.14	9.56	0.00
1/11/2009		DRY	77	5.7	82.7	0.07	52.7	8.90	0.14	9.82	0.00
1/12/2009		DRY	67	7.2	74.2	0.10	52.1	8.82	0.14	9.87	0.00
1/13/2009	DRY	DRY	63	7.8	70.8	0.11	49.5	8.68	0.15	9.69	0.00
1/14/2009		DRY	73	7.5	80.5	0.09	47.9	9.61	0.17	10.00	0.00
1/15/2009		DRY	71	8	79	0.10	47.8	8.93	0.16	9.64	0.00
1/16/2009		DRY	71	8.2	79.2	0.10	47.9	10.09	0.17	10.30	0.02
1/17/2009		DRY	74	8.2	82.2	0.10	47.9	9.53	0.17	9.45	0.00
1/18/2009		DRY	76	8.1	84.1	0.10	47.9	9.66	0.17	9.55	0.00
1/19/2009		DRY	73	8	81	0.10	48.0	9.84	0.17	9.87	0.00
1/20/2009		DRY	77	6.1	83.1	0.07	48.4	10.46	0.18	9.96	0.05
1/21/2009		DRY	73	7.3	80.3	0.09	48.4	10.05	0.17	10.21	0.01
1/22/2009		DRY	93	8.1	101.1	0.08	50.6	11.61	0.19	10.03	0.15
1/23/2009		WET	224	8.5	232.5	0.04	305.0	39.80	0.12	11.31	0.75
1/24/2009		WET	272	8.9	280.9	0.03	331.4	13.73	0.04	11.31	0.28
1/25/2009		WET	80	9.7	89.7	0.11	96.1	10.23	0.10	9.78	0.03
1/26/2009		DRY	75	9.8	84.8	0.12	70.4	11.93	0.14	10.32	0.17
1/27/2009		DRY	82	9.6	91.6	0.10	62.0	9.59	0.13	10.03	0.00
1/28/2009		DRY	80	7.9	87.9	0.09	61.5	9.82	0.14	10.21	0.00
1/29/2009		DRY	81	8	89	0.09	60.6	9.03	0.13	9.10	0.00
1/30/2009		DRY	78	8	86	0.09	60.2	8.60	0.13	8.65	0.00
1/31/2009		DRY	76	8	84	0.10	58.4	9.17	0.14	9.33	0.00
2/1/2009		DRY	77	8	85	0.09	57.1	9.30	0.14	9.21	0.00
2/2/2009		DRY	78	8	86	0.09	56.4	9.19	0.14	8.93	0.00
2/3/2009	DRY	DRY	77	8	85	0.09	56.2	10.01	0.15	9.87	0.01
2/4/2009		DRY	76	6.5	82.5	0.08	56.1	10.11	0.15	9.86	0.02
2/5/2009		WET	1420	6.8	1426.8	0.00	1367.5	280.06	0.17	10.20	0.96
2/6/2009		WET	2110	29	2139	0.01	2198.7	331.07	0.13	11.53	0.97
2/7/2009		WET	1030	60	1090	0.06	871.4	62.81	0.07	10.41	0.84
2/8/2009		WET	227	68	295	0.23	133.5	9.04	0.06	9.73	0.00
2/9/2009		WET	606	65	671	0.10	229.4	51.17	0.18	10.83	0.81
2/10/2009		WET	172	65	237	0.27	119.2	8.45	0.07	10.06	0.00
2/11/2009		DRY	98	62	160	0.39	80.6	8.29	0.09	10.34	0.00
2/12/2009		DRY	85	82	167	0.49	63.7	8.55	0.12	10.00	0.00
2/13/2009		WET	320	108	428	0.25	186.8	29.86	0.14	10.60	0.67
2/14/2009		WET	94	70	164	0.43	122.1	8.61	0.07	10.04	0.00
2/15/2009		DRY	83	49	132	0.37	77.8	8.50	0.10	10.01	0.00
2/16/2009		WET	2600	101	2701	0.04	1789.8	253.44	0.12	11.03	0.96
2/17/2009		WET	495	160	655	0.24	242.0	33.91	0.12	11.26	0.71
2/18/2009		WET	106	167	273	0.61	136.5	8.02	0.06	9.98	0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
2/19/2009		DRY	85	129	214	0.60	102.8	7.30	0.07	9.89	0.00
2/20/2009		DRY	84	74	158	0.47	82.4	7.14	0.08	9.36	0.00
2/21/2009		DRY	75	80	155	0.52	67.6	7.03	0.09	9.08	0.00
2/22/2009		WET	74	82	156	0.53	83.6	10.35	0.11	9.45	0.04
2/23/2009		DRY	75	131	206	0.64	77.6	7.95	0.09	9.31	0.00
2/24/2009		DRY	71	144	215	0.67	73.7	7.95	0.10	9.27	0.00
2/25/2009		DRY	73	109	182	0.60	69.2	6.16	0.08	8.48	0.00
2/26/2009		DRY	75	83	158	0.53	65.5	6.53	0.09	9.70	0.00
2/27/2009		DRY	75	76	151	0.50	62.8	6.76	0.10	9.42	0.00
2/28/2009		DRY	80	67	147	0.46	60.9	6.88	0.10	9.00	0.00
3/1/2009		DRY	77	63	140	0.45	59.5	5.87	0.09	9.30	0.00
3/2/2009		DRY	84	57	141	0.40	58.5	6.07	0.09	10.00	0.00
3/3/2009		DRY	78	52	130	0.40	57.4	6.50	0.10	10.06	0.00
3/4/2009		WET	533	50	583	0.09	505.8	22.36	0.04	10.60	0.56
3/5/2009		WET	96	56	152	0.37	248.7	8.75	0.03	10.92	0.00
3/6/2009		WET	76	47	123	0.38	144.2	9.20	0.06	10.97	0.00
3/7/2009		DRY	73	39	112	0.35	112.6	10.89	0.09	11.05	0.09
3/8/2009		DRY	74	33	107	0.31	94.7	12.61	0.12	10.74	0.21
3/9/2009		DRY	75	29	104	0.28	84.6	14.63	0.15	11.03	0.32
3/10/2009		DRY	74	24	98	0.24	77.4	16.80	0.18	11.11	0.41
3/11/2009		DRY	75	21	96	0.22	72.3	16.37	0.18	9.72	0.40
3/12/2009		DRY	79	19	98	0.19	68.7	9.47	0.12	9.93	0.00
3/13/2009		DRY	81	17	98	0.17	65.3	8.43	0.11	9.55	0.00
3/14/2009		DRY	87	14	101	0.14	63.1	8.64	0.12	9.96	0.00
3/15/2009		DRY	91	10	101	0.10	61.2	9.54	0.13	10.77	0.00
3/16/2009		DRY	92	9.3	101.3	0.09	59.8	8.73	0.13	9.72	0.00
3/17/2009		DRY	94	6.5	100.5	0.06	58.7	9.29	0.14	9.79	0.00
3/18/2009		DRY	91	6.4	97.4	0.07	57.5	8.91	0.13	8.90	0.00
3/19/2009		DRY	93	8	101	0.08	56.5	10.11	0.15	9.72	0.02
3/20/2009		DRY	89	6.7	95.7	0.07	55.6	9.51	0.15	9.04	0.00
3/21/2009		DRY	80	6.5	86.5	0.08	54.1	10.79	0.17	10.37	0.08
3/22/2009		DRY	100	4.6	104.6	0.04	54.7	12.30	0.18	10.21	0.20
3/23/2009		DRY	82	4.2	86.2	0.05	56.6	11.82	0.17	9.75	0.16
3/24/2009		DRY	72	4.4	76.4	0.06	55.2	12.48	0.18	9.64	0.21
3/25/2009		DRY	74	0.59	74.59	0.01	53.9	12.86	0.19	9.95	0.23
3/26/2009		DRY	74	4.5	78.5	0.06	53.2	13.08	0.20	10.85	0.24
3/27/2009		DRY	70	4.7	74.7	0.06	52.3	12.26	0.19	9.50	0.19
3/28/2009		DRY	71	5	76	0.07	51.2	13.41	0.21	10.44	0.26
3/29/2009		DRY	74	5.6	79.6	0.07	50.5	11.63	0.19	8.76	0.15
3/30/2009		DRY	73	4.9	77.9	0.06	50.0	12.38	0.20	9.16	0.20
3/31/2009		DRY	69	6.7	75.7	0.09	49.6	12.91	0.21	8.79	0.23

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
4/1/2009		DRY	70	8.5	78.5	0.11	49.4	13.92	0.22	9.55	0.29
4/2/2009		DRY	74	9.5	83.5	0.11	50.3	12.74	0.20	8.03	0.22
4/3/2009		DRY	72	10	82	0.12	52.9	14.17	0.21	7.75	0.30
4/4/2009		DRY	70	9.6	79.6	0.12	52.2	16.69	0.24	8.85	0.41
4/5/2009		DRY	69	12	81	0.15	51.4	15.25	0.23	7.81	0.35
4/6/2009		DRY	67	11	78	0.14	50.5	15.92	0.24	8.90	0.38
4/7/2009		DRY	64	12	76	0.16	49.9	14.26	0.22	8.71	0.31
4/8/2009		DRY	68	12	80	0.15	50.1	12.42	0.20	8.53	0.20
4/9/2009		DRY	66	12	78	0.15	50.1	12.53	0.20	8.94	0.21
4/10/2009		DRY	66	12	78	0.15	49.9	13.87	0.22	10.07	0.29
4/11/2009		DRY	69	12	81	0.15	49.6	14.28	0.22	9.87	0.31
4/12/2009		DRY	71	7.8	78.8	0.10	49.4	13.76	0.22	8.77	0.28
4/13/2009		DRY	76	4.9	80.9	0.06	49.4	14.23	0.22	9.10	0.30
4/14/2009	DRY	DRY	58	3.8	61.8	0.06	48.9	15.32	0.24	9.31	0.35
4/15/2009		DRY	45	4	49	0.08	46.9	14.53	0.24	8.34	0.32
4/16/2009		DRY	43	3.5	46.5	0.08	44.5	14.20	0.24	8.23	0.30
4/17/2009		DRY	43	1.1	44.1	0.02	42.6	14.73	0.26	8.85	0.33
4/18/2009		DRY	64	0.11	64.11	0.00	42.3	14.32	0.25	8.91	0.31
4/19/2009		DRY	67	0.02	67.02	0.00	42.4	14.00	0.25	8.20	0.29
4/20/2009		DRY	63	0	63	0.00	42.8	13.60	0.24	7.84	0.27
4/21/2009		DRY	62	0	62	0.00	43.5	12.22	0.22	7.86	0.19
4/22/2009		DRY	54	0.18	54.18	0.00	43.3	11.10	0.20	8.40	0.11
4/23/2009		DRY	59	0.69	59.69	0.01	43.2	12.12	0.22	9.19	0.18
4/24/2009		DRY	62	0.95	62.95	0.02	43.2	12.58	0.23	9.56	0.21
4/25/2009		DRY	62	0.15	62.15	0.00	42.7	11.76	0.22	9.22	0.16
4/26/2009		DRY	63	0.05	63.05	0.00	42.7	11.48	0.21	8.99	0.14
4/27/2009		DRY	69	0.17	69.17	0.00	42.7	11.01	0.20	9.08	0.10
4/28/2009		DRY	68	1.8	69.8	0.03	42.7	10.26	0.19	8.34	0.03
4/29/2009		DRY	69	2.9	71.9	0.04	42.7	11.77	0.22	9.90	0.16
4/30/2009		DRY	67	2.7	69.7	0.04	42.7	10.87	0.20	9.50	0.09
5/1/2009		DRY	67	4.3	71.3	0.06	45.4	9.98	0.18	9.10	0.01
5/2/2009		DRY	68	8.4	76.4	0.11	51.0	9.67	0.16	8.96	0.00
5/3/2009		DRY	73	7.8	80.8	0.10	57.0	9.20	0.14	8.83	0.00
5/4/2009		DRY	71	7.5	78.5	0.10	63.6	9.19	0.13	9.04	0.00
5/5/2009	DRY	DRY	71	8	79	0.10	68.7	8.94	0.12	8.85	0.00
5/6/2009		DRY	70	6.9	76.9	0.09	69.0	8.39	0.11	8.80	0.00
5/7/2009		DRY	60	5.6	65.6	0.09	69.0	8.95	0.11	9.02	0.00
5/8/2009		DRY	63	5.6	68.6	0.08	69.0	7.96	0.10	8.42	0.00
5/9/2009		DRY	64	2.4	66.4	0.04	68.4	8.76	0.11	9.08	0.00
5/10/2009		DRY	65	4.6	69.6	0.07	68.3	7.33	0.10	8.29	0.00
5/11/2009		DRY	70	5.5	75.5	0.07	68.3	7.55	0.10	8.68	0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
5/12/2009	DRY	DRY	67	8.1	75.1	0.11	68.3	7.97	0.10	9.70	0.00
5/13/2009		DRY	66	7.4	73.4	0.10	68.3	6.37	0.09	8.45	0.00
5/14/2009		DRY	65	4.6	69.6	0.07	68.3	6.73	0.09	9.28	0.00
5/15/2009		DRY	63	4.9	67.9	0.07	68.3	6.51	0.09	9.42	0.00
5/16/2009		DRY	65	4.3	69.3	0.06	68.3	5.88	0.08	8.85	0.00
5/17/2009		DRY	66	4.3	70.3	0.06	68.3	5.42	0.07	8.59	0.00
5/18/2009		DRY	66	3.7	69.7	0.05	68.3	5.39	0.07	8.82	0.00
5/19/2009		DRY	64	4	68	0.06	68.3	5.48	0.07	9.31	0.00
5/20/2009		DRY	62	4.1	66.1	0.06	68.3	5.15	0.07	9.05	0.00
5/21/2009		DRY	62	4.7	66.7	0.07	68.3	5.13	0.07	9.31	0.00
5/22/2009		DRY	63	3.9	66.9	0.06	67.8	5.34	0.07	9.87	0.00
5/23/2009		DRY	66	0.92	66.92	0.01	67.7	4.69	0.06	8.53	0.00
5/24/2009		DRY	66	0.5	66.5	0.01	67.2	4.51	0.06	8.31	0.00
5/25/2009		DRY	68	0.5	68.5	0.01	67.1	4.52	0.06	8.32	0.00
5/26/2009		DRY	67	0.5	67.5	0.01	67.1	4.98	0.07	8.97	0.00
5/27/2009		DRY	67	0.5	67.5	0.01	67.1	5.30	0.07	9.64	0.00
5/28/2009		DRY	66	0.5	66.5	0.01	67.1	4.92	0.07	8.60	0.00
5/29/2009		DRY	65	0.5	65.5	0.01	67.1	4.80	0.07	8.68	0.00
5/30/2009		DRY	66	0.68	66.68	0.01	66.6	5.28	0.07	9.04	0.00
5/31/2009		DRY	68	4.6	72.6	0.06	53.7	5.57	0.09	9.18	0.00
6/1/2009		DRY	70	4.6	74.6	0.06	41.0	5.49	0.12	8.74	0.00
6/2/2009		DRY	67	4.6	71.6	0.06	40.9	6.64	0.14	9.27	0.00
6/3/2009		DRY	55	4.4	59.4	0.07	45.7	6.84	0.13	9.21	0.00
6/4/2009		DRY	67	4.6	71.6	0.06	60.7	6.49	0.10	9.19	0.00
6/5/2009		DRY	84	4.6	88.6	0.05	85.7	7.77	0.08	9.53	0.00
6/6/2009		DRY	78	4.5	82.5	0.05	50.7	6.57	0.11	9.08	0.00
6/7/2009		DRY	76	5.3	81.3	0.07	51.9	6.59	0.11	8.76	0.00
6/8/2009	DRY	DRY	77	5.1	82.1	0.06	62.4	7.50	0.11	9.79	0.00
6/9/2009		DRY	80	4.6	84.6	0.05	77.4	8.84	0.10	11.14	0.00
6/10/2009		DRY	71	4.6	75.6	0.06	64.3	8.24	0.11	10.64	0.00
6/11/2009		DRY	72	4.5	76.5	0.06	65.9	8.14	0.11	10.32	0.00
6/12/2009		DRY	85	3.7	88.7	0.04	79.2	8.74	0.10	10.68	0.00
6/13/2009		DRY	84	4.6	88.6	0.05	74.9	8.67	0.10	10.72	0.00
6/14/2009		DRY	87	4.6	91.6	0.05	77.4	8.87	0.10	10.52	0.00
6/15/2009		DRY	86	4.6	90.6	0.05	75.4	9.07	0.11	10.58	0.00
6/16/2009		DRY	77	4.6	81.6	0.06	62.5	9.88	0.14	10.44	0.00
6/17/2009		DRY	73	4.6	77.6	0.06	62.4	9.93	0.14	11.20	0.00
6/18/2009		DRY	71	4.6	75.6	0.06	63.5	9.51	0.13	9.36	0.00
6/19/2009		DRY	77	4.8	81.8	0.06	66.4	9.80	0.13	9.53	0.00
6/20/2009		DRY	81	6.1	87.1	0.07	72.0	10.12	0.12	9.19	0.02
6/21/2009		DRY	85	6.1	91.1	0.07	72.3	9.07	0.11	7.95	0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
6/22/2009		DRY	87	6.1	93.1	0.07	72.8	10.88	0.13	9.56	0.09
6/23/2009	DRY	DRY	87	5.9	92.9	0.06	71.2	10.03	0.12	8.25	0.01
6/24/2009		DRY	87	5.8	92.8	0.06	69.1	10.77	0.13	8.73	0.08
6/25/2009		DRY	87	6.1	93.1	0.07	71.3	11.34	0.14	8.74	0.13
6/26/2009		DRY	85	6.1	91.1	0.07	69.9	13.09	0.16	10.85	0.24
6/27/2009		DRY	81	6.1	87.1	0.07	67.3	13.09	0.16	10.47	0.24
6/28/2009		DRY	79	5.4	84.4	0.06	69.2	12.34	0.15	9.92	0.20
6/29/2009		DRY	78	5.3	83.3	0.06	70.5	10.41	0.13	7.57	0.05
6/30/2009		DRY	71	5.2	76.2	0.07	64.8	11.59	0.15	8.11	0.15
7/1/2009		DRY	61	6.1	67.1	0.09	56.0	11.78	0.17	8.05	0.16
7/2/2009		DRY	66	5.6	71.6	0.08	68.5	12.29	0.15	8.42	0.19
7/3/2009		DRY	72	5.1	77.1	0.07	68.3	12.56	0.16	8.32	0.21
7/4/2009		DRY	70	4.6	74.6	0.06	67.8	11.69	0.15	7.40	0.15
7/5/2009		DRY	69	5	74	0.07	65.9	13.43	0.17	8.83	0.26
7/6/2009	DRY	DRY	70	4.6	74.6	0.06	68.4	12.87	0.16	8.31	0.23
7/7/2009		DRY	71	4.6	75.6	0.06	67.1	13.51	0.17	8.74	0.27
7/8/2009		DRY	69	4.6	73.6	0.06	65.6	14.24	0.18	9.47	0.30
7/9/2009		DRY	65	4.6	69.6	0.07	64.6	13.09	0.17	8.32	0.24
7/10/2009		DRY	63	4.3	67.3	0.06	64.7	13.16	0.17	8.29	0.25
7/11/2009		DRY	62	3.4	65.4	0.05	61.6	13.09	0.18	8.01	0.24
7/12/2009		DRY	61	3.4	64.4	0.05	61.8	12.12	0.16	7.27	0.18
7/13/2009		DRY	62	3.4	65.4	0.05	64.9	9.94	0.13	7.55	0.00
7/14/2009		DRY	62	3.4	65.4	0.05	57.4	8.34	0.13	8.32	0.00
7/15/2009		DRY	61	3.4	64.4	0.05	59.8	7.99	0.12	7.67	0.00
7/16/2009		DRY	62	3.4	65.4	0.05	60.1	8.03	0.12	7.46	0.00
7/17/2009		DRY	64	3.4	67.4	0.05	52.7	8.08	0.13	8.01	0.00
7/18/2009		DRY	64	3.4	67.4	0.05	51.6	8.24	0.14	7.75	0.00
7/19/2009		DRY	64	3.5	67.5	0.05	53.1	7.49	0.12	7.38	0.00
7/20/2009		DRY	63	3.4	66.4	0.05	52.7	7.33	0.12	7.72	0.00
7/21/2009		DRY	63	3.4	66.4	0.05	55.6	7.03	0.11	7.60	0.00
7/22/2009		DRY	63	3.4	66.4	0.05	52.6	7.19	0.12	8.15	0.00
7/23/2009		DRY	64	3.4	67.4	0.05	52.7	6.40	0.11	7.67	0.00
7/24/2009		DRY	64	3.4	67.4	0.05	53.5	5.87	0.10	7.32	0.00
7/25/2009		DRY	65	3.4	68.4	0.05	54.5	6.83	0.11	8.53	0.00
7/26/2009		DRY	64	4	68	0.06	53.6	6.16	0.10	8.37	0.00
7/27/2009		DRY	64	3.4	67.4	0.05	54.0	5.29	0.09	7.81	0.00
7/28/2009		DRY	63	3.4	66.4	0.05	55.1	6.36	0.10	8.25	0.00
7/29/2009		DRY	63	3.4	66.4	0.05	56.3	5.69	0.09	8.08	0.00
7/30/2009		DRY	64	3.7	67.7	0.05	59.0	5.47	0.08	8.15	0.00
7/31/2009		DRY	68	4.5	72.5	0.06	61.3	5.67	0.08	8.79	0.00
8/1/2009		DRY	68	4.5	72.5	0.06	61.6	4.87	0.07	7.92	0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
8/2/2009		DRY	70	3.4	73.4	0.05	62.0	4.75	0.07	6.64	0.00
8/3/2009	DRY	DRY	69	3.4	72.4	0.05	62.3	4.93	0.07	8.70	0.00
8/4/2009	DRY	DRY	68	3.4	71.4	0.05	62.4	4.28	0.06	7.64	0.00
8/5/2009		DRY	66	3.4	69.4	0.05	59.9	4.01	0.06	7.26	0.00
8/6/2009		DRY	64	3.4	67.4	0.05	59.2	4.45	0.07	7.86	0.00
8/7/2009		DRY	64	3.4	67.4	0.05	60.3	5.11	0.08	9.00	0.00
8/8/2009		DRY	66	3.4	69.4	0.05	61.1	4.77	0.07	8.03	0.00
8/9/2009		DRY	68	3.4	71.4	0.05	61.9	5.15	0.08	8.29	0.00
8/10/2009		DRY	68	3.4	71.4	0.05	62.2	4.94	0.07	7.78	0.00
8/11/2009		DRY	67	4.3	71.3	0.06	62.4	6.05	0.09	9.13	0.00
8/12/2009		DRY	66	4.6	70.6	0.07	61.7	5.43	0.08	8.49	0.00
8/13/2009		DRY	64	4.6	68.6	0.07	61.3	5.57	0.08	8.63	0.00
8/14/2009		DRY	65	4.6	69.6	0.07	61.4	4.91	0.07	7.66	0.00
8/15/2009		DRY	66	4.4	70.4	0.06	61.5	5.91	0.09	8.76	0.00
8/16/2009		DRY	66	4.3	70.3	0.06	61.4	5.26	0.08	7.84	0.00
8/17/2009		DRY	67	4.3	71.3	0.06	61.5	5.34	0.08	7.89	0.00
8/18/2009		DRY	66	4.5	70.5	0.06	61.5	5.37	0.08	8.08	0.00
8/19/2009		DRY	64	4.6	68.6	0.07	57.6	5.74	0.09	8.48	0.00
8/20/2009		DRY	64	4.6	68.6	0.07	54.9	5.05	0.08	7.55	0.00
8/21/2009		DRY	65	4.6	69.6	0.07	56.8	5.72	0.09	8.39	0.00
8/22/2009		DRY	67	4.6	71.6	0.06	58.7	5.89	0.09	8.18	0.00
8/23/2009		DRY	67	3.4	70.4	0.05	59.5	5.08	0.08	7.67	0.00
8/24/2009		DRY	68	3.4	71.4	0.05	60.5	6.14	0.09	9.11	0.00
8/25/2009		DRY	66	3.4	69.4	0.05	61.0	5.56	0.08	7.78	0.00
8/26/2009		DRY	65	2.4	67.4	0.04	60.9	5.83	0.09	8.08	0.00
8/27/2009		DRY	64	0.53	64.53	0.01	61.2	4.60	0.07	6.71	0.00
8/28/2009		DRY	68	0.5	68.5	0.01	63.9	4.80	0.07	6.54	0.00
8/29/2009		DRY	70	0.5	70.5	0.01	66.0	5.88	0.08	8.09	0.00
8/30/2009		DRY	68	0.5	68.5	0.01	66.0	5.39	0.08	7.38	0.00
8/31/2009		DRY	70	0.74	70.74	0.01	66.8	4.97	0.07	6.82	0.00
9/1/2009		DRY	67	1	68	0.01	66.7	6.03	0.08	8.28	0.00
9/2/2009		DRY	66	3	69	0.04	65.0	5.50	0.08	6.90	0.00
9/3/2009		DRY	64	3.4	67.4	0.05	64.9	6.26	0.09	8.48	0.00
9/4/2009		DRY	67	3.4	70.4	0.05	66.7	5.64	0.08	6.95	0.00
9/5/2009		DRY	70	3.7	73.7	0.05	122.4	6.42	0.05	7.83	0.00
9/6/2009		DRY	71	3.4	74.4	0.05	189.8	5.87	0.03	6.95	0.00
9/7/2009		DRY	72	3.4	75.4	0.05	60.7	5.82	0.09	7.07	0.00
9/8/2009		DRY	68	3.4	71.4	0.05	59.5	6.88	0.10	8.01	0.00
9/9/2009		DRY	68	3.4	71.4	0.05	57.4	6.47	0.10	7.13	0.00
9/10/2009		DRY	66	3.4	69.4	0.05	66.3	7.16	0.10	8.09	0.00
9/11/2009		DRY	65	3.5	68.5	0.05	62.0	6.40	0.09	7.55	0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
9/12/2009		DRY	64	3.8	67.8	0.06	63.4	6.42	0.09	7.41	0.00
9/13/2009		DRY	65	3.2	68.2	0.05	56.6	6.57	0.10	7.86	0.00
9/14/2009	DRY	DRY	64	2.3	66.3	0.03	56.1	6.89	0.11	8.18	0.00
9/15/2009		DRY	65	3.2	68.2	0.05	59.4	7.02	0.11	9.59	0.00
9/16/2009		DRY	66	3.4	69.4	0.05	63.0	6.99	0.10	7.92	0.00
9/17/2009		DRY	65	3.4	68.4	0.05	63.9	6.30	0.09	7.52	0.00
9/18/2009		DRY	63	3.4	66.4	0.05	55.8	5.68	0.09	6.61	0.00
9/19/2009		DRY	60	3.4	63.4	0.05	59.6	6.77	0.10	7.54	0.00
9/20/2009		DRY	60	3.4	63.4	0.05	61.2	6.09	0.09	7.12	0.00
9/21/2009		DRY	61	3.3	64.3	0.05	65.4	6.56	0.09	8.09	0.00
9/22/2009		DRY	57	2.6	59.6	0.04	42.0	6.49	0.13	8.03	0.00
9/23/2009		DRY	52	0.71	52.71	0.01	59.2	7.43	0.11	6.79	0.00
9/24/2009		DRY	54	0.7	54.7	0.01	61.2	9.46	0.13	7.75	0.00
9/25/2009		DRY	56	1.4	57.4	0.02	61.2	7.43	0.11	6.34	0.00
9/26/2009		DRY	57	1.2	58.2	0.02	62.2	9.30	0.13	8.00	0.00
9/27/2009		DRY	58	0.97	58.97	0.02	66.1	7.50	0.10	7.57	0.00
9/28/2009		DRY	60	1	61	0.02	58.0	8.53	0.13	8.94	0.00
9/29/2009		DRY	61	3.1	64.1	0.05	55.3	10.94	0.17	10.17	0.10
9/30/2009		DRY	61	1.2	62.2	0.02	54.8	11.88	0.18	9.96	0.17
10/1/2009		DRY	60	0.5	60.5	0.01	54.1	11.77	0.18	9.67	0.16
10/2/2009		DRY	60	0.5	60.5	0.01	53.0	11.88	0.18	9.86	0.17
10/3/2009		DRY	58	0.5	58.5	0.01	56.0	12.90	0.19	10.95	0.23
10/4/2009		DRY	60	0.68	60.68	0.01	59.8	12.30	0.17	10.54	0.20
10/5/2009		DRY	60	0.62	60.62	0.01	61.6	13.47	0.18	10.91	0.27
10/6/2009		DRY	60	0.5	60.5	0.01	56.0	13.94	0.20	10.69	0.29
10/7/2009		DRY	59	0.79	59.79	0.01	51.2	13.76	0.21	11.08	0.28
10/8/2009		DRY	58	2.1	60.1	0.03	55.1	15.17	0.22	11.56	0.35
10/9/2009		DRY	59	0.83	59.83	0.01	60.0	14.57	0.20	11.57	0.32
10/10/2009		DRY	61	0.86	61.86	0.01	59.6	14.36	0.19	11.14	0.31
10/11/2009		DRY	62	2	64	0.03	64.6	12.83	0.17	11.50	0.23
10/12/2009		DRY	61	3.4	64.4	0.05	71.3	10.87	0.13	10.09	0.09
10/13/2009		WET	308	4	312	0.01	693.5	54.97	0.07	10.92	0.82
10/14/2009		WET	1500	7.3	1507.3	0.00	2077.6	38.27	0.02	11.79	0.74
10/15/2009		WET	280	8	288	0.03	123.8	5.94	0.05	11.03	0.00
10/16/2009		DRY	180	6.6	186.6	0.04	81.8	5.56	0.06	10.44	0.00
10/17/2009		DRY	145	5	150	0.03	79.2	5.42	0.06	9.82	0.00
10/18/2009		DRY	122	4.1	126.1	0.03	77.2	5.94	0.07	9.55	0.00
10/19/2009		DRY	99	3.8	102.8	0.04	76.8	6.66	0.08	9.95	0.00
10/20/2009		DRY	86	3.4	89.4	0.04	79.0	7.32	0.08	10.26	0.00
10/21/2009		DRY	80	3	83	0.04	77.2	7.86	0.09	10.03	0.00
10/22/2009		DRY	75	1.3	76.3	0.02	77.2	8.21	0.10	9.52	0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
10/23/2009		DRY	68	1	69	0.01	75.3	8.93	0.11	9.52	0.00
10/24/2009		DRY	63	1.4	64.4	0.02	74.5	9.76	0.12	9.76	0.00
10/25/2009		DRY	59	1.9	60.9	0.03	74.7	9.92	0.12	9.18	0.00
10/26/2009		DRY	55	0.53	55.53	0.01	71.1	10.81	0.13	9.59	0.08
10/27/2009		DRY	53	0.29	53.29	0.01	71.2	11.52	0.14	9.50	0.14
10/28/2009		DRY	51	0.11	51.11	0.00	67.9	12.35	0.15	10.15	0.20
10/29/2009		DRY	52	0.41	52.41	0.01	68.4	11.83	0.15	9.93	0.16
10/30/2009		DRY	53	0.53	53.53	0.01	69.4	12.09	0.15	10.12	0.18
10/31/2009		DRY	52	0.5	52.5	0.01	71.1	11.85	0.14	9.28	0.16
11/1/2009		DRY	51	0.78	51.78	0.02	72.7	10.28	0.12	7.23	0.04
11/2/2009		DRY	50	0.83	50.83	0.02	75.4	11.66	0.13	8.05	0.15
11/3/2009	DRY	DRY	51	0.89	51.89	0.02	76.8	11.77	0.13	8.49	0.16
11/4/2009		DRY	50	1.5	51.5	0.03	75.3	11.69	0.13	8.53	0.15
11/5/2009		DRY	50	1.9	51.9	0.04	76.1	12.15	0.14	9.10	0.18
11/6/2009		DRY	48	3.2	51.2	0.06	75.9	11.42	0.13	8.36	0.13
11/7/2009		DRY	47	3.4	50.4	0.07	72.3	11.92	0.14	9.05	0.17
11/8/2009		DRY	47	3.4	50.4	0.07	69.9	12.69	0.15	8.91	0.22
11/9/2009		DRY	44	3.4	47.4	0.07	66.2	10.53	0.14	8.66	0.06
11/10/2009		DRY	46	3.4	49.4	0.07	63.3	10.66	0.14	8.94	0.07
11/11/2009		DRY	43	3.4	46.4	0.07	63.3	10.04	0.14	8.20	0.01
11/12/2009		DRY	42	3.4	45.4	0.07	63.3	10.41	0.14	8.63	0.05
11/13/2009		DRY	46	3.2	49.2	0.07	63.3	9.77	0.13	8.17	0.00
11/14/2009		DRY	47	3.4	50.4	0.07	63.3	9.92	0.14	8.94	0.00
11/15/2009		DRY	52	3.4	55.4	0.06	63.3	9.88	0.13	8.87	0.00
11/16/2009	DRY	DRY	50	3.4	53.4	0.06	90.7	9.98	0.10	9.08	0.01
11/17/2009		DRY	55	3.4	58.4	0.06	68.8	10.50	0.13	10.03	0.06
11/18/2009		DRY	56	2.9	58.9	0.05	64.9	10.65	0.14	10.03	0.07
11/19/2009		DRY	57	3.4	60.4	0.06	65.9	9.58	0.13	8.83	0.00
11/20/2009		DRY	56	3.4	59.4	0.06	63.8	9.87	0.13	9.19	0.00
11/21/2009		DRY	58	3.4	61.4	0.06	63.2	9.93	0.14	9.13	0.00
11/22/2009		DRY	53	3.4	56.4	0.06	60.8	9.73	0.14	8.94	0.00
11/23/2009		DRY	55	3.4	58.4	0.06	62.5	8.85	0.12	8.08	0.00
11/24/2009		DRY	55	3.4	58.4	0.06	58.0	8.33	0.13	7.78	0.00
11/25/2009		DRY	55	3.4	58.4	0.06	59.9	8.42	0.12	8.40	0.00
11/26/2009		DRY	61	3.4	64.4	0.05	63.2	9.01	0.12	9.18	0.00
11/27/2009		DRY	60	3.5	63.5	0.06	62.8	8.54	0.12	9.10	0.00
11/28/2009		DRY	59	3.4	62.4	0.05	69.7	8.45	0.11	9.27	0.00
11/29/2009		DRY	60	2.9	62.9	0.05	62.6	8.01	0.11	9.10	0.00
11/30/2009		DRY	59	0.5	59.5	0.01	62.1	8.53	0.12	9.73	0.00
12/1/2009		DRY	48	0.5	48.5	0.01	50.3	8.73	0.15	9.86	0.00
12/2/2009		DRY	55	0.53	55.53	0.01	56.4	8.95	0.14	10.20	0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
12/3/2009		DRY	56	1.2	57.2	0.02	60.9	9.27	0.13	10.43	0.00
12/4/2009		DRY	57	2	59	0.03	59.1	8.79	0.13	9.64	0.00
12/5/2009		DRY	57	3.4	60.4	0.06	60.0	8.95	0.13	9.89	0.00
12/6/2009		DRY	55	3.4	58.4	0.06	58.5	8.85	0.13	9.79	0.00
12/7/2009		WET	722	4.2	726.2	0.01	1141.4	89.66	0.07	11.08	0.89
12/8/2009		WET	44	5.5	49.5	0.11	58.5	8.76	0.13	10.68	0.00
12/9/2009		DRY	52	6.1	58.1	0.10	55.9	9.02	0.14	10.47	0.00
12/10/2009		WET	63	5.1	68.1	0.07	77.7	19.96	0.20	11.16	0.50
12/11/2009		WET	662	13	675	0.02	916.5	73.83	0.07	11.93	0.87
12/12/2009		WET	1410	25	1435	0.02	1943.3	183.98	0.09	11.88	0.95
12/13/2009		WET	258	184	442	0.42	672.5	31.86	0.05	10.78	0.69
12/14/2009		WET	73	72	145	0.50	192.2	6.92	0.03	10.95	0.00
12/15/2009		DRY	61	125	186	0.67	265.8	7.13	0.03	10.43	0.00
12/16/2009		WET	57	71	128	0.55	163.6	5.41	0.03	8.42	0.00
12/17/2009		WET	56	33	89	0.37	93.1	7.61	0.08	10.92	0.00
12/18/2009		DRY	57	24	81	0.30	65.4	8.15	0.11	10.71	0.00
12/19/2009		DRY	52	20	72	0.28	59.8	7.93	0.12	10.12	0.00
12/20/2009		DRY	53	18	71	0.25	60.8	7.75	0.11	10.06	0.00
12/21/2009		DRY	52	16	68	0.24	59.0	8.77	0.13	10.80	0.00
12/22/2009		DRY	50	14	64	0.22	57.2	9.21	0.14	10.77	0.00
12/23/2009		DRY	50	13	63	0.21	56.4	9.11	0.14	10.38	0.00
12/24/2009		DRY	51	12	63	0.19	54.6	9.46	0.15	9.90	0.00
12/25/2009		DRY	46	12	58	0.21	49.0	8.84	0.15	9.10	0.00
12/26/2009		DRY	56	9.8	65.8	0.15	56.3	8.95	0.14	9.81	0.00
12/27/2009		DRY	59	10	69	0.14	59.1	9.16	0.13	10.00	0.00
12/28/2009		DRY	58	9.7	67.7	0.14	60.0	9.52	0.14	10.18	0.00
12/29/2009		DRY	57	9.7	66.7	0.15	57.2	9.50	0.14	9.96	0.00
12/30/2009		WET	97	9.7	106.7	0.09	101.1	14.99	0.13	11.12	0.34
12/31/2009		DRY	66	11	77	0.14	77.2	9.97	0.11	10.40	0.01
1/1/2010		DRY	61	11	72	0.15	63.0	8.82	0.12	9.44	0.00
1/2/2010		DRY	57	9.7	66.7	0.15	56.6	8.94	0.14	9.56	0.00
1/3/2010		DRY	59	9	68	0.13	59.8	8.82	0.13	9.70	0.00
1/4/2010		DRY	72	8	80	0.10	65.2	9.04	0.12	10.20	0.00
1/5/2010	DRY	DRY	64	8.1	72.1	0.11	68.3	8.75	0.11	10.10	0.00
1/6/2010		DRY	63	8	71	0.11	62.1	8.24	0.12	9.82	0.00
1/7/2010		DRY	63	8.1	71.1	0.11	59.8	8.72	0.13	10.54	0.00
1/8/2010		DRY	66	8	74	0.11	66.8	7.60	0.10	9.38	0.00
1/9/2010		DRY	62	8	70	0.11	60.7	7.89	0.12	9.52	0.00
1/10/2010		DRY	64	8	72	0.11	61.7	7.01	0.10	8.57	0.00
1/11/2010		DRY	65	8	73	0.11	62.5	8.00	0.11	9.84	0.00
1/12/2010		DRY	67	8.9	75.9	0.12	64.8	7.54	0.10	9.38	0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
1/13/2010		WET	126	9.7	135.7	0.07	106.9	11.90	0.10	10.26	0.17
1/14/2010		DRY	66	9.7	75.7	0.13	66.6	7.90	0.11	10.41	0.00
1/15/2010		DRY	70	9.7	79.7	0.12	66.5	7.95	0.11	10.26	0.00
1/16/2010		DRY	66	9.8	75.8	0.13	64.1	8.80	0.12	11.16	0.00
1/17/2010		WET	335	11	346	0.03	210.7	26.63	0.11	11.28	0.63
1/18/2010		WET	3140	369	3509	0.11	3899.7	337.84	0.08	12.80	0.97
1/19/2010		WET	1410	432	1842	0.23	2156.6	127.16	0.06	11.94	0.92
1/20/2010		DRY	3560	315	3875	0.08	4495.2	293.78	0.06	12.70	0.97
1/21/2010		WET	1880	389	2269	0.17	2897.1	117.80	0.04	10.95	0.92
1/22/2010		WET	737	132	869	0.15	1410.0	58.75	0.04	11.14	0.83
1/23/2010		WET	210	0	210	0.00	332.8	6.45	0.02	9.70	0.00
1/24/2010		WET	150	0	150	0.00	112.8	4.42	0.04	8.90	0.00
1/25/2010		DRY	110	0	110	0.00	88.4	4.84	0.05	9.92	0.00
1/26/2010		DRY	94	117	211	0.55	91.6	8.40	0.08	9.25	0.00
1/27/2010		DRY	88	140	228	0.61	95.0	6.66	0.07	9.07	0.00
1/28/2010		DRY	84	65	149	0.44	77.3	1.68	0.02	5.85	0.00
1/29/2010		DRY	78	62	140	0.44	77.1	4.14	0.05	9.35	0.00
1/30/2010		DRY	75	62	137	0.45	71.9	4.64	0.06	9.28	0.00
1/31/2010		DRY	74	63	137	0.46	71.9	5.54	0.07	11.36	0.00
2/1/2010		DRY	71	147	218	0.67	70.0	9.72	0.12	11.20	0.00
2/2/2010	DRY	DRY	72	195	267	0.73	70.6	11.66	0.14	11.85	0.15
2/3/2010		WET	70	228	298	0.77	86.5	12.36	0.13	11.26	0.20
2/4/2010		WET	65	125	190	0.66	159.5	12.80	0.07	11.22	0.23
2/5/2010		WET	844	0.5	844.5	0.00	962.6	56.39	0.06	10.51	0.82
2/6/2010		WET	2890	299	3189	0.09	4008.2	530.15	0.12	10.74	0.98
2/7/2010		WET	123	435	558	0.78	754.1	11.91	0.02	9.07	0.17
2/8/2010		WET	101	243	344	0.71	507.9	9.01	0.02	8.59	0.00
2/9/2010		WET	325	63	388	0.16	585.0	108.73	0.16	8.93	0.91
2/10/2010		WET	86	182	268	0.68	172.3	11.19	0.06	9.45	0.12
2/11/2010		WET	78	131	209	0.63	89.4	9.32	0.09	9.41	0.00
2/12/2010		DRY	74	0.15	74.15	0.00	84.3	9.00	0.10	9.67	0.00
2/13/2010		DRY	73	87	160	0.54	78.6	8.72	0.10	9.21	0.00
2/14/2010		DRY	71	165	236	0.70	76.5	8.66	0.10	8.65	0.00
2/15/2010		DRY	69	132	201	0.66	74.7	8.90	0.11	8.87	0.00
2/16/2010		DRY	73	196	269	0.73	74.2	10.52	0.12	10.43	0.06
2/17/2010		DRY	71	166	237	0.70	75.2	10.46	0.12	9.73	0.05
2/18/2010		DRY	78	155	233	0.67	76.0	10.12	0.12	9.70	0.02
2/19/2010		WET	141	129	270	0.48	167.4	17.84	0.10	9.73	0.44
2/20/2010		WET	165	124	289	0.43	423.7	15.68	0.04	9.82	0.37
2/21/2010		WET	76	82	158	0.52	87.4	10.35	0.11	9.89	0.04
2/22/2010		DRY	74	78	152	0.51	77.6	11.26	0.13	9.69	0.12

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
2/23/2010		DRY	70	3.7	73.7	0.05	72.0	11.47	0.14	10.23	0.14
2/24/2010		DRY	81	4.6	85.6	0.05	71.2	10.70	0.13	10.32	0.07
2/25/2010		WET	87	4.7	91.7	0.05	88.4	11.19	0.11	10.46	0.11
2/26/2010		DRY	77	41	118	0.35	82.2	10.71	0.12	9.98	0.08
2/27/2010		WET	1840	49	1889	0.03	2278.0	314.11	0.12	11.33	0.97
2/28/2010		WET	106	325	431	0.75	275.7	10.03	0.04	10.80	0.01
3/1/2010		WET	78	262	340	0.77	103.6	9.26	0.08	9.44	0.00
3/2/2010		DRY	81	133	214	0.62	88.9	9.56	0.10	9.31	0.00
3/3/2010		DRY	104	5.4	109.4	0.05	85.5	9.93	0.10	9.27	0.00
3/4/2010		WET	140	4.2	144.2	0.03	371.7	14.60	0.04	9.41	0.32
3/5/2010		WET	72	78	150	0.52	90.3	9.11	0.09	9.50	0.00
3/6/2010		WET	487	184	671	0.27	691.3	127.86	0.16	10.44	0.92
3/7/2010		WET	130	43	173	0.25	429.5	13.93	0.03	10.23	0.29
3/8/2010		WET	77	0	77	0.00	113.2	10.00	0.08	10.34	0.01
3/9/2010		DRY	75	0.07	75.07	0.00	90.1	7.17	0.07	6.31	0.00
3/10/2010		DRY	74	0	74	0.00	79.8	10.14	0.11	10.74	0.02
3/11/2010		DRY	72	0.29	72.29	0.00	74.8	9.63	0.11	10.23	0.00
3/12/2010		DRY	77	0.28	77.28	0.00	72.9	9.26	0.11	9.50	0.00
3/13/2010		DRY	76	0.24	76.24	0.00	72.9	8.73	0.11	9.02	0.00
3/14/2010		DRY	74	0.41	74.41	0.01	73.5	8.82	0.11	9.45	0.00
3/15/2010		DRY	73	0.39	73.39	0.01	73.5	8.78	0.11	9.22	0.00
3/16/2010		DRY	72	0.33	72.33	0.00	73.5	8.20	0.10	8.56	0.00
3/17/2010		DRY	68	0.5	68.5	0.01	73.3	7.59	0.09	7.30	0.00
3/18/2010		DRY	77	2.7	79.7	0.03	73.1	8.28	0.10	8.66	0.00
3/19/2010		DRY	77	3.2	80.2	0.04	77.1	9.35	0.11	9.18	0.00
3/20/2010		DRY	72	2.9	74.9	0.04	77.0	9.32	0.11	9.22	0.00
3/21/2010		DRY	69	3.3	72.3	0.05	76.1	9.03	0.11	9.44	0.00
3/22/2010		DRY	74	1.6	75.6	0.02	74.2	10.41	0.12	9.96	0.05
3/23/2010		DRY	75	1.9	76.9	0.02	74.5	10.61	0.12	9.35	0.07
3/24/2010		DRY	72	3.4	75.4	0.05	74.4	9.87	0.12	9.36	0.00
3/25/2010		DRY	73	2.4	75.4	0.03	73.5	7.66	0.09	9.00	0.00
3/26/2010		DRY	75	1.8	76.8	0.02	74.2	9.71	0.12	9.75	0.00
3/27/2010		DRY	70	2	72	0.03	73.4	9.90	0.12	9.67	0.00
3/28/2010		DRY	69	2.4	71.4	0.03	72.5	9.06	0.11	8.45	0.00
3/29/2010		DRY	68	2.4	70.4	0.03	72.2	8.45	0.10	8.57	0.00
3/30/2010		DRY	71	3.4	74.4	0.05	72.3	9.58	0.12	9.39	0.00
3/31/2010		DRY	68	52	120	0.43	73.1	18.90	0.21	9.50	0.48
4/1/2010		DRY	70	71	141	0.50	73.6	24.03	0.25	8.54	0.59
4/2/2010		DRY	66	3.7	69.7	0.05	73.4	24.55	0.25	8.57	0.60
4/3/2010		DRY	66	4.1	70.1	0.06	73.0	24.56	0.25	8.90	0.60
4/4/2010		DRY	72	4.1	76.1	0.05	72.9	23.91	0.25	8.73	0.59

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
4/5/2010		WET	654	3.3	657.3	0.01	1035.4	93.07	0.08	10.23	0.89
4/6/2010		WET	80	0	80	0.00	143.9	20.99	0.13	9.73	0.53
4/7/2010		DRY	66	0.09	66.09	0.00	99.6	20.48	0.17	9.61	0.52
4/8/2010		DRY	64	0.35	64.35	0.01	85.2	21.02	0.20	9.25	0.53
4/9/2010		DRY	69	0.83	69.83	0.01	80.0	21.56	0.21	9.47	0.54
4/10/2010		DRY	70	2.7	72.7	0.04	78.0	22.04	0.22	9.14	0.55
4/11/2010		WET	86	3.9	89.9	0.04	174.9	145.22	0.45	9.39	0.93
4/12/2010		WET	898	128	1026	0.12	1281.4	86.30	0.06	12.32	0.89
4/13/2010		WET	69	53	122	0.43	129.5	21.41	0.14	11.06	0.54
4/14/2010		DRY	65	5.6	70.6	0.08	89.4	21.84	0.20	11.08	0.55
4/15/2010		WET	65	3.1	68.1	0.05	82.8	22.63	0.21	10.94	0.56
4/16/2010		DRY	72	3.9	75.9	0.05	79.6	22.33	0.22	10.49	0.56
4/17/2010		DRY	76	3.9	79.9	0.05	78.1	24.04	0.24	11.16	0.59
4/18/2010		DRY	77	4.3	81.3	0.05	76.4	24.22	0.24	10.92	0.59
4/19/2010		DRY	63	65	128	0.51	73.8	24.84	0.25	10.82	0.60
4/20/2010		DRY	84	98	182	0.54	71.8	37.00	0.34	11.70	0.73
4/21/2010		DRY	54	140	194	0.72	71.2	28.85	0.29	12.04	0.66
4/22/2010		DRY	71	120	191	0.63	67.7	26.23	0.28	11.94	0.62
4/23/2010		DRY	68	108	176	0.61	67.1	26.84	0.29	11.70	0.63
4/24/2010		DRY	64	101	165	0.61	66.0	26.82	0.29	11.48	0.63
4/25/2010		DRY	69	103	172	0.60	65.2	27.67	0.30	11.36	0.64
4/26/2010		DRY	73	111	184	0.60	65.2	28.14	0.30	12.56	0.65
4/27/2010		DRY	70	112	182	0.62	65.4	28.30	0.30	10.58	0.65
4/28/2010		DRY	76	115	191	0.60	69.5	29.24	0.30	10.17	0.66
4/29/2010		DRY	61	68	129	0.53	71.1	30.00	0.30	10.46	0.67
4/30/2010		DRY	66	38	104	0.37	70.0	30.54	0.30	10.27	0.68
5/1/2010		DRY	68	66	134	0.49	68.5	29.84	0.30	9.24	0.67
5/2/2010		DRY	69	67	136	0.49	66.1	32.84	0.33	10.35	0.70
5/3/2010		DRY	73	70	143	0.49	64.3	31.75	0.33	9.42	0.69
5/4/2010	DRY	DRY	69	63	132	0.48	63.0	34.64	0.35	10.17	0.71
5/5/2010		DRY	66	59	125	0.47	65.5	34.32	0.34	9.45	0.71
5/6/2010		DRY	66	58	124	0.47	64.9	31.01	0.32	9.73	0.68
5/7/2010		DRY	63	55	118	0.47	63.8	27.52	0.30	10.03	0.64
5/8/2010		DRY	61	56	117	0.48	63.5	30.03	0.32	9.35	0.67
5/9/2010		DRY	62	55	117	0.47	63.2	34.76	0.35	10.12	0.72
5/10/2010	DRY	DRY	66	52	118	0.44	63.5	34.05	0.35	9.11	0.71
5/11/2010		DRY	66	46	112	0.41	63.9	32.59	0.34	8.79	0.70
5/12/2010		WET	66	44	110	0.40	63.8	34.51	0.35	9.16	0.71
5/13/2010		DRY	66	43	109	0.39	64.1	37.34	0.37	10.97	0.73
5/14/2010		DRY	67	40	107	0.37	64.5	33.85	0.34	10.06	0.71
5/15/2010		DRY	65	39	104	0.38	64.0	31.49	0.33	9.27	0.69

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
5/16/2010		DRY	68	38	106	0.36	64.6	32.02	0.33	10.58	0.69
5/17/2010		DRY	69	39	108	0.36	65.1	26.23	0.29	7.75	0.62
5/18/2010		DRY	78	41	119	0.34	66.4	30.75	0.32	11.37	0.68
5/19/2010		DRY	71	42	113	0.37	67.9	26.77	0.28	9.98	0.63
5/20/2010		DRY	67	40	107	0.37	67.5	29.17	0.30	9.69	0.66
5/21/2010		DRY	66	39	105	0.37	67.0	27.81	0.29	10.21	0.64
5/22/2010		DRY	64	39	103	0.38	66.7	28.89	0.30	9.33	0.66
5/23/2010		DRY	64	38	102	0.37	66.1	27.81	0.30	9.79	0.64
5/24/2010		DRY	66	37	103	0.36	65.9	28.89	0.30	11.05	0.66
5/25/2010		DRY	63	35	98	0.36	65.1	27.81	0.30	13.57	0.64
5/26/2010		DRY	63	35	98	0.36	63.9	28.89	0.31	11.68	0.66
5/27/2010		DRY	70	36	106	0.34	63.9	27.81	0.30	10.46	0.64
5/28/2010		DRY	66	38	104	0.37	64.0	28.89	0.31	12.24	0.66
5/29/2010		DRY	62	37	99	0.37	62.2	27.81	0.31	10.09	0.64
5/30/2010		DRY	66	34	100	0.34	61.8	29.02	0.32	11.68	0.66
5/31/2010		DRY	66	35	101	0.35	61.3	28.36	0.32	9.56	0.65
6/1/2010		DRY	69	37	106	0.35	61.5	18.23	0.23	10.97	0.46
6/2/2010		DRY	63	37	100	0.37	60.5	11.05	0.15	10.37	0.10
6/3/2010		DRY	61	38	99	0.38	60.2	11.50	0.16	10.85	0.14
6/4/2010		DRY	62	37	99	0.37	60.2	11.39	0.16	11.08	0.13
6/5/2010		DRY	62	35	97	0.36	59.6	10.96	0.16	10.63	0.10
6/6/2010		DRY	58	35	93	0.38	58.8	10.76	0.15	10.89	0.08
6/7/2010	DRY	DRY	59	34	93	0.37	58.1	10.62	0.15	11.17	0.07
6/8/2010		DRY	60	32	92	0.35	57.9	10.23	0.15	9.92	0.03
6/9/2010		DRY	59	31	90	0.34	57.6	10.84	0.16	11.81	0.09
6/10/2010		DRY	59	30	89	0.34	57.1	10.97	0.16	11.06	0.10
6/11/2010		DRY	59	31	90	0.34	57.2	11.53	0.17	10.91	0.14
6/12/2010		DRY	58	29	87	0.33	56.7	11.86	0.17	10.94	0.17
6/13/2010		DRY	60	29	89	0.33	56.9	12.07	0.17	11.20	0.18
6/14/2010		DRY	63	29	92	0.32	57.2	11.47	0.17	10.66	0.14
6/15/2010		DRY	59	28	87	0.32	57.7	12.12	0.17	11.17	0.18
6/16/2010		DRY	59	27	86	0.31	57.8	11.48	0.17	10.72	0.14
6/17/2010		DRY	59	26	85	0.31	57.7	12.15	0.17	11.22	0.18
6/18/2010		DRY	59	21	80	0.26	57.9	12.10	0.17	10.74	0.18
6/19/2010		DRY	56	21	77	0.27	57.3	11.55	0.17	10.10	0.14
6/20/2010		DRY	57	21	78	0.27	57.5	12.14	0.17	10.78	0.18
6/21/2010		DRY	59	20	79	0.25	57.0	11.67	0.17	10.77	0.15
6/22/2010		DRY	56	16	72	0.22	59.9	11.93	0.17	11.11	0.17
6/23/2010		DRY	54	13	67	0.19	56.4	11.85	0.17	11.53	0.16
6/24/2010		DRY	56	11	67	0.16	56.1	9.93	0.15	9.86	0.00
6/25/2010		DRY	59	9.4	68.4	0.14	56.3	9.52	0.14	9.04	0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
6/26/2010		DRY	57	8.2	65.2	0.13	56.3	9.14	0.14	8.94	0.00
6/27/2010		DRY	59	7.8	66.8	0.12	56.4	9.63	0.15	9.59	0.00
6/28/2010		DRY	56	7.7	63.7	0.12	61.1	9.71	0.14	9.87	0.00
6/29/2010		DRY	56	6.9	62.9	0.11	60.6	10.89	0.15	9.82	0.09
6/30/2010		DRY	56	6.5	62.5	0.10	49.4	11.75	0.19	9.69	0.16
7/1/2010		DRY	55	6.8	61.8	0.11	48.0	12.74	0.21	10.60	0.22
7/2/2010		DRY	54	6.4	60.4	0.11	48.0	8.78	0.15	7.52	0.00
7/3/2010		DRY	53	6.1	59.1	0.10	47.2	10.93	0.19	9.22	0.09
7/4/2010		DRY	54	7.2	61.2	0.12	46.8	11.41	0.20	9.86	0.13
7/5/2010		DRY	56	6.1	62.1	0.10	46.4	11.16	0.19	9.44	0.11
7/6/2010		DRY	58	2.5	60.5	0.04	46.3	11.13	0.19	9.27	0.11
7/7/2010		DRY	61	0	61	0.00	47.8	11.63	0.20	9.82	0.15
7/8/2010		DRY	64	0	64	0.00	49.2	12.10	0.20	10.26	0.18
7/9/2010		DRY	65	0	65	0.00	51.5	11.85	0.19	9.82	0.16
7/10/2010		DRY	62	0	62	0.00	51.9	11.60	0.18	9.72	0.15
7/11/2010		DRY	61	0	61	0.00	51.4	11.33	0.18	9.75	0.13
7/12/2010		DRY	64	0	64	0.00	51.8	11.09	0.18	9.75	0.11
7/13/2010		DRY	62	0	62	0.00	51.7	11.98	0.19	10.46	0.17
7/14/2010		DRY	59	0	59	0.00	51.7	10.16	0.16	8.48	0.03
7/15/2010	DRY	DRY	55	0	55	0.00	51.0	10.63	0.17	8.83	0.07
7/16/2010		DRY	55	0	55	0.00	51.2	11.37	0.18	9.48	0.13
7/17/2010		DRY	54	0	54	0.00	51.6	10.88	0.17	9.16	0.09
7/18/2010		DRY	54	0	54	0.00	51.4	11.38	0.18	9.41	0.13
7/19/2010	DRY	DRY	54	0	54	0.00	51.1	11.55	0.18	9.36	0.14
7/20/2010		DRY	54	0	54	0.00	51.2	12.44	0.20	10.23	0.20
7/21/2010		DRY	56	0	56	0.00	52.1	12.18	0.19	9.90	0.19
7/22/2010		DRY	32	0	32	0.00	42.8	13.39	0.24	9.70	0.26
7/23/2010		DRY	53	0	53	0.00	43.9	12.93	0.23	10.34	0.23
7/24/2010		DRY	57	0	57	0.00	48.5	11.21	0.19	9.64	0.12
7/25/2010		DRY	59	0	59	0.00	51.0	10.99	0.18	9.52	0.10
7/26/2010		DRY	60	0	60	0.00	52.6	11.23	0.18	11.26	0.12
7/27/2010		DRY	60	0	60	0.00	52.8	9.54	0.15	9.70	0.00
7/28/2010		DRY	63	0	63	0.00	53.6	8.73	0.14	8.20	0.00
7/29/2010		DRY	62	0	62	0.00	54.6	10.01	0.15	9.95	0.01
7/30/2010		DRY	61	0	61	0.00	55.1	10.04	0.15	10.38	0.01
7/31/2010		DRY	59	0	59	0.00	54.2	11.45	0.17	8.60	0.13
8/1/2010		DRY	62	0	62	0.00	54.4	13.22	0.20	9.65	0.25
8/2/2010		DRY	56	0	56	0.00	54.3	10.90	0.17	9.86	0.09
8/3/2010	DRY	DRY	56	0	56	0.00	53.6	10.93	0.17	9.62	0.09
8/4/2010		DRY	56	0	56	0.00	53.0	11.31	0.18	9.81	0.12
8/5/2010		DRY	58	0	58	0.00	52.4	11.37	0.18	9.44	0.13

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
8/6/2010		DRY	59	0	59	0.00	52.8	11.79	0.18	9.95	0.16
8/7/2010		DRY	56	0	56	0.00	52.4	11.59	0.18	10.37	0.15
8/8/2010		DRY	57	0	57	0.00	52.3	11.28	0.18	9.62	0.12
8/9/2010		DRY	57	0	57	0.00	52.5	10.86	0.17	8.93	0.09
8/10/2010		DRY	57	0	57	0.00	52.1	11.38	0.18	9.50	0.13
8/11/2010		DRY	58	0	58	0.00	51.9	11.79	0.19	9.36	0.16
8/12/2010		DRY	59	0	59	0.00	51.8	12.09	0.19	9.75	0.18
8/13/2010		DRY	60	0	60	0.00	52.1	11.16	0.18	8.82	0.11
8/14/2010		DRY	58	0	58	0.00	51.8	13.15	0.20	11.03	0.25
8/15/2010		DRY	58	0	58	0.00	51.7	12.51	0.19	10.01	0.21
8/16/2010		DRY	57	0	57	0.00	51.7	11.20	0.18	8.83	0.12
8/17/2010		DRY	53	0	53	0.00	51.2	12.61	0.20	10.77	0.21
8/18/2010		DRY	56	0	56	0.00	51.0	12.73	0.20	10.24	0.22
8/19/2010		DRY	58	0	58	0.00	50.9	11.70	0.19	9.87	0.15
8/20/2010		DRY	59	0	59	0.00	51.2	11.99	0.19	9.76	0.17
8/21/2010		DRY	56	0	56	0.00	50.9	12.18	0.19	9.93	0.19
8/22/2010		DRY	56	0	56	0.00	50.8	11.67	0.19	9.48	0.15
8/23/2010	DRY	DRY	54	0	54	0.00	50.7	12.85	0.20	10.80	0.23
8/24/2010		DRY	54	0	54	0.00	50.7	12.10	0.19	10.06	0.18
8/25/2010		DRY	56	0	56	0.00	50.8	11.13	0.18	9.02	0.11
8/26/2010		DRY	56	0	56	0.00	51.0	11.84	0.19	9.56	0.16
8/27/2010		DRY	55	0	55	0.00	51.0	12.51	0.20	10.12	0.21
8/28/2010		DRY	51	0	51	0.00	50.7	11.64	0.19	9.19	0.15
8/29/2010		DRY	48	0	48	0.00	50.2	11.81	0.19	9.47	0.16
8/30/2010		DRY	51	0	51	0.00	50.0	12.25	0.20	9.72	0.19
8/31/2010		DRY	55	0	55	0.00	49.6	14.39	0.22	9.35	0.31
9/1/2010		DRY	56	0	56	0.00	50.1	13.76	0.22	10.10	0.28
9/2/2010		DRY	55	0	55	0.00	51.3	12.82	0.20	9.39	0.23
9/3/2010		DRY	54	0	54	0.00	52.4	12.66	0.19	9.10	0.22
9/4/2010		DRY	55	0	55	0.00	53.7	14.88	0.22	9.69	0.33
9/5/2010		DRY	55	0	55	0.00	55.0	13.09	0.19	8.31	0.24
9/6/2010		DRY	56	0	56	0.00	56.2	10.84	0.16	7.84	0.09
9/7/2010		DRY	59	0	59	0.00	61.3	13.16	0.18	10.80	0.25
9/8/2010		DRY	61	0	61	0.00	67.6	12.96	0.16	10.77	0.24
9/9/2010		DRY	60	0	60	0.00	66.5	12.15	0.15	10.20	0.19
9/10/2010		DRY	60	0	60	0.00	65.2	10.82	0.14	9.67	0.09
9/11/2010		DRY	56	0	56	0.00	63.8	10.99	0.15	9.86	0.10
9/12/2010		DRY	58	0	58	0.00	62.5	10.27	0.14	9.22	0.04
9/13/2010		DRY	56	0	56	0.00	61.1	10.34	0.14	9.78	0.04
9/14/2010		DRY	55	0	55	0.00	59.5	9.58	0.14	9.13	0.00
9/15/2010		DRY	53	0	53	0.00	58.1	9.42	0.14	9.21	0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
9/16/2010		DRY	57	0	57	0.00	57.3	10.07	0.15	10.01	0.02
9/17/2010		DRY	60	0	60	0.00	57.2	9.34	0.14	8.93	0.00
9/18/2010		DRY	58	0	58	0.00	57.0	10.37	0.15	9.75	0.05
9/19/2010		DRY	58	0	58	0.00	57.1	9.15	0.14	8.56	0.00
9/20/2010	DRY	DRY	60	0	60	0.00	57.1	9.50	0.14	8.80	0.00
9/21/2010		DRY	60	9.1	69.1	0.13	57.1	9.81	0.15	9.00	0.00
9/22/2010		DRY	59	6.2	65.2	0.10	57.1	9.48	0.14	8.88	0.00
9/23/2010		DRY	58	2.4	60.4	0.04	57.0	10.34	0.15	10.35	0.04
9/24/2010		DRY	60	1.9	61.9	0.03	56.9	10.35	0.15	9.59	0.04
9/25/2010		DRY	55	1.5	56.5	0.03	56.7	9.80	0.15	8.12	0.00
9/26/2010		DRY	56	1.3	57.3	0.02	56.6	9.50	0.14	7.50	0.00
9/27/2010		DRY	53	1.1	54.1	0.02	56.5	10.01	0.15	7.74	0.01
9/28/2010		DRY	54	0.95	54.95	0.02	56.3	9.82	0.15	7.81	0.00
9/29/2010		DRY	55	0.89	55.89	0.02	56.3	9.85	0.15	8.99	0.00
9/30/2010		DRY	56	0.82	56.82	0.01	56.5	14.20	0.20	8.43	0.30
10/1/2010		DRY	54	0.79	54.79	0.01	56.1	20.72	0.27	9.76	0.52
10/2/2010		DRY	54	0.82	54.82	0.01	56.1	21.75	0.28	10.80	0.54
10/3/2010		DRY	56	0.82	56.82	0.01	56.0	22.32	0.28	11.12	0.56
10/4/2010		DRY	62	0.82	62.82	0.01	57.3	26.45	0.32	11.03	0.63
10/5/2010		WET	68	0.95	68.95	0.01	66.2	21.39	0.24	11.90	0.54
10/6/2010		WET	349	2.1	351.1	0.01	712.7	75.61	0.10	11.11	0.87
10/7/2010		WET	75	4.9	79.9	0.06	118.2	19.52	0.14	10.69	0.49
10/8/2010		DRY	65	4.4	69.4	0.06	64.1	18.80	0.23	9.07	0.47
10/9/2010		DRY	58	3.4	61.4	0.06	60.8	19.37	0.24	10.27	0.49
10/10/2010		DRY	57	1.9	58.9	0.03	57.8	19.77	0.25	10.03	0.50
10/11/2010		DRY	57	0	57	0.00	54.6	21.14	0.28	10.68	0.53
10/12/2010		DRY	58	0	58	0.00	57.3	20.91	0.27	9.56	0.53
10/13/2010		DRY	60	0	60	0.00	57.2	22.87	0.29	10.61	0.57
10/14/2010		DRY	55	0	55	0.00	55.1	24.27	0.31	10.91	0.59
10/15/2010		DRY	54	0	54	0.00	50.6	23.55	0.32	10.12	0.58
10/16/2010		DRY	51	0.01	51.01	0.00	50.7	22.82	0.31	9.39	0.57
10/17/2010		DRY	51	0.49	51.49	0.01	50.8	29.55	0.37	10.40	0.67
10/18/2010		WET	66	0.8	66.8	0.01	61.3	29.31	0.32	10.94	0.66
10/19/2010		WET	197	2.1	199.1	0.01	237.2	34.09	0.13	11.46	0.71
10/20/2010		WET	79	6	85	0.07	109.6	34.34	0.24	11.36	0.71
10/21/2010		WET	61	3.9	64.9	0.06	49.3	26.16	0.35	11.42	0.62
10/22/2010		WET	69	3.6	72.6	0.05	58.6	23.89	0.29	10.12	0.59
10/23/2010		DRY	70	2.3	72.3	0.03	58.6	22.35	0.28	10.09	0.56
10/24/2010		WET	84	0.5	84.5	0.01	69.3	24.02	0.26	10.57	0.59
10/25/2010		WET	251	0.37	251.37	0.00	439.4	28.94	0.06	11.51	0.66
10/26/2010		WET	71	0.24	71.24	0.00	65.4	26.23	0.29	10.80	0.62

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
10/27/2010		DRY	79	0	79	0.00	69.9	25.44	0.27	10.01	0.61
10/28/2010		DRY	76	0	76	0.00	73.5	25.99	0.26	9.82	0.62
10/29/2010		DRY	64	0	64	0.00	62.1	26.33	0.30	10.43	0.62
10/30/2010		WET	399	0.32	399.32	0.00	682.9	83.08	0.11	10.46	0.88
10/31/2010		WET	72	0.5	72.5	0.01	74.1	24.82	0.25	11.14	0.60
11/1/2010		DRY	66	2	68	0.03	69.5	24.39	0.26	10.20	0.59
11/2/2010	DRY	DRY	62	0.74	62.74	0.01	64.1	23.98	0.27	8.96	0.59
11/3/2010		DRY	60	0.5	60.5	0.01	61.7	17.87	0.22	4.83	0.45
11/4/2010		DRY	65	0.98	65.98	0.01	68.2	16.39	0.19	4.05	0.40
11/5/2010		DRY	60	3.2	63.2	0.05	63.0	16.80	0.21	3.67	0.41
11/6/2010		DRY	59	4	63	0.06	61.8	19.41	0.24	4.61	0.49
11/7/2010		DRY	58	4.6	62.6	0.07	60.0	20.17	0.25	4.98	0.51
11/8/2010		WET	124	8.6	132.6	0.06	307.4	48.89	0.14	7.10	0.80
11/9/2010		WET	63	12	75	0.16	66.4	27.40	0.29	8.73	0.64
11/10/2010		DRY	60	12	72	0.17	65.0	27.98	0.30	9.86	0.65
11/11/2010		DRY	60	12	72	0.17	64.6	31.17	0.33	10.89	0.68
11/12/2010		DRY	58	12	70	0.17	61.9	30.25	0.33	10.17	0.67
11/13/2010		DRY	59	13	72	0.18	62.8	28.79	0.31	9.38	0.66
11/14/2010		DRY	56	12	68	0.18	62.7	29.32	0.32	9.31	0.66
11/15/2010		DRY	64	13	77	0.17	64.1	28.24	0.31	9.62	0.65
11/16/2010		DRY	56	14	70	0.20	62.6	28.40	0.31	9.81	0.65
11/17/2010		DRY	58	14	72	0.19	60.4	28.92	0.32	10.66	0.66
11/18/2010		DRY	62	12	74	0.16	62.5	29.34	0.32	10.21	0.66
11/19/2010		DRY	61	11	72	0.15	63.0	28.52	0.31	10.54	0.65
11/20/2010		WET	375	14	389	0.04	772.6	61.29	0.07	10.61	0.84
11/21/2010		WET	410	14	424	0.03	737.8	109.81	0.13	11.60	0.91
11/22/2010		DRY	72	0	72	0.00	78.5	28.99	0.27	10.82	0.66
11/23/2010		DRY	64	0	64	0.00	65.4	28.38	0.30	11.34	0.65
11/24/2010		DRY	61	6.8	67.8	0.10	62.9	27.38	0.30	10.63	0.64
11/25/2010		DRY	58	14	72	0.19	59.4	27.37	0.32	10.35	0.64
11/26/2010		DRY	57	14	71	0.20	58.0	24.45	0.30	8.91	0.60
11/27/2010		DRY	55	14	69	0.20	57.8	35.02	0.38	9.96	0.72
11/28/2010		WET	60	14	74	0.19	68.6	26.24	0.28	9.92	0.62
11/29/2010		DRY	49	14	63	0.22	54.3	25.32	0.32	9.67	0.61
11/30/2010		DRY	47	14	61	0.23	51.9	26.45	0.34	10.15	0.63
12/1/2010		DRY	49	14	63	0.22	53.1	27.13	0.34	10.71	0.64
12/2/2010		DRY	51	16	67	0.24	56.1	25.65	0.31	9.76	0.61
12/3/2010		DRY	59	16	75	0.21	61.4	24.91	0.29	9.07	0.60
12/4/2010		DRY	58	16	74	0.22	62.8	26.92	0.30	10.07	0.63
12/5/2010		WET	138	17	155	0.11	235.7	83.45	0.26	10.43	0.88
12/6/2010		WET	218	15	233	0.06	446.6	44.25	0.09	11.73	0.78

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
12/7/2010		WET	59	21	80	0.26	63.6	25.51	0.29	10.52	0.61
12/8/2010		DRY	54	19	73	0.26	59.4	26.01	0.30	10.32	0.62
12/9/2010		DRY	56	19	75	0.25	57.6	25.79	0.31	10.47	0.62
12/10/2010		DRY	58	19	77	0.25	59.6	25.47	0.30	10.68	0.61
12/11/2010		DRY	58	19	77	0.25	60.3	25.57	0.30	10.68	0.61
12/12/2010		DRY	57	20	77	0.26	58.3	25.18	0.30	10.24	0.61
12/13/2010		DRY	57	21	78	0.27	58.2	26.30	0.31	10.64	0.62
12/14/2010		DRY	58	21	79	0.27	60.1	26.93	0.31	10.51	0.63
12/15/2010		DRY	69	21	90	0.23	67.4	27.71	0.29	10.75	0.64
12/16/2010		DRY	62	21	83	0.25	66.9	28.55	0.30	10.68	0.65
12/17/2010		WET	156	21	177	0.12	224.9	34.40	0.13	11.03	0.71
12/18/2010		WET	1830	24	1854	0.01	2485.1	221.40	0.08	11.82	0.96
12/19/2010		WET	2720	121	2841	0.04	3434.9	320.13	0.09	13.60	0.97
12/20/2010		WET	1520	85	1605	0.05	2571.1	349.88	0.12	13.82	0.97
12/21/2010		WET	508	10	518	0.02	1317.0	203.49	0.13	14.82	0.95
12/22/2010		WET	1920	327	2247	0.15	3416.7	523.68	0.13	14.75	0.98
12/23/2010		WET	144	769	913	0.84	1380.0	35.62	0.03	13.18	0.72
12/24/2010		WET	99	391	490	0.80	1157.7	26.41	0.02	11.62	0.63
12/25/2010		WET	278	198	476	0.42	1051.5	71.40	0.06	11.98	0.86
12/26/2010		WET	442	50	492	0.10	1023.7	79.60	0.07	11.76	0.88
12/27/2010		WET	86	70	156	0.45	272.2	23.14	0.08	11.57	0.57
12/28/2010		WET	79	44	123	0.36	84.3	25.50	0.23	12.36	0.61
12/29/2010		WET	463	77	540	0.14	927.2	119.55	0.11	12.83	0.92
12/30/2010		WET	88	98	186	0.53	128.6	21.99	0.15	11.39	0.55
12/31/2010		WET	93	115	208	0.55	369.1	23.40	0.06	11.29	0.58
1/1/2011		WET	101	117	218	0.54	442.5	24.50	0.05	11.71	0.60
1/2/2011		WET	540	104	644	0.16	982.9	75.68	0.07	11.33	0.87
1/3/2011		WET	133	96	229	0.42	504.0	46.47	0.08	13.66	0.79
1/4/2011		WET	78	79	157	0.50	113.9	26.36	0.19	11.73	0.62
1/5/2011		DRY	77	55	132	0.42	106.0	27.36	0.21	12.58	0.64
1/6/2011		DRY	75	38	113	0.34	76.2	28.56	0.27	12.59	0.65
1/7/2011		DRY	75	38	113	0.34	75.8	28.07	0.27	12.18	0.65
1/8/2011		DRY	75	38	113	0.34	76.0	27.79	0.27	11.94	0.64
1/9/2011		DRY	75	38	113	0.34	73.0	28.51	0.28	11.90	0.65
1/10/2011		DRY	72	66	138	0.48	73.1	30.35	0.29	12.92	0.67
1/11/2011		DRY	68	81	149	0.54	71.0	29.97	0.30	12.67	0.67
1/12/2011		DRY	68	63	131	0.48	73.7	29.72	0.29	11.56	0.67
1/13/2011		DRY	74	44	118	0.37	76.5	30.90	0.29	13.23	0.68
1/14/2011		DRY	65	45	110	0.41	67.0	31.12	0.32	13.06	0.68
1/15/2011		DRY	64	49	113	0.43	64.0	29.96	0.32	11.96	0.67
1/16/2011		DRY	68	52	120	0.43	68.0	28.94	0.30	10.74	0.66

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
1/17/2011		DRY	72	56	128	0.44	71.6	28.36	0.28	11.29	0.65
1/18/2011		DRY	72	59	131	0.45	72.1	29.31	0.29	11.79	0.66
1/19/2011		DRY	76	59	135	0.44	75.1	61.63	0.45	11.71	0.84
1/20/2011		DRY	72	58	130	0.45	74.9	28.06	0.27	11.17	0.65
1/21/2011		DRY	70	57	127	0.45	68.9	28.80	0.29	10.99	0.66
1/22/2011		DRY	68	53	121	0.44	69.6	27.63	0.28	8.60	0.64
1/23/2011		DRY	69	53	122	0.43	70.3	28.95	0.29	10.69	0.66
1/24/2011		DRY	65	70	135	0.52	66.9	29.04	0.30	10.58	0.66
1/25/2011		WET	68	82	150	0.55	79.9	34.30	0.30	11.57	0.71
1/26/2011		DRY	64	90	154	0.58	67.0	36.65	0.35	11.84	0.73
1/27/2011		DRY	63	93	156	0.60	67.6	34.75	0.34	10.44	0.72
1/28/2011		DRY	66	90	156	0.58	68.6	35.37	0.34	10.06	0.72
1/29/2011		DRY	67	86	153	0.56	69.2	39.58	0.36	11.40	0.75
1/30/2011		WET	176	89	265	0.34	306.2	60.41	0.16	11.71	0.84
1/31/2011		WET	88	95	183	0.52	87.2	39.29	0.31	10.92	0.75
2/1/2011		WET	104	40	144	0.28	102.4	38.59	0.27	10.10	0.74
2/2/2011		DRY	86	8.6	94.6	0.09	82.2	40.93	0.33	10.82	0.76
2/3/2011		DRY	84	9.1	93.1	0.10	79.5	39.42	0.33	9.84	0.75
2/4/2011		DRY	85	9.9	94.9	0.10	76.8	36.86	0.32	9.35	0.73
2/5/2011		DRY	87	11	98	0.11	78.1	37.45	0.32	9.76	0.74
2/6/2011		DRY	88	12	100	0.12	79.8	39.36	0.33	10.66	0.75
2/7/2011		DRY	93	12	105	0.11	77.5	38.52	0.33	10.10	0.74
2/8/2011	DRY	DRY	90	12	102	0.12	76.9	39.93	0.34	11.51	0.75
2/9/2011		DRY	89	12	101	0.12	75.2	37.47	0.33	10.15	0.74
2/10/2011		DRY	88	12	100	0.12	73.4	34.55	0.32	8.45	0.71
2/11/2011		DRY	84	11	95	0.12	72.6	34.74	0.32	8.71	0.72
2/12/2011		DRY	82	12	94	0.13	74.1	38.90	0.34	9.78	0.75
2/13/2011		DRY	84	13	97	0.13	72.8	39.36	0.35	9.73	0.75
2/14/2011		WET	86	13	99	0.13	77.9	44.14	0.36	11.50	0.78
2/15/2011		WET	105	17	122	0.14	97.3	45.38	0.32	10.38	0.78
2/16/2011		WET	606	12	618	0.02	1092.3	230.83	0.17	10.85	0.96
2/17/2011		WET	84	31	115	0.27	89.5	35.77	0.29	11.87	0.72
2/18/2011		WET	1530	86	1616	0.05	1648.4	168.64	0.09	11.39	0.94
2/19/2011		WET	593	88	681	0.13	955.2	163.06	0.15	11.37	0.94
2/20/2011		WET	149	16	165	0.10	355.5	42.87	0.11	11.68	0.77
2/21/2011		WET	75	29	104	0.28	88.0	29.92	0.25	10.46	0.67
2/22/2011		DRY	71	118	189	0.62	85.3	31.89	0.27	11.33	0.69
2/23/2011		DRY	66	51	117	0.44	80.2	31.37	0.28	10.46	0.68
2/24/2011		DRY	63	55	118	0.47	79.3	34.65	0.30	10.80	0.71
2/25/2011		WET	118	72	190	0.38	858.0	260.23	0.23	10.85	0.96
2/26/2011		WET	861	318	1179	0.27	1685.2	176.52	0.09	12.69	0.94

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
2/27/2011		WET	76	153	229	0.67	437.8	38.67	0.08	10.99	0.74
2/28/2011		WET	69	120	189	0.63	238.9	36.51	0.13	11.28	0.73
3/1/2011		WET	67	83	150	0.55	104.1	36.68	0.26	10.82	0.73
3/2/2011		DRY	67	105	172	0.61	86.3	45.45	0.34	10.55	0.78
3/3/2011		WET	125	111	236	0.47	178.9	57.04	0.24	11.03	0.83
3/4/2011		WET	65	92	157	0.59	100.4	38.67	0.28	11.03	0.74
3/5/2011		DRY	64	101	165	0.61	86.4	41.25	0.32	11.74	0.76
3/6/2011		DRY	65	118	183	0.64	80.6	43.23	0.35	11.87	0.77
3/7/2011		WET	70	121	191	0.63	95.4	42.99	0.31	11.16	0.77
3/8/2011		DRY	65	112	177	0.63	84.5	43.61	0.34	10.68	0.77
3/9/2011		DRY	66	81	147	0.55	79.5	47.98	0.38	11.87	0.79
3/10/2011		DRY	67	55	122	0.45	77.6	48.46	0.38	10.86	0.80
3/11/2011		DRY	69	102	171	0.60	81.0	46.90	0.37	10.75	0.79
3/12/2011		DRY	72	116	188	0.62	77.3	49.06	0.39	11.09	0.80
3/13/2011		DRY	80	118	198	0.60	80.9	51.44	0.39	11.79	0.81
3/14/2011		DRY	86	136	222	0.61	83.5	53.14	0.39	12.25	0.81
3/15/2011		DRY	89	142	231	0.61	85.9	52.26	0.38	11.65	0.81
3/16/2011		DRY	90	133	223	0.60	83.6	53.51	0.39	11.71	0.81
3/17/2011		DRY	90	126	216	0.58	86.8	54.16	0.38	11.70	0.82
3/18/2011		DRY	84	122	206	0.59	86.5	52.77	0.38	10.88	0.81
3/19/2011		WET	152	125	277	0.45	437.0	105.13	0.19	11.93	0.91
3/20/2011		WET	8970	106	9076	0.01	10634.9	1178.52	0.10	14.03	0.99
3/21/2011		WET	3620	461	4081	0.11	3768.8	111.23	0.03	15.07	0.91
3/22/2011		WET	146	495	641	0.77	1336.2	34.69	0.03	12.10	0.71
3/23/2011		WET	451	1300	1751	0.74	2121.8	85.20	0.04	12.01	0.88
3/24/2011		WET	117	1420	1537	0.92	1741.2	35.26	0.02	10.80	0.72
3/25/2011		WET	849	745	1594	0.47	2229.7	118.63	0.05	12.07	0.92
3/26/2011		WET	102	675	777	0.87	1319.5	32.39	0.02	11.36	0.69
3/27/2011		WET	201	324	525	0.62	1082.3	37.03	0.03	10.86	0.73
3/28/2011		WET	79	432	511	0.85	930.4	32.02	0.03	10.51	0.69
3/29/2011		WET	73	169	242	0.70	455.1	32.62	0.07	10.61	0.70
3/30/2011		WET	66	159	225	0.71	443.9	35.07	0.07	11.68	0.72
3/31/2011		WET	70	288	358	0.80	720.7	29.81	0.04	9.64	0.67
4/1/2011		WET	62	408	470	0.87	1199.6	27.88	0.02	8.83	0.64
4/2/2011		WET	64	427	491	0.87	1035.9	30.13	0.03	8.96	0.67
4/3/2011		WET	68	443	511	0.87	823.0	30.22	0.04	9.24	0.67
4/4/2011		WET	67	1080	1147	0.94	1046.4	31.93	0.03	9.36	0.69
4/5/2011		WET	67	1300	1367	0.95	1012.7	32.11	0.03	9.08	0.69
4/6/2011		WET	68	538	606	0.89	342.3	34.04	0.09	9.95	0.71
4/7/2011		WET	68	514	582	0.88	274.5	32.82	0.11	9.67	0.70
4/8/2011		WET	73	464	537	0.86	220.0	32.85	0.13	8.63	0.70

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
4/9/2011		WET	74	457	531	0.86	209.4	35.68	0.15	10.23	0.72
4/10/2011		WET	76	460	536	0.86	239.5	36.18	0.13	10.15	0.73
4/11/2011		WET	76	456	532	0.86	199.9	36.61	0.15	10.32	0.73
4/12/2011	DRY	DRY	85	440	525	0.84	196.9	36.98	0.16	9.84	0.73
4/13/2011		WET	85	246	331	0.74	146.1	38.14	0.21	9.42	0.74
4/14/2011		WET	85	111	196	0.57	71.9	41.69	0.37	11.33	0.76
4/15/2011		WET	83	103	186	0.55	68.4	41.35	0.38	10.72	0.76
4/16/2011		DRY	89	100	189	0.53	69.7	40.95	0.37	9.93	0.76
4/17/2011		WET	98	96	194	0.49	80.5	40.32	0.33	8.94	0.75
4/18/2011		DRY	90	94	184	0.51	76.9	46.48	0.38	11.73	0.79
4/19/2011		DRY	92	94	186	0.51	76.7	43.11	0.36	8.99	0.77
4/20/2011		DRY	89	79	168	0.47	77.8	47.12	0.38	10.77	0.79
4/21/2011		DRY	86	87	173	0.50	77.2	47.50	0.38	10.88	0.79
4/22/2011		DRY	82	165	247	0.67	76.0	46.83	0.38	10.86	0.79
4/23/2011		DRY	83	177	260	0.68	77.7	44.96	0.37	10.57	0.78
4/24/2011		DRY	84	165	249	0.66	83.0	45.20	0.35	11.17	0.78
4/25/2011		DRY	63	153	216	0.71	65.3	43.68	0.40	10.55	0.77
4/26/2011		DRY	52	138	190	0.73	48.6	42.20	0.46	11.33	0.77
4/27/2011		DRY	59	133	192	0.69	54.6	39.94	0.42	10.47	0.75
4/28/2011		DRY	56	121	177	0.68	57.9	40.04	0.41	10.37	0.75
4/29/2011		DRY	55	114	169	0.67	54.7	40.35	0.42	10.55	0.75
4/30/2011		DRY	55	108	163	0.66	56.7	42.06	0.43	10.51	0.76
5/1/2011		DRY	54	103	157	0.66	57.0	40.29	0.41	10.00	0.75
5/2/2011		DRY	49	100	149	0.67	54.9	41.31	0.43	9.86	0.76
5/3/2011	DRY	DRY	54	95	149	0.64	53.0	39.18	0.42	9.21	0.75
5/4/2011		DRY	49	94	143	0.66	49.3	35.37	0.42	7.77	0.72
5/5/2011		DRY	45	90	135	0.67	45.6	32.06	0.41	6.02	0.69
5/6/2011		DRY	49	87	136	0.64	47.3	38.11	0.45	9.07	0.74
5/7/2011		DRY	52	86	138	0.62	47.9	38.87	0.45	9.21	0.75
5/8/2011		DRY	53	86	139	0.62	47.9	36.90	0.44	8.62	0.73
5/9/2011		DRY	54	89	143	0.62	49.9	41.43	0.45	10.32	0.76
5/10/2011		DRY	59	87	146	0.60	54.6	38.63	0.41	9.19	0.74
5/11/2011		DRY	56	84	140	0.60	53.2	41.69	0.44	10.78	0.76
5/12/2011		DRY	57	82	139	0.59	53.9	42.43	0.44	11.09	0.77
5/13/2011		DRY	59	82	141	0.58	55.4	36.57	0.40	9.05	0.73
5/14/2011		WET	61	82	143	0.57	53.9	37.45	0.41	9.75	0.74
5/15/2011		DRY	82	84	166	0.51	97.8	41.29	0.30	10.49	0.76
5/16/2011		DRY	57	86	143	0.60	53.8	32.64	0.38	9.96	0.70
5/17/2011		DRY	174	85	259	0.33	170.6	33.80	0.17	10.00	0.71
5/18/2011		DRY	234	95	329	0.29	437.8	73.54	0.14	12.08	0.87
5/19/2011		DRY	75	90	165	0.55	89.4	31.02	0.26	10.89	0.68

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
5/20/2011		DRY	58	80	138	0.58	70.3	31.09	0.31	11.22	0.68
5/21/2011		DRY	57	76	133	0.57	62.7	28.20	0.31	9.39	0.65
5/22/2011		DRY	62	73	135	0.54	60.6	29.66	0.33	10.40	0.67
5/23/2011		DRY	62	74	136	0.54	60.0	33.06	0.36	11.62	0.70
5/24/2011		DRY	60	73	133	0.55	59.1	31.52	0.35	10.49	0.69
5/25/2011		DRY	59	69	128	0.54	58.2	29.75	0.34	9.36	0.67
5/26/2011		DRY	55	68	123	0.55	57.5	31.52	0.35	10.44	0.69
5/27/2011		DRY	63	68	131	0.52	56.0	30.28	0.35	9.86	0.67
5/28/2011		DRY	64	64	128	0.50	54.9	30.38	0.36	10.07	0.67
5/29/2011		DRY	67	61	128	0.48	54.2	31.68	0.37	10.32	0.69
5/30/2011		DRY	70	60	130	0.46	53.7	30.22	0.36	9.81	0.67
5/31/2011		DRY	72	59	131	0.45	53.3	32.44	0.38	10.58	0.69
6/1/2011		DRY	72	58	130	0.45	52.8	32.79	0.38	10.24	0.70
6/2/2011		DRY	67	56	123	0.46	52.5	32.36	0.38	10.27	0.69
6/3/2011		DRY	64	54	118	0.46	52.1	32.56	0.38	10.40	0.70
6/4/2011		DRY	65	54	119	0.45	52.1	32.62	0.39	10.40	0.70
6/5/2011		DRY	62	54	116	0.47	52.5	31.56	0.38	10.29	0.69
6/6/2011		DRY	64	53	117	0.45	54.3	33.19	0.38	11.08	0.70
6/7/2011		DRY	60	56	116	0.48	54.7	33.43	0.38	11.31	0.70
6/8/2011		DRY	62	57	119	0.48	54.7	32.21	0.37	10.83	0.69
6/9/2011		DRY	58	56	114	0.49	54.5	33.71	0.38	11.37	0.71
6/10/2011		DRY	64	60	124	0.48	54.1	32.17	0.37	10.34	0.69
6/11/2011		DRY	65	58	123	0.47	54.1	32.19	0.37	10.66	0.69
6/12/2011		DRY	63	56	119	0.47	54.3	32.90	0.38	11.40	0.70
6/13/2011		WET	63	59	122	0.48	55.5	32.83	0.37	11.64	0.70
6/14/2011		DRY	60	58	118	0.49	55.8	31.10	0.36	10.77	0.68
6/15/2011		DRY	62	54	116	0.47	55.8	34.95	0.39	11.02	0.72
6/16/2011		DRY	64	56	120	0.47	55.8	38.53	0.41	11.33	0.74
6/17/2011		DRY	60	57	117	0.49	55.8	35.89	0.39	9.16	0.72
6/18/2011		DRY	67	57	124	0.46	55.8	28.59	0.34	10.55	0.65
6/19/2011		DRY	67	55	122	0.45	55.8	29.25	0.34	11.28	0.66
6/20/2011	DRY	DRY	65	54	119	0.45	55.8	29.11	0.34	11.36	0.66
6/21/2011		DRY	66	48	114	0.42	55.8	28.51	0.34	10.71	0.65
6/22/2011		DRY	63	67	130	0.52	55.8	27.98	0.33	11.23	0.65
6/23/2011		DRY	63	59	122	0.48	55.3	27.16	0.33	10.32	0.64
6/24/2011		DRY	61	57	118	0.48	55.2	26.40	0.32	11.22	0.63
6/25/2011		DRY	61	58	119	0.49	54.7	27.13	0.33	11.46	0.64
6/26/2011		DRY	60	61	121	0.50	54.7	26.27	0.32	11.12	0.62
6/27/2011	DRY	DRY	56	26	82	0.32	54.2	24.79	0.31	10.44	0.60
6/28/2011		DRY	62	13	75	0.17	54.1	25.43	0.32	10.63	0.61
6/29/2011		DRY	60	11	71	0.15	54.1	25.27	0.32	10.51	0.61

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
6/30/2011		DRY	62	9.6	71.6	0.13	53.6	24.52	0.31	10.68	0.60
7/1/2011		DRY	59	11	70	0.16	53.6	10.89	0.17	10.29	0.09
7/2/2011		DRY	57	17	74	0.23	53.6	8.94	0.14	9.87	0.00
7/3/2011		DRY	58	27	85	0.32	53.6	10.81	0.17	10.61	0.08
7/4/2011		DRY	56	28	84	0.33	52.9	9.76	0.16	9.16	0.00
7/5/2011		DRY	54	27	81	0.33	52.5	10.57	0.17	10.97	0.06
7/6/2011		DRY	55	31	86	0.36	52.3	10.29	0.16	9.35	0.04
7/7/2011		DRY	58	18	76	0.24	51.9	9.31	0.15	8.36	0.00
7/8/2011		DRY	58	5	63	0.08	51.9	10.04	0.16	9.07	0.01
7/9/2011		DRY	59	0	59	0.00	51.9	9.74	0.16	9.22	0.00
7/10/2011		DRY	58	0	58	0.00	51.9	9.45	0.15	9.00	0.00
7/11/2011		DRY	61	0	61	0.00	51.5	9.49	0.16	8.77	0.00
7/12/2011		DRY	59	0	59	0.00	51.4	9.62	0.16	9.44	0.00
7/13/2011		DRY	58	0	58	0.00	51.4	9.44	0.16	9.08	0.00
7/14/2011		DRY	58	0	58	0.00	51.4	9.29	0.15	9.33	0.00
7/15/2011		DRY	61	0	61	0.00	51.4	9.38	0.15	9.76	0.00
7/16/2011		DRY	60	0	60	0.00	51.4	9.59	0.16	9.61	0.00
7/17/2011		DRY	61	0	61	0.00	51.4	9.51	0.16	9.61	0.00
7/18/2011	DRY	DRY	57	0	57	0.00	51.4	9.25	0.15	8.99	0.00
7/19/2011		DRY	59	0.34	59.34	0.01	51.0	9.11	0.15	8.74	0.00
7/20/2011		DRY	59	0	59	0.00	50.9	9.33	0.15	8.90	0.00
7/21/2011		DRY	32	0	32	0.00	47.4	8.86	0.16	8.79	0.00
7/22/2011		DRY	43	0	43	0.00	43.0	9.40	0.18	9.13	0.00
7/23/2011		DRY	58	0	58	0.00	42.9	9.55	0.18	9.05	0.00
7/24/2011		DRY	57	0	57	0.00	43.6	9.45	0.18	9.73	0.00
7/25/2011		DRY	56	0	56	0.00	44.4	9.59	0.18	9.47	0.00
7/26/2011		DRY	51	0	51	0.00	44.6	9.34	0.17	9.45	0.00
7/27/2011		DRY	55	0	55	0.00	44.9	9.24	0.17	9.59	0.00
7/28/2011		DRY	54	0	54	0.00	45.9	9.64	0.17	9.41	0.00
7/29/2011		DRY	56	0	56	0.00	46.7	7.89	0.14	7.66	0.00
7/30/2011		DRY	53	0	53	0.00	47.1	8.28	0.15	8.56	0.00
7/31/2011		DRY	58	0	58	0.00	47.5	9.96	0.17	9.81	0.01
8/1/2011		DRY	53	0	53	0.00	48.1	9.94	0.17	9.05	0.00
8/2/2011	DRY	DRY	53	0	53	0.00	48.4	9.02	0.16	8.88	0.00
8/3/2011		DRY	54	55	109	0.50	48.4	8.59	0.15	8.26	0.00
8/4/2011		DRY	55	81	136	0.60	48.4	8.31	0.15	8.80	0.00
8/5/2011		DRY	57	48	105	0.46	48.4	9.16	0.16	8.73	0.00
8/6/2011		DRY	60	46	106	0.43	48.4	9.46	0.16	9.89	0.00
8/7/2011		DRY	62	47	109	0.43	48.4	8.92	0.16	9.08	0.00
8/8/2011		DRY	59	52	111	0.47	48.4	8.97	0.16	9.08	0.00
8/9/2011		DRY	57	49	106	0.46	48.4	9.40	0.16	9.44	0.00

Date	Cu Data Event Type	Event Type	FLOW_ LARS	FLOW_ TUJW	FLOW LARS+TUJW	FlowRatio_ TUJW to TUJW+ LARS	FLOW_ LART	FLOW_ BWCH	FlowRatio_ BWCH to BWCH+ LART	FLOW_ BWRP	FlowRatio_ Above BWRP to BWCH
8/10/2011		DRY	57	45	102	0.44	48.4	9.74	0.17	9.50	0.00
8/11/2011		DRY	59	43	102	0.42	48.4	9.13	0.16	8.99	0.00
8/12/2011		DRY	59	42	101	0.42	48.9	9.86	0.17	9.73	0.00
8/13/2011		DRY	63	28	91	0.31	49.5	9.52	0.16	9.13	0.00
8/14/2011		DRY	64	20	84	0.24	50.0	8.78	0.15	9.35	0.00
8/15/2011		DRY	59	16	75	0.21	50.4	9.49	0.16	10.60	0.00
8/16/2011		DRY	57	16	73	0.22	50.8	7.49	0.13	8.14	0.00
8/17/2011		DRY	57	17	74	0.23	51.2	9.05	0.15	9.21	0.00
8/18/2011		DRY	54	19	73	0.26	50.9	9.47	0.16	9.53	0.00
8/19/2011		DRY	57	19	76	0.25	50.9	9.87	0.16	9.53	0.00
8/20/2011		DRY	62	20	82	0.24	51.3	9.97	0.16	9.21	0.01
8/21/2011		DRY	61	21	82	0.26	51.3	9.40	0.15	9.00	0.00
8/22/2011		DRY	58	26	84	0.31	51.2	9.60	0.16	9.62	0.00
8/23/2011		DRY	60	33	93	0.35	51.1	9.74	0.16	9.73	0.00
8/24/2011		DRY	57	37	94	0.39	51.0	8.52	0.14	8.87	0.00
8/25/2011		DRY	39	35	74	0.47	49.3	8.24	0.14	8.31	0.00
8/26/2011		DRY	56	34	90	0.38	47.9	9.33	0.16	8.77	0.00
8/27/2011		DRY	59	30	89	0.34	47.9	9.32	0.16	8.63	0.00
8/28/2011		DRY	59	31	90	0.34	47.9	8.99	0.16	9.25	0.00
8/29/2011	DRY	DRY	60	33	93	0.35	47.9	9.84	0.17	9.87	0.00
8/30/2011		DRY	64	33	97	0.34	47.9	9.30	0.16	9.24	0.00
8/31/2011		DRY	65	35	100	0.35	48.1	9.74	0.17	9.69	0.00
9/1/2011		DRY	62	15	77	0.19	54.3	9.55	0.15	9.58	0.00
9/2/2011		DRY	60	0.16	60.16	0.00	60.2	8.65	0.13	9.10	0.00
9/3/2011		DRY	59	0.04	59.04	0.00	59.9	9.68	0.14	9.41	0.00
9/4/2011		DRY	61	0	61	0.00	59.7	9.10	0.13	9.18	0.00
9/5/2011		DRY	56	0	56	0.00	59.5	8.76	0.13	8.46	0.00
9/6/2011		DRY	55	0	55	0.00	59.3	10.09	0.15	10.13	0.02
9/7/2011		DRY	53	0	53	0.00	59.1	9.44	0.14	8.54	0.00
9/8/2011		DRY	59	0	59	0.00	58.9	8.77	0.13	8.46	0.00
9/9/2011		DRY	62	0	62	0.00	58.7	9.44	0.14	9.14	0.00
9/10/2011		DRY	76	0	76	0.00	60.7	9.11	0.13	8.93	0.00
9/11/2011		DRY	60	0	60	0.00	65.4	9.02	0.12	9.00	0.00
9/12/2011		DRY	58	0	58	0.00	64.8	9.12	0.12	8.76	0.00
9/13/2011		DRY	61	0	61	0.00	63.9	9.05	0.12	9.42	0.00
9/14/2011		DRY	63	0	63	0.00	63.7	9.65	0.13	10.00	0.00
9/15/2011		DRY	66	0	66	0.00	63.2	10.29	0.14	10.35	0.04
9/16/2011		DRY	61	0	61	0.00	63.3	10.14	0.14	10.69	0.02
9/17/2011		DRY	65	0	65	0.00	63.4	9.52	0.13	9.62	0.00
9/18/2011		DRY	65	0	65	0.00	63.6	9.97	0.14	9.92	0.01
9/19/2011		DRY	49	0	49	0.00	63.3	10.24	0.14	10.35	0.03

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
9/20/2011		DRY	42	0	42	0.00	60.4	9.81	0.14	9.95	0.00
9/21/2011		DRY	45	0	45	0.00	57.4	10.26	0.15	10.44	0.04
9/22/2011		DRY	55	0	55	0.00	56.2	10.68	0.16	10.06	0.07
9/23/2011		DRY	61	0	61	0.00	56.3	10.15	0.15	10.34	0.02
9/24/2011		DRY	65	0	65	0.00	57.1	9.73	0.15	9.61	0.00
9/25/2011		DRY	68	0	68	0.00	58.3	9.80	0.14	10.20	0.00
9/26/2011	DRY	DRY	69	0	69	0.00	59.6	9.92	0.14	9.64	0.00
9/27/2011		DRY	65	0	65	0.00	60.6	10.12	0.14	10.13	0.02
9/28/2011		DRY	68	0	68	0.00	61.6	10.44	0.14	10.44	0.05
9/29/2011		DRY	70	0	70	0.00	60.3	10.36	0.15	11.20	0.04
9/30/2011		DRY	73	0	73	0.00	54.5	9.49	0.15	9.52	0.00
10/1/2011		DRY	74	0	74	0.00	51.7	8.97	0.15	8.06	0.00
10/2/2011		DRY	74	0	74	0.00	52.5	10.70	0.17	10.00	0.07
10/3/2011		DRY	66	0	66	0.00	53.8	11.85	0.18	9.59	0.16
10/4/2011		DRY	66	0	66	0.00	54.4	10.59	0.16	9.96	0.07
10/5/2011		WET	641	0.02	641.02	0.00	1068.9	103.22	0.09	11.34	0.90
10/6/2011		WET	81	0	81	0.00	84.9	13.36	0.14	12.46	0.26
10/7/2011		DRY	67	0	67	0.00	63.3	12.98	0.17	10.82	0.24
10/8/2011		DRY	64	0	64	0.00	59.3	11.71	0.16	10.29	0.15
10/9/2011		DRY	67	0	67	0.00	56.3	11.38	0.17	10.27	0.13
10/10/2011		DRY	66	0	66	0.00	57.1	11.32	0.17	10.49	0.13
10/11/2011		DRY	69	0	69	0.00	60.7	10.93	0.15	10.37	0.09
10/12/2011		DRY	68	0	68	0.00	55.4	10.62	0.16	9.95	0.07
10/13/2011		DRY	60	0	60	0.00	51.4	9.72	0.16	8.42	0.00
10/14/2011		DRY	60	0	60	0.00	50.1	10.58	0.17	9.38	0.06
10/15/2011		DRY	60	0	60	0.00	54.3	11.60	0.18	10.01	0.15
10/16/2011		DRY	67	0	67	0.00	56.0	11.39	0.17	9.78	0.13
10/17/2011		DRY	61	0	61	0.00	52.8	11.76	0.18	10.03	0.16
10/18/2011		WET	61	0	61	0.00	71.1	11.94	0.14	9.52	0.17
10/19/2011		WET	61	0	61	0.00	98.6	12.04	0.11	10.41	0.18
10/20/2011		DRY	65	0	65	0.00	104.9	11.11	0.10	10.07	0.11
10/21/2011		DRY	66	0	66	0.00	96.7	12.41	0.11	11.57	0.20
10/22/2011		DRY	66	0	66	0.00	89.1	12.24	0.12	10.94	0.19
10/23/2011		DRY	66	0	66	0.00	82.1	12.93	0.14	11.71	0.23
10/24/2011	DRY	DRY	66	0	66	0.00	75.6	13.21	0.15	11.91	0.25
10/25/2011		DRY	68	0	68	0.00	69.4	12.14	0.15	12.41	0.18
10/26/2011		DRY	59	0	59	0.00	68.0	12.25	0.15	11.99	0.19
10/27/2011		DRY	60	0	60	0.00	73.9	12.47	0.14	11.93	0.21
10/28/2011		DRY	60	0	60	0.00	71.0	12.52	0.15	11.23	0.21
10/29/2011		DRY	62	0	62	0.00	72.7	12.35	0.15	10.58	0.20
10/30/2011		DRY	60	0	60	0.00	70.6	11.49	0.14	11.34	0.14

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
10/31/2011		DRY	61	0	61	0.00	73.3	12.06	0.14	11.31	0.18
11/1/2011		DRY	59	0.36	59.36	0.01	72.1	11.60	0.14	10.94	0.15
11/2/2011		DRY	54	0	54	0.00	66.5	13.02	0.16	11.33	0.24
11/3/2011		DRY	62	0	62	0.00	73.3	13.26	0.15	11.26	0.25
11/4/2011		WET	143	0	143	0.00	624.1	30.88	0.05	11.84	0.68
11/5/2011		WET	76	0	76	0.00	91.5	12.16	0.12	11.43	0.19
11/6/2011		WET	443	0	443	0.00	831.2	50.18	0.06	12.15	0.80
11/7/2011		WET	78	0	78	0.00	100.0	12.71	0.11	12.72	0.22
11/8/2011		DRY	69	0	69	0.00	82.9	12.34	0.13	12.04	0.20
11/9/2011		DRY	71	0	71	0.00	84.8	12.15	0.13	11.16	0.19
11/10/2011		DRY	69	0	69	0.00	83.7	12.08	0.13	10.95	0.18
11/11/2011		DRY	67	0	67	0.00	80.5	11.53	0.13	10.35	0.14
11/12/2011		WET	264	0	264	0.00	550.4	21.95	0.04	10.97	0.55
11/13/2011		WET	75	0	75	0.00	93.3	10.97	0.11	10.35	0.10
11/14/2011		DRY	71	0	71	0.00	87.6	12.69	0.13	12.33	0.22
11/15/2011		DRY	67	0	67	0.00	84.7	11.62	0.12	10.26	0.15
11/16/2011	DRY	DRY	61	0	61	0.00	79.4	12.31	0.13	10.75	0.20
11/17/2011		DRY	66	0	66	0.00	81.8	12.36	0.13	10.44	0.20
11/18/2011		DRY	63	0	63	0.00	77.7	12.95	0.14	10.95	0.24
11/19/2011		DRY	68	0	68	0.00	84.7	11.96	0.12	9.52	0.17
11/20/2011		WET	1120	0.02	1120.02	0.00	1867.9	207.78	0.10	11.14	0.95
11/21/2011		WET	91	0	91	0.00	156.3	12.65	0.07	10.07	0.22
11/22/2011		WET	68	0	68	0.00	84.9	11.63	0.12	9.55	0.15
11/23/2011		DRY	65	0	65	0.00	81.2	13.01	0.14	10.97	0.24
11/24/2011		DRY	63	0	63	0.00	78.0	12.26	0.14	10.38	0.19
11/25/2011		DRY	60	0	60	0.00	74.4	12.87	0.15	10.75	0.23
11/26/2011		DRY	60	0	60	0.00	75.7	11.69	0.13	9.67	0.15
11/27/2011		DRY	59	0	59	0.00	74.1	12.70	0.15	10.23	0.22
11/28/2011		DRY	63	0	63	0.00	78.5	12.16	0.13	10.85	0.19
11/29/2011		DRY	59	0	59	0.00	74.9	10.85	0.13	10.44	0.09
11/30/2011		DRY	61	0	61	0.00	77.0	10.72	0.12	10.30	0.08
12/1/2011		DRY	59	0	59	0.00	71.6	12.25	0.15	10.38	0.19
12/2/2011		DRY	60	0	60	0.00	74.9	13.79	0.16		0.28
12/3/2011		DRY	60	0	60	0.00	71.7	12.64	0.15		0.22
12/4/2011		DRY	61	0	61	0.00	73.5	14.10	0.16		0.30
12/5/2011		DRY	64	0	64	0.00	76.5	12.74	0.14		0.22
12/6/2011		DRY	66	0	66	0.00	80.9	12.70	0.14		0.22
12/7/2011		DRY	61	0	61	0.00	70.5	13.53	0.16		0.27
12/8/2011		DRY	65	0	65	0.00	72.6	12.02	0.14		0.18
12/9/2011		DRY	64	0	64	0.00	68.6	12.27	0.15		0.19
12/10/2011		DRY	63	0	63	0.00	65.2	12.64	0.16		0.22

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
12/11/2011		DRY	59	0	59	0.00	56.8	14.02	0.20		0.29
12/12/2011		WET	1060	0	1060	0.00	1311.2	92.53	0.07		0.89
12/13/2011		WET	216	0	216	0.00	434.1	21.47	0.05		0.54
12/14/2011		WET	66	0	66	0.00	67.8	13.62	0.17		0.27
12/15/2011		WET	83	0	83	0.00	79.9	17.96	0.18		0.45
12/16/2011		DRY	63	0	63	0.00	63.9	13.44	0.17		0.26
12/17/2011		DRY	75	0	75	0.00	66.3	15.29	0.19		0.35
12/18/2011		DRY	67	0	67	0.00	74.5	14.24	0.16		0.30
12/19/2011		DRY	63	0	63	0.00	62.1	14.54	0.19		0.32
12/20/2011		DRY	61	0	61	0.00	59.4	13.28	0.18		0.25
12/21/2011		DRY	61	0	61	0.00	57.3	13.79	0.19		0.28
12/22/2011		DRY	59	0	59	0.00	59.5	13.70	0.19		0.28
12/23/2011		DRY	62	0	62	0.00	57.9	13.38	0.19		0.26
12/24/2011		DRY	64	0	64	0.00	60.5	13.38	0.18		0.26
12/25/2011		DRY	63	0	63	0.00	58.6	13.50	0.19		0.27
12/26/2011		DRY	62	0	62	0.00	60.2	11.82	0.16		0.16
12/27/2011		DRY	63	0	63	0.00	61.2	13.71	0.18		0.28
12/28/2011		DRY	59	0	59	0.00	60.4	11.95	0.17		0.17
12/29/2011		DRY	58	0	58	0.00	56.0	11.94	0.18		0.17
12/30/2011		DRY	58	0	58	0.00	54.8	12.99	0.19		0.24
12/31/2011		DRY	56	0	56	0.00	55.7	12.06	0.18		0.18
1/1/2012		WET	58	0	58	0.00	65.3	11.70	0.15		0.15
1/2/2012		DRY	56	0	56	0.00	67.2	10.46	0.13		0.05
1/3/2012		DRY	57	0	57	0.00	66.9	11.78	0.15		0.16
1/4/2012		DRY	56	0	56	0.00	69.0	13.84	0.17		0.28
1/5/2012		DRY	57	0	57	0.00	66.5	16.56	0.20		0.40
1/6/2012		DRY	56	0	56	0.00	66.8	13.58	0.17		0.27
1/7/2012		DRY	52	0	52	0.00	63.3	12.84	0.17		0.23
1/8/2012		DRY	50	0	50	0.00	61.7	12.88	0.17		0.23
1/9/2012		DRY	54	0	54	0.00	65.2	13.79	0.17		0.28
1/10/2012		DRY	53	0	53	0.00	64.7	13.35	0.17		0.26
1/11/2012		DRY	56	0	56	0.00	66.3	13.46	0.17		0.26
1/12/2012		DRY	61	0	61	0.00	68.4	13.66	0.17		0.28
1/13/2012		DRY	60	0	60	0.00	66.8	13.49	0.17		0.27
1/14/2012		DRY	62	0	62	0.00	67.2	13.00	0.16		0.24
1/15/2012		DRY	62	0	62	0.00	66.9	13.48	0.17		0.27
1/16/2012		DRY	64	0	64	0.00	67.0	13.14	0.16		0.25
1/17/2012		DRY	68	0	68	0.00	67.9	13.67	0.17		0.28
1/18/2012		DRY	70	0	70	0.00	72.2	14.49	0.17		0.32
1/19/2012		DRY	70	0	70	0.00	69.1	14.63	0.17		0.32
1/20/2012		DRY	67	0	67	0.00	67.9	14.26	0.17		0.31

Date	Cu Data Event Type	Event Type	FLOW_ LARS	FLOW_ TUJW	FLOW LARS+TUJW	FlowRatio_ TUJW to TUJW+ LARS	FLOW_ LART	FLOW_ BWCH	FlowRatio_ BWCH to BWCH+ LART	FLOW_ BWRP	FlowRatio_ Above BWRP to BWCH
1/21/2012		WET	592	0.01	592.01	0.00	849.8	57.75	0.06		0.83
1/22/2012		WET	71	0	71	0.00	72.6	13.69	0.16		0.28
1/23/2012		WET	876	0.02	876.02	0.00	1381.9	79.90	0.05		0.88
1/24/2012		WET	92	0	92	0.00	130.5	15.06	0.10		0.34
1/25/2012		DRY	71	0	71	0.00	82.8	14.31	0.15		0.31
1/26/2012		DRY	69	0	69	0.00	80.8	13.91	0.15		0.29
1/27/2012		DRY	65	0	65	0.00	75.2	13.66	0.15		0.28
1/28/2012		WET	60	0	60	0.00	70.8	13.09	0.16		0.24
1/29/2012		DRY	59	0	59	0.00	69.5	13.90	0.17		0.29
1/30/2012		DRY	63	0	63	0.00	68.9	14.17	0.17		0.30
1/31/2012		DRY	61	0	61	0.00	63.2	13.41	0.18		0.26
2/1/2012		DRY	62	0	62	0.00	61.1	13.03	0.18		0.24
2/2/2012		DRY	63	0	63	0.00	63.3	12.49	0.16		0.21
2/3/2012		DRY	62	0	62	0.00	63.5	12.32	0.16		0.20
2/4/2012		DRY	59	0	59	0.00	58.9	11.45	0.16		0.14
2/5/2012		DRY	57	0	57	0.00	57.4	11.89	0.17		0.17
2/6/2012		DRY	64	0	64	0.00	64.4	11.04	0.15		0.10
2/7/2012	DRY	DRY	61	0	61	0.00	63.6	11.92	0.16		0.17
2/8/2012		DRY	62	0	62	0.00	64.8	13.10	0.17		0.24
2/9/2012		DRY	59	0	59	0.00	58.6	11.34	0.16		0.13
2/10/2012		DRY	61	0	61	0.00	61.9	10.72	0.15		0.08
2/11/2012		DRY	67	0	67	0.00	64.8	10.54	0.14		0.06
2/12/2012		WET	61	0	61	0.00	59.3	10.80	0.15		0.08
2/13/2012		WET	123	0	123	0.00	158.1	11.29	0.07		0.12
2/14/2012		WET	65	0	65	0.00	73.9	11.19	0.13		0.12
2/15/2012		WET	75	0	75	0.00	142.8	16.61	0.10		0.40
2/16/2012		WET	59	0	59	0.00	81.1	14.21	0.15		0.30
2/17/2012		DRY	60	0	60	0.00	78.2	14.01	0.15		0.29
2/18/2012		WET	61	0	61	0.00	101.8	13.33	0.12		0.26
2/19/2012		DRY	60	0	60	0.00	101.9	14.70	0.13		0.33
2/20/2012		DRY	62	0	62	0.00	80.7	14.51	0.15		0.32
2/21/2012		DRY	63	0	63	0.00	79.8	16.47	0.17		0.40
2/22/2012		DRY	60	0	60	0.00	76.1	16.98	0.18		0.42
2/23/2012		DRY	66	0	66	0.00	82.3	15.87	0.16		0.38
2/24/2012		DRY	67	0	67	0.00	85.5	15.66	0.15		0.37
2/25/2012		DRY	59	0	59	0.00	75.5	16.06	0.18		0.38
2/26/2012		DRY	58	0	58	0.00	75.0	16.69	0.18		0.41
2/27/2012		DRY	58	0	58	0.00	79.6	19.37	0.20		0.49
2/28/2012	DRY	DRY	57	0	57	0.00	76.9	16.26	0.17		0.39
2/29/2012		DRY	57	0	57	0.00	74.4	17.37	0.19		0.43
3/1/2012		DRY	57	0	57	0.00	77.2	17.37	0.18		0.43

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
3/2/2012		DRY	53	0	53	0.00	71.8	16.47	0.19		0.40
3/3/2012		DRY	54	0	54	0.00	70.6	15.18	0.18		0.35
3/4/2012		DRY	54	0	54	0.00	73.0	14.96	0.17		0.34
3/5/2012		DRY	54	0	54	0.00	72.7	16.14	0.18		0.39
3/6/2012		DRY	55	0	55	0.00	75.2	15.38	0.17		0.36
3/7/2012		DRY	50	0	50	0.00	69.3	14.53	0.17		0.32
3/8/2012		DRY	51	0	51	0.00	69.6	12.66	0.15		0.22
3/9/2012		DRY	53	0	53	0.00	68.5	11.13	0.14		0.11
3/10/2012		DRY	52	0	52	0.00	66.1	10.62	0.14		0.07
3/11/2012		WET	54	0	54	0.00	67.8	10.35	0.13		0.04
3/12/2012		DRY	54	0	54	0.00	65.6	6.20	0.09		0.00
3/13/2012		DRY	54	0	54	0.00	61.4	7.52	0.11		0.00
3/14/2012		DRY	58	0	58	0.00	65.5	10.17	0.13		0.03
3/15/2012		DRY	58	0	58	0.00	63.8	7.81	0.11		0.00
3/16/2012		DRY	60	0	60	0.00	67.8	8.27	0.11		0.00
3/17/2012		WET	1090	0.24	1090.24	0.00	1598.6	165.51	0.09		0.94
3/18/2012		WET	167	0	167	0.00	428.0	6.89	0.02		0.00
3/19/2012		WET	53	0	53	0.00	79.9	6.49	0.08		0.00
3/20/2012		DRY	50	0	50	0.00	72.7	8.28	0.10		0.00
3/21/2012		DRY	48	0	48	0.00	67.7	6.97	0.09		0.00
3/22/2012		DRY	48	0	48	0.00	65.4	7.78	0.11		0.00
3/23/2012		DRY	46	0	46	0.00	63.0	8.26	0.12		0.00
3/24/2012		DRY	48	0	48	0.00	60.2	9.81	0.14		0.00
3/25/2012		WET	162	0.26	162.26	0.00	2540.1	332.53	0.12		0.97
3/26/2012		WET	438	0	438	0.00	476.0	14.36	0.03		0.31
3/27/2012		WET	55	0	55	0.00	80.3	7.43	0.08		0.00
3/28/2012		DRY	49	0	49	0.00	72.0	6.92	0.09		0.00
3/29/2012		DRY	49	0	49	0.00	71.8	7.14	0.09		0.00
3/30/2012		DRY	44	0	44	0.00	64.4	7.62	0.11		0.00
3/31/2012		WET	48	0	48	0.00	84.9	12.95	0.13		0.24
4/1/2012		DRY	53	0	53	0.00	78.0	6.46	0.08		0.00
4/2/2012		DRY	47	0	47	0.00	63.7	6.66	0.09		0.00
4/3/2012		DRY	48	0	48	0.00	63.0	7.19	0.10		0.00
4/4/2012		DRY	51	0.15	51.15	0.00	64.6	7.31	0.10		0.00
4/5/2012		DRY	51	0	51	0.00	66.2	7.90	0.11		0.00
4/6/2012		DRY	49	0	49	0.00	64.7	9.58	0.13		0.00
4/7/2012		DRY	97	0	97	0.00	65.4	12.51	0.16		0.21
4/8/2012		DRY	111	0	111	0.00	67.6	13.68	0.17		0.28
4/9/2012		DRY	111	0	111	0.00	64.7	11.65	0.15		0.15
4/10/2012		DRY	114	0	114	0.00	57.2	10.34	0.15		0.04
4/11/2012		WET	427	4	431	0.01	1342.1	137.85	0.09		0.93

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
4/12/2012		WET	104	1.5	105.5	0.01	69.2	5.76	0.08		0.00
4/13/2012		WET	1960	0.97	1960.97	0.00	2232.6	135.67	0.06		0.93
4/14/2012		WET	161	0.5	161.5	0.00	161.5	4.09	0.02		0.00
4/15/2012		WET	122	0.5	122.5	0.00	73.2	4.38	0.06		0.00
4/16/2012		DRY	113	1.1	114.1	0.01	68.1	5.22	0.07		0.00
4/17/2012		DRY	90	0	90	0.00	62.6	4.46	0.07		0.00
4/18/2012		DRY	89	0	89	0.00	59.2	4.94	0.08		0.00
4/19/2012		DRY	92	0	92	0.00	59.2	5.26	0.08		0.00
4/20/2012		DRY	75	0	75	0.00	56.7	5.66	0.09		0.00
4/21/2012		DRY	66	0	66	0.00	54.9	5.24	0.09		0.00
4/22/2012		DRY	67	0	67	0.00	51.0	5.74	0.10		0.00
4/23/2012		DRY	70	0	70	0.00	51.7	5.95	0.10		0.00
4/24/2012		DRY	64	0	64	0.00	50.5	6.03	0.11		0.00
4/25/2012		WET	61	0	61	0.00	50.3	9.82	0.16		0.00
4/26/2012		WET	163	0	163	0.00	227.2	36.19	0.14		0.73
4/27/2012		WET	71	0	71	0.00	52.6	5.85	0.10		0.00
4/28/2012		DRY	65	0	65	0.00	46.3	7.16	0.13		0.00
4/29/2012		DRY	68	0	68	0.00	45.0	8.51	0.16		0.00
4/30/2012		DRY	66	0	66	0.00	45.6	11.51	0.20		0.14
5/1/2012		DRY	64	0	64	0.00	43.7	14.31	0.25		0.31
5/2/2012		DRY	67	0	67	0.00	44.1	13.43	0.23		0.26
5/3/2012		DRY	65	0	65	0.00	45.0	13.36	0.23		0.26
5/4/2012		DRY	65	0	65	0.00	42.7	13.78	0.24		0.28
5/5/2012		DRY	68	0	68	0.00	42.8	12.97	0.23		0.24
5/6/2012		DRY	71	0	71	0.00	42.5	13.44	0.24		0.26
5/7/2012		DRY	58	0	58	0.00	41.7	11.86	0.22		0.17
5/8/2012	DRY	DRY	44	0	44	0.00	32.5	6.78	0.17		0.00
5/9/2012		DRY	45	0	45	0.00	25.5	11.28	0.31		0.12
5/10/2012		DRY	67	0	67	0.00	32.7	11.36	0.26		0.13
5/11/2012		DRY	68	0	68	0.00	37.3	10.64	0.22		0.07
5/12/2012		DRY	71	0	71	0.00	39.9	10.20	0.20		0.03
5/13/2012		DRY	70	0	70	0.00	40.9	10.98	0.21		0.10
5/14/2012		DRY	69	0	69	0.00	41.2	10.45	0.20		0.05
5/15/2012		DRY	57	0	57	0.00	40.1	10.56	0.21		0.06
5/16/2012		DRY	55	0	55	0.00	33.6	11.83	0.26		0.16
5/17/2012		DRY	55	0	55	0.00	33.4	10.16	0.23		0.03
5/18/2012		DRY	57	0	57	0.00	33.3	9.56	0.22		0.00
5/19/2012		DRY	59	0	59	0.00	34.0	9.27	0.21		0.00
5/20/2012		DRY	56	0	56	0.00	34.3	9.29	0.21		0.00
5/21/2012	DRY	DRY	56	0	56	0.00	34.4	8.75	0.20		0.00
5/22/2012		DRY	61	0	61	0.00	35.6	9.52	0.21		0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
5/23/2012		DRY	58	0	58	0.00	35.9	9.44	0.21		0.00
5/24/2012		DRY	57	0	57	0.00	36.0	9.60	0.21		0.00
5/25/2012		DRY	58	0	58	0.00	36.2	9.55	0.21		0.00
5/26/2012		WET	59	0	59	0.00	36.5	9.27	0.20		0.00
5/27/2012		DRY	58	0	58	0.00	36.9	9.21	0.20		0.00
5/28/2012		DRY	54	0	54	0.00	37.0	8.23	0.18		0.00
5/29/2012		DRY	55	0	55	0.00	37.3	9.48	0.20		0.00
5/30/2012		DRY	58	0	58	0.00	38.3	9.68	0.20		0.00
5/31/2012		DRY	60	0	60	0.00	39.8	9.60	0.19		0.00
6/1/2012		DRY	58	0	58	0.00	40.7	10.72	0.21		0.08
6/2/2012		DRY	56	0	56	0.00	40.4	11.22	0.22		0.12
6/3/2012		DRY	57	0	57	0.00	40.8	14.36	0.26		0.31
6/4/2012		DRY	57	0	57	0.00	41.1	16.18	0.28		0.39
6/5/2012		DRY	57	0	57	0.00	41.8	9.47	0.18		0.00
6/6/2012		DRY	55	0	55	0.00	42.2	15.91	0.27		0.38
6/7/2012		DRY	47	0	47	0.00	35.9	14.81	0.29		0.33
6/8/2012		DRY	55	0	55	0.00	38.7	13.00	0.25		0.24
6/9/2012		DRY	59	0	59	0.00	42.3	12.44	0.23		0.20
6/10/2012		DRY	59	0	59	0.00	43.7	10.84	0.20		0.09
6/11/2012		DRY	59	0	59	0.00	44.2	10.07	0.19		0.02
6/12/2012		DRY	57	0	57	0.00	44.0	9.96	0.18		0.01
6/13/2012		DRY	56	0	56	0.00	43.7	8.95	0.17		0.00
6/14/2012		DRY	56	0	56	0.00	44.2	9.94	0.18		0.00
6/15/2012		DRY	58	0	58	0.00	45.4	9.75	0.18		0.00
6/16/2012		DRY	60	0	60	0.00	46.9	9.44	0.17		0.00
6/17/2012		DRY	62	0	62	0.00	47.9	9.26	0.16		0.00
6/18/2012	DRY	DRY	62	0	62	0.00	48.5	8.34	0.15		0.00
6/19/2012		DRY	62	0	62	0.00	49.3	9.47	0.16		0.00
6/20/2012		DRY	61	0	61	0.00	49.7	8.54	0.15		0.00
6/21/2012		DRY	61	0	61	0.00	50.1	10.37	0.17		0.05
6/22/2012		DRY	62	0	62	0.00	50.5	9.14	0.15		0.00
6/23/2012		DRY	63	0	63	0.00	50.9	9.46	0.16		0.00
6/24/2012		DRY	64	0	64	0.00	51.2	9.79	0.16		0.00
6/25/2012		DRY	62	0	62	0.00	51.2	9.05	0.15		0.00
6/26/2012		DRY	66	0	66	0.00	51.6	8.91	0.15		0.00
6/27/2012		DRY	60	0	60	0.00	52.0	7.85	0.13		0.00
6/28/2012		DRY	61	0	61	0.00	51.5	8.52	0.14		0.00
6/29/2012		DRY	62	0	62	0.00	51.6	8.71	0.14		0.00
6/30/2012		DRY	66	0	66	0.00	51.5	8.87	0.15		0.00
7/1/2012		DRY	65	0	65	0.00	51.5	9.67	0.16		0.00
7/2/2012		DRY	66	0	66	0.00	51.6	9.45	0.15		0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
7/3/2012		DRY	65	0	65	0.00	51.4	10.04	0.16		0.01
7/4/2012		DRY	66	0	66	0.00	51.5	8.74	0.15		0.00
7/5/2012		DRY	68	0	68	0.00	51.8	6.98	0.12		0.00
7/6/2012		DRY	69	0	69	0.00	52.4	5.18	0.09		0.00
7/7/2012		DRY	71	0	71	0.00	52.7	7.26	0.12		0.00
7/8/2012		DRY	66	0	66	0.00	52.6	7.80	0.13		0.00
7/9/2012		DRY	64	0	64	0.00	52.3	9.12	0.15		0.00
7/10/2012		DRY	62	0	62	0.00	52.4	11.10	0.17		0.11
7/11/2012		DRY	58	0	58	0.00	52.3	11.94	0.19		0.17
7/12/2012		DRY	59	0	59	0.00	52.1	13.42	0.20		0.26
7/13/2012		DRY	66	0	66	0.00	52.5	13.38	0.20		0.26
7/14/2012		DRY	66	0	66	0.00	52.8	14.03	0.21		0.29
7/15/2012		DRY	64	0	64	0.00	52.9	12.73	0.19		0.22
7/16/2012	DRY	DRY	61	0	61	0.00	52.9	12.24	0.19		0.19
7/17/2012		DRY	59	0	59	0.00	52.9	12.74	0.19		0.22
7/18/2012		DRY	58	0	58	0.00	52.5	14.13	0.21		0.30
7/19/2012		DRY	61	0	61	0.00	52.6	12.01	0.19		0.18
7/20/2012		DRY	72	0	72	0.00	53.6	13.46	0.20		0.26
7/21/2012		DRY	69	0	69	0.00	54.1	12.45	0.19		0.20
7/22/2012		DRY	68	0	68	0.00	54.5	13.33	0.20		0.26
7/23/2012		DRY	68	0	68	0.00	54.8	14.94	0.21		0.34
7/24/2012		WET	64	0	64	0.00	54.9	12.60	0.19		0.21
7/25/2012		DRY	64	0	64	0.00	55.0	13.03	0.19		0.24
7/26/2012		DRY	64	0	64	0.00	54.7	12.45	0.19		0.20
7/27/2012		DRY	64	0	64	0.00	54.6	12.62	0.19		0.22
7/28/2012		DRY	66	0	66	0.00	54.5	11.55	0.17		0.14
7/29/2012		DRY	66	0	66	0.00	54.6	11.78	0.18		0.16
7/30/2012		DRY	57	0	57	0.00	54.5	11.14	0.17		0.11
7/31/2012		DRY	59	0	59	0.00	54.5	10.58	0.16		0.06
8/1/2012		DRY	57	0	57	0.00	54.7	12.01	0.18		0.18
8/2/2012		DRY	61	0	61	0.00	54.7	12.50	0.19		0.21
8/3/2012		DRY	62	0	62	0.00	54.7	12.76	0.19		0.22
8/4/2012		DRY	67	0	67	0.00	54.7	13.39	0.20		0.26
8/5/2012		DRY	68	0	68	0.00	54.7	13.02	0.19		0.24
8/6/2012		DRY	62	0	62	0.00	54.5	12.38	0.19		0.20
8/7/2012	DRY	DRY	62	0	62	0.00	54.3	11.57	0.18		0.14
8/8/2012		DRY	63	0	63	0.00	54.2	10.44	0.16		0.05
8/9/2012		DRY	58	0	58	0.00	53.8	10.49	0.16		0.06
8/10/2012		DRY	63	0	63	0.00	53.5	9.25	0.15		0.00
8/11/2012		DRY	65	0	65	0.00	53.3	9.02	0.14		0.00
8/12/2012		DRY	65	0	65	0.00	53.2	8.45	0.14		0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
8/13/2012	DRY	DRY	59	0	59	0.00	52.6	8.56	0.14		0.00
8/14/2012		DRY	63	0	63	0.00	52.4	9.12	0.15		0.00
8/15/2012		DRY	63	0	63	0.00	52.3	6.22	0.11		0.00
8/16/2012		DRY	64	0.75	64.75	0.01	52.0	6.76	0.12		0.00
8/17/2012		DRY	68	0	68	0.00	52.0	6.30	0.11		0.00
8/18/2012		DRY	66	0	66	0.00	51.8	6.36	0.11		0.00
8/19/2012		DRY	69	0	69	0.00	51.7	6.16	0.11		0.00
8/20/2012		DRY	67	0	67	0.00	51.6	6.21	0.11		0.00
8/21/2012		DRY	62	0.01	62.01	0.00	51.5	7.04	0.12		0.00
8/22/2012		DRY	66	0	66	0.00	51.4	6.40	0.11		0.00
8/23/2012		DRY	69	0	69	0.00	51.4	6.20	0.11		0.00
8/24/2012		DRY	69	0	69	0.00	51.4	4.90	0.09		0.00
8/25/2012		DRY	68	0	68	0.00	51.3	4.95	0.09		0.00
8/26/2012		DRY	70	0	70	0.00	51.4	5.05	0.09		0.00
8/27/2012		DRY	67	0	67	0.00	51.4	4.24	0.08		0.00
8/28/2012		DRY	63	0	63	0.00	51.1	4.15	0.08		0.00
8/29/2012		DRY	62	0	62	0.00	51.1	4.83	0.09		0.00
8/30/2012		DRY	64	0	64	0.00	51.4	7.66	0.13		0.00
8/31/2012		DRY	66	0	66	0.00	51.6	6.77	0.12		0.00
9/1/2012		DRY	62	0	62	0.00	51.4	7.33	0.12		0.00
9/2/2012		DRY	65	0	65	0.00	51.0	8.97	0.15		0.00
9/3/2012		DRY	65	0	65	0.00	50.9	9.02	0.15		0.00
9/4/2012		DRY	64	0	64	0.00	50.9	13.64	0.21		0.27
9/5/2012		DRY	64	0	64	0.00	50.9	14.05	0.22		0.30
9/6/2012		DRY	63	0	63	0.00	50.9	16.49	0.24		0.40
9/7/2012		DRY	63	0	63	0.00	50.9	19.86	0.28		0.50
9/8/2012		DRY	63	0	63	0.00	50.8	21.15	0.29		0.53
9/9/2012		DRY	64	0	64	0.00	50.9	23.94	0.32		0.59
9/10/2012		DRY	62	0	62	0.00	50.7	25.17	0.33		0.61
9/11/2012		DRY	65	0	65	0.00	50.8	25.79	0.34		0.62
9/12/2012		DRY	63	0	63	0.00	50.7	23.40	0.32		0.58
9/13/2012		DRY	64	0	64	0.00	50.7	21.32	0.30		0.54
9/14/2012		DRY	64	0	64	0.00	50.8	19.18	0.27		0.48
9/15/2012		DRY	62	0	62	0.00	50.6	17.52	0.26		0.43
9/16/2012		DRY	63	0	63	0.00	50.6	16.83	0.25		0.41
9/17/2012		DRY	63	0	63	0.00	50.7	16.15	0.24		0.39
9/18/2012		DRY	62	0	62	0.00	50.5	13.87	0.22		0.29
9/19/2012		DRY	61	0	61	0.00	50.5	11.82	0.19		0.16
9/20/2012		DRY	64	0	64	0.00	50.6	10.35	0.17		0.04
9/21/2012		DRY	63	0	63	0.00	51.4	10.51	0.17		0.06
9/22/2012		DRY	65	0	65	0.00	52.2	10.03	0.16		0.01

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
9/23/2012		DRY	62	0	62	0.00	52.8	11.21	0.18		0.12
9/24/2012	DRY	DRY	61	0	61	0.00	52.9	11.24	0.18		0.12
9/25/2012		DRY	59	0.54	59.54	0.01	52.4	10.99	0.17		0.10
9/26/2012		DRY	64	0.08	64.08	0.00	53.4	10.88	0.17		0.09
9/27/2012		DRY	70	0	70	0.00	55.3	12.80	0.19		0.23
9/28/2012		DRY	68	0	68	0.00	57.4	12.25	0.18		0.19
9/29/2012		DRY	65	0	65	0.00	59.1	11.38	0.16		0.13
9/30/2012		DRY	65	0	65	0.00	59.7	12.02	0.17		0.18
10/1/2012		DRY	65	0	65	0.00	59.8	9.61	0.14		0.00
10/2/2012		DRY	64	0	64	0.00	59.9	13.08	0.18		0.24
10/3/2012		DRY	63	0	63	0.00	60.4	13.30	0.18		0.26
10/4/2012		DRY	63	0	63	0.00	60.5	14.23	0.19		0.30
10/5/2012		DRY	61	0	61	0.00	62.0	13.09	0.17		0.24
10/6/2012		DRY	62	0	62	0.00	62.3	12.62	0.17		0.22
10/7/2012		DRY	66	0	66	0.00	63.0	12.99	0.17		0.24
10/8/2012		DRY	68	0	68	0.00	63.7	13.52	0.18		0.27
10/9/2012		DRY	70	0	70	0.00	64.4	13.17	0.17		0.25
10/10/2012		DRY	66	0	66	0.00	65.1	11.46	0.15		0.14
10/11/2012		WET	210	0	210	0.00	245.9	36.43	0.13		0.73
10/12/2012		WET	56	0	56	0.00	71.0	9.73	0.12		0.00
10/13/2012		DRY	51	0	51	0.00	56.9	6.73	0.11		0.00
10/14/2012		DRY	50	0	50	0.00	55.4	9.56	0.15		0.00
10/15/2012		DRY	37	0	37	0.00	44.8	9.56	0.18		0.00
10/16/2012		DRY	25	0	25	0.00	33.3	9.56	0.22		0.00
10/17/2012		DRY	30	3.1	33.1	0.09	32.0	9.56	0.23		0.00
10/18/2012		WET	46	6.1	52.1	0.12	49.6	9.56	0.16		0.00
10/19/2012		DRY	49	6.1	55.1	0.11	51.1	9.56	0.16		0.00
10/20/2012		DRY	56	6.1	62.1	0.10	57.4	9.56	0.14		0.00
10/21/2012		DRY	56	7.1	63.1	0.11	58.4	9.56	0.14		0.00
10/22/2012		DRY	58	7.8	65.8	0.12	62.4	9.56	0.13		0.00
10/23/2012		DRY	62	7.1	69.1	0.10	66.7	9.56	0.13		0.00
10/24/2012		DRY	54	6.1	60.1	0.10	56.5	9.56	0.14		0.00
10/25/2012		DRY	53	6.1	59.1	0.10	53.4	9.56	0.15		0.00
10/26/2012		DRY	50	6.5	56.5	0.12	53.2	9.56	0.15		0.00
10/27/2012		DRY	53	7.6	60.6	0.13	51.3	9.56	0.16		0.00
10/28/2012		DRY	51	8	59	0.14	51.4	9.56	0.16		0.00
10/29/2012		DRY	52	7.8	59.8	0.13	53.2	9.56	0.15		0.00
10/30/2012	DRY	DRY	52	8	60	0.13	51.7	9.56	0.16		0.00
10/31/2012		DRY	50	4.8	54.8	0.09	51.6	9.56	0.16		0.00
11/1/2012		DRY	52	7.2	59.2	0.12	51.4	9.56	0.16		0.00
11/2/2012		DRY	53	6.6	59.6	0.11	53.1	9.56	0.15		0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
11/3/2012		DRY	54	8	62	0.13	54.5	9.56	0.15		0.00
11/4/2012		DRY	54	7.6	61.6	0.12	52.3	9.56	0.15		0.00
11/5/2012		DRY	49	7.8	56.8	0.14	51.9	10.33	0.17		0.04
11/6/2012	DRY	DRY	49	6.4	55.4	0.12	49.4	10.28	0.17		0.04
11/7/2012		DRY	51	7.6	58.6	0.13	50.3	11.06	0.18		0.10
11/8/2012		DRY	57	9.2	66.2	0.14	57.2	11.80	0.17		0.16
11/9/2012		DRY	61	16	77	0.21	62.7	12.76	0.17		0.22
11/10/2012		DRY	54	27	81	0.33	55.3	10.90	0.16		0.09
11/11/2012		DRY	54	29	83	0.35	53.9	10.44	0.16		0.05
11/12/2012		DRY	52	31	83	0.37	60.1	10.90	0.15		0.09
11/13/2012		WET	55	32	87	0.37	76.2	11.70	0.13		0.15
11/14/2012		DRY	52	23	75	0.31	51.7	12.04	0.19		0.18
11/15/2012		DRY	54	14	68	0.21	51.6	12.91	0.20		0.23
11/16/2012		WET	76	10	86	0.12	78.8	15.41	0.16		0.36
11/17/2012		WET	422	9.8	431.8	0.02	641.8	35.26	0.05		0.72
11/18/2012		WET	94	9.7	103.7	0.09	188.3	18.72	0.09		0.47
11/19/2012		WET	55	8.8	63.8	0.14	63.5	14.66	0.19		0.32
11/20/2012		DRY	54	4.2	58.2	0.07	70.5	16.03	0.19		0.38
11/21/2012		DRY	56	4.9	60.9	0.08	68.5	14.91	0.18		0.34
11/22/2012		DRY	56	6.4	62.4	0.10	72.0	15.54	0.18		0.36
11/23/2012		DRY	57	8	65	0.12	74.0	15.87	0.18		0.38
11/24/2012		DRY	53	8	61	0.13	68.1	14.49	0.18		0.32
11/25/2012		DRY	54	8	62	0.13	67.9	16.48	0.20		0.40
11/26/2012		DRY	57	8	65	0.12	68.8	17.92	0.21		0.45
11/27/2012		DRY	56	8	64	0.13	72.2	20.09	0.22		0.51
11/28/2012		DRY	57	8.2	65.2	0.13	69.6	20.21	0.22		0.51
11/29/2012		WET	223	9.7	232.7	0.04	465.0	24.29	0.05		0.59
11/30/2012		WET	386	9.8	395.8	0.02	777.4	34.06	0.04		0.71
12/1/2012		WET	99	10	109	0.09	141.8	23.48	0.14		0.58
12/2/2012		WET	111	12	123	0.10	221.1	27.53	0.11		0.64
12/3/2012		DRY	278	14	292	0.05	670.6	47.23	0.07		0.79
12/4/2012		WET	63	14	77	0.18	83.9	22.02	0.21		0.55
12/5/2012		DRY	59	13	72	0.18	78.2	18.69	0.19		0.47
12/6/2012		DRY	59	12	71	0.17	74.5	18.25	0.20		0.46
12/7/2012		DRY	59	11	70	0.16	73.9	18.25	0.20		0.46
12/8/2012		DRY	62	9.7	71.7	0.14	79.2	18.25	0.19		0.46
12/9/2012		DRY	60	9.9	69.9	0.14	78.5	18.91	0.19		0.48
12/10/2012		DRY	60	9.7	69.7	0.14	78.6	20.76	0.21		0.52
12/11/2012		DRY	59	4.4	63.4	0.07	75.6	19.71	0.21		0.50
12/12/2012		WET	60	0.47	60.47	0.01	78.3	20.88	0.21		0.53
12/13/2012		WET	203	0.02	203.02	0.00	461.8	40.02	0.08		0.75

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
12/14/2012		WET	68	0.01	68.01	0.00	82.3	19.65	0.19		0.50
12/15/2012		WET	82	0.01	82.01	0.00	112.1	22.44	0.17		0.56
12/16/2012		DRY	82	0.05	82.05	0.00	89.3	17.75	0.17		0.44
12/17/2012		WET	81	0.22	81.22	0.00	114.6	17.70	0.13		0.44
12/18/2012		WET	231	0.31	231.31	0.00	622.1	28.06	0.04		0.65
12/19/2012		WET	59	0	59	0.00	78.6	15.00	0.16		0.34
12/20/2012		DRY	57	0	57	0.00	73.9	15.60	0.17		0.37
12/21/2012		DRY	59	0	59	0.00	74.7	15.59	0.17		0.36
12/22/2012		DRY	64	0	64	0.00	75.1	13.93	0.16		0.29
12/23/2012		WET	87	0	87	0.00	104.1	13.68	0.12		0.28
12/24/2012		WET	950	0.08	950.08	0.00	1551.3	42.36	0.03		0.77
12/25/2012		WET	87	0.02	87.02	0.00	100.8	13.44	0.12		0.26
12/26/2012		WET	181	0.12	181.12	0.00	468.4	28.74	0.06		0.66
12/27/2012		WET	88	0	88	0.00	93.1	14.36	0.13		0.31
12/28/2012		DRY	83	0.25	83.25	0.00	81.5	13.33	0.14		0.26
12/29/2012		WET	94	0.37	94.37	0.00	106.0	29.69	0.22		0.67
12/30/2012		DRY	81	0.35	81.35	0.00	94.1	13.55	0.13		0.27
12/31/2012		DRY	74	0.36	74.36	0.00	82.9	13.17	0.14		0.25
1/1/2013		DRY	70	0.38	70.38	0.01	79.0	13.52	0.15		0.27
1/2/2013		DRY	79	0.36	79.36	0.00	77.5	16.18	0.17		0.39
1/3/2013		DRY	79	0.38	79.38	0.00	79.2	15.87	0.17		0.38
1/4/2013		DRY	82	0.36	82.36	0.00	79.4	16.32	0.17		0.39
1/5/2013		DRY	82	0.5	82.5	0.01	78.0	16.69	0.18		0.41
1/6/2013		DRY	83	0.5	83.5	0.01	81.2	19.94	0.20		0.50
1/7/2013		DRY	84	0.34	84.34	0.00	80.9	17.09	0.17		0.42
1/8/2013		DRY	84	2.2	86.2	0.03	79.2	17.74	0.18		0.44
1/9/2013		DRY	89	5.5	94.5	0.06	84.3	17.87	0.17		0.45
1/10/2013		DRY	85	0.34	85.34	0.00	83.9	18.25	0.18		0.46
1/11/2013		WET	87	0.45	87.45	0.01	80.7	18.55	0.19		0.47
1/12/2013		DRY	86	0.5	86.5	0.01	79.7	18.70	0.19		0.47
1/13/2013		DRY	85	0.34	85.34	0.00	78.7	19.03	0.19		0.48
1/14/2013		DRY	83	0.49	83.49	0.01	77.8	19.71	0.20		0.50
1/15/2013		DRY	84	0.33	84.33	0.00	78.0	20.68	0.21		0.52
1/16/2013		DRY	82	0.36	82.36	0.00	76.4	20.82	0.21		0.52
1/17/2013		DRY	82	0.33	82.33	0.00	77.4	21.82	0.22		0.55
1/18/2013		DRY	80	0.3	80.3	0.00	77.4	21.91	0.22		0.55
1/19/2013		DRY	93	0.33	93.33	0.00	80.6	21.95	0.21		0.55
1/20/2013		DRY	88	0.33	88.33	0.00	82.2	23.15	0.22		0.57
1/21/2013		DRY	85	0.32	85.32	0.00	81.1	22.88	0.22		0.57
1/22/2013		DRY	95	0.34	95.34	0.00	81.9	22.95	0.22		0.57
1/23/2013		DRY	89	0.36	89.36	0.00	83.5	14.41	0.15		0.31

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
1/24/2013		WET	712	0.87	712.87	0.00	1762.9	116.08	0.06		0.91
1/25/2013		WET	453	0.5	453.5	0.00	788.3	18.58	0.02		0.47
1/26/2013		WET	374	0.46	374.46	0.00	528.2	9.53	0.02		0.00
1/27/2013		WET	291	0.71	291.71	0.00	526.1	32.01	0.06		0.69
1/28/2013		WET	94	0.26	94.26	0.00	157.6	15.73	0.09		0.37
1/29/2013		WET	82	0.38	82.38	0.00	83.7	9.61	0.10		0.00
1/30/2013		DRY	88	0.31	88.31	0.00	84.0	8.11	0.09		0.00
1/31/2013		DRY	74	0.26	74.26	0.00	83.2	8.47	0.09		0.00
2/1/2013		DRY	61	0.21	61.21	0.00	81.5	9.59	0.11		0.00
2/2/2013		DRY	58	0	58	0.00	79.9	9.78	0.11		0.00
2/3/2013		DRY	58	0.04	58.04	0.00	77.7	10.24	0.12		0.03
2/4/2013		DRY	67	0.4	67.4	0.01	78.6	10.24	0.12		0.03
2/5/2013	DRY	DRY	88	0.88	88.88	0.01	95.3	10.34	0.10		0.04
2/6/2013		DRY	80	3.4	83.4	0.04	94.5	10.71	0.10		0.08
2/7/2013		DRY	73	3.4	76.4	0.04	90.6	10.40	0.10		0.05
2/8/2013		WET	152	3.4	155.4	0.02	170.9	18.89	0.10		0.48
2/9/2013		WET	84	4	88	0.05	225.9	9.79	0.04		0.00
2/10/2013		WET	69	4.5	73.5	0.06	85.7	9.81	0.10		0.00
2/11/2013		DRY	72	4.3	76.3	0.06	90.6	12.00	0.12		0.18
2/12/2013		DRY	77	4.4	81.4	0.05	93.1	15.98	0.15		0.38
2/13/2013		DRY	71	4.7	75.7	0.06	91.7	10.48	0.10		0.06
2/14/2013		DRY	77	5.7	82.7	0.07	91.4	15.48	0.14		0.36
2/15/2013		DRY	71	5.6	76.6	0.07	92.0	13.12	0.12		0.25
2/16/2013		DRY	74	4.8	78.8	0.06	87.1	13.48	0.13		0.27
2/17/2013		DRY	72	5.5	77.5	0.07	85.6	14.71	0.15		0.33
2/18/2013		WET	71	5.9	76.9	0.08	88.2	14.18	0.14		0.30
2/19/2013		WET	239	6.3	245.3	0.03	197.2	22.93	0.10		0.57
2/20/2013		WET	120	6	126	0.05	388.3	13.99	0.03		0.29
2/21/2013		WET	72	6	78	0.08	84.7	12.80	0.13		0.23
2/22/2013		DRY	67	6.5	73.5	0.09	81.4	13.30	0.14		0.26
2/23/2013		DRY	60	6.8	66.8	0.10	76.7	12.55	0.14		0.21
2/24/2013		DRY	56	0.54	56.54	0.01	66.7	14.22	0.18		0.30
2/25/2013		DRY	57	0	57	0.00	71.6	15.03	0.17		0.34
2/26/2013		DRY	61	0	61	0.00	70.2	15.83	0.18		0.37
2/27/2013		DRY	62	0	62	0.00	76.6	15.26	0.17		0.35
2/28/2013		DRY	63	0	63	0.00	76.7	15.62	0.17		0.37
3/1/2013		DRY	61	0	61	0.00	75.1	16.81	0.18		0.41
3/2/2013		DRY	60	0	60	0.00	74.5	15.76	0.17		0.37
3/3/2013		DRY	62	0	62	0.00	76.8	17.72	0.19		0.44
3/4/2013		DRY	64	0	64	0.00	79.2	17.74	0.18		0.44
3/5/2013		DRY	65	0.21	65.21	0.00	79.0	18.58	0.19		0.47

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
3/6/2013		DRY	67	0.5	67.5	0.01	79.4	18.67	0.19		0.47
3/7/2013		DRY	65	0.56	65.56	0.01	84.7	23.01	0.21		0.57
3/8/2013		WET	1230	1.5	1231.5	0.00	1793.1	202.55	0.10		0.95
3/9/2013		WET	70	0.41	70.41	0.01	106.7	14.36	0.12		0.31
3/10/2013		DRY	62	0.34	62.34	0.01	81.5	12.76	0.14		0.22
3/11/2013		DRY	63	0.36	63.36	0.01	77.4	12.69	0.14		0.22
3/12/2013		DRY	60	0.32	60.32	0.01	79.1	12.82	0.14		0.23
3/13/2013		DRY	60	0.29	60.29	0.00	77.9	12.52	0.14		0.21
3/14/2013		DRY	59	0.24	59.24	0.00	73.4	14.69	0.17		0.33
3/15/2013		DRY	58	0.33	58.33	0.01	73.8	13.82	0.16		0.28
3/16/2013		DRY	60	0.39	60.39	0.01	76.3	13.54	0.15		0.27
3/17/2013		DRY	60	3.4	63.4	0.05	74.4	13.40	0.15		0.26
3/18/2013		DRY	60	3.4	63.4	0.05	74.8	13.13	0.15		0.25
3/19/2013		DRY	62	4	66	0.06	76.0	11.64	0.13		0.15
3/20/2013		DRY	64	3.3	67.3	0.05	80.5	11.04	0.12		0.10
3/21/2013		DRY	62	2.8	64.8	0.04	76.0	11.92	0.14		0.17
3/22/2013		DRY	62	1.8	63.8	0.03	75.3	12.43	0.14		0.20
3/23/2013		DRY	55	2.5	57.5	0.04	75.7	10.59	0.12		0.07
3/24/2013		DRY	53	2.7	55.7	0.05	61.1	11.37	0.16		0.13
3/25/2013		WET	62	2.7	64.7	0.04	74.7	11.33	0.13		0.13
3/26/2013		DRY	63	2.8	65.8	0.04	76.4	11.71	0.13		0.15
3/27/2013		DRY	62	3.1	65.1	0.05	79.2	12.16	0.13		0.19
3/28/2013		DRY	65	4.3	69.3	0.06	79.0	12.78	0.14		0.23
3/29/2013		DRY	63	3.9	66.9	0.06	77.9	12.23	0.14		0.19
3/30/2013		WET	66	5.1	71.1	0.07	78.2	10.03	0.11		0.01
3/31/2013		DRY	68	5.8	73.8	0.08	82.1	10.93	0.12		0.09
4/1/2013		DRY	72	5.3	77.3	0.07	83.6	9.69	0.10		0.00
4/2/2013		DRY	72	5	77	0.06	77.5	10.26	0.12		0.04
4/3/2013		DRY	70	12	82	0.15	76.8	9.11	0.11		0.00
4/4/2013		DRY	70	16	86	0.19	77.2	9.69	0.11		0.00
4/5/2013		DRY	69	16	85	0.19	78.0	8.03	0.09		0.00
4/6/2013		DRY	69	16	85	0.19	77.1	7.42	0.09		0.00
4/7/2013		DRY	69	16	85	0.19	75.9	8.06	0.10		0.00
4/8/2013		DRY	70	15	85	0.18	76.3	9.05	0.11		0.00
4/9/2013		DRY	71	16	87	0.18	76.3	9.05	0.11		0.00
4/10/2013		DRY	73	16	89	0.18	76.7	8.77	0.10		0.00
4/11/2013		DRY	67	18	85	0.21	72.8	8.81	0.11		0.00
4/12/2013		DRY	66	18	84	0.21	73.3	8.77	0.11		0.00
4/13/2013		DRY	69	19	88	0.22	71.9	8.40	0.10		0.00
4/14/2013		DRY	69	20	89	0.22	73.1	9.05	0.11		0.00
4/15/2013		DRY	73	21	94	0.22	75.2	9.05	0.11		0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
4/16/2013		DRY	68	21	89	0.24	73.9	9.05	0.11		0.00
4/17/2013		DRY	66	20	86	0.23	72.6	7.99	0.10		0.00
4/18/2013		DRY	71	19	90	0.21	74.3	8.18	0.10		0.00
4/19/2013		DRY	68	20	88	0.23	73.9	8.26	0.10		0.00
4/20/2013		DRY	68	21	89	0.24	73.1	8.47	0.10		0.00
4/21/2013		DRY	67	21	88	0.24	73.4	9.53	0.11		0.00
4/22/2013	DRY	DRY	63	21	84	0.25	75.0	11.19	0.13		0.12
4/23/2013		DRY	67	19	86	0.22	73.8	14.12	0.16		0.30
4/24/2013		DRY	68	21	89	0.24	75.9	16.44	0.18		0.40
4/25/2013		DRY	62	20	82	0.24	73.1	16.42	0.18		0.40
4/26/2013		DRY	60	18	78	0.23	71.9	15.67	0.18		0.37
4/27/2013		DRY	60	16	76	0.21	68.9	14.88	0.18		0.33
4/28/2013		DRY	63	16	79	0.20	70.7	14.09	0.17		0.30
4/29/2013		DRY	60	16	76	0.21	70.8	12.52	0.15		0.21
4/30/2013		DRY	56	16	72	0.22	65.8	12.88	0.16		0.23
5/1/2013		DRY	55	14	69	0.20	65.3	12.51	0.16		0.21
5/2/2013		DRY	52	13	65	0.20	72.4	12.85	0.15		0.23
5/3/2013		DRY	52	11	63	0.17	63.4	11.26	0.15		0.12
5/4/2013		DRY	53	9.7	62.7	0.15	61.7	11.66	0.16		0.15
5/5/2013		DRY	54	11	65	0.17	62.8	10.94	0.15		0.10
5/6/2013		DRY	443	14	457	0.03	743.1	23.12	0.03		0.57
5/7/2013		DRY	165	12	177	0.07	310.1	138.52	0.31		0.93
5/8/2013		DRY	97	9.3	106.3	0.09	94.6	126.29	0.57		0.92
5/9/2013		DRY	89	8.2	97.2	0.08	96.2	49.55	0.34		0.80
5/10/2013		DRY	90	7.9	97.9	0.08	91.1	12.46	0.12		0.21
5/11/2013		DRY	90	6.2	96.2	0.06	83.6	12.92	0.13		0.23
5/12/2013		DRY	92	5.6	97.6	0.06	80.7	12.57	0.13		0.21
5/13/2013		DRY	93	4.3	97.3	0.04	82.6	12.42	0.13		0.20
5/14/2013	DRY	DRY	88	3.9	91.9	0.04	80.1	15.01	0.16		0.34
5/15/2013		DRY	88	3.5	91.5	0.04	79.5	14.82	0.16		0.33
5/16/2013		DRY	89	4.4	93.4	0.05	82.1	15.20	0.16		0.35
5/17/2013		DRY	92	4.6	96.6	0.05	86.2	15.52	0.15		0.36
5/18/2013		DRY	90	4.8	94.8	0.05	84.0	14.75	0.15		0.33
5/19/2013		DRY	92	4.6	96.6	0.05	82.6	15.51	0.16		0.36
5/20/2013		DRY	92	4.6	96.6	0.05	82.9	15.12	0.15		0.35
5/21/2013		DRY	91	4.6	95.6	0.05	82.8	16.02	0.16		0.38
5/22/2013		DRY	92	4.1	96.1	0.04	89.9	15.67	0.15		0.37
5/23/2013		DRY	90	3.4	93.4	0.04	87.7	15.94	0.15		0.38
5/24/2013		DRY	89	3.4	92.4	0.04	83.8	16.03	0.16		0.38
5/25/2013		WET	90	3.4	93.4	0.04	83.5	15.62	0.16		0.37
5/26/2013		DRY	89	3.4	92.4	0.04	80.7	16.21	0.17		0.39

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
5/27/2013		DRY	87	3.4	90.4	0.04	84.5	14.88	0.15		0.33
5/28/2013		DRY	85	2.8	87.8	0.03	85.3	17.72	0.17		0.44
5/29/2013		DRY	87	2.8	89.8	0.03	85.2	16.89	0.17		0.41
5/30/2013		DRY	86	3.3	89.3	0.04	87.8	17.58	0.17		0.44
5/31/2013		DRY	87	3.4	90.4	0.04	90.0	18.04	0.17		0.45
6/1/2013		DRY	90	3.4	93.4	0.04	91.3	18.22	0.17		0.46
6/2/2013		DRY	86	3.4	89.4	0.04	80.7	18.05	0.18		0.45
6/3/2013		DRY	86	3.4	89.4	0.04	82.4	18.51	0.18		0.47
6/4/2013		DRY	83	3.4	86.4	0.04	86.4	18.46	0.18		0.46
6/5/2013		DRY	83	3.4	86.4	0.04	78.0	18.17	0.19		0.46
6/6/2013		DRY	80	3.4	83.4	0.04	75.8	19.40	0.20		0.49
6/7/2013		DRY	80	3.9	83.9	0.05	78.2	19.82	0.20		0.50
6/8/2013		DRY	82	3.9	85.9	0.05	82.9	19.86	0.19		0.50
6/9/2013		DRY	80	3.9	83.9	0.05	80.7	20.35	0.20		0.51
6/10/2013		DRY	80	3.4	83.4	0.04	80.7	20.77	0.20		0.52
6/11/2013		DRY	80	3.4	83.4	0.04	78.5	20.26	0.21		0.51
6/12/2013		DRY	82	3.4	85.4	0.04	82.4	20.30	0.20		0.51
6/13/2013		DRY	79	3.4	82.4	0.04	77.3	20.03	0.21		0.51
6/14/2013		DRY	81	3.4	84.4	0.04	79.7	20.62	0.21		0.52
6/15/2013		DRY	84	3.4	87.4	0.04	82.9	21.10	0.20		0.53
6/16/2013		DRY	82	3.7	85.7	0.04	77.9	21.10	0.21		0.53
6/17/2013	DRY	DRY	82	4.3	86.3	0.05	76.9	20.84	0.21		0.52
6/18/2013		DRY	81	3.4	84.4	0.04	79.9	22.06	0.22		0.55
6/19/2013		WET	82	3.4	85.4	0.04	80.1	21.43	0.21		0.54
6/20/2013		DRY	78	3.4	81.4	0.04	79.2	21.52	0.21		0.54
6/21/2013		DRY	84	3.4	87.4	0.04	78.2	21.50	0.22		0.54
6/22/2013		DRY	84	3.4	87.4	0.04	77.1	23.96	0.24		0.59
6/23/2013		DRY	84	3.4	87.4	0.04	71.4	23.81	0.25		0.58
6/24/2013		DRY	85	3.4	88.4	0.04	74.9	24.01	0.24		0.59
6/25/2013		DRY	85	4.3	89.3	0.05	74.7	24.43	0.25		0.59
6/26/2013		DRY	90	4.2	94.2	0.04	72.7	22.88	0.24		0.57
6/27/2013		DRY	86	3.4	89.4	0.04	72.4	23.74	0.25		0.58
6/28/2013		DRY	87	3.4	90.4	0.04	72.6	21.34	0.23		0.54
6/29/2013		DRY	84	0.67	84.67	0.01	70.9	21.47	0.23		0.54
6/30/2013		DRY	69	0.5	69.5	0.01	59.3	21.41	0.27		0.54
7/1/2013		DRY	89	0.44	89.44	0.00	76.2	20.88	0.22		0.53
7/2/2013		DRY	83	0.01	83.01	0.00	71.5	22.34	0.24		0.56
7/3/2013		DRY	88	0	88	0.00	76.2	20.32	0.21		0.51
7/4/2013		DRY	86	0	86	0.00	72.3	19.84	0.22		0.50
7/5/2013		DRY	83	0	83	0.00	73.7	19.22	0.21		0.48
7/6/2013		DRY	86	0	86	0.00	72.7	19.13	0.21		0.48

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
7/7/2013		DRY	85	0	85	0.00	72.6	18.12	0.20		0.45
7/8/2013		DRY	86	0	86	0.00	73.2	18.48	0.20		0.46
7/9/2013		DRY	80	0	80	0.00	70.1	18.46	0.21		0.46
7/10/2013		DRY	82	0	82	0.00	77.3	16.47	0.18		0.40
7/11/2013		DRY	88	0	88	0.00	100.8	19.20	0.16		0.48
7/12/2013		DRY	87	0	87	0.00	105.6	16.77	0.14		0.41
7/13/2013		DRY	79	0	79	0.00	93.3	16.51	0.15		0.40
7/14/2013		DRY	84	0	84	0.00	100.4	15.45	0.13		0.36
7/15/2013		DRY	83	0	83	0.00	94.5	15.41	0.14		0.36
7/16/2013		DRY	80	0	80	0.00	88.8	15.45	0.15		0.36
7/17/2013		DRY	83	0	83	0.00	91.3	12.91	0.12		0.23
7/18/2013		DRY	76	0	76	0.00	89.4	12.51	0.12		0.21
7/19/2013		DRY	77	0	77	0.00	89.4	12.46	0.12		0.21
7/20/2013		DRY	80	0	80	0.00	92.2	11.59	0.11		0.15
7/21/2013		DRY	80	0	80	0.00	92.0	10.63	0.10		0.07
7/22/2013		DRY	86	0	86	0.00	88.3	9.58	0.10		0.00
7/23/2013		DRY	77	0	77	0.00	74.5	8.88	0.11		0.00
7/24/2013		DRY	61	0	61	0.00	64.9	7.87	0.11		0.00
7/25/2013		DRY	59	0	59	0.00	61.2	7.01	0.10		0.00
7/26/2013		DRY	58	0	58	0.00	61.9	8.44	0.12		0.00
7/27/2013		DRY	54	0	54	0.00	58.3	7.30	0.11		0.00
7/28/2013		DRY	56	0	56	0.00	64.3	8.05	0.11		0.00
7/29/2013		DRY	56	0	56	0.00	65.9	7.19	0.10		0.00
7/30/2013		DRY	58	0	58	0.00	67.0	8.13	0.11		0.00
7/31/2013		DRY	63	1.8	64.8	0.03	71.5	7.72	0.10		0.00
8/1/2013		DRY	59	3.5	62.5	0.06	66.5	7.40	0.10		0.00
8/2/2013		DRY	58	3.5	61.5	0.06	66.0	7.52	0.10		0.00
8/3/2013		DRY	62	3.4	65.4	0.05	69.6	8.43	0.11		0.00
8/4/2013		DRY	62	2.5	64.5	0.04	70.1	9.19	0.12		0.00
8/5/2013		DRY	62	0.62	62.62	0.01	70.6	10.67	0.13		0.07
8/6/2013	DRY	DRY	61	0.42	61.42	0.01	68.6	10.34	0.13		0.04
8/7/2013		DRY	62	0.43	62.43	0.01	70.5	11.76	0.14		0.16
8/8/2013		DRY	63	0.34	63.34	0.01	70.7	10.70	0.13		0.07
8/9/2013		DRY	63	0.19	63.19	0.00	70.8	8.74	0.11		0.00
8/10/2013		DRY	64	0	64	0.00	71.4	8.20	0.10		0.00
8/11/2013		DRY	63	0	63	0.00	71.5	7.78	0.10		0.00
8/12/2013		DRY	63	0	63	0.00	72.7	8.56	0.11		0.00
8/13/2013		DRY	61	0	61	0.00	68.9	8.44	0.11		0.00
8/14/2013		DRY	60	0	60	0.00	68.5	9.58	0.12		0.00
8/15/2013		DRY	57	0	57	0.00	65.4	9.37	0.13		0.00
8/16/2013		DRY	62	0	62	0.00	70.9	9.71	0.12		0.00

Date	Cu Data Event Type	Event Type	FLOW_LARS	FLOW_TUJW	FLOW_LARS+TUJW	FlowRatio_TUJW to TUJW+LARS	FLOW_LART	FLOW_BWCH	FlowRatio_BWCH to BWCH+LART	FLOW_BWRP	FlowRatio_Above BWRP to BWCH
8/17/2013		DRY	63	0	63	0.00	71.7	8.66	0.11		0.00
8/18/2013		DRY	64	0	64	0.00	73.2	10.44	0.12		0.05
8/19/2013		DRY	68	0	68	0.00	79.3	10.55	0.12		0.06
8/20/2013		DRY	79	0	79	0.00	92.0	10.66	0.10		0.07
8/21/2013		DRY	68	0	68	0.00	80.4	11.05	0.12		0.10
8/22/2013		DRY	64	0	64	0.00	73.1	10.31	0.12		0.04
8/23/2013		DRY	64	0	64	0.00	73.3	11.61	0.14		0.15
8/24/2013		DRY	64	0	64	0.00	72.5	10.00	0.12		0.01
8/25/2013		DRY	65	0	65	0.00	74.8	10.83	0.13		0.09
8/26/2013		DRY	61	0	61	0.00	70.3	10.62	0.13		0.07
8/27/2013		DRY	60	0	60	0.00	68.3	10.19	0.13		0.03
8/28/2013		DRY	59	0	59	0.00	68.0	10.44	0.13		0.05
8/29/2013		DRY	44	0	44	0.00	65.8	10.32	0.14		0.04
8/30/2013		DRY	47	0	47	0.00	67.5	10.06	0.13		0.02
8/31/2013		DRY	50	0	50	0.00	70.5	10.00	0.12		0.01
9/1/2013		DRY	51	0	51	0.00	72.0	10.21	0.12		0.03
9/2/2013		DRY	49	0	49	0.00	70.1	8.66	0.11		0.00
9/3/2013		DRY	48	0	48	0.00	67.2	10.29	0.13		0.04
9/4/2013		DRY	48	0	48	0.00	67.6	9.34	0.12		0.00
9/5/2013		DRY	47	0.23	47.23	0.00	66.1	8.94	0.12		0.00
9/6/2013		DRY	50	0	50	0.00	69.3	9.21	0.12		0.00
9/7/2013		DRY	51	0	51	0.00	69.5	8.13	0.10		0.00
9/8/2013		DRY	52	0	52	0.00	71.7	9.34	0.12		0.00
9/9/2013		DRY	52	0	52	0.00	70.0	10.24	0.13		0.03
9/10/2013		DRY	53	0	53	0.00	72.5	11.89	0.14		0.17
9/11/2013		DRY	50	0	50	0.00	69.4	7.24	0.09		0.00
9/12/2013		DRY	51	0	51	0.00	69.7	8.89	0.11		0.00
9/13/2013		DRY	50	0	50	0.00	69.3	10.93	0.14		0.09
9/14/2013		DRY	50	0	50	0.00	68.6	10.68	0.13		0.07
9/15/2013		DRY	50	0	50	0.00	68.5	11.03	0.14		0.10
9/16/2013		DRY	50	0	50	0.00	69.0	12.81	0.16		0.23
9/17/2013		DRY	51	0	51	0.00	69.5	13.12	0.16		0.25
9/18/2013		DRY	49	0	49	0.00	68.7	12.12	0.15		0.18
9/19/2013		DRY	41	0	41	0.00	58.4	12.04	0.17		0.18
9/20/2013		DRY	52	0	52	0.00	71.1	12.62	0.15		0.22
9/21/2013		DRY	56	0	56	0.00	76.9	12.25	0.14		0.19
9/22/2013		DRY	52	0	52	0.00	72.4	12.30	0.15		0.20
9/23/2013		DRY	52	0	52	0.00	70.8	12.33	0.15		0.20
9/24/2013		DRY	52	0	52	0.00	70.8	11.77	0.14		0.16
9/25/2013		DRY	53	0	53	0.00	72.0	9.45	0.12		0.00
9/26/2013		DRY	53	0	53	0.00	71.5	9.45	0.12		0.00

Date	Cu Data Event Type	Event Type	FLOW_ LARS	FLOW_ TUJW	FLOW LARS+TUJW	FlowRatio_ TUJW to TUJW+ LARS	FLOW_ LART	FLOW_ BWCH	FlowRatio_ BWCH to BWCH+ LART	FLOW_ BWRP	FlowRatio_ Above BWRP to BWCH
9/27/2013		DRY	55	0	55	0.00	74.0	10.29	0.12		0.04
9/28/2013		DRY	53	0	53	0.00	71.0	10.14	0.12		0.02
9/29/2013		DRY	53	0	53	0.00	72.7	10.80	0.13		0.08
9/30/2013		DRY	52	0	52	0.00	71.4	11.73	0.14		0.16

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
10/1/2003	132.94	17.1	0.11								
10/2/2003	132.94	12.6	0.09								
10/3/2003	132.94	11.2	0.08								
10/4/2003	132.94	15.5	0.10								
10/5/2003	132.94	14.9	0.10								
10/6/2003	132.94	8.1	0.06								
10/7/2003	132.94	0.4	0.00	20		16				10	
10/8/2003	132.94	0.3	0.00								
10/9/2003	132.94	0.3	0.00								
10/10/2003	132.94	0.2	0.00								
10/11/2003	132.94	0.2	0.00								
10/12/2003	132.94	0.1	0.00								
10/13/2003	132.94	0.1	0.00								
10/14/2003	132.94	0.3	0.00								
10/15/2003	132.94	0.2	0.00								
10/16/2003	132.94	0.4	0.00								
10/17/2003	132.94	0.1	0.00								
10/18/2003	132.94	0.3	0.00								
10/19/2003	132.76	0.1	0.00								
10/20/2003	130.01	0.1	0.00								
10/21/2003	130.01	0.1	0.00								
10/22/2003	130.01	0.1	0.00								
10/23/2003	130.01	0.1	0.00								
10/24/2003	130.01	0.4	0.00								
10/25/2003	130.01	0.1	0.00								
10/26/2003	130.01	0.1	0.00								
10/27/2003	130.01	0.1	0.00								
10/28/2003	130.01	0.1	0.00					39.8			
10/29/2003	130.01	0.1	0.00								
10/30/2003	130.01	0.1	0.00								
10/31/2003	352.85	10.5	0.03					39.8			
11/1/2003	3303.11	80.4	0.02								
11/2/2003	149.10	0.2	0.00								
11/3/2003	137.81	6.3	0.04								
11/4/2003	135.14	0.4	0.00	16.7							
11/5/2003	132.94	0.2	0.00								
11/6/2003	132.21	0.2	0.00				16.6	25.7			
11/7/2003	130.01	0.2	0.00								
11/8/2003	130.01	0.2	0.00								
11/9/2003	130.01	0.2	0.00								
11/10/2003	130.01	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
11/11/2003	130.01	0.1	0.00								
11/12/2003	160.67	0.1	0.00	32		20.3				15.6	
11/13/2003	154.41	0.1	0.00								
11/14/2003	138.47	0.1	0.00								
11/15/2003	133.25	0.1	0.00								
11/16/2003	132.94	0.1	0.00								
11/17/2003	132.94	0.1	0.00								
11/18/2003	132.94	0.1	0.00								
11/19/2003	132.94	0.1	0.00								
11/20/2003	130.78	0.1	0.00								
11/21/2003	130.01	0.1	0.00								
11/22/2003	130.01	0.1	0.00								
11/23/2003	130.01	0.0	0.00								
11/24/2003	130.01	0.0	0.00								
11/25/2003	129.59	0.0	0.00								
11/26/2003	127.17	0.0	0.00								
11/27/2003	127.17	0.0	0.00								
11/28/2003	127.17	0.0	0.00								
11/29/2003	127.17	0.1	0.00								
11/30/2003	127.17	0.2	0.00								
12/1/2003	127.17	0.1	0.00								
12/2/2003	127.17	0.1	0.00								
12/3/2003	129.62	0.7	0.01								
12/4/2003	130.01	0.4	0.00								
12/5/2003	130.01	0.2	0.00								
12/6/2003	130.01	0.4	0.00								
12/7/2003	131.92	4.8	0.04								
12/8/2003	132.94	0.7	0.01								
12/9/2003	132.70	0.1	0.00	22.6		16.6				17.8	
12/10/2003	130.01	0.6	0.00								
12/11/2003	130.01	2.6	0.02								
12/12/2003	130.01	0.3	0.00								
12/13/2003	130.01	0.1	0.00								
12/14/2003	142.63	21.6	0.13								
12/15/2003	155.37	1.4	0.01								
12/16/2003	141.55	0.0	0.00								
12/17/2003	137.06	0.0	0.00								
12/18/2003	132.66	0.0	0.00								
12/19/2003	130.01	0.0	0.00								
12/20/2003	130.01	0.1	0.00								
12/21/2003	130.01	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
12/22/2003	130.01	9.3	0.07								
12/23/2003	130.01	1.5	0.01								
12/24/2003	134.54	1.5	0.01								
12/25/2003	484.15	1145.2	0.70					25.2			
12/26/2003	164.40	7.6	0.04								
12/27/2003	145.99	0.1	0.00								
12/28/2003	135.35	0.0	0.00								
12/29/2003	131.02	0.1	0.00								
12/30/2003	130.01	0.1	0.00								
12/31/2003	130.01	0.0	0.00								
1/1/2004	129.00	0.1	0.00					24.2			
1/2/2004	193.03	55.7	0.22								
1/3/2004	158.08	0.7	0.00								
1/4/2004	142.56	0.0	0.00								
1/5/2004	136.58	1.3	0.01								
1/6/2004	134.29	0.1	0.00								
1/7/2004	134.63	0.1	0.00								
1/8/2004	138.76	0.0	0.00								
1/9/2004	140.67	0.1	0.00								
1/10/2004	142.00	0.1	0.00								
1/11/2004	142.00	0.2	0.00								
1/12/2004	140.85	0.1	0.00								
1/13/2004	136.28	0.1	0.00	25.9		18.8		17.4		14.4	
1/14/2004	132.94	0.1	0.00								
1/15/2004	132.94	0.1	0.00								
1/16/2004	131.35	0.1	0.00								
1/17/2004	132.35	0.2	0.00								
1/18/2004	135.87	0.1	0.00								
1/19/2004	140.92	0.1	0.00								
1/20/2004	142.00	0.1	0.00								
1/21/2004	144.10	0.1	0.00								
1/22/2004	145.08	0.0	0.00								
1/23/2004	145.08	0.0	0.00								
1/24/2004	143.99	0.1	0.00								
1/25/2004	142.00	0.1	0.00								
1/26/2004	142.00	0.1	0.00								
1/27/2004	142.00	0.1	0.00								
1/28/2004	140.71	1.0	0.01								
1/29/2004	135.56	0.1	0.00								
1/30/2004	131.17	0.1	0.00								
1/31/2004	130.01	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
2/1/2004	130.01	0.0	0.00								
2/2/2004	237.68	68.7	0.22					11.2			
2/3/2004	201.14	15.2	0.07								
2/4/2004	154.63	0.2	0.00								
2/5/2004	141.45	0.1	0.00								
2/6/2004	134.79	0.1	0.00								
2/7/2004	131.01	0.1	0.00								
2/8/2004	128.31	0.0	0.00								
2/9/2004	127.17	0.1	0.00	10.9							
2/10/2004	127.17	0.1	0.00	19		13	12.3	20.3		12	
2/11/2004	127.17	0.1	0.00								
2/12/2004	127.17	0.1	0.00								
2/13/2004	127.17	0.5	0.00								
2/14/2004	127.17	0.1	0.00								
2/15/2004	127.17	0.1	0.00								
2/16/2004	127.17	0.1	0.00								
2/17/2004	127.17	0.1	0.00								
2/18/2004	167.30	33.7	0.17								
2/19/2004	159.60	1.6	0.01								
2/20/2004	145.89	0.2	0.00								
2/21/2004	156.82	43.4	0.22								
2/22/2004	438.23	112.9	0.20								
2/23/2004	204.21	101.6	0.33								
2/24/2004	158.13	0.7	0.00								
2/25/2004	421.59	296.7	0.41								
2/26/2004	1299.36	4756.1	0.79								
2/27/2004	161.12	1.8	0.01								
2/28/2004	148.94	0.2	0.00								
2/29/2004	137.38	0.1	0.00								
3/1/2004	182.20	94.8	0.34								
3/2/2004	271.55	237.2	0.47								
3/3/2004	150.15	0.7	0.00								
3/4/2004	135.88	0.3	0.00								
3/5/2004	131.55	5.0	0.04								
3/6/2004	130.01	0.2	0.00								
3/7/2004	130.01	0.1	0.00								
3/8/2004	130.01	0.1	0.00								
3/9/2004	130.01	0.1	0.00								
3/10/2004	130.01	0.1	0.00								
3/11/2004	130.01	0.1	0.00								
3/12/2004	130.01	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
3/13/2004	131.90	0.1	0.00								
3/14/2004	132.94	0.1	0.00								
3/15/2004	132.94	0.1	0.00								
3/16/2004	135.28	0.1	0.00	26.4		22.3				17.6	
3/17/2004	135.93	0.1	0.00								
3/18/2004	138.40	0.1	0.00								
3/19/2004	138.95	0.1	0.00								
3/20/2004	138.95	0.1	0.00								
3/21/2004	138.95	0.1	0.00								
3/22/2004	138.53	0.1	0.00								
3/23/2004	135.93	0.1	0.00								
3/24/2004	134.96	0.1	0.00								
3/25/2004	131.78	0.1	0.00								
3/26/2004	130.01	0.0	0.00								
3/27/2004	130.01	0.0	0.00								
3/28/2004	130.01	0.3	0.00								
3/29/2004	130.01	0.1	0.00								
3/30/2004	130.01	0.1	0.00				4.9	22.1			
3/31/2004	130.01	0.0	0.00								
4/1/2004	159.76	25.5	0.14								
4/2/2004	159.85	2.0	0.01								
4/3/2004	138.70	0.2	0.00								
4/4/2004	131.10	0.1	0.00								
4/5/2004	127.20	0.2	0.00								
4/6/2004	125.55	0.1	0.00					42.2			
4/7/2004	124.35	0.1	0.00								
4/8/2004	124.35	0.1	0.00								
4/9/2004	124.35	0.1	0.00								
4/10/2004	124.35	0.1	0.00								
4/11/2004	124.35	0.1	0.00								
4/12/2004	124.35	0.0	0.00								
4/13/2004	126.74	0.0	0.00								
4/14/2004	129.69	0.1	0.00								
4/15/2004	130.01	0.0	0.00								
4/16/2004	130.01	0.0	0.00	18.6		19.3				16.3	
4/17/2004	130.01	0.9	0.01								
4/18/2004	130.01	0.2	0.00								
4/19/2004	130.01	0.0	0.00								
4/20/2004	127.29	0.2	0.00								
4/21/2004	127.17	0.1	0.00								
4/22/2004	127.17	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
4/23/2004	127.17	0.1	0.00								
4/24/2004	127.17	0.1	0.00								
4/25/2004	127.17	0.1	0.00								
4/26/2004	127.17	0.1	0.00								
4/27/2004	127.17	0.1	0.00								
4/28/2004	127.17	0.1	0.00								
4/29/2004	127.17	0.1	0.00								
4/30/2004	127.17	0.2	0.00								
5/1/2004	127.17	0.1	0.00								
5/2/2004	127.17	0.1	0.00								
5/3/2004	127.17	0.1	0.00								
5/4/2004	127.17	0.1	0.00	12.9			55.8	54.6			
5/5/2004	127.17	0.1	0.00								
5/6/2004	127.17	0.1	0.00								
5/7/2004	127.17	0.0	0.00								
5/8/2004	127.17	0.0	0.00								
5/9/2004	125.42	0.1	0.00								
5/10/2004	124.35	0.1	0.00								
5/11/2004	124.35	0.1	0.00								
5/12/2004	124.35	0.0	0.00								
5/13/2004	124.35	0.0	0.00								
5/14/2004	124.35	0.1	0.00								
5/15/2004	124.35	0.2	0.00								
5/16/2004	124.35	0.1	0.00								
5/17/2004	124.35	0.1	0.00								
5/18/2004	124.35	0.1	0.00								
5/19/2004	124.35	0.1	0.00								
5/20/2004	124.35	0.4	0.00	22.1		18.3				18.2	
5/21/2004	124.35	0.1	0.00								
5/22/2004	124.35	0.1	0.00								
5/23/2004	124.35	0.1	0.00								
5/24/2004	124.35	0.1	0.00								
5/25/2004	124.78	0.6	0.00								
5/26/2004	127.17	0.1	0.00								
5/27/2004	127.17	0.1	0.00								
5/28/2004	127.17	0.1	0.00								
5/29/2004	127.17	0.1	0.00								
5/30/2004	127.17	0.1	0.00								
5/31/2004	127.17	0.1	0.00								
6/1/2004	127.17	0.1	0.00								
6/2/2004	127.17	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
6/3/2004	127.17	0.3	0.00								
6/4/2004	127.17	0.1	0.00								
6/5/2004	127.17	0.1	0.00								
6/6/2004	127.17	0.1	0.00								
6/7/2004	127.17	0.1	0.00								
6/8/2004	127.17	0.1	0.00	28.4		14.7				22.2	
6/9/2004	127.17	0.1	0.00								
6/10/2004	127.17	0.2	0.00								
6/11/2004	127.17	0.2	0.00								
6/12/2004	127.17	0.0	0.00								
6/13/2004	127.17	0.0	0.00								
6/14/2004	127.17	0.1	0.00								
6/15/2004	127.17	0.1	0.00								
6/16/2004	127.17	0.1	0.00								
6/17/2004	127.17	0.1	0.00								
6/18/2004	127.17	0.1	0.00								
6/19/2004	127.17	0.1	0.00								
6/20/2004	127.17	0.1	0.00								
6/21/2004	127.17	0.1	0.00								
6/22/2004	127.17	0.1	0.00								
6/23/2004	127.17	0.2	0.00								
6/24/2004	127.17	0.1	0.00								
6/25/2004	127.17	0.1	0.00								
6/26/2004	127.17	0.1	0.00								
6/27/2004	127.17	0.0	0.00								
6/28/2004	127.17	0.1	0.00								
6/29/2004	127.17	0.2	0.00								
6/30/2004	127.17	0.1	0.00								
7/1/2004	127.17	0.1	0.00								
7/2/2004	127.17	0.2	0.00								
7/3/2004	127.17	0.0	0.00								
7/4/2004	127.17	0.1	0.00								
7/5/2004	127.17	0.1	0.00								
7/6/2004	127.17	0.1	0.00	19.6		17.1				11	
7/7/2004	127.17	0.1	0.00								
7/8/2004	127.17	0.0	0.00								
7/9/2004	127.17	0.1	0.00								
7/10/2004	127.17	0.0	0.00								
7/11/2004	127.17	0.0	0.00								
7/12/2004	127.17	0.0	0.00								
7/13/2004	127.17	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
7/14/2004	127.17	0.0	0.00								
7/15/2004	127.17	0.1	0.00								
7/16/2004	127.17	0.1	0.00								
7/17/2004	127.17	0.1	0.00								
7/18/2004	127.17	0.1	0.00								
7/19/2004	127.17	0.1	0.00								
7/20/2004	127.17	0.1	0.00								
7/21/2004	127.17	0.0	0.00								
7/22/2004	126.65	0.0	0.00								
7/23/2004	124.35	0.0	0.00								
7/24/2004	124.35	0.0	0.00								
7/25/2004	124.35	0.0	0.00								
7/26/2004	124.35	0.0	0.00								
7/27/2004	124.35	0.1	0.00								
7/28/2004	124.35	0.0	0.00								
7/29/2004	124.35	0.0	0.00								
7/30/2004	124.35	0.0	0.00								
7/31/2004	124.35	0.0	0.00								
8/1/2004	124.35	0.0	0.00								
8/2/2004	126.06	0.1	0.00								
8/3/2004	127.17	0.1	0.00								
8/4/2004	127.17	0.1	0.00	16			21.6	49.2			
8/5/2004	127.17	0.1	0.00								
8/6/2004	127.17	0.1	0.00								
8/7/2004	127.17	0.0	0.00								
8/8/2004	127.17	0.1	0.00								
8/9/2004	129.36	0.0	0.00								
8/10/2004	130.01	0.1	0.00	20		16				24	
8/11/2004	130.01	0.1	0.00								
8/12/2004	130.01	0.1	0.00								
8/13/2004	130.01	0.0	0.00								
8/14/2004	130.01	0.0	0.00								
8/15/2004	130.01	0.0	0.00								
8/16/2004	129.27	0.1	0.00								
8/17/2004	127.17	0.1	0.00								
8/18/2004	127.17	0.1	0.00								
8/19/2004	127.17	0.1	0.00								
8/20/2004	127.17	0.1	0.00								
8/21/2004	127.17	0.1	0.00								
8/22/2004	127.17	0.1	0.00								
8/23/2004	127.17	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
8/24/2004	127.17	0.1	0.00								
8/25/2004	127.17	0.1	0.00								
8/26/2004	127.17	0.1	0.00								
8/27/2004	127.17	0.1	0.00								
8/28/2004	127.17	0.1	0.00								
8/29/2004	127.17	0.1	0.00								
8/30/2004	127.17	0.1	0.00								
8/31/2004	127.17	0.1	0.00								
9/1/2004	127.17	0.0	0.00								
9/2/2004	127.17	0.1	0.00								
9/3/2004	127.17	0.1	0.00								
9/4/2004	127.17	0.1	0.00								
9/5/2004	127.17	0.1	0.00								
9/6/2004	127.17	0.1	0.00								
9/7/2004	127.17	0.1	0.00	21		15				13	
9/8/2004	127.17	0.1	0.00								
9/9/2004	127.17	0.1	0.00								
9/10/2004	127.17	0.1	0.00								
9/11/2004	127.17	0.1	0.00								
9/12/2004	127.17	0.1	0.00								
9/13/2004	127.17	0.1	0.00								
9/14/2004	127.17	0.1	0.00								
9/15/2004	127.17	0.1	0.00								
9/16/2004	127.17	0.1	0.00								
9/17/2004	127.17	0.3	0.00								
9/18/2004	127.17	0.1	0.00								
9/19/2004	127.17	0.2	0.00								
9/20/2004	127.17	0.1	0.00								
9/21/2004	127.17	0.1	0.00								
9/22/2004	127.17	0.1	0.00								
9/23/2004	127.17	0.1	0.00								
9/24/2004	127.17	0.1	0.00								
9/25/2004	127.17	0.1	0.00								
9/26/2004	127.17	0.1	0.00								
9/27/2004	127.17	0.1	0.00								
9/28/2004	127.17	0.3	0.00								
9/29/2004	127.17	0.2	0.00								
9/30/2004	127.17	0.3	0.00								
10/1/2004	127.17	0.6	0.00								
10/2/2004	127.17	0.1	0.00								
10/3/2004	127.17	0.3	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
10/4/2004	125.53	0.9	0.01								
10/5/2004	124.35	1.0	0.01								
10/6/2004	124.35	0.9	0.01								
10/7/2004	124.35	0.9	0.01								
10/8/2004	124.35	1.1	0.01								
10/9/2004	124.35	0.1	0.00								
10/10/2004	124.35	0.1	0.00								
10/11/2004	124.35	0.6	0.00								
10/12/2004	124.35	0.7	0.01	13		17				13	
10/13/2004	124.35	0.8	0.01								
10/14/2004	124.35	0.4	0.00								
10/15/2004	124.35	0.1	0.00								
10/16/2004	125.98	1.7	0.01								
10/17/2004	273.51	268.0	0.49								
10/18/2004	202.66	88.6	0.30								
10/19/2004	418.62	2.2	0.01								
10/20/2004	1069.83	3767.8	0.78								
10/21/2004	161.65	4.7	0.03								
10/22/2004	145.78	0.2	0.00								
10/23/2004	136.68	0.1	0.00								
10/24/2004	131.30	0.1	0.00								
10/25/2004	129.00	0.1	0.00								
10/26/2004	511.94	196.5	0.28								
10/27/2004	518.63	524.7	0.50								
10/28/2004	164.10	26.4	0.14								
10/29/2004	148.80	0.7	0.00								
10/30/2004	136.93	0.2	0.00								
10/31/2004	131.56	0.2	0.00								
11/1/2004	130.01	0.1	0.00								
11/2/2004	130.01	0.0	0.00	9			14.9	53.7			
11/3/2004	130.01	0.1	0.00								
11/4/2004	130.01	0.0	0.00								
11/5/2004	130.01	0.0	0.00								
11/6/2004	130.01	0.1	0.00								
11/7/2004	130.07	0.1	0.00								
11/8/2004	132.94	0.5	0.00								
11/9/2004	132.94	0.2	0.00	18		18				17	
11/10/2004	132.94	0.1	0.00								
11/11/2004	132.94	0.1	0.00								
11/12/2004	135.73	0.1	0.00								
11/13/2004	135.93	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
11/14/2004	135.93	0.1	0.00								
11/15/2004	135.93	0.1	0.00								
11/16/2004	135.93	0.1	0.00								
11/17/2004	135.93	0.1	0.00								
11/18/2004	135.93	0.1	0.00								
11/19/2004	136.05	0.1	0.00								
11/20/2004	138.95	0.1	0.00								
11/21/2004	196.40	72.1	0.27								
11/22/2004	151.61	0.2	0.00								
11/23/2004	141.89	0.0	0.00								
11/24/2004	138.95	0.0	0.00								
11/25/2004	137.06	0.1	0.00								
11/26/2004	134.80	0.1	0.00								
11/27/2004	140.14	12.3	0.08								
11/28/2004	159.96	1.2	0.01								
11/29/2004	142.69	0.3	0.00								
11/30/2004	136.31	0.0	0.00								
12/1/2004	133.24	0.0	0.00								
12/2/2004	130.01	0.0	0.00								
12/3/2004	130.01	0.0	0.00								
12/4/2004	130.01	0.0	0.00								
12/5/2004	190.85	37.2	0.16								
12/6/2004	160.86	2.2	0.01								
12/7/2004	145.27	0.2	0.00								
12/8/2004	154.22	6.5	0.04								
12/9/2004	151.01	0.1	0.00								
12/10/2004	140.86	0.1	0.00								
12/11/2004	136.61	0.1	0.00								
12/12/2004	132.05	0.1	0.00								
12/13/2004	130.01	0.1	0.00								
12/14/2004	130.01	0.1	0.00	18		15				10	
12/15/2004	130.01	0.2	0.00								
12/16/2004	130.01	0.0	0.00								
12/17/2004	130.01	0.0	0.00								
12/18/2004	130.01	0.1	0.00								
12/19/2004	130.01	0.1	0.00								
12/20/2004	130.01	0.0	0.00								
12/21/2004	130.01	0.1	0.00								
12/22/2004	130.01	0.0	0.00								
12/23/2004	130.01	0.0	0.00								
12/24/2004	130.01	0.0	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
12/25/2004	130.01	0.0	0.00								
12/26/2004	130.01	0.0	0.00								
12/27/2004	197.35	8.5	0.04								
12/28/2004	1835.55	881.6	0.32								
12/29/2004	986.14	2347.2	0.70								
12/30/2004	212.52	3.5	0.02								
12/31/2004	655.71	1897.3	0.74								
1/1/2005	172.66	16.4	0.09								
1/2/2005	237.12	205.4	0.46								
1/3/2005	923.31	677.7	0.42								
1/4/2005	197.98	70.7	0.26								
1/5/2005	170.15	44.6	0.21								
1/6/2005	175.07	149.3	0.46								
1/7/2005	714.66	1256.5	0.64								
1/8/2005	814.20	3715.4	0.82								
1/9/2005	3079.56	22377.8	0.88								
1/10/2005	2783.49	20875.1	0.88								
1/11/2005	1519.20	17514.9	0.92	39		62				66	
1/12/2005	583.87	4158.6	0.88								
1/13/2005	341.80	2156.6	0.86								
1/14/2005	255.60	1494.5	0.85								
1/15/2005	237.07	309.9	0.57								
1/16/2005	213.29	258.8	0.55								
1/17/2005	206.33	11.6	0.05								
1/18/2005	190.26	13.6	0.07		8			15			13
1/19/2005	170.15	3.4	0.02								
1/20/2005	170.15	0.3	0.00								
1/21/2005	170.15	0.0	0.00								
1/22/2005	170.15	0.2	0.00								
1/23/2005	170.15	0.2	0.00								
1/24/2005	170.15	0.1	0.00								
1/25/2005	167.56	0.1	0.00								
1/26/2005	170.37	1.2	0.01								
1/27/2005	165.53	0.2	0.00								
1/28/2005	205.73	19.8	0.09								
1/29/2005	167.93	0.4	0.00								
1/30/2005	161.98	4.6	0.03								
1/31/2005	157.75	0.4	0.00								
2/1/2005	157.75	0.1	0.00								
2/2/2005	155.86	0.3	0.00	15							
2/3/2005	152.67	5.0	0.03								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
2/4/2005	151.34	1.9	0.01								
2/5/2005	151.34	3.0	0.02								
2/6/2005	151.34	15.7	0.09								
2/7/2005	151.40	7.6	0.05								
2/8/2005	222.69	9.1	0.04								
2/9/2005	490.82	11.0	0.02								
2/10/2005	1008.81	14.2	0.01								
2/11/2005	1256.76	2278.3	0.64								
2/12/2005	352.15	973.0	0.73								
2/13/2005	179.70	78.0	0.30								
2/14/2005	173.81	36.6	0.17								
2/15/2005	210.16	41.7	0.17	10	4	10	4	12.3		12	22
2/16/2005	254.54	47.9	0.16								
2/17/2005	423.49	152.2	0.26								
2/18/2005	1268.86	929.8	0.42								
2/19/2005	1470.43	11613.6	0.89								
2/20/2005	1741.38	10370.1	0.86								
2/21/2005	976.37	16740.4	0.94								
2/22/2005	917.69	7787.9	0.89								
2/23/2005	1342.80	4646.4	0.78								
2/24/2005	946.12	1451.5	0.61								
2/25/2005	697.27	544.4	0.44								
2/26/2005	496.54	241.1	0.33								
2/27/2005	303.08	166.8	0.35								
2/28/2005	198.98	0.2	0.00								
3/1/2005	178.81	0.4	0.00								
3/2/2005	188.60	1.5	0.01								
3/3/2005	204.81	7.1	0.03								
3/4/2005	335.06	92.7	0.22								
3/5/2005	201.27	139.2	0.41								
3/6/2005	191.88	200.3	0.51								
3/7/2005	189.65	244.9	0.56								
3/8/2005	177.29	485.4	0.73								
3/9/2005	171.44	704.5	0.80								
3/10/2005	170.15	652.1	0.79								
3/11/2005	170.15	344.6	0.67								
3/12/2005	170.15	414.5	0.71								
3/13/2005	170.15	399.9	0.70								
3/14/2005	170.15	422.6	0.71								
3/15/2005	170.15	554.1	0.77	33	4	25		29			
3/16/2005	170.15	662.2	0.80					44		13	10

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
3/17/2005	170.15	473.1	0.74								
3/18/2005	175.39	384.0	0.69								
3/19/2005	177.54	735.6	0.81								
3/20/2005	171.16	534.8	0.76								
3/21/2005	170.15	185.6	0.52								
3/22/2005	500.42	1783.4	0.78								
3/23/2005	215.14	497.0	0.70								
3/24/2005	166.66	83.3	0.33								
3/25/2005	165.53	85.3	0.34								
3/26/2005	163.34	59.8	0.27								
3/27/2005	161.00	91.1	0.36								
3/28/2005	149.04	62.6	0.30								
3/29/2005	137.33	3.5	0.02								
3/30/2005	135.93	2.8	0.02								
3/31/2005	135.93	2.7	0.02								
4/1/2005	135.93	2.6	0.02								
4/2/2005	135.93	2.3	0.02								
4/3/2005	135.93	2.3	0.02								
4/4/2005	135.93	2.0	0.01								
4/5/2005	135.93	2.1	0.02								
4/6/2005	135.93	2.1	0.02								
4/7/2005	135.93	2.2	0.02								
4/8/2005	135.93	2.2	0.02								
4/9/2005	135.93	46.2	0.25								
4/10/2005	135.93	2.3	0.02								
4/11/2005	135.93	5.3	0.04								
4/12/2005	135.93	11.2	0.08								
4/13/2005	135.93	8.9	0.06								
4/14/2005	135.93	6.6	0.05								
4/15/2005	135.93	2.8	0.02								
4/16/2005	135.93	2.1	0.02								
4/17/2005	135.93	1.8	0.01								
4/18/2005	135.93	1.6	0.01								
4/19/2005	135.93	1.2	0.01	28	9	44		177			
4/20/2005	135.93	1.4	0.01					12		6	11
4/21/2005	135.93	0.6	0.00								
4/22/2005	135.93	0.6	0.00								
4/23/2005	135.93	0.5	0.00								
4/24/2005	135.93	1.0	0.01								
4/25/2005	135.93	0.3	0.00								
4/26/2005	135.93	0.2	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
4/27/2005	135.93	0.2	0.00								
4/28/2005	421.26	400.7	0.49								
4/29/2005	159.82	1.0	0.01								
4/30/2005	153.57	0.2	0.00								
5/1/2005	146.87	0.1	0.00								
5/2/2005	143.10	0.1	0.00								
5/3/2005	140.55	0.1	0.00	18							
5/4/2005	137.27	0.1	0.00								
5/5/2005	139.09	0.2	0.00								
5/6/2005	153.83	39.1	0.20								
5/7/2005	136.50	0.4	0.00								
5/8/2005	135.93	0.2	0.00								
5/9/2005	142.98	0.1	0.00								
5/10/2005	144.34	0.1	0.00								
5/11/2005	135.98	0.1	0.00								
5/12/2005	135.93	0.1	0.00				7.2	34.3			
5/13/2005	133.71	0.1	0.00								
5/14/2005	132.94	0.1	0.00								
5/15/2005	132.94	0.1	0.00								
5/16/2005	132.94	0.1	0.00								
5/17/2005	132.94	0.1	0.00	28	14	22		21			
5/18/2005	132.94	0.1	0.00					42		13	26
5/19/2005	132.94	0.1	0.00								
5/20/2005	132.94	0.1	0.00								
5/21/2005	132.94	0.1	0.00								
5/22/2005	132.94	0.1	0.00								
5/23/2005	132.94	0.1	0.00								
5/24/2005	132.94	0.4	0.00								
5/25/2005	132.94	1.3	0.01								
5/26/2005	132.94	0.5	0.00								
5/27/2005	132.94	0.8	0.01								
5/28/2005	132.94	0.5	0.00								
5/29/2005	132.94	0.1	0.00								
5/30/2005	132.94	0.1	0.00								
5/31/2005	132.94	0.1	0.00								
6/1/2005	132.94	0.4	0.00								
6/2/2005	132.94	0.4	0.00								
6/3/2005	132.94	0.2	0.00								
6/4/2005	132.94	0.1	0.00								
6/5/2005	132.94	0.2	0.00								
6/6/2005	132.94	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
6/7/2005	132.94	0.1	0.00	15	122	63		49			
6/8/2005	132.94	0.1	0.00					42		23	17
6/9/2005	132.94	0.1	0.00								
6/10/2005	132.94	0.3	0.00								
6/11/2005	132.94	0.1	0.00								
6/12/2005	132.94	0.1	0.00								
6/13/2005	132.94	0.1	0.00								
6/14/2005	132.94	0.1	0.00								
6/15/2005	132.94	0.1	0.00								
6/16/2005	132.94	0.1	0.00								
6/17/2005	132.94	0.1	0.00								
6/18/2005	132.94	0.1	0.00								
6/19/2005	132.94	0.1	0.00								
6/20/2005	132.94	0.1	0.00								
6/21/2005	132.94	0.1	0.00								
6/22/2005	132.94	0.1	0.00								
6/23/2005	132.94	0.1	0.00								
6/24/2005	132.94	0.1	0.00								
6/25/2005	132.94	0.1	0.00								
6/26/2005	132.94	0.1	0.00								
6/27/2005	132.94	0.1	0.00								
6/28/2005	132.94	0.1	0.00								
6/29/2005	132.94	0.1	0.00								
6/30/2005	132.94	0.1	0.00								
7/1/2005	132.94	0.1	0.00								
7/2/2005	132.94	0.1	0.00								
7/3/2005	132.94	0.1	0.00								
7/4/2005	132.94	0.1	0.00								
7/5/2005	132.94	0.1	0.00								
7/6/2005	132.94	0.1	0.00								
7/7/2005	132.94	0.1	0.00								
7/8/2005	132.94	0.1	0.00								
7/9/2005	132.94	0.1	0.00								
7/10/2005	132.94	0.0	0.00								
7/11/2005	132.94	0.1	0.00								
7/12/2005	132.94	0.1	0.00	24	207	82		29			
7/13/2005	132.94	0.1	0.00					46		15	27
7/14/2005	132.94	0.1	0.00								
7/15/2005	131.14	0.1	0.00								
7/16/2005	130.01	0.1	0.00								
7/17/2005	130.01	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
7/18/2005	130.01	0.1	0.00								
7/19/2005	130.01	0.1	0.00								
7/20/2005	130.01	0.1	0.00								
7/21/2005	130.01	0.1	0.00								
7/22/2005	130.01	0.1	0.00								
7/23/2005	130.01	0.1	0.00								
7/24/2005	130.01	0.1	0.00								
7/25/2005	130.01	0.1	0.00								
7/26/2005	130.01	0.1	0.00								
7/27/2005	130.01	0.1	0.00								
7/28/2005	130.01	0.1	0.00								
7/29/2005	130.01	0.1	0.00								
7/30/2005	131.81	0.1	0.00								
7/31/2005	132.94	0.1	0.00								
8/1/2005	132.94	0.1	0.00								
8/2/2005	132.94	0.1	0.00	14							
8/3/2005	132.94	0.1	0.00								
8/4/2005	132.94	0.1	0.00								
8/5/2005	132.94	0.1	0.00								
8/6/2005	132.94	0.1	0.00								
8/7/2005	132.94	0.1	0.00								
8/8/2005	132.94	0.1	0.00								
8/9/2005	132.94	0.2	0.00	17	37	42	11.6	35.7			
8/10/2005	132.94	0.1	0.00					53		20	28
8/11/2005	132.94	0.1	0.00								
8/12/2005	132.94	0.1	0.00								
8/13/2005	132.94	0.1	0.00								
8/14/2005	132.94	0.1	0.00								
8/15/2005	134.73	0.1	0.00								
8/16/2005	135.15	0.1	0.00								
8/17/2005	132.94	0.1	0.00								
8/18/2005	132.94	0.0	0.00								
8/19/2005	132.94	0.1	0.00								
8/20/2005	132.94	0.1	0.00								
8/21/2005	132.94	0.1	0.00								
8/22/2005	132.94	0.1	0.00								
8/23/2005	132.94	0.2	0.00								
8/24/2005	132.94	0.1	0.00								
8/25/2005	132.94	0.1	0.00								
8/26/2005	132.94	0.1	0.00								
8/27/2005	132.94	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
8/28/2005	132.94	0.0	0.00								
8/29/2005	132.94	0.0	0.00								
8/30/2005	132.94	0.1	0.00								
8/31/2005	132.94	0.1	0.00								
9/1/2005	132.94	0.0	0.00								
9/2/2005	132.94	0.0	0.00								
9/3/2005	132.94	0.0	0.00								
9/4/2005	132.94	0.0	0.00								
9/5/2005	132.94	0.0	0.00								
9/6/2005	132.94	0.0	0.00								
9/7/2005	132.94	0.0	0.00								
9/8/2005	132.94	0.0	0.00								
9/9/2005	132.94	0.0	0.00								
9/10/2005	132.94	0.0	0.00								
9/11/2005	132.94	0.0	0.00								
9/12/2005	132.94	0.0	0.00								
9/13/2005	132.94	0.0	0.00	21	21	21		28			
9/14/2005	132.94	0.0	0.00					56		19	46
9/15/2005	132.94	0.0	0.00								
9/16/2005	134.85	0.0	0.00								
9/17/2005	135.93	0.0	0.00								
9/18/2005	135.93	0.0	0.00								
9/19/2005	135.93	0.0	0.00								
9/20/2005	156.28	12.0	0.07								
9/21/2005	141.57	1.9	0.01								
9/22/2005	135.93	0.0	0.00								
9/23/2005	133.44	0.1	0.00								
9/24/2005	132.94	0.0	0.00								
9/25/2005	132.94	0.0	0.00								
9/26/2005	132.94	0.0	0.00								
9/27/2005	132.94	0.0	0.00								
9/28/2005	132.94	0.0	0.00								
9/29/2005	132.94	0.0	0.00								
9/30/2005	132.94	0.0	0.00								
10/1/2005	132.94	0.0	0.00								
10/2/2005	132.94	0.0	0.00								
10/3/2005	132.94	0.0	0.00								
10/4/2005	132.94	0.0	0.00								
10/5/2005	132.94	0.0	0.00								
10/6/2005	132.94	0.0	0.00								
10/7/2005	132.94	0.0	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
10/8/2005	132.94	0.0	0.00								
10/9/2005	132.94	0.0	0.00								
10/10/2005	132.94	0.0	0.00								
10/11/2005	132.94	0.1	0.00	23	22	30		54			
10/12/2005	132.94	0.1	0.00					63		30	20
10/13/2005	132.94	0.0	0.00								
10/14/2005	132.94	0.0	0.00								
10/15/2005	132.94	0.0	0.00								
10/16/2005	132.94	0.6	0.00								
10/17/2005	1486.86	221.6	0.13								
10/18/2005	1223.21	11.9	0.01								
10/19/2005	507.56	0.3	0.00								
10/20/2005	136.47	0.6	0.00								
10/21/2005	133.40	0.6	0.00								
10/22/2005	132.10	0.4	0.00								
10/23/2005	130.01	0.2	0.00								
10/24/2005	130.01	0.2	0.00								
10/25/2005	130.01	0.3	0.00								
10/26/2005	130.01	0.2	0.00								
10/27/2005	130.01	0.2	0.00								
10/28/2005	130.01	0.1	0.00								
10/29/2005	130.01	0.1	0.00								
10/30/2005	130.01	0.1	0.00								
10/31/2005	130.01	0.1	0.00								
11/1/2005	130.01	0.1	0.00	8			10	18.2			
11/2/2005	130.01	0.2	0.00								
11/3/2005	130.01	0.2	0.00								
11/4/2005	130.01	0.1	0.00								
11/5/2005	132.01	0.1	0.00								
11/6/2005	132.94	0.1	0.00								
11/7/2005	132.94	0.1	0.00								
11/8/2005	132.94	0.4	0.00	23	19	22		36			
11/9/2005	151.68	0.2	0.00					41		13	19
11/10/2005	153.58	0.2	0.00								
11/11/2005	137.71	0.2	0.00								
11/12/2005	135.93	0.3	0.00								
11/13/2005	135.93	0.6	0.00								
11/14/2005	135.93	5.3	0.04								
11/15/2005	135.93	0.7	0.00								
11/16/2005	135.93	0.4	0.00								
11/17/2005	135.93	0.2	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
11/18/2005	135.93	0.1	0.00								
11/19/2005	135.93	0.2	0.00								
11/20/2005	135.93	0.2	0.00								
11/21/2005	135.93	0.1	0.00								
11/22/2005	134.20	0.2	0.00								
11/23/2005	132.94	0.2	0.00								
11/24/2005	132.94	0.3	0.00								
11/25/2005	132.94	0.2	0.00								
11/26/2005	132.94	0.2	0.00								
11/27/2005	132.94	1.5	0.01								
11/28/2005	132.94	1.6	0.01								
11/29/2005	132.94	0.9	0.01								
11/30/2005	132.94	0.5	0.00								
12/1/2005	132.94	0.3	0.00								
12/2/2005	132.94	0.3	0.00								
12/3/2005	132.94	0.3	0.00								
12/4/2005	132.94	0.6	0.00								
12/5/2005	132.94	0.7	0.01								
12/6/2005	132.94	1.0	0.01								
12/7/2005	132.94	0.9	0.01								
12/8/2005	132.94	0.8	0.01								
12/9/2005	132.94	0.2	0.00								
12/10/2005	132.94	0.6	0.00								
12/11/2005	132.94	0.7	0.01								
12/12/2005	132.94	0.7	0.01								
12/13/2005	132.94	0.3	0.00								
12/14/2005	132.94	0.1	0.00	21	17	18		38			
12/15/2005	132.94	0.1	0.00					4			20
12/16/2005	132.94	0.1	0.00								
12/17/2005	132.94	0.8	0.01								
12/18/2005	132.94	1.8	0.01								
12/19/2005	132.94	0.5	0.00								
12/20/2005	132.94	0.3	0.00								
12/21/2005	132.94	0.2	0.00								
12/22/2005	132.94	0.3	0.00								
12/23/2005	132.94	1.5	0.01								
12/24/2005	132.94	2.6	0.02								
12/25/2005	132.94	0.4	0.00								
12/26/2005	132.94	0.3	0.00								
12/27/2005	132.94	0.3	0.00								
12/28/2005	132.94	0.2	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
12/29/2005	132.94	0.2	0.00								
12/30/2005	132.94	0.1	0.00								
12/31/2005	759.49	687.8	0.48								
1/1/2006	2270.14	5.6	0.00								
1/2/2006	4248.78	2140.0	0.33								
1/3/2006	1596.86	0.1	0.00								
1/4/2006	517.89	0.1	0.00								
1/5/2006	155.41	0.1	0.00								
1/6/2006	138.29	0.1	0.00								
1/7/2006	135.93	0.1	0.00								
1/8/2006	135.27	0.2	0.00								
1/9/2006	132.94	0.2	0.00								
1/10/2006	132.94	0.2	0.00								
1/11/2006	132.94	0.2	0.00								
1/12/2006	132.94	0.3	0.00								
1/13/2006	132.94	0.3	0.00								
1/14/2006	132.94	1.0	0.01								
1/15/2006	132.94	0.3	0.00								
1/16/2006	132.94	0.3	0.00								
1/17/2006	132.94	0.3	0.00	21	13	25		24			
1/18/2006	132.94	0.3	0.00					28		12	
1/19/2006	132.94	0.3	0.00								
1/20/2006	132.94	0.3	0.00								
1/21/2006	132.94	0.3	0.00								
1/22/2006	132.94	0.3	0.00								
1/23/2006	132.94	0.3	0.00								
1/24/2006	132.94	0.3	0.00								
1/25/2006	132.94	0.3	0.00								
1/26/2006	132.94	0.3	0.00								
1/27/2006	132.94	0.3	0.00								
1/28/2006	132.94	0.3	0.00								
1/29/2006	132.94	0.3	0.00								
1/30/2006	132.94	0.3	0.00								
1/31/2006	158.69	0.3	0.00								
2/1/2006	184.45	0.3	0.00								
2/2/2006	184.45	0.3	0.00								
2/3/2006	184.45	0.3	0.00								
2/4/2006	184.45	0.3	0.00								
2/5/2006	184.45	0.3	0.00								
2/6/2006	184.45	0.4	0.00								
2/7/2006	184.45	0.3	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
2/8/2006	184.45	0.3	0.00	12			10.6	24			
2/9/2006	184.45	0.3	0.00								
2/10/2006	184.45	0.3	0.00								
2/11/2006	184.45	0.3	0.00								
2/12/2006	184.45	0.3	0.00								
2/13/2006	184.45	0.3	0.00								
2/14/2006	184.45	0.3	0.00	30	19	26		36			
2/15/2006	184.45	0.3	0.00					34		15	32
2/16/2006	184.45	0.3	0.00								
2/17/2006	203.61	0.4	0.00								
2/18/2006	683.84	1.6	0.00								
2/19/2006	540.37	2.8	0.01								
2/20/2006	225.56	0.4	0.00								
2/21/2006	197.76	0.4	0.00								
2/22/2006	189.39	0.4	0.00								
2/23/2006	189.39	0.4	0.00								
2/24/2006	186.24	0.4	0.00								
2/25/2006	184.45	0.4	0.00								
2/26/2006	184.45	0.5	0.00								
2/27/2006	2302.39	6.6	0.00								
2/28/2006	4920.59	71.2	0.01								
3/1/2006	158.11	0.7	0.00								
3/2/2006	142.73	0.4	0.00								
3/3/2006	276.67	8.6	0.03								
3/4/2006	158.32	0.5	0.00								
3/5/2006	156.31	0.2	0.00								
3/6/2006	223.15	1.3	0.01								
3/7/2006	309.11	1.1	0.00								
3/8/2006	148.75	0.4	0.00								
3/9/2006	139.61	0.4	0.00								
3/10/2006	135.93	0.6	0.00								
3/11/2006	168.52	1.0	0.01								
3/12/2006	151.95	0.4	0.00								
3/13/2006	141.21	0.4	0.00								
3/14/2006	135.93	0.4	0.00								
3/15/2006	135.93	0.4	0.00								
3/16/2006	135.93	0.4	0.00								
3/17/2006	143.68	1.1	0.01								
3/18/2006	489.88	0.8	0.00								
3/19/2006	525.20	0.8	0.00								
3/20/2006	150.24	1.8	0.01								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
3/21/2006	220.78	1.8	0.01	20	10	18					
3/22/2006	145.33	0.5	0.00					22		20	20
3/23/2006	138.95	0.5	0.00								
3/24/2006	137.22	0.5	0.00								
3/25/2006	134.91	0.5	0.00								
3/26/2006	132.94	0.5	0.00								
3/27/2006	1612.86	0.5	0.00								
3/28/2006	4210.67	14.8	0.00								
3/29/2006	2027.77	3.0	0.00								
3/30/2006	716.05	0.5	0.00								
3/31/2006	247.66	0.5	0.00								
4/1/2006	236.19	2.8	0.01								
4/2/2006	140.32	0.6	0.00								
4/3/2006	135.93	0.4	0.00								
4/4/2006	581.04	38.5	0.06								
4/5/2006	375.49	49.6	0.12								
4/6/2006	175.12	0.7	0.00								
4/7/2006	163.16	0.7	0.00								
4/8/2006	156.10	0.6	0.00								
4/9/2006	147.33	0.5	0.00								
4/10/2006	145.08	0.5	0.00								
4/11/2006	141.77	2.2	0.02								
4/12/2006	137.67	1.2	0.01								
4/13/2006	135.93	1.2	0.01								
4/14/2006	181.27	3.6	0.02								
4/15/2006	164.74	2.4	0.01								
4/16/2006	150.26	1.2	0.01								
4/17/2006	141.49	1.2	0.01								
4/18/2006	136.81	1.2	0.01								
4/19/2006	135.93	1.2	0.01								
4/20/2006	135.93	1.2	0.01								
4/21/2006	135.93	1.2	0.01								
4/22/2006	135.93	1.2	0.01								
4/23/2006	135.93	1.2	0.01								
4/24/2006	135.93	1.2	0.01								
4/25/2006	135.93	1.2	0.01	14	21	14					
4/26/2006	135.93	0.9	0.01					28		10	23
4/27/2006	135.93	0.9	0.01								
4/28/2006	135.93	0.9	0.01								
4/29/2006	135.93	0.9	0.01								
4/30/2006	135.93	0.9	0.01								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
5/1/2006	135.92	0.9	0.01								
5/2/2006	132.94	0.9	0.01	11			1.2	12.1			
5/3/2006	132.94	0.9	0.01								
5/4/2006	132.94	0.9	0.01								
5/5/2006	132.94	0.9	0.01								
5/6/2006	131.35	0.9	0.01								
5/7/2006	130.01	0.9	0.01								
5/8/2006	130.01	0.9	0.01								
5/9/2006	130.01	0.9	0.01								
5/10/2006	130.01	0.9	0.01								
5/11/2006	130.01	0.9	0.01								
5/12/2006	130.01	0.9	0.01								
5/13/2006	130.01	0.9	0.01								
5/14/2006	130.01	0.9	0.01								
5/15/2006	130.01	0.9	0.01								
5/16/2006	130.01	0.9	0.01	16	17	13					
5/17/2006	130.01	0.9	0.01								
5/18/2006	130.01	0.9	0.01					57		14	23
5/19/2006	130.01	0.9	0.01								
5/20/2006	130.01	0.9	0.01								
5/21/2006	130.01	20.8	0.14								
5/22/2006	297.01	66.6	0.18								
5/23/2006	154.58	2.2	0.01								
5/24/2006	137.47	0.9	0.01								
5/25/2006	135.93	0.9	0.01								
5/26/2006	133.49	0.9	0.01								
5/27/2006	132.94	0.9	0.01								
5/28/2006	132.94	0.9	0.01								
5/29/2006	131.14	0.9	0.01								
5/30/2006	130.01	0.9	0.01								
5/31/2006	130.01	0.9	0.01								
6/1/2006	130.01	0.9	0.01								
6/2/2006	130.01	0.9	0.01								
6/3/2006	130.01	0.8	0.01								
6/4/2006	130.01	0.8	0.01								
6/5/2006	130.01	0.8	0.01								
6/6/2006	130.01	0.8	0.01								
6/7/2006	130.01	0.7	0.01								
6/8/2006	130.01	0.7	0.01								
6/9/2006	130.01	0.7	0.01								
6/10/2006	130.01	0.6	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
6/11/2006	130.01	0.6	0.00								
6/12/2006	130.01	0.6	0.00								
6/13/2006	130.01	0.6	0.00	18	23	15					
6/14/2006	130.01	0.5	0.00					30		10	18
6/15/2006	130.01	0.5	0.00								
6/16/2006	130.01	0.5	0.00								
6/17/2006	130.01	0.5	0.00								
6/18/2006	130.01	0.5	0.00								
6/19/2006	130.01	0.4	0.00								
6/20/2006	130.01	0.4	0.00								
6/21/2006	130.01	0.4	0.00								
6/22/2006	130.01	0.4	0.00								
6/23/2006	130.01	0.4	0.00								
6/24/2006	130.01	0.3	0.00								
6/25/2006	130.01	0.3	0.00								
6/26/2006	130.01	0.3	0.00								
6/27/2006	130.01	0.3	0.00								
6/28/2006	130.01	0.3	0.00								
6/29/2006	130.01	0.3	0.00								
6/30/2006	130.01	0.6	0.00								
7/1/2006	130.01	0.9	0.01								
7/2/2006	130.01	0.9	0.01								
7/3/2006	130.01	0.9	0.01								
7/4/2006	130.01	0.9	0.01								
7/5/2006	130.01	0.9	0.01								
7/6/2006	130.01	0.9	0.01								
7/7/2006	130.01	0.9	0.01								
7/8/2006	130.01	0.9	0.01								
7/9/2006	130.01	0.9	0.01								
7/10/2006	130.01	0.9	0.01	25	63	16					
7/11/2006	130.01	0.9	0.01					14		10	30
7/12/2006	130.01	0.6	0.00								
7/13/2006	130.01	0.3	0.00								
7/14/2006	130.01	0.3	0.00								
7/15/2006	130.01	0.3	0.00								
7/16/2006	130.01	0.3	0.00								
7/17/2006	130.01	0.3	0.00								
7/18/2006	130.01	0.3	0.00								
7/19/2006	130.01	0.3	0.00								
7/20/2006	130.01	0.3	0.00								
7/21/2006	130.01	0.3	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
7/22/2006	130.01	0.3	0.00								
7/23/2006	130.01	0.3	0.00								
7/24/2006	130.01	0.3	0.00								
7/25/2006	130.01	0.3	0.00								
7/26/2006	130.01	0.3	0.00								
7/27/2006	130.01	0.3	0.00								
7/28/2006	130.01	0.3	0.00								
7/29/2006	130.01	0.3	0.00								
7/30/2006	130.01	0.3	0.00								
7/31/2006	130.01	0.3	0.00								
8/1/2006	130.01	0.3	0.00	15							
8/2/2006	131.93	0.3	0.00								
8/3/2006	131.17	0.3	0.00								
8/4/2006	130.12	0.3	0.00								
8/5/2006	130.22	0.3	0.00								
8/6/2006	130.32	0.3	0.00								
8/7/2006	130.42	0.3	0.00								
8/8/2006	130.52	0.3	0.00								
8/9/2006	130.62	0.3	0.00								
8/10/2006	130.72	0.3	0.00								
8/11/2006	130.82	0.3	0.00								
8/12/2006	130.92	0.3	0.00								
8/13/2006	131.02	0.3	0.00								
8/14/2006	131.12	0.3	0.00								
8/15/2006	131.22	0.3	0.00	49	32	34					
8/16/2006	131.32	0.3	0.00					39		30	42
8/17/2006	131.42	0.3	0.00				24.6	38.9			
8/18/2006	131.53	0.3	0.00								
8/19/2006	131.63	0.3	0.00								
8/20/2006	131.73	0.3	0.00								
8/21/2006	131.83	0.3	0.00								
8/22/2006	131.93	0.3	0.00								
8/23/2006	132.03	0.3	0.00								
8/24/2006	132.13	0.3	0.00								
8/25/2006	132.23	0.3	0.00								
8/26/2006	132.33	0.3	0.00								
8/27/2006	132.43	0.3	0.00								
8/28/2006	132.54	0.3	0.00								
8/29/2006	132.64	0.3	0.00								
8/30/2006	132.74	0.3	0.00								
8/31/2006	132.84	0.3	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
9/1/2006	132.93	0.3	0.00								
9/2/2006	132.94	0.3	0.00								
9/3/2006	132.94	0.3	0.00								
9/4/2006	132.94	0.3	0.00								
9/5/2006	132.94	0.3	0.00								
9/6/2006	132.94	0.3	0.00								
9/7/2006	132.94	0.3	0.00								
9/8/2006	132.94	0.3	0.00								
9/9/2006	132.94	0.3	0.00								
9/10/2006	132.94	0.3	0.00								
9/11/2006	132.94	0.3	0.00								
9/12/2006	132.94	0.3	0.00	4	16	9					
9/13/2006	132.94	0.3	0.00					61		14	23
9/14/2006	132.94	0.3	0.00								
9/15/2006	132.94	0.3	0.00								
9/16/2006	132.94	0.3	0.00								
9/17/2006	132.94	0.3	0.00								
9/18/2006	132.94	0.3	0.00								
9/19/2006	132.94	0.3	0.00								
9/20/2006	132.94	0.3	0.00								
9/21/2006	132.94	0.3	0.00								
9/22/2006	132.94	0.3	0.00								
9/23/2006	132.94	0.3	0.00								
9/24/2006	132.94	0.3	0.00								
9/25/2006	132.94	0.3	0.00								
9/26/2006	132.94	0.3	0.00								
9/27/2006	132.94	0.3	0.00								
9/28/2006	132.94	0.3	0.00								
9/29/2006	132.94	0.3	0.00								
9/30/2006	132.94	0.3	0.00								
10/1/2006	132.94	0.3	0.00								
10/2/2006	132.94	0.3	0.00								
10/3/2006	135.67	0.3	0.00								
10/4/2006	138.38	0.3	0.00								
10/5/2006	137.80	0.3	0.00								
10/6/2006	137.22	0.3	0.00								
10/7/2006	136.64	0.3	0.00								
10/8/2006	136.06	0.3	0.00								
10/9/2006	135.48	0.3	0.00								
10/10/2006	134.91	0.3	0.00	35	29	33					
10/11/2006	134.33	0.3	0.00					42		20	20

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
10/12/2006	133.76	0.3	0.00								
10/13/2006	133.19	0.3	0.00								
10/14/2006	132.94	0.3	0.00								
10/15/2006	132.94	0.3	0.00								
10/16/2006	132.94	0.3	0.00								
10/17/2006	132.94	0.3	0.00								
10/18/2006	132.94	0.3	0.00								
10/19/2006	132.94	0.3	0.00								
10/20/2006	132.94	0.3	0.00								
10/21/2006	132.94	0.3	0.00								
10/22/2006	132.94	0.3	0.00								
10/23/2006	132.94	0.3	0.00								
10/24/2006	132.94	0.3	0.00								
10/25/2006	132.94	0.3	0.00								
10/26/2006	132.94	0.3	0.00								
10/27/2006	132.94	0.3	0.00								
10/28/2006	132.94	0.3	0.00								
10/29/2006	132.94	0.3	0.00								
10/30/2006	132.94	0.3	0.00								
10/31/2006	132.94	0.3	0.00								
11/1/2006	132.94	0.3	0.00	16							
11/2/2006	132.94	0.3	0.00								
11/3/2006	132.94	0.3	0.00								
11/4/2006	132.94	0.3	0.00								
11/5/2006	132.94	0.3	0.00								
11/6/2006	132.94	0.3	0.00								
11/7/2006	132.94	0.3	0.00								
11/8/2006	132.94	0.3	0.00				42.9	29.7			
11/9/2006	132.94	0.3	0.00								
11/10/2006	132.94	0.3	0.00								
11/11/2006	132.94	0.3	0.00								
11/12/2006	132.94	0.3	0.00								
11/13/2006	132.94	0.3	0.00								
11/14/2006	132.94	0.3	0.00	28	35	52					
11/15/2006	132.94	0.3	0.00					38		22	27
11/16/2006	132.94	0.3	0.00								
11/17/2006	132.94	0.3	0.00								
11/18/2006	132.94	0.3	0.00								
11/19/2006	132.94	0.3	0.00								
11/20/2006	132.94	0.3	0.00								
11/21/2006	132.94	0.3	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
11/22/2006	132.94	0.3	0.00								
11/23/2006	132.94	0.3	0.00								
11/24/2006	132.94	0.3	0.00								
11/25/2006	132.94	0.3	0.00								
11/26/2006	132.94	0.3	0.00								
11/27/2006	132.94	0.5	0.00								
11/28/2006	132.94	0.3	0.00								
11/29/2006	132.94	0.3	0.00								
11/30/2006	132.94	0.3	0.00								
12/1/2006	132.94	0.3	0.00								
12/2/2006	130.98	0.3	0.00								
12/3/2006	130.01	0.3	0.00								
12/4/2006	130.01	0.3	0.00								
12/5/2006	130.01	0.3	0.00								
12/6/2006	130.01	0.3	0.00								
12/7/2006	130.01	0.3	0.00								
12/8/2006	130.01	0.3	0.00								
12/9/2006	130.01	1.5	0.01								
12/10/2006	232.71	11.2	0.05								
12/11/2006	155.26	0.5	0.00								
12/12/2006	138.71	0.3	0.00	22	13	24					
12/13/2006	134.01	0.3	0.00					40		20	16
12/14/2006	132.94	0.3	0.00								
12/15/2006	130.01	0.3	0.00								
12/16/2006	130.01	0.3	0.00								
12/17/2006	134.11	0.3	0.00								
12/18/2006	134.02	0.3	0.00								
12/19/2006	132.94	0.2	0.00								
12/20/2006	132.94	0.2	0.00								
12/21/2006	132.94	0.2	0.00								
12/22/2006	132.94	0.3	0.00								
12/23/2006	132.94	0.3	0.00								
12/24/2006	132.94	0.3	0.00								
12/25/2006	132.94	0.3	0.00								
12/26/2006	132.94	0.3	0.00								
12/27/2006	167.11	0.3	0.00								
12/28/2006	142.09	0.3	0.00								
12/29/2006	136.93	0.3	0.00								
12/30/2006	135.93	0.3	0.00								
12/31/2006	134.68	0.3	0.00								
1/1/2007	132.94	0.3	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
1/2/2007	132.94	0.3	0.00								
1/3/2007	132.94	0.3	0.00				8.2	7.3			
1/4/2007	132.94	0.3	0.00								
1/5/2007	135.16	0.3	0.00								
1/6/2007	135.93	0.3	0.00								
1/7/2007	134.64	0.3	0.00								
1/8/2007	132.94	0.3	0.00								
1/9/2007	132.94	0.3	0.00								
1/10/2007	132.94	0.3	0.00								
1/11/2007	132.94	0.3	0.00								
1/12/2007	130.60	0.3	0.00								
1/13/2007	130.01	0.3	0.00								
1/14/2007	130.01	0.3	0.00								
1/15/2007	132.94	0.3	0.00								
1/16/2007	132.94	0.3	0.00	40	25	34					
1/17/2007	132.94	0.3	0.00					36		15	
1/18/2007	135.73	0.3	0.00								
1/19/2007	135.93	0.3	0.00								
1/20/2007	135.93	0.3	0.00								
1/21/2007	135.93	0.3	0.00								
1/22/2007	135.93	0.3	0.00								
1/23/2007	135.93	0.3	0.00								
1/24/2007	135.93	0.3	0.00								
1/25/2007	135.93	0.3	0.00								
1/26/2007	135.93	0.3	0.00								
1/27/2007	135.93	0.3	0.00								
1/28/2007	171.71	0.3	0.00								
1/29/2007	136.55	0.3	0.00								
1/30/2007	140.78	0.3	0.00								
1/31/2007	140.78	0.3	0.00								
2/1/2007	135.93	0.3	0.00								
2/2/2007	135.93	0.3	0.00								
2/3/2007	135.93	0.3	0.00								
2/4/2007	135.93	0.3	0.00								
2/5/2007	135.93	0.3	0.00								
2/6/2007	135.93	0.3	0.00								
2/7/2007	135.93	0.3	0.00	34							
2/8/2007	135.93	0.3	0.00								
2/9/2007	135.93	0.3	0.00								
2/10/2007	135.93	0.3	0.00								
2/11/2007	258.81	65.6	0.20								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
2/12/2007	160.92	0.4	0.00								
2/13/2007	151.79	0.4	0.00	30	20	22					
2/14/2007	144.28	0.4	0.00					39		17	11
2/15/2007	138.59	0.4	0.00				10	26			
2/16/2007	135.93	0.4	0.00								
2/17/2007	135.93	0.4	0.00								
2/18/2007	135.93	0.4	0.00								
2/19/2007	187.05	0.8	0.00								
2/20/2007	141.12	0.4	0.00								
2/21/2007	135.93	0.4	0.00								
2/22/2007	202.44	1.2	0.01								
2/23/2007	158.47	0.4	0.00								
2/24/2007	135.99	0.3	0.00								
2/25/2007	135.48	0.3	0.00								
2/26/2007	132.94	0.3	0.00								
2/27/2007	221.01	0.7	0.00								
2/28/2007	140.07	0.3	0.00								
3/1/2007	135.93	0.3	0.00								
3/2/2007	135.93	0.3	0.00								
3/3/2007	135.93	0.3	0.00								
3/4/2007	135.93	0.3	0.00								
3/5/2007	135.93	0.3	0.00								
3/6/2007	135.93	0.3	0.00	18							
3/7/2007	135.93	0.3	0.00				17	40			
3/8/2007	134.26	0.3	0.00								
3/9/2007	132.94	0.3	0.00								
3/10/2007	132.94	0.3	0.00								
3/11/2007	132.94	0.3	0.00								
3/12/2007	132.94	0.3	0.00								
3/13/2007	132.94	0.3	0.00	25	51	34					
3/14/2007	132.94	0.3	0.00					27		21	32
3/15/2007	132.94	0.3	0.00								
3/16/2007	132.94	0.3	0.00								
3/17/2007	132.94	0.3	0.00								
3/18/2007	132.94	0.3	0.00								
3/19/2007	132.94	0.3	0.00								
3/20/2007	134.99	0.3	0.00								
3/21/2007	135.93	0.4	0.00								
3/22/2007	135.93	0.3	0.00								
3/23/2007	135.93	0.3	0.00								
3/24/2007	135.93	0.3	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
3/25/2007	135.30	0.3	0.00								
3/26/2007	132.94	0.3	0.00								
3/27/2007	132.94	0.3	0.00								
3/28/2007	132.94	0.3	0.00								
3/29/2007	132.94	0.3	0.00								
3/30/2007	132.94	0.3	0.00								
3/31/2007	132.94	0.3	0.00								
4/1/2007	132.94	0.2	0.00								
4/2/2007	132.94	0.1	0.00	15							
4/3/2007	131.20	0.0	0.00								
4/4/2007	130.01	0.2	0.00								
4/5/2007	130.01	2.5	0.02								
4/6/2007	130.01	2.3	0.02								
4/7/2007	130.01	1.4	0.01								
4/8/2007	130.01	0.7	0.01								
4/9/2007	128.82	0.3	0.00								
4/10/2007	127.17	0.2	0.00	25	46	20					
4/11/2007	127.17	0.2	0.00				13	25		24	52
4/12/2007	127.17	0.2	0.00								
4/13/2007	127.17	0.2	0.00								
4/14/2007	127.17	0.2	0.00								
4/15/2007	128.66	0.5	0.00								
4/16/2007	130.01	0.2	0.00								
4/17/2007	130.01	0.2	0.00								
4/18/2007	128.06	0.2	0.00								
4/19/2007	127.17	1.9	0.01								
4/20/2007	220.64	89.0	0.29								
4/21/2007	159.90	0.7	0.00								
4/22/2007	139.82	0.8	0.01								
4/23/2007	135.93	1.0	0.01								
4/24/2007	135.93	0.7	0.01								
4/25/2007	133.29	0.7	0.01								
4/26/2007	130.67	0.5	0.00								
4/27/2007	130.01	0.5	0.00								
4/28/2007	130.01	0.5	0.00								
4/29/2007	130.01	0.5	0.00								
4/30/2007	130.01	0.5	0.00								
5/1/2007	130.01	0.5	0.00	10							
5/2/2007	130.01	0.5	0.00								
5/3/2007	130.01	0.4	0.00								
5/4/2007	130.01	0.4	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
5/5/2007	130.01	0.4	0.00								
5/6/2007	130.01	0.4	0.00								
5/7/2007	130.01	0.4	0.00								
5/8/2007	130.01	0.4	0.00								
5/9/2007	130.01	0.4	0.00				20	28.4			
5/10/2007	130.01	0.4	0.00								
5/11/2007	130.01	0.4	0.00								
5/12/2007	130.01	0.4	0.00								
5/13/2007	130.01	0.4	0.00								
5/14/2007	130.01	0.3	0.00								
5/15/2007	130.01	0.3	0.00	28	71	20					
5/16/2007	128.31	0.3	0.00					25		14	28
5/17/2007	127.17	0.3	0.00								
5/18/2007	125.64	0.3	0.00								
5/19/2007	124.35	0.3	0.00								
5/20/2007	124.35	0.3	0.00								
5/21/2007	124.35	0.3	0.00								
5/22/2007	124.35	0.3	0.00								
5/23/2007	124.35	0.3	0.00								
5/24/2007	124.35	0.3	0.00					30.7			
5/25/2007	124.35	0.3	0.00								
5/26/2007	124.35	0.3	0.00								
5/27/2007	124.35	0.3	0.00								
5/28/2007	124.35	0.3	0.00								
5/29/2007	124.35	0.3	0.00								
5/30/2007	124.35	0.3	0.00					22.7			
5/31/2007	124.35	0.3	0.00								
6/1/2007	124.35	0.3	0.00								
6/2/2007	124.35	0.3	0.00								
6/3/2007	124.35	0.3	0.00								
6/4/2007	124.35	0.3	0.00								
6/5/2007	124.35	0.3	0.00	14							
6/6/2007	124.35	0.3	0.00				25	43.2			
6/7/2007	124.35	0.3	0.00								
6/8/2007	124.35	0.3	0.00								
6/9/2007	124.35	0.3	0.00								
6/10/2007	126.77	0.3	0.00								
6/11/2007	127.17	0.3	0.00								
6/12/2007	127.17	0.3	0.00	24	59						
6/13/2007	127.17	0.3	0.00					27.9		12	34
6/14/2007	127.17	0.3	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
6/15/2007	127.17	0.2	0.00								
6/16/2007	127.17	0.2	0.00								
6/17/2007	127.17	0.2	0.00								
6/18/2007	127.17	0.2	0.00								
6/19/2007	127.17	0.2	0.00								
6/20/2007	127.17	0.2	0.00					29.3			
6/21/2007	127.17	0.2	0.00								
6/22/2007	127.17	0.2	0.00								
6/23/2007	127.17	0.2	0.00								
6/24/2007	127.17	0.2	0.00								
6/25/2007	127.17	0.2	0.00								
6/26/2007	127.17	0.2	0.00								
6/27/2007	127.17	0.2	0.00					29.2			
6/28/2007	127.17	0.3	0.00								
6/29/2007	127.17	0.3	0.00								
6/30/2007	128.92	0.3	0.00								
7/1/2007	130.01	0.3	0.00								
7/2/2007	130.01	0.3	0.00	14							
7/3/2007	130.01	0.3	0.00								
7/4/2007	130.01	0.3	0.00								
7/5/2007	130.01	0.3	0.00					15			
7/6/2007	130.01	0.3	0.00								
7/7/2007	130.01	0.3	0.00								
7/8/2007	130.01	0.3	0.00								
7/9/2007	130.01	0.3	0.00								
7/10/2007	130.01	0.3	0.00	20	39						
7/11/2007	130.01	0.3	0.00				38	29.3		12	37
7/12/2007	130.01	0.3	0.00								
7/13/2007	130.01	0.3	0.00								
7/14/2007	130.01	0.3	0.00								
7/15/2007	130.01	0.3	0.00								
7/16/2007	130.01	0.3	0.00								
7/17/2007	130.01	0.3	0.00								
7/18/2007	130.01	0.3	0.00								
7/19/2007	130.01	0.3	0.00					25.7			
7/20/2007	130.01	0.3	0.00								
7/21/2007	130.01	0.4	0.00								
7/22/2007	130.01	0.3	0.00								
7/23/2007	130.01	0.4	0.00								
7/24/2007	130.01	0.4	0.00								
7/25/2007	130.01	0.4	0.00					38.1			

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
7/26/2007	130.01	0.3	0.00								
7/27/2007	130.01	0.3	0.00								
7/28/2007	130.01	0.3	0.00								
7/29/2007	130.01	0.3	0.00								
7/30/2007	130.01	0.3	0.00								
7/31/2007	130.01	0.3	0.00								
8/1/2007	130.01	0.3	0.00								
8/2/2007	130.01	0.3	0.00								
8/3/2007	130.01	0.3	0.00								
8/4/2007	130.01	0.3	0.00								
8/5/2007	130.01	0.3	0.00								
8/6/2007	130.01	0.3	0.00	10			19	11			
8/7/2007	130.01	0.3	0.00								
8/8/2007	130.01	0.3	0.00								
8/9/2007	130.01	0.3	0.00								
8/10/2007	130.01	0.3	0.00								
8/11/2007	130.01	0.3	0.00								
8/12/2007	130.01	0.3	0.00								
8/13/2007	130.01	0.3	0.00								
8/14/2007	130.01	0.3	0.00	12	36						
8/15/2007	130.01	0.3	0.00					33		13	19
8/16/2007	130.01	0.3	0.00								
8/17/2007	130.01	0.3	0.00								
8/18/2007	130.01	0.3	0.00								
8/19/2007	130.01	0.3	0.00								
8/20/2007	130.01	0.3	0.00								
8/21/2007	130.01	0.3	0.00								
8/22/2007	130.01	0.3	0.00								
8/23/2007	130.01	0.3	0.00								
8/24/2007	130.01	0.3	0.00								
8/25/2007	130.01	0.3	0.00								
8/26/2007	130.01	0.3	0.00								
8/27/2007	130.01	0.3	0.00								
8/28/2007	130.01	0.3	0.00								
8/29/2007	130.01	0.3	0.00								
8/30/2007	130.01	0.3	0.00								
8/31/2007	130.01	0.3	0.00								
9/1/2007	130.01	0.3	0.00								
9/2/2007	130.01	0.3	0.00								
9/3/2007	130.01	0.3	0.00								
9/4/2007	130.01	0.4	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
9/5/2007	130.01	0.3	0.00	10							
9/6/2007	130.01	0.3	0.00								
9/7/2007	130.01	0.3	0.00								
9/8/2007	130.01	0.3	0.00								
9/9/2007	130.01	0.3	0.00								
9/10/2007	130.01	0.3	0.00								
9/11/2007	130.01	0.3	0.00	16	35						
9/12/2007	130.01	0.3	0.00				15	26		19	19
9/13/2007	130.01	0.3	0.00								
9/14/2007	130.01	0.3	0.00								
9/15/2007	130.01	0.3	0.00								
9/16/2007	130.01	0.3	0.00								
9/17/2007	130.01	0.3	0.00								
9/18/2007	130.01	0.3	0.00								
9/19/2007	130.01	0.3	0.00								
9/20/2007	130.01	0.3	0.00								
9/21/2007	130.01	0.6	0.00								
9/22/2007	406.33	261.5	0.39								
9/23/2007	154.64	0.4	0.00								
9/24/2007	139.69	0.4	0.00								
9/25/2007	136.08	0.3	0.00								
9/26/2007	132.98	0.3	0.00								
9/27/2007	132.94	0.3	0.00								
9/28/2007	132.94	0.3	0.00								
9/29/2007	131.81	0.3	0.00								
9/30/2007	130.01	0.3	0.00								
10/1/2007	130.01	0.3	0.00								
10/2/2007	130.01	0.3	0.00	13							
10/3/2007	130.01	0.3	0.00								
10/4/2007	130.01	0.3	0.00								
10/5/2007	130.01	0.3	0.00								
10/6/2007	130.01	0.3	0.00								
10/7/2007	130.01	0.2	0.00								
10/8/2007	130.01	0.2	0.00								
10/9/2007	130.01	0.3	0.00								
10/10/2007	130.01	0.3	0.00								
10/11/2007	130.01	0.3	0.00								
10/12/2007	130.01	0.3	0.00								
10/13/2007	266.24	3.8	0.01								
10/14/2007	155.01	0.4	0.00								
10/15/2007	135.53	0.3	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
10/16/2007	132.94	0.3	0.00	13.3							
10/17/2007	132.94	0.3	0.00				12	19.9		10.7	32.7
10/18/2007	131.38	0.3	0.00								
10/19/2007	130.01	0.3	0.00								
10/20/2007	130.01	0.3	0.00								
10/21/2007	130.01	0.3	0.00								
10/22/2007	130.01	0.2	0.00								
10/23/2007	130.01	0.3	0.00								
10/24/2007	130.01	0.3	0.00					24.2			
10/25/2007	130.01	0.3	0.00								
10/26/2007	130.01	0.3	0.00								
10/27/2007	130.01	0.3	0.00								
10/28/2007	130.01	0.3	0.00								
10/29/2007	130.01	0.3	0.00								
10/30/2007	130.01	0.3	0.00								
10/31/2007	130.01	0.3	0.00					20.9			
11/1/2007	130.01	0.3	0.00								
11/2/2007	130.01	0.3	0.00								
11/3/2007	130.01	0.3	0.00								
11/4/2007	130.01	0.3	0.00								
11/5/2007	130.01	0.3	0.00								
11/6/2007	130.01	0.3	0.00	11							
11/7/2007	130.01	0.3	0.00								
11/8/2007	130.01	0.3	0.00				8	28.9			
11/9/2007	130.01	0.5	0.00								
11/10/2007	132.56	0.3	0.00								
11/11/2007	132.94	0.3	0.00								
11/12/2007	132.94	0.2	0.00								
11/13/2007	132.94	0.2	0.00	18.3							
11/14/2007	132.94	0.2	0.00					25.9		12.2	
11/15/2007	132.94	0.4	0.00								
11/16/2007	132.94	0.3	0.00								
11/17/2007	132.94	0.3	0.00								
11/18/2007	132.94	0.3	0.00								
11/19/2007	132.94	0.3	0.00								
11/20/2007	132.94	0.3	0.00								
11/21/2007	132.94	0.3	0.00								
11/22/2007	132.94	0.3	0.00								
11/23/2007	132.94	0.3	0.00								
11/24/2007	132.94	0.2	0.00								
11/25/2007	132.94	0.2	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
11/26/2007	132.94	0.2	0.00								
11/27/2007	132.94	0.3	0.00								
11/28/2007	132.94	0.3	0.00								
11/29/2007	132.94	0.7	0.01								
11/30/2007	313.73	20.0	0.06					139			
12/1/2007	180.21	0.7	0.00								
12/2/2007	132.94	0.3	0.00								
12/3/2007	132.94	0.3	0.00								
12/4/2007	132.94	0.4	0.00	306							
12/5/2007	132.94	0.4	0.00				6	18			
12/6/2007	132.94	0.4	0.00								
12/7/2007	221.76	4.1	0.02					59			
12/8/2007	148.91	0.3	0.00								
12/9/2007	140.12	0.3	0.00								
12/10/2007	136.95	0.3	0.00								
12/11/2007	133.99	0.3	0.00								
12/12/2007	132.94	0.3	0.00								
12/13/2007	132.94	0.2	0.00								
12/14/2007	131.05	0.2	0.00								
12/15/2007	130.01	0.2	0.00								
12/16/2007	130.01	0.2	0.00								
12/17/2007	130.01	0.2	0.00								
12/18/2007	221.65	5.3	0.02	48.7							
12/19/2007	281.63	5.7	0.02					24.5		19.3	18.1
12/20/2007	160.46	0.7	0.00								
12/21/2007	146.30	0.6	0.00								
12/22/2007	137.58	0.3	0.00								
12/23/2007	132.94	0.3	0.00								
12/24/2007	131.08	0.2	0.00								
12/25/2007	130.01	0.2	0.00								
12/26/2007	130.01	0.2	0.00								
12/27/2007	130.01	0.2	0.00								
12/28/2007	130.01	0.2	0.00								
12/29/2007	129.04	0.2	0.00								
12/30/2007	127.17	0.2	0.00								
12/31/2007	127.17	0.3	0.00								
1/1/2008	127.17	0.4	0.00								
1/2/2008	127.17	0.4	0.00	10							
1/3/2008	127.17	23.4	0.16								
1/4/2008	639.00	1633.1	0.72					48.2			
1/5/2008	629.69	2751.9	0.81								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
1/6/2008	307.21	6.9	0.02								
1/7/2008	284.02	2.5	0.01								
1/8/2008	160.90	1.1	0.01								
1/9/2008	150.65	0.8	0.01				5.8	16			
1/10/2008	143.43	0.5	0.00								
1/11/2008	137.63	1.4	0.01								
1/12/2008	133.93	1.9	0.01								
1/13/2008	132.94	1.8	0.01								
1/14/2008	131.55	1.7	0.01								
1/15/2008	134.87	1.6	0.01								
1/16/2008	135.93	1.0	0.01								
1/17/2008	135.93	1.0	0.01								
1/18/2008	133.99	1.0	0.01								
1/19/2008	132.94	1.1	0.01								
1/20/2008	132.94	1.2	0.01								
1/21/2008	132.94	1.4	0.01								
1/22/2008	134.65	1.7	0.01	20.2							
1/23/2008	360.53	7.2	0.02					16.8		11.1	7.33
1/24/2008	354.28	6.0	0.02					31.3			
1/25/2008	944.58	71.5	0.07					32.4			
1/26/2008	191.35	6.6	0.03								
1/27/2008	1047.38	2225.2	0.68								
1/28/2008	392.57	2267.9	0.85								
1/29/2008	203.24	0.1	0.00								
1/30/2008	170.25	0.1	0.00								
1/31/2008	154.17	0.0	0.00								
2/1/2008	140.69	0.1	0.00								
2/2/2008	138.95	0.1	0.00								
2/3/2008	211.98	0.8	0.00								
2/4/2008	162.32	0.1	0.00								
2/5/2008	148.50	0.1	0.00	11.3							
2/6/2008	140.27	0.0	0.00				7	13		8.71	
2/7/2008	138.95	0.0	0.00								
2/8/2008	138.95	0.0	0.00								
2/9/2008	138.95	0.0	0.00								
2/10/2008	138.95	0.0	0.00								
2/11/2008	138.95	0.1	0.00								
2/12/2008	138.95	0.1	0.00	15							
2/13/2008	138.95	0.1	0.00								
2/14/2008	148.34	0.5	0.00								
2/15/2008	138.95	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
2/16/2008	138.95	0.1	0.00								
2/17/2008	138.95	0.1	0.00								
2/18/2008	138.95	0.1	0.00								
2/19/2008	137.84	0.1	0.00								
2/20/2008	145.41	0.5	0.00								
2/21/2008	139.00	0.2	0.00								
2/22/2008	201.32	2.0	0.01								
2/23/2008	155.38	0.2	0.00								
2/24/2008	265.11	2.8	0.01								
2/25/2008	156.19	0.1	0.00								
2/26/2008	140.32	0.1	0.00								
2/27/2008	138.95	0.1	0.00								
2/28/2008	138.95	0.1	0.00								
2/29/2008	138.95	0.1	0.00								
3/1/2008	138.10	0.1	0.00								
3/2/2008	135.93	0.1	0.00								
3/3/2008	135.93	0.1	0.00								
3/4/2008	135.93	0.1	0.00								
3/5/2008	135.93	0.1	0.00	14			9	11			
3/6/2008	135.93	0.1	0.00								
3/7/2008	135.93	0.2	0.00								
3/8/2008	135.93	0.2	0.00								
3/9/2008	135.93	0.2	0.00								
3/10/2008	135.93	0.3	0.00								
3/11/2008	135.93	0.4	0.00								
3/12/2008	135.93	0.4	0.00								
3/13/2008	135.93	0.5	0.00								
3/14/2008	135.93	0.5	0.00								
3/15/2008	135.93	0.6	0.00								
3/16/2008	135.93	0.5	0.00								
3/17/2008	135.93	0.5	0.00								
3/18/2008	135.93	0.5	0.00								
3/19/2008	135.93	0.5	0.00								
3/20/2008	135.93	0.5	0.00								
3/21/2008	135.93	0.5	0.00								
3/22/2008	135.93	0.5	0.00								
3/23/2008	135.93	0.5	0.00								
3/24/2008	135.93	0.5	0.00								
3/25/2008	135.93	0.5	0.00								
3/26/2008	135.93	0.5	0.00								
3/27/2008	134.21	0.5	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
3/28/2008	132.94	0.5	0.00								
3/29/2008	132.94	0.5	0.00								
3/30/2008	132.94	0.5	0.00								
3/31/2008	135.04	0.5	0.00								
4/1/2008	135.93	0.4	0.00								
4/2/2008	135.93	0.4	0.00	14				16.2			
4/3/2008	135.93	0.4	0.00								
4/4/2008	135.93	0.5	0.00								
4/5/2008	135.93	0.5	0.00								
4/6/2008	135.93	0.5	0.00								
4/7/2008	135.93	0.5	0.00								
4/8/2008	135.93	0.6	0.00								
4/9/2008	135.93	0.5	0.00				7	21			
4/10/2008	135.93	0.5	0.00								
4/11/2008	135.93	0.5	0.00								
4/12/2008	135.93	0.5	0.00								
4/13/2008	135.93	0.5	0.00								
4/14/2008	135.93	0.5	0.00								
4/15/2008	135.93	0.5	0.00								
4/16/2008	135.93	0.4	0.00								
4/17/2008	135.93	0.4	0.00								
4/18/2008	135.93	0.4	0.00								
4/19/2008	135.93	0.4	0.00								
4/20/2008	135.93	0.4	0.00								
4/21/2008	135.93	0.4	0.00								
4/22/2008	135.93	0.4	0.00								
4/23/2008	135.93	0.5	0.00								
4/24/2008	135.93	0.5	0.00								
4/25/2008	135.93	0.5	0.00								
4/26/2008	135.93	0.5	0.00								
4/27/2008	135.93	0.6	0.00								
4/28/2008	135.93	0.5	0.00								
4/29/2008	135.93	0.5	0.00	19.6	26.3	18.9					
4/30/2008	135.93	0.5	0.00					18.6		8.34	20.7
5/1/2008	135.93	0.5	0.00								
5/2/2008	135.93	0.5	0.00								
5/3/2008	135.93	0.5	0.00								
5/4/2008	135.93	0.5	0.00								
5/5/2008	135.93	0.5	0.00								
5/6/2008	135.93	0.5	0.00								
5/7/2008	137.19	0.5	0.00	13.4			95	24			

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
5/8/2008	138.95	0.5	0.00								
5/9/2008	138.95	0.5	0.00								
5/10/2008	138.95	0.6	0.00								
5/11/2008	138.95	0.5	0.00								
5/12/2008	138.95	0.6	0.00								
5/13/2008	138.95	0.6	0.00	14.5	19.2	26.5					
5/14/2008	138.95	0.5	0.00					16.4		8.87	22.6
5/15/2008	138.95	0.4	0.00								
5/16/2008	138.95	0.4	0.00								
5/17/2008	138.95	0.4	0.00								
5/18/2008	138.95	0.4	0.00								
5/19/2008	138.95	0.4	0.00								
5/20/2008	138.95	0.4	0.00								
5/21/2008	138.95	0.4	0.00								
5/22/2008	138.95	1.5	0.01								
5/23/2008	138.95	1.2	0.01								
5/24/2008	143.30	0.9	0.01								
5/25/2008	139.14	0.9	0.01								
5/26/2008	138.95	0.8	0.01								
5/27/2008	138.95	0.7	0.00								
5/28/2008	138.95	0.7	0.00								
5/29/2008	138.95	0.7	0.00								
5/30/2008	138.95	0.7	0.00								
5/31/2008	138.95	0.7	0.00								
6/1/2008	138.95	0.7	0.00								
6/2/2008	138.95	0.7	0.00								
6/3/2008	138.95	0.7	0.00								
6/4/2008	138.95	0.4	0.00	13.6							
6/5/2008	138.95	0.0	0.00								
6/6/2008	138.95	0.0	0.00								
6/7/2008	138.95	0.0	0.00								
6/8/2008	138.95	0.0	0.00								
6/9/2008	138.95	0.0	0.00								
6/10/2008	138.95	0.0	0.00								
6/11/2008	138.95	0.0	0.00				14	16			
6/12/2008	138.95	0.0	0.00								
6/13/2008	137.93	0.0	0.00								
6/14/2008	135.93	0.0	0.00								
6/15/2008	135.93	0.0	0.00								
6/16/2008	134.85	0.0	0.00								
6/17/2008	132.94	0.0	0.00	16.5	42.2	16					

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
6/18/2008	131.40	0.0	0.00					32.3		16.3	85.5
6/19/2008	130.01	0.0	0.00								
6/20/2008	130.01	0.1	0.00								
6/21/2008	130.01	0.1	0.00								
6/22/2008	130.01	0.1	0.00								
6/23/2008	130.01	0.1	0.00								
6/24/2008	130.01	0.1	0.00								
6/25/2008	130.01	0.0	0.00								
6/26/2008	130.01	0.0	0.00								
6/27/2008	130.01	0.0	0.00								
6/28/2008	130.01	0.0	0.00								
6/29/2008	130.01	0.0	0.00								
6/30/2008	130.01	0.0	0.00								
7/1/2008	130.01	0.0	0.00								
7/2/2008	128.95	0.0	0.00	11.7			62	48			
7/3/2008	127.17	0.0	0.00								
7/4/2008	129.07	0.0	0.00								
7/5/2008	130.01	0.0	0.00								
7/6/2008	130.01	0.0	0.00								
7/7/2008	130.01	0.1	0.00								
7/8/2008	130.01	0.1	0.00								
7/9/2008	129.04	0.1	0.00								
7/10/2008	127.17	0.0	0.00								
7/11/2008	125.49	0.0	0.00								
7/12/2008	124.35	0.0	0.00								
7/13/2008	126.55	0.1	0.00								
7/14/2008	127.17	0.1	0.00								
7/15/2008	127.17	0.1	0.00	13.3	40.7	14.6					
7/16/2008	126.05	0.0	0.00					23.2		13.7	81.7
7/17/2008	124.35	0.0	0.00								
7/18/2008	124.35	0.0	0.00								
7/19/2008	126.99	0.0	0.00								
7/20/2008	127.17	0.0	0.00								
7/21/2008	127.17	0.0	0.00								
7/22/2008	127.17	0.0	0.00								
7/23/2008	127.17	0.0	0.00								
7/24/2008	127.17	0.0	0.00								
7/25/2008	127.17	0.0	0.00								
7/26/2008	127.17	0.0	0.00								
7/27/2008	127.17	0.0	0.00								
7/28/2008	129.51	0.0	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
7/29/2008	130.04	0.1	0.00								
7/30/2008	130.01	0.0	0.00								
7/31/2008	130.01	0.0	0.00								
8/1/2008	130.01	0.1	0.00								
8/2/2008	130.01	0.3	0.00								
8/3/2008	130.01	0.3	0.00								
8/4/2008	130.01	0.3	0.00								
8/5/2008	130.01	0.3	0.00								
8/6/2008	130.01	0.3	0.00	11.3			26	28			
8/7/2008	130.01	0.3	0.00								
8/8/2008	130.01	0.3	0.00								
8/9/2008	130.01	0.3	0.00								
8/10/2008	130.01	0.3	0.00								
8/11/2008	128.82	0.3	0.00								
8/12/2008	127.17	0.3	0.00	13.3	41.4	17.9					
8/13/2008	127.17	0.3	0.00					24.1		16.2	46.7
8/14/2008	127.17	0.3	0.00								
8/15/2008	127.17	0.3	0.00								
8/16/2008	127.17	0.3	0.00								
8/17/2008	127.17	0.3	0.00								
8/18/2008	127.17	0.3	0.00								
8/19/2008	127.17	0.3	0.00								
8/20/2008	127.17	0.3	0.00								
8/21/2008	127.17	0.3	0.00								
8/22/2008	127.17	0.3	0.00								
8/23/2008	127.17	0.3	0.00								
8/24/2008	127.17	0.3	0.00								
8/25/2008	127.17	0.2	0.00								
8/26/2008	127.17	0.2	0.00								
8/27/2008	127.17	0.2	0.00								
8/28/2008	127.17	0.2	0.00								
8/29/2008	127.17	0.2	0.00								
8/30/2008	127.17	0.2	0.00								
8/31/2008	127.17	0.2	0.00								
9/1/2008	127.17	0.2	0.00								
9/2/2008	127.17	0.2	0.00								
9/3/2008	127.17	0.2	0.00	9.8							
9/4/2008	127.17	0.2	0.00								
9/5/2008	127.17	0.2	0.00								
9/6/2008	127.17	0.2	0.00								
9/7/2008	127.17	0.2	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
9/8/2008	127.17	0.2	0.00								
9/9/2008	127.17	0.2	0.00								
9/10/2008	127.17	0.3	0.00				6	20			
9/11/2008	126.72	0.3	0.00								
9/12/2008	127.17	0.2	0.00								
9/13/2008	129.62	0.2	0.00								
9/14/2008	130.01	0.2	0.00								
9/15/2008	130.01	0.2	0.00								
9/16/2008	130.01	0.2	0.00								
9/17/2008	130.01	0.2	0.00								
9/18/2008	130.01	0.2	0.00								
9/19/2008	130.01	0.2	0.00								
9/20/2008	130.01	0.2	0.00								
9/21/2008	130.01	0.2	0.00								
9/22/2008	130.01	0.2	0.00								
9/23/2008	130.01	0.2	0.00								
9/24/2008	130.01	0.2	0.00								
9/25/2008	130.01	0.2	0.00								
9/26/2008	130.01	0.2	0.00								
9/27/2008	128.96	0.2	0.00								
9/28/2008	127.17	0.2	0.00								
9/29/2008	127.17	0.1	0.00								
9/30/2008	127.17	0.1	0.00								
10/1/2008	127.17	0.1	0.00								
10/2/2008	28.04	0.1	0.00								
10/3/2008	9.87	0.1	0.01								
10/4/2008	77.37	0.4	0.01								
10/5/2008	130.01	0.7	0.01								
10/6/2008	130.01	0.5	0.00								
10/7/2008	130.01	0.5	0.00	12.1	34	13.5		20.8			
10/8/2008	130.01	0.5	0.00				27	25	24	9.69	26
10/9/2008	130.01	0.5	0.00								
10/10/2008	130.01	0.5	0.00								
10/11/2008	130.01	0.4	0.00								
10/12/2008	130.01	0.4	0.00								
10/13/2008	130.01	0.4	0.00								
10/14/2008	130.01	0.4	0.00								
10/15/2008	131.29	0.4	0.00								
10/16/2008	132.94	0.4	0.00								
10/17/2008	132.94	0.4	0.00								
10/18/2008	132.94	0.4	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
10/19/2008	132.94	0.4	0.00								
10/20/2008	132.94	0.4	0.00								
10/21/2008	132.94	0.4	0.00								
10/22/2008	132.94	0.4	0.00								
10/23/2008	132.94	0.4	0.00								
10/24/2008	132.94	0.4	0.00								
10/25/2008	132.94	0.4	0.00								
10/26/2008	132.94	0.4	0.00								
10/27/2008	132.94	0.4	0.00								
10/28/2008	132.94	0.4	0.00								
10/29/2008	132.94	0.4	0.00								
10/30/2008	132.94	0.4	0.00								
10/31/2008	132.94	0.5	0.00								
11/1/2008	139.65	0.8	0.01								
11/2/2008	148.11	0.6	0.00								
11/3/2008	138.95	0.5	0.00								
11/4/2008	156.01	1.6	0.01								
11/5/2008	139.85	0.5	0.00								
11/6/2008	138.95	0.5	0.00								
11/7/2008	138.95	0.4	0.00								
11/8/2008	138.95	0.4	0.00								
11/9/2008	138.95	0.4	0.00								
11/10/2008	138.95	0.4	0.00								
11/11/2008	137.11	0.4	0.00								
11/12/2008	135.93	0.4	0.00	7.2	19.1	6.73	69	53	26		
11/13/2008	135.93	1.5	0.01							14.5	20.6
11/14/2008	133.59	2.4	0.02								
11/15/2008	132.94	2.4	0.02								
11/16/2008	132.94	2.4	0.02								
11/17/2008	132.94	2.4	0.02								
11/18/2008	132.94	2.4	0.02								
11/19/2008	132.94	2.4	0.02								
11/20/2008	132.94	2.4	0.02								
11/21/2008	132.94	2.4	0.02								
11/22/2008	132.94	2.4	0.02								
11/23/2008	132.94	2.4	0.02								
11/24/2008	132.94	2.4	0.02								
11/25/2008	135.57	7.4	0.05								
11/26/2008	549.24	220.2	0.29								
11/27/2008	169.61	0.7	0.00								
11/28/2008	151.37	0.7	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
11/29/2008	141.29	0.7	0.00								
11/30/2008	135.65	0.7	0.01								
12/1/2008	132.31	0.7	0.01								
12/2/2008	130.01	0.7	0.01								
12/3/2008	129.35	0.5	0.00	8.2			9	20	15		
12/4/2008	127.17	0.5	0.00								
12/5/2008	127.17	0.5	0.00								
12/6/2008	127.17	0.5	0.00								
12/7/2008	127.17	0.5	0.00								
12/8/2008	127.17	0.5	0.00								
12/9/2008	127.17	0.5	0.00	9.03	27.8	8.75		7.11			
12/10/2008	127.17	0.5	0.00							8.14	0.08
12/11/2008	127.17	0.4	0.00								
12/12/2008	127.17	0.4	0.00								
12/13/2008	127.17	0.4	0.00								
12/14/2008	127.17	189.1	0.60								
12/15/2008	580.50	598.0	0.51								
12/16/2008	169.15	0.9	0.01								
12/17/2008	185.23	3.6	0.02								
12/18/2008	159.80	1.0	0.01								
12/19/2008	137.61	0.9	0.01								
12/20/2008	134.38	0.9	0.01								
12/21/2008	132.94	0.9	0.01								
12/22/2008	159.99	1.6	0.01								
12/23/2008	140.05	0.9	0.01								
12/24/2008	135.93	0.9	0.01								
12/25/2008	165.59	0.7	0.00								
12/26/2008	141.95	0.6	0.00								
12/27/2008	135.38	0.6	0.00								
12/28/2008	132.94	0.6	0.00								
12/29/2008	132.94	0.5	0.00								
12/30/2008	132.94	0.5	0.00								
12/31/2008	132.94	0.5	0.00								
1/1/2009	132.94	0.5	0.00								
1/2/2009	132.94	0.4	0.00								
1/3/2009	132.94	0.4	0.00								
1/4/2009	132.94	0.4	0.00								
1/5/2009	132.94	0.4	0.00								
1/6/2009	132.94	0.3	0.00								
1/7/2009	132.94	0.3	0.00	8.3			9	10	13		
1/8/2009	132.94	0.3	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
1/9/2009	132.94	0.3	0.00								
1/10/2009	132.94	0.3	0.00								
1/11/2009	132.94	0.2	0.00								
1/12/2009	132.94	0.2	0.00								
1/13/2009	132.94	0.2	0.00	8.84	11.6	9.9		8.02			
1/14/2009	132.94	0.2	0.00							6.2	
1/15/2009	132.94	0.2	0.00								
1/16/2009	132.94	0.2	0.00								
1/17/2009	132.94	0.2	0.00								
1/18/2009	132.94	0.1	0.00								
1/19/2009	132.94	0.1	0.00								
1/20/2009	132.94	0.1	0.00								
1/21/2009	132.94	0.1	0.00								
1/22/2009	134.67	0.1	0.00								
1/23/2009	167.31	0.5	0.00								
1/24/2009	164.05	0.3	0.00								
1/25/2009	143.17	0.2	0.00								
1/26/2009	138.95	0.2	0.00								
1/27/2009	138.95	0.2	0.00								
1/28/2009	138.95	0.2	0.00								
1/29/2009	138.95	0.2	0.00								
1/30/2009	138.95	0.2	0.00								
1/31/2009	138.95	0.2	0.00								
2/1/2009	138.95	0.2	0.00								
2/2/2009	138.95	0.1	0.00								
2/3/2009	138.95	0.1	0.00	12.4							
2/4/2009	138.95	23.6	0.15				33	18	15		
2/5/2009	415.34	263.0	0.39			46.6					
2/6/2009	567.63	452.5	0.44								
2/7/2009	326.32	4.0	0.01								
2/8/2009	166.45	187.4	0.53								
2/9/2009	209.83	1.0	0.00								
2/10/2009	155.75	0.3	0.00								
2/11/2009	140.79	0.3	0.00								
2/12/2009	138.95	0.3	0.00								
2/13/2009	178.26	0.9	0.01								
2/14/2009	152.64	0.3	0.00								
2/15/2009	138.95	0.3	0.00								
2/16/2009	592.79	412.5	0.41								
2/17/2009	212.37	26.8	0.11								
2/18/2009	169.40	0.2	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
2/19/2009	156.12	0.2	0.00								
2/20/2009	142.77	0.2	0.00								
2/21/2009	138.95	0.2	0.00								
2/22/2009	138.95	0.2	0.00								
2/23/2009	138.95	0.2	0.00								
2/24/2009	138.95	0.2	0.00								
2/25/2009	138.95	0.2	0.00								
2/26/2009	138.95	0.2	0.00								
2/27/2009	138.95	0.2	0.00								
2/28/2009	138.95	0.2	0.00								
3/1/2009	138.95	0.2	0.00								
3/2/2009	138.95	0.2	0.00								
3/3/2009	138.95	0.2	0.00								
3/4/2009	183.81	0.4	0.00			39.7					
3/5/2009	155.39	0.3	0.00								
3/6/2009	138.95	0.2	0.00								
3/7/2009	138.95	0.2	0.00								
3/8/2009	138.95	0.2	0.00								
3/9/2009	138.95	0.2	0.00								
3/10/2009	138.95	0.2	0.00				39	31	14		
3/11/2009	138.95	0.2	0.00								
3/12/2009	138.95	0.2	0.00								
3/13/2009	138.95	0.2	0.00								
3/14/2009	138.95	0.2	0.00								
3/15/2009	138.95	0.1	0.00								
3/16/2009	138.95	0.1	0.00								
3/17/2009	138.95	0.1	0.00								
3/18/2009	138.95	0.1	0.00								
3/19/2009	138.95	0.1	0.00								
3/20/2009	138.95	0.1	0.00								
3/21/2009	138.95	0.1	0.00								
3/22/2009	138.95	0.2	0.00								
3/23/2009	138.95	0.2	0.00								
3/24/2009	138.95	0.2	0.00								
3/25/2009	138.95	0.2	0.00								
3/26/2009	138.95	0.2	0.00								
3/27/2009	138.95	0.2	0.00								
3/28/2009	138.95	0.1	0.00								
3/29/2009	138.95	0.1	0.00								
3/30/2009	138.95	0.1	0.00								
3/31/2009	138.95	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
4/1/2009	138.95	0.1	0.00				43	17	27		
4/2/2009	138.95	0.1	0.00								
4/3/2009	138.95	0.1	0.00								
4/4/2009	138.95	0.1	0.00								
4/5/2009	138.95	0.1	0.00								
4/6/2009	138.95	0.1	0.00								
4/7/2009	138.95	0.1	0.00								
4/8/2009	138.95	0.1	0.00								
4/9/2009	138.95	0.1	0.00								
4/10/2009	138.95	0.1	0.00								
4/11/2009	138.95	0.1	0.00								
4/12/2009	138.95	0.1	0.00								
4/13/2009	138.95	0.1	0.00								
4/14/2009	138.95	0.1	0.00	6.16	143	10.4		6.16			
4/15/2009	138.95	0.1	0.00							5.18	
4/16/2009	138.95	0.1	0.00								
4/17/2009	138.95	0.1	0.00								
4/18/2009	138.95	0.1	0.00								
4/19/2009	138.95	0.1	0.00								
4/20/2009	138.95	0.1	0.00								
4/21/2009	138.95	0.1	0.00								
4/22/2009	138.95	0.1	0.00								
4/23/2009	138.95	0.1	0.00								
4/24/2009	138.95	0.1	0.00								
4/25/2009	138.95	0.1	0.00								
4/26/2009	138.95	0.1	0.00								
4/27/2009	138.95	0.1	0.00								
4/28/2009	138.95	0.1	0.00								
4/29/2009	138.95	0.1	0.00								
4/30/2009	138.95	0.1	0.00								
5/1/2009	138.95	0.1	0.00								
5/2/2009	138.95	0.1	0.00								
5/3/2009	138.95	0.1	0.00								
5/4/2009	138.95	0.1	0.00								
5/5/2009	138.95	0.1	0.00	8.5							
5/6/2009	138.95	0.1	0.00				19	15	19		
5/7/2009	138.95	0.1	0.00								
5/8/2009	138.95	0.1	0.00								
5/9/2009	138.95	0.1	0.00								
5/10/2009	138.95	0.1	0.00								
5/11/2009	138.95	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
5/12/2009	138.95	0.1	0.00	12.6	17.9	14.7		13.4			
5/13/2009	138.95	0.1	0.00							8.04	
5/14/2009	138.95	0.1	0.00								
5/15/2009	138.95	0.1	0.00								
5/16/2009	138.95	0.1	0.00								
5/17/2009	138.37	0.1	0.00								
5/18/2009	135.93	0.1	0.00								
5/19/2009	135.93	0.1	0.00								
5/20/2009	135.93	0.1	0.00								
5/21/2009	135.93	0.1	0.00								
5/22/2009	135.93	0.1	0.00								
5/23/2009	135.93	0.1	0.00								
5/24/2009	135.93	0.1	0.00								
5/25/2009	135.93	0.0	0.00								
5/26/2009	135.24	0.0	0.00								
5/27/2009	132.94	0.0	0.00								
5/28/2009	132.94	0.0	0.00								
5/29/2009	132.94	0.0	0.00								
5/30/2009	131.50	0.0	0.00								
5/31/2009	130.01	0.0	0.00								
6/1/2009	130.01	0.0	0.00								
6/2/2009	130.01	0.0	0.00								
6/3/2009	130.01	0.0	0.00				36	21	24		
6/4/2009	130.01	0.0	0.00								
6/5/2009	131.58	0.0	0.00								
6/6/2009	132.94	0.0	0.00								
6/7/2009	130.67	0.0	0.00								
6/8/2009	130.01	0.0	0.00	11.9	13.2	11.6		9.8			
6/9/2009	130.01	0.0	0.00							7.36	
6/10/2009	130.01	0.0	0.00								
6/11/2009	130.01	0.0	0.00								
6/12/2009	131.38	0.0	0.00								
6/13/2009	132.94	0.0	0.00								
6/14/2009	132.94	0.0	0.00								
6/15/2009	132.94	0.0	0.00								
6/16/2009	132.94	0.0	0.00								
6/17/2009	132.94	0.0	0.00								
6/18/2009	132.94	0.0	0.00								
6/19/2009	132.94	0.0	0.00								
6/20/2009	132.94	0.0	0.00								
6/21/2009	132.94	0.0	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
6/22/2009	132.94	0.0	0.00								34.6
6/23/2009	132.94	0.0	0.00		45.9						
6/24/2009	132.94	0.0	0.00								
6/25/2009	132.94	0.0	0.00								
6/26/2009	132.94	0.0	0.00								
6/27/2009	132.94	0.1	0.00								
6/28/2009	131.79	0.1	0.00								
6/29/2009	130.01	0.1	0.00								
6/30/2009	129.37	0.1	0.00								
7/1/2009	127.17	0.1	0.00				14	18	19		
7/2/2009	127.17	0.1	0.00								
7/3/2009	127.17	0.1	0.00								
7/4/2009	127.17	0.1	0.00								
7/5/2009	127.17	0.1	0.00								
7/6/2009	127.17	0.1	0.00	12	29.6	10		12.2			
7/7/2009	127.17	0.1	0.00							7.84	
7/8/2009	127.17	0.1	0.00								
7/9/2009	127.17	0.1	0.00								
7/10/2009	127.17	0.1	0.00								
7/11/2009	127.17	0.1	0.00								
7/12/2009	127.17	0.1	0.00								
7/13/2009	127.17	0.1	0.00								
7/14/2009	127.17	0.1	0.00								
7/15/2009	127.17	0.1	0.00								
7/16/2009	127.17	0.1	0.00								
7/17/2009	127.17	0.1	0.00								
7/18/2009	127.17	0.1	0.00								
7/19/2009	127.17	0.1	0.00								
7/20/2009	127.17	0.1	0.00								
7/21/2009	127.17	0.1	0.00								
7/22/2009	127.17	0.1	0.00								
7/23/2009	127.17	0.1	0.00								
7/24/2009	127.17	0.1	0.00								
7/25/2009	127.17	0.1	0.00								
7/26/2009	127.17	0.1	0.00								
7/27/2009	127.17	0.1	0.00								
7/28/2009	126.07	0.1	0.00								
7/29/2009	124.35	0.1	0.00								
7/30/2009	124.35	0.1	0.00								
7/31/2009	124.35	0.1	0.00								
8/1/2009	124.35	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
8/2/2009	124.35	0.1	0.00								
8/3/2009	124.35	0.1	0.00	7.37	16.6	5.48		8.27			
8/4/2009	124.35	0.1	0.00	4						7.75	
8/5/2009	124.35	0.1	0.00								
8/6/2009	124.35	0.1	0.00								
8/7/2009	124.35	0.1	0.00								
8/8/2009	126.55	0.1	0.00								
8/9/2009	127.17	0.1	0.00								
8/10/2009	129.46	0.1	0.00								
8/11/2009	130.01	0.1	0.00								
8/12/2009	130.01	0.1	0.00								
8/13/2009	130.01	0.1	0.00				25	19	23		
8/14/2009	130.01	0.1	0.00								
8/15/2009	128.66	0.1	0.00								
8/16/2009	127.17	0.1	0.00								
8/17/2009	127.17	0.1	0.00								
8/18/2009	127.17	0.1	0.00								
8/19/2009	127.17	0.1	0.00								
8/20/2009	126.23	0.1	0.00								
8/21/2009	124.35	0.1	0.00								
8/22/2009	124.35	0.1	0.00								
8/23/2009	124.35	0.1	0.00								
8/24/2009	124.35	0.1	0.00								
8/25/2009	124.35	0.1	0.00								
8/26/2009	124.35	0.1	0.00								
8/27/2009	124.35	0.1	0.00								
8/28/2009	124.35	0.1	0.00								
8/29/2009	124.35	0.1	0.00								
8/30/2009	124.35	0.1	0.00								
8/31/2009	124.35	0.1	0.00								
9/1/2009	125.90	0.1	0.00								
9/2/2009	127.17	0.1	0.00								
9/3/2009	127.17	0.1	0.00								
9/4/2009	127.17	0.1	0.00								
9/5/2009	127.17	0.1	0.00								
9/6/2009	131.05	0.1	0.00								
9/7/2009	132.94	0.1	0.00								
9/8/2009	132.94	0.1	0.00								
9/9/2009	132.94	0.1	0.00				15	16	11		
9/10/2009	132.94	0.1	0.00								
9/11/2009	132.94	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
9/12/2009	132.94	0.1	0.00								
9/13/2009	132.94	0.1	0.00								
9/14/2009	132.94	0.1	0.00	9.95	25.5	9.25		13.3			
9/15/2009	132.94	0.1	0.00							3.75	
9/16/2009	132.94	0.1	0.00								
9/17/2009	132.94	0.1	0.00								
9/18/2009	132.94	0.0	0.00								
9/19/2009	132.94	0.0	0.00								
9/20/2009	132.94	0.0	0.00								
9/21/2009	132.94	0.0	0.00								
9/22/2009	132.94	0.0	0.00								
9/23/2009	132.94	0.0	0.00								
9/24/2009	132.94	0.0	0.00								
9/25/2009	132.94	0.0	0.00								
9/26/2009	132.94	0.0	0.00								
9/27/2009	132.94	0.0	0.00								
9/28/2009	132.94	0.0	0.00								
9/29/2009	134.16	0.0	0.00								
9/30/2009	135.93	0.0	0.00								
10/1/2009	135.93	0.0	0.00								
10/2/2009	135.93	0.0	0.00								
10/3/2009	135.93	0.0	0.00								
10/4/2009	135.93	0.0	0.00								
10/5/2009	135.93	0.0	0.00								
10/6/2009	135.93	0.0	0.00								
10/7/2009	135.28	0.0	0.00								
10/8/2009	132.94	0.0	0.00								
10/9/2009	132.94	0.0	0.00								
10/10/2009	132.94	0.0	0.00								
10/11/2009	132.94	0.0	0.00								
10/12/2009	132.94	0.0	0.00								
10/13/2009	174.93	2.0	0.01			51.5					
10/14/2009	419.38	20.6	0.05								
10/15/2009	164.45	0.7	0.00								
10/16/2009	137.94	0.5	0.00								
10/17/2009	132.94	0.5	0.00								
10/18/2009	129.68	0.4	0.00								
10/19/2009	127.17	0.4	0.00				20	14	13		
10/20/2009	127.17	0.4	0.00								
10/21/2009	127.17	0.3	0.00								
10/22/2009	127.17	0.3	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
10/23/2009	127.17	0.3	0.00								
10/24/2009	127.17	0.2	0.00								
10/25/2009	127.17	0.2	0.00								
10/26/2009	127.17	0.2	0.00								
10/27/2009	127.17	0.2	0.00								
10/28/2009	127.17	0.2	0.00								
10/29/2009	127.17	0.2	0.00								
10/30/2009	129.08	0.2	0.00								
10/31/2009	130.01	0.2	0.00								
11/1/2009	130.01	0.1	0.00								
11/2/2009	130.01	0.1	0.00								
11/3/2009	132.14	0.1	0.00	8.6							
11/4/2009	132.94	0.1	0.00								
11/5/2009	132.94	0.1	0.00								
11/6/2009	132.94	0.1	0.00								
11/7/2009	132.94	0.1	0.00								
11/8/2009	132.94	0.1	0.00								
11/9/2009	132.94	0.1	0.00								
11/10/2009	132.40	0.1	0.00								
11/11/2009	130.01	0.1	0.00				26	29	24		
11/12/2009	130.01	0.1	0.00								
11/13/2009	130.01	0.6	0.00								
11/14/2009	130.01	0.4	0.00								
11/15/2009	130.01	0.3	0.00								
11/16/2009	130.01	0.3	0.00	15.5	56	10.4		10.6			
11/17/2009	130.01	0.3	0.00							12.3	
11/18/2009	130.01	0.3	0.00								
11/19/2009	130.01	0.3	0.00								
11/20/2009	130.01	0.3	0.00								
11/21/2009	130.01	0.3	0.00								
11/22/2009	130.01	0.2	0.00								
11/23/2009	130.01	0.2	0.00								
11/24/2009	130.01	0.2	0.00								
11/25/2009	130.01	0.2	0.00								
11/26/2009	130.01	0.2	0.00								
11/27/2009	130.01	0.2	0.00								
11/28/2009	130.01	0.2	0.00								
11/29/2009	132.73	0.2	0.00								
11/30/2009	132.94	0.2	0.00								
12/1/2009	132.94	0.3	0.00								
12/2/2009	132.94	0.3	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
12/3/2009	132.94	0.3	0.00								
12/4/2009	132.94	0.3	0.00								
12/5/2009	132.94	0.3	0.00								
12/6/2009	132.94	19.9	0.13								
12/7/2009	284.27	24.3	0.08			57.8					
12/8/2009	145.72	4.7	0.03								
12/9/2009	133.32	0.3	0.00								
12/10/2009	130.05	0.3	0.00								
12/11/2009	263.14	41.0	0.13								
12/12/2009	515.64	81.7	0.14								
12/13/2009	232.74	41.0	0.15								
12/14/2009	160.07	0.3	0.00								
12/15/2009	145.73	0.3	0.00								
12/16/2009	144.85	0.3	0.00								
12/17/2009	139.21	0.3	0.00				11	22	16		
12/18/2009	138.95	0.3	0.00								
12/19/2009	134.83	0.3	0.00								
12/20/2009	131.07	0.3	0.00								
12/21/2009	130.01	0.3	0.00								
12/22/2009	127.76	0.3	0.00								
12/23/2009	127.17	0.3	0.00								
12/24/2009	127.17	0.3	0.00								
12/25/2009	126.01	0.3	0.00								
12/26/2009	124.35	0.3	0.00								
12/27/2009	124.35	0.3	0.00								
12/28/2009	124.35	0.3	0.00								
12/29/2009	124.35	0.3	0.00								
12/30/2009	128.95	0.3	0.00								
12/31/2009	135.93	0.3	0.00								
1/1/2010	133.93	0.3	0.00								
1/2/2010	132.21	0.3	0.00								
1/3/2010	130.01	0.3	0.00								
1/4/2010	130.01	0.3	0.00								
1/5/2010	130.01	0.3	0.00	6.66	16	6.83		9.19			
1/6/2010	130.01	0.3	0.00							11.7	
1/7/2010	130.01	0.3	0.00								
1/8/2010	131.87	0.3	0.00								
1/9/2010	132.94	0.3	0.00								
1/10/2010	132.94	0.3	0.00								
1/11/2010	132.94	0.3	0.00								
1/12/2010	134.82	0.3	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
1/13/2010	135.93	0.3	0.00			26.2					
1/14/2010	135.93	0.3	0.00								
1/15/2010	135.93	0.3	0.00								
1/16/2010	135.93	0.3	0.00								
1/17/2010	142.31	2.3	0.02								
1/18/2010	869.92	591.8	0.40								
1/19/2010	431.43	39.7	0.08								
1/20/2010	905.50	2918.0	0.76								
1/21/2010	550.61	1485.2	0.73								
1/22/2010	317.13	1016.8	0.76								
1/23/2010	172.47	0.3	0.00								
1/24/2010	154.56	0.3	0.00								
1/25/2010	142.81	0.3	0.00				16	13	11		
1/26/2010	151.80	0.3	0.00								
1/27/2010	153.39	0.3	0.00								
1/28/2010	137.45	0.3	0.00								
1/29/2010	132.20	0.3	0.00								
1/30/2010	130.01	0.3	0.00								
1/31/2010	130.01	0.3	0.00								
2/1/2010	130.01	0.3	0.00				11	7	11		
2/2/2010	130.01	0.3	0.00	10.2							
2/3/2010	130.02	0.3	0.00								
2/4/2010	135.73	0.3	0.00								
2/5/2010	222.63	109.2	0.33			38.9					
2/6/2010	1188.20	4029.1	0.77								
2/7/2010	180.38	1.6	0.01								
2/8/2010	169.88	0.6	0.00								
2/9/2010	265.69	187.5	0.41								
2/10/2010	163.39	130.4	0.44								
2/11/2010	145.73	17.2	0.11								
2/12/2010	138.42	0.3	0.00								
2/13/2010	135.93	0.3	0.00								
2/14/2010	134.65	0.3	0.00								
2/15/2010	132.94	0.3	0.00								
2/16/2010	131.13	0.3	0.00								
2/17/2010	130.01	0.3	0.00								
2/18/2010	130.01	0.3	0.00								
2/19/2010	130.01	0.3	0.00								
2/20/2010	164.85	0.3	0.00								
2/21/2010	141.57	0.3	0.00								
2/22/2010	135.92	0.3	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
2/23/2010	130.92	0.3	0.00								
2/24/2010	127.97	0.3	0.00								
2/25/2010	127.17	0.3	0.00								
2/26/2010	127.17	0.4	0.00								
2/27/2010	550.79	114.2	0.17								
2/28/2010	163.41	1.7	0.01								
3/1/2010	142.86	1.6	0.01								
3/2/2010	138.95	1.4	0.01								
3/3/2010	138.59	1.3	0.01				12	17	15		
3/4/2010	159.36	3.5	0.02								
3/5/2010	142.29	1.6	0.01								
3/6/2010	228.42	30.6	0.12			28.6					
3/7/2010	197.50	2.7	0.01								
3/8/2010	145.87	1.4	0.01								
3/9/2010	135.92	1.2	0.01								
3/10/2010	132.94	0.9	0.01								
3/11/2010	130.96	0.8	0.01								
3/12/2010	130.01	0.6	0.00								
3/13/2010	130.01	0.5	0.00								
3/14/2010	128.20	0.5	0.00								
3/15/2010	127.17	0.4	0.00								
3/16/2010	127.17	0.4	0.00								
3/17/2010	127.17	0.3	0.00								
3/18/2010	127.17	0.3	0.00								
3/19/2010	127.17	0.3	0.00								
3/20/2010	127.17	0.2	0.00								
3/21/2010	127.17	0.1	0.00								
3/22/2010	127.17	0.1	0.00								
3/23/2010	127.17	0.1	0.00								
3/24/2010	127.17	0.1	0.00								
3/25/2010	127.17	0.1	0.00								
3/26/2010	127.17	0.1	0.00								
3/27/2010	127.17	0.1	0.00								
3/28/2010	127.17	0.1	0.00								
3/29/2010	127.17	0.1	0.00								
3/30/2010	127.17	0.0	0.00								
3/31/2010	129.04	0.0	0.00								
4/1/2010	130.01	0.0	0.00								
4/2/2010	130.01	0.0	0.00								
4/3/2010	130.01	0.0	0.00								
4/4/2010	128.87	0.0	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
4/5/2010	230.68	13.4	0.06			54.2					
4/6/2010	155.69	0.4	0.00								
4/7/2010	139.53	0.4	0.00								
4/8/2010	133.77	0.4	0.00				8.2	14	18		
4/9/2010	130.99	0.3	0.00								
4/10/2010	130.01	0.3	0.00								
4/11/2010	130.01	0.4	0.00								
4/12/2010	349.61	112.8	0.24								
4/13/2010	149.56	0.9	0.01								
4/14/2010	135.84	0.9	0.01								
4/15/2010	132.94	0.8	0.01								
4/16/2010	130.29	0.6	0.00								
4/17/2010	130.01	0.5	0.00								
4/18/2010	130.01	0.5	0.00								
4/19/2010	130.01	0.4	0.00								
4/20/2010	143.08	0.7	0.00								
4/21/2010	155.71	0.8	0.01								
4/22/2010	140.61	0.5	0.00								
4/23/2010	135.93	0.4	0.00								
4/24/2010	134.93	0.4	0.00								
4/25/2010	132.94	0.4	0.00								
4/26/2010	132.94	0.3	0.00								
4/27/2010	132.94	0.3	0.00								
4/28/2010	132.94	1.9	0.01								
4/29/2010	132.94	0.6	0.00								
4/30/2010	132.94	0.4	0.00								
5/1/2010	132.94	0.4	0.00								
5/2/2010	132.94	0.4	0.00								
5/3/2010	132.94	0.3	0.00								
5/4/2010	132.94	0.3	0.00	11							
5/5/2010	133.07	0.3	0.00				17	14	16		
5/6/2010	135.93	0.2	0.00								
5/7/2010	135.93	0.2	0.00								
5/8/2010	135.93	0.2	0.00								
5/9/2010	135.93	0.2	0.00								
5/10/2010	138.62	0.1	0.00	13.5	24.3	22.3		10.3			
5/11/2010	138.95	0.1	0.00							8.46	
5/12/2010	138.95	0.1	0.00								
5/13/2010	141.55	0.1	0.00								
5/14/2010	142.00	0.1	0.00								
5/15/2010	142.00	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
5/16/2010	142.00	0.1	0.00								
5/17/2010	142.00	0.1	0.00								
5/18/2010	142.00	0.1	0.00								
5/19/2010	144.66	0.0	0.00								
5/20/2010	145.08	0.0	0.00								
5/21/2010	145.08	0.0	0.00								
5/22/2010	145.08	0.0	0.00								
5/23/2010	145.08	0.0	0.00								
5/24/2010	145.08	0.0	0.00								
5/25/2010	145.08	0.0	0.00								
5/26/2010	145.08	0.0	0.00								
5/27/2010	145.08	0.0	0.00								
5/28/2010	145.08	0.0	0.00								
5/29/2010	145.08	0.0	0.00								
5/30/2010	145.08	0.0	0.00								
5/31/2010	145.08	0.0	0.00								
6/1/2010	145.08	0.0	0.00								
6/2/2010	145.08	0.0	0.00								
6/3/2010	145.08	0.0	0.00								
6/4/2010	145.08	0.0	0.00								
6/5/2010	145.08	0.0	0.00								
6/6/2010	145.08	0.0	0.00								
6/7/2010	143.94	0.0	0.00	13.3	27.8	18.6		12			
6/8/2010	141.06	0.0	0.00							7.58	0.09
6/9/2010	138.95	0.0	0.00				14	17	12		
6/10/2010	138.95	0.0	0.00								
6/11/2010	138.95	0.1	0.00								
6/12/2010	138.95	0.1	0.00								
6/13/2010	138.95	0.1	0.00								
6/14/2010	138.95	0.1	0.00								
6/15/2010	138.95	0.1	0.00								
6/16/2010	138.95	0.1	0.00								
6/17/2010	138.95	0.1	0.00								
6/18/2010	138.95	0.1	0.00								
6/19/2010	138.95	0.1	0.00								
6/20/2010	138.95	0.0	0.00								
6/21/2010	138.95	0.0	0.00								
6/22/2010	138.95	0.0	0.00								
6/23/2010	138.95	0.0	0.00								
6/24/2010	138.95	0.0	0.00								
6/25/2010	138.95	0.0	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
6/26/2010	138.95	0.0	0.00								
6/27/2010	138.95	0.0	0.00								
6/28/2010	138.95	0.0	0.00								
6/29/2010	138.95	0.0	0.00								
6/30/2010	138.95	0.0	0.00								
7/1/2010	138.95	0.0	0.00				15	16	17		
7/2/2010	138.95	0.0	0.00								
7/3/2010	138.95	0.0	0.00								
7/4/2010	138.95	0.0	0.00								
7/5/2010	138.95	0.0	0.00								
7/6/2010	138.95	0.0	0.00								
7/7/2010	138.95	0.0	0.00								
7/8/2010	138.95	0.0	0.00								
7/9/2010	138.95	0.0	0.00								
7/10/2010	138.95	0.0	0.00								
7/11/2010	138.95	0.0	0.00								
7/12/2010	138.95	0.0	0.00								
7/13/2010	138.95	0.0	0.00								
7/14/2010	127.19	0.1	0.00								
7/15/2010	127.16	0.1	0.00		32.3						11.7
7/16/2010	127.16	0.1	0.00								
7/17/2010	127.16	0.1	0.00								
7/18/2010	127.16	0.1	0.00								
7/19/2010	127.16	0.1	0.00	11.8	52.5	14.8		11.6			
7/20/2010	127.16	0.1	0.00							7.4	
7/21/2010	127.16	0.1	0.00								
7/22/2010	127.16	0.1	0.00								
7/23/2010	127.16	0.1	0.00								
7/24/2010	127.16	0.1	0.00								
7/25/2010	129.44	0.1	0.00								
7/26/2010	130.00	0.1	0.00								
7/27/2010	130.00	0.1	0.00								
7/28/2010	130.00	0.1	0.00								
7/29/2010	132.46	0.1	0.00								
7/30/2010	132.95	0.1	0.00								
7/31/2010	132.95	0.1	0.00								
8/1/2010	131.15	0.1	0.00								
8/2/2010	127.16	0.1	0.00								
8/3/2010	127.16	0.1	0.00	10							
8/4/2010	127.16	0.1	0.00								
8/5/2010	127.16	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
8/6/2010	127.16	0.1	0.00								
8/7/2010	127.16	0.1	0.00								
8/8/2010	127.16	0.1	0.00								
8/9/2010	127.16	0.1	0.00								
8/10/2010	127.16	0.1	0.00								
8/11/2010	127.16	0.1	0.00				13	20	20		
8/12/2010	127.16	0.1	0.00								
8/13/2010	127.16	0.1	0.00								
8/14/2010	127.16	0.1	0.00								
8/15/2010	127.16	0.1	0.00								
8/16/2010	127.16	0.1	0.00								
8/17/2010	127.16	0.1	0.00								
8/18/2010	127.16	0.1	0.00								
8/19/2010	127.16	0.1	0.00								
8/20/2010	127.16	0.1	0.00								
8/21/2010	125.58	0.1	0.00								
8/22/2010	124.35	0.1	0.00								
8/23/2010	124.35	0.1	0.00	7.37	46	10.8		10.8			
8/24/2010	124.35	0.1	0.00							7.51	
8/25/2010	124.35	0.1	0.00								
8/26/2010	124.35	0.1	0.00								
8/27/2010	124.35	0.1	0.00								
8/28/2010	124.35	0.1	0.00								
8/29/2010	124.35	0.1	0.00								
8/30/2010	124.35	0.0	0.00								
8/31/2010	124.35	0.0	0.00								
9/1/2010	124.35	0.0	0.00				14	23	16		
9/2/2010	124.35	0.0	0.00								
9/3/2010	124.35	0.0	0.00								
9/4/2010	124.35	0.0	0.00								
9/5/2010	124.35	0.0	0.00								
9/6/2010	124.35	0.0	0.00								
9/7/2010	124.35	0.0	0.00								
9/8/2010	126.84	0.0	0.00								
9/9/2010	127.16	0.0	0.00								
9/10/2010	127.16	0.0	0.00								
9/11/2010	129.35	0.0	0.00								
9/12/2010	130.00	0.0	0.00								
9/13/2010	130.00	0.0	0.00								
9/14/2010	130.00	0.0	0.00								
9/15/2010	130.00	0.0	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
9/16/2010	131.79	0.0	0.00								
9/17/2010	132.95	0.0	0.00								
9/18/2010	132.95	0.0	0.00								
9/19/2010	132.95	0.0	0.00								
9/20/2010	132.95	0.0	0.00	11.6	25	10					
9/21/2010	132.95	0.0	0.00					9.91		6.38	
9/22/2010	131.63	0.0	0.00								
9/23/2010	130.00	0.0	0.00								
9/24/2010	130.00	0.0	0.00								
9/25/2010	130.00	0.0	0.00								
9/26/2010	130.00	0.0	0.00								
9/27/2010	128.38	0.0	0.00								
9/28/2010	127.16	0.0	0.00								
9/29/2010	127.16	0.0	0.00								
9/30/2010	127.16	0.0	0.00								
10/1/2010	127.16	0.0	0.00								
10/2/2010	127.16	0.1	0.00								
10/3/2010	127.16	0.1	0.00								
10/4/2010	127.16	1.9	0.01								
10/5/2010	127.16	2.4	0.02								
10/6/2010	177.87	2.5	0.01								
10/7/2010	161.87	0.7	0.00								
10/8/2010	142.75	0.3	0.00								
10/9/2010	135.93	0.3	0.00								
10/10/2010	133.47	0.3	0.00								
10/11/2010	132.95	0.3	0.00								
10/12/2010	130.27	0.3	0.00								
10/13/2010	130.00	0.3	0.00				17	9.6	9.2		
10/14/2010	130.00	0.3	0.00								
10/15/2010	130.00	0.2	0.00								
10/16/2010	130.00	0.2	0.00								
10/17/2010	130.00	0.1	0.00								
10/18/2010	130.00	0.1	0.00								
10/19/2010	135.46	3.1	0.02			110					
10/20/2010	161.66	2.9	0.02								
10/21/2010	146.39	0.8	0.01								
10/22/2010	136.98	2.7	0.02								
10/23/2010	135.93	0.9	0.01								
10/24/2010	135.93	1.8	0.01								
10/25/2010	166.65	10.0	0.06								
10/26/2010	150.67	1.0	0.01								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
10/27/2010	139.51	0.8	0.01								
10/28/2010	137.10	0.9	0.01								
10/29/2010	135.93	0.9	0.01								
10/30/2010	222.43	43.2	0.16								
10/31/2010	154.07	1.7	0.01								
11/1/2010	141.05	1.7	0.01								
11/2/2010	136.79	1.0	0.01	11.9							
11/3/2010	135.93	1.0	0.01				14	17	15		
11/4/2010	135.93	1.1	0.01								
11/5/2010	135.93	1.1	0.01								
11/6/2010	135.93	1.1	0.01								
11/7/2010	135.93	0.9	0.01								
11/8/2010	164.55	12.2	0.07								
11/9/2010	152.33	4.8	0.03								
11/10/2010	141.58	3.9	0.03								
11/11/2010	138.95	3.4	0.02								
11/12/2010	138.95	3.3	0.02								
11/13/2010	138.95	2.8	0.02								
11/14/2010	138.95	2.4	0.02								
11/15/2010	138.95	2.2	0.02								
11/16/2010	137.12	1.6	0.01								
11/17/2010	135.93	1.2	0.01								
11/18/2010	135.93	1.1	0.01								
11/19/2010	135.93	0.8	0.01								
11/20/2010	190.92	31.2	0.14			68.6					
11/21/2010	254.40	34.7	0.12								
11/22/2010	159.07	3.3	0.02								
11/23/2010	148.34	3.0	0.02								
11/24/2010	140.64	2.3	0.02								
11/25/2010	138.35	2.1	0.02								
11/26/2010	135.93	1.7	0.01								
11/27/2010	140.44	7.0	0.05								
11/28/2010	161.33	7.7	0.05								
11/29/2010	146.96	1.8	0.01								
11/30/2010	139.39	1.7	0.01								
12/1/2010	137.27	1.5	0.01				6.9	23	19		
12/2/2010	135.93	1.0	0.01								
12/3/2010	135.93	0.8	0.01								
12/4/2010	135.93	0.8	0.01								
12/5/2010	142.90	30.4	0.18			46.1					
12/6/2010	205.74	24.2	0.11								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
12/7/2010	155.83	1.5	0.01								
12/8/2010	145.82	1.1	0.01								
12/9/2010	139.43	1.0	0.01								
12/10/2010	136.03	1.0	0.01								
12/11/2010	135.93	0.9	0.01								
12/12/2010	135.93	0.8	0.01								
12/13/2010	135.93	0.7	0.01								
12/14/2010	135.93	0.5	0.00								
12/15/2010	135.93	0.5	0.00								
12/16/2010	135.93	1.0	0.01								
12/17/2010	144.74	15.7	0.10								
12/18/2010	2558.81	144.7	0.05								
12/19/2010	4019.79	6773.6	0.63								
12/20/2010	3314.94	7145.5	0.68								
12/21/2010	2444.71	3611.6	0.60								
12/22/2010	4008.35	5251.2	0.57								
12/23/2010	2105.73	270.4	0.11								
12/24/2010	193.90	1.2	0.01								
12/25/2010	210.28	1.2	0.01								
12/26/2010	1089.49	1133.9	0.51								
12/27/2010	170.24	376.9	0.69								
12/28/2010	226.74	35.6	0.14								
12/29/2010	926.95	152.5	0.14								
12/30/2010	171.20	13.5	0.07								
12/31/2010	157.92	0.3	0.00								
1/1/2011	154.53	0.3	0.00								
1/2/2011	213.98	0.3	0.00			21.5					
1/3/2011	193.62	0.3	0.00								
1/4/2011	165.31	0.4	0.00								
1/5/2011	151.74	0.4	0.00								
1/6/2011	144.66	0.4	0.00				5.6	15	18		
1/7/2011	142.00	0.5	0.00								
1/8/2011	139.86	0.5	0.00								
1/9/2011	137.02	0.6	0.00								
1/10/2011	133.16	0.6	0.00								
1/11/2011	135.39	0.7	0.00								
1/12/2011	135.93	0.7	0.01								
1/13/2011	134.23	0.8	0.01								
1/14/2011	132.95	0.8	0.01								
1/15/2011	132.95	0.9	0.01								
1/16/2011	132.95	1.0	0.01								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
1/17/2011	132.95	1.1	0.01								
1/18/2011	132.95	1.1	0.01								
1/19/2011	132.95	1.2	0.01								
1/20/2011	132.95	1.3	0.01								
1/21/2011	132.95	1.4	0.01								
1/22/2011	132.95	1.5	0.01								
1/23/2011	132.95	1.6	0.01								
1/24/2011	132.95	1.7	0.01								
1/25/2011	135.65	1.8	0.01								
1/26/2011	135.93	2.0	0.01								
1/27/2011	135.93	2.1	0.01								
1/28/2011	135.93	2.2	0.02								
1/29/2011	135.93	2.3	0.02								
1/30/2011	151.54	8.2	0.05								
1/31/2011	163.58	0.1	0.00								
2/1/2011	150.72	0.1	0.00								
2/2/2011	145.11	0.1	0.00								
2/3/2011	145.08	0.1	0.00								
2/4/2011	145.08	0.1	0.00								
2/5/2011	145.08	0.2	0.00								
2/6/2011	147.86	0.2	0.00								
2/7/2011	148.20	0.2	0.00								
2/8/2011	146.02	0.2	0.00	9							
2/9/2011	143.44	0.2	0.00				1.7	8.7	10		
2/10/2011	142.00	0.2	0.00								
2/11/2011	142.00	0.2	0.00								
2/12/2011	142.00	0.2	0.00								
2/13/2011	142.00	0.1	0.00								
2/14/2011	142.00	0.1	0.00								
2/15/2011	142.00	0.1	0.00								
2/16/2011	277.05	6.2	0.02			56					
2/17/2011	170.39	0.0	0.00								
2/18/2011	297.50	9.6	0.03								
2/19/2011	349.21	20.4	0.06								
2/20/2011	208.51	0.8	0.00								
2/21/2011	162.26	0.0	0.00								
2/22/2011	154.16	0.0	0.00								
2/23/2011	149.18	0.0	0.00								
2/24/2011	146.81	0.1	0.00								
2/25/2011	242.39	35.0	0.13								
2/26/2011	501.45	125.9	0.20								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
2/27/2011	173.25	0.1	0.00								
2/28/2011	164.94	0.1	0.00								
3/1/2011	155.34	0.1	0.00								
3/2/2011	148.65	0.6	0.00				7.1	16	14		
3/3/2011	158.20	0.8	0.00								
3/4/2011	167.43	0.1	0.00								
3/5/2011	162.32	0.1	0.00								
3/6/2011	155.89	0.1	0.00								
3/7/2011	162.74	0.1	0.00								
3/8/2011	115.24	0.1	0.00								
3/9/2011	36.93	0.1	0.00								
3/10/2011	37.74	0.1	0.00								
3/11/2011	42.00	0.1	0.00								
3/12/2011	52.06	0.1	0.00								
3/13/2011	53.77	0.1	0.00								
3/14/2011	52.27	0.1	0.00								
3/15/2011	53.87	0.1	0.00								
3/16/2011	48.16	0.1	0.00								
3/17/2011	58.32	0.1	0.00								
3/18/2011	74.06	0.0	0.00								
3/19/2011	67.21	1.4	0.02			33.5					
3/20/2011	1058.98	230.9	0.18								
3/21/2011	1320.64	576.0	0.30								
3/22/2011	61.41	0.1	0.00								
3/23/2011	380.96	26.4	0.06								
3/24/2011	108.72	0.5	0.00								
3/25/2011	451.83	51.8	0.10								
3/26/2011	67.64	0.4	0.01								
3/27/2011	62.98	1.3	0.02								
3/28/2011	55.08	0.4	0.01								
3/29/2011	61.86	0.4	0.01								
3/30/2011	71.20	0.4	0.01								
3/31/2011	88.37	0.4	0.00								
4/1/2011	90.76	0.4	0.00								
4/2/2011		0.1									
4/3/2011	111.82	0.0	0.00								
4/4/2011	113.23	0.1	0.00								
4/5/2011	90.82	0.1	0.00								
4/6/2011	95.41	0.1	0.00				8	43	24		
4/7/2011	137.29	0.1	0.00								
4/8/2011	111.61	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
4/9/2011	126.00	0.1	0.00								
4/10/2011	107.79	0.1	0.00								
4/11/2011	80.77	0.1	0.00								
4/12/2011	98.44	0.1	0.00	8.48	2.27	5.56		11.7			
4/13/2011	81.35	0.1	0.00							6	19.1
4/14/2011	91.59	0.1	0.00								
4/15/2011	70.20	0.1	0.00								
4/16/2011	75.92	0.1	0.00								
4/17/2011	79.10	0.1	0.00								
4/18/2011	60.54	0.1	0.00								
4/19/2011	103.63	0.1	0.00								
4/20/2011	142.00	0.1	0.00								
4/21/2011	142.00	0.1	0.00								
4/22/2011	142.00	0.1	0.00								
4/23/2011	142.00	0.1	0.00								
4/24/2011	142.00	0.1	0.00								
4/25/2011	142.00	0.1	0.00								
4/26/2011	139.38	0.1	0.00								
4/27/2011	138.95	0.1	0.00								
4/28/2011	138.95	0.1	0.00								
4/29/2011	138.95	0.1	0.00								
4/30/2011	138.95	0.1	0.00								
5/1/2011	138.95	0.1	0.00								
5/2/2011	138.95	0.1	0.00								
5/3/2011	138.95	0.1	0.00	18							
5/4/2011	138.95	0.1	0.00				9.7	15	20		
5/5/2011	135.38	0.1	0.00								
5/6/2011	130.86	0.1	0.00								
5/7/2011	130.00	0.1	0.00								
5/8/2011	130.00	0.1	0.00								
5/9/2011	130.00	0.1	0.00								
5/10/2011	130.00	0.1	0.00								
5/11/2011	130.00	0.1	0.00								
5/12/2011	130.00	0.1	0.00								
5/13/2011	130.00	0.1	0.00								
5/14/2011	130.00	0.1	0.00								
5/15/2011	132.24	0.1	0.00								
5/16/2011	135.93	0.1	0.00								
5/17/2011	149.66	0.1	0.00			27.3					
5/18/2011	184.90	0.2	0.00								
5/19/2011	159.34	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
5/20/2011	146.06	0.1	0.00								
5/21/2011	136.96	0.1	0.00								
5/22/2011	133.02	0.1	0.00								
5/23/2011	133.14	0.1	0.00								
5/24/2011	133.26	0.1	0.00								
5/25/2011	133.38	0.1	0.00								
5/26/2011	133.50	0.1	0.00								
5/27/2011	133.62	0.1	0.00								
5/28/2011	133.74	0.1	0.00								
5/29/2011	133.87	0.1	0.00								
5/30/2011	133.99	0.1	0.00								
5/31/2011	134.11	0.1	0.00								
6/1/2011	134.23	0.1	0.00								
6/2/2011	134.35	0.1	0.00								
6/3/2011	134.47	0.1	0.00								
6/4/2011	134.59	0.1	0.00								
6/5/2011	134.71	0.1	0.00								
6/6/2011	134.83	0.1	0.00								
6/7/2011	134.96	0.1	0.00								
6/8/2011	135.08	0.1	0.00				12	16	16		
6/9/2011	135.20	0.1	0.00								
6/10/2011	135.32	0.1	0.00								
6/11/2011	135.44	0.1	0.00								
6/12/2011	135.56	0.1	0.00								
6/13/2011	135.69	0.1	0.00								
6/14/2011	135.81	0.1	0.00								
6/15/2011	141.88	0.1	0.00								
6/16/2011	148.20	0.1	0.00								
6/17/2011	148.20	0.1	0.00								
6/18/2011	148.20	0.1	0.00								
6/19/2011	148.20	0.1	0.00								
6/20/2011	146.08	0.1	0.00	16.2	26.7	10.2		10.8			
6/21/2011	145.08	0.1	0.00							6.81	25.2
6/22/2011	142.96	0.1	0.00								
6/23/2011	142.00	0.1	0.00								
6/24/2011	142.00	0.1	0.00								
6/25/2011	139.70	0.1	0.00								
6/26/2011	138.95	0.1	0.00								
6/27/2011	138.95	0.1	0.00		30.6						19.6
6/28/2011	138.95	0.1	0.00								
6/29/2011	138.95	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
6/30/2011	138.95	0.1	0.00								
7/1/2011	138.95	0.1	0.00								
7/2/2011	138.95	0.1	0.00								
7/3/2011	138.95	0.1	0.00								
7/4/2011	138.95	0.1	0.00								
7/5/2011	138.95	0.1	0.00								
7/6/2011	138.95	0.1	0.00								
7/7/2011	138.95	0.1	0.00				14	13	11		
7/8/2011	138.95	0.1	0.00								
7/9/2011	138.95	0.1	0.00								
7/10/2011	138.95	0.1	0.00								
7/11/2011	138.95	0.1	0.00								
7/12/2011	138.95	0.1	0.00								
7/13/2011	138.95	0.1	0.00								
7/14/2011	138.95	0.1	0.00								
7/15/2011	138.95	0.1	0.00								
7/16/2011	138.95	0.1	0.00								
7/17/2011	138.95	0.1	0.00								
7/18/2011	138.95	0.1	0.00	4.96	20.8	8.14		7.81			
7/19/2011	138.95	0.1	0.00							5.94	30.1
7/20/2011	138.95	0.1	0.00								
7/21/2011	138.95	0.1	0.00								
7/22/2011	138.95	0.1	0.00								
7/23/2011	138.95	0.1	0.00								
7/24/2011	138.95	0.1	0.00								
7/25/2011	138.95	0.1	0.00								
7/26/2011	138.95	0.1	0.00								
7/27/2011	138.95	0.1	0.00								
7/28/2011	138.95	0.1	0.00								
7/29/2011	138.95	0.1	0.00								
7/30/2011	138.95	0.1	0.00								
7/31/2011	138.95	0.1	0.00								
8/1/2011	138.95	0.1	0.00								
8/2/2011	138.95	0.1	0.00	9.19							
8/3/2011	138.95	0.1	0.00								
8/4/2011	138.95	0.1	0.00								
8/5/2011	138.95	0.0	0.00								
8/6/2011	138.95	0.0	0.00								
8/7/2011	138.95	0.0	0.00								
8/8/2011	138.95	0.0	0.00								
8/9/2011	138.95	0.0	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
8/10/2011	138.95	0.0	0.00				15	17	12		
8/11/2011	138.95	0.0	0.00								
8/12/2011	138.95	0.0	0.00								
8/13/2011	138.95	0.0	0.00								
8/14/2011	138.95	0.0	0.00								
8/15/2011	138.95	0.0	0.00								
8/16/2011	138.95	0.0	0.00								
8/17/2011	138.95	0.0	0.00								
8/18/2011	138.95	0.0	0.00								
8/19/2011	138.95	0.0	0.00								
8/20/2011	138.95	0.0	0.00								
8/21/2011	138.95	0.0	0.00								
8/22/2011	138.95	0.0	0.00								
8/23/2011	138.95	0.0	0.00								
8/24/2011	138.95	0.0	0.00								
8/25/2011	138.95	0.0	0.00								
8/26/2011	138.95	0.0	0.00								
8/27/2011	138.95	0.0	0.00								
8/28/2011	138.95	0.0	0.00								
8/29/2011	138.95	0.0	0.00	7.58	327	8.9		9.2			
8/30/2011	138.95	0.0	0.00							7.02	8.92
8/31/2011	138.95	0.0	0.00								
9/1/2011	141.70	0.0	0.00				22	15	16		
9/2/2011	142.00	0.1	0.00								
9/3/2011	142.00	0.1	0.00								
9/4/2011	142.16	0.1	0.00								
9/5/2011	145.08	0.1	0.00								
9/6/2011	145.08	0.1	0.00								
9/7/2011	145.08	0.1	0.00								
9/8/2011	145.08	0.1	0.00								
9/9/2011	145.08	0.1	0.00								
9/10/2011	145.08	0.1	0.00								
9/11/2011	145.08	0.1	0.00								
9/12/2011	145.08	0.1	0.00								
9/13/2011	145.08	0.1	0.00								
9/14/2011	145.08	0.1	0.00								
9/15/2011	145.08	0.1	0.00								
9/16/2011	145.08	0.1	0.00								
9/17/2011	145.08	0.1	0.00								
9/18/2011	145.08	0.1	0.00								
9/19/2011	145.08	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
9/20/2011	145.08	0.1	0.00								
9/21/2011	145.08	0.1	0.00								
9/22/2011	145.08	0.1	0.00								
9/23/2011	145.08	0.1	0.00								
9/24/2011	145.08	0.1	0.00								
9/25/2011	143.01	0.1	0.00								
9/26/2011	142.00	0.1	0.00	12.4	25.8	9.22		10.3			
9/27/2011	142.00	0.1	0.00							8.34	13.1
9/28/2011	142.00	0.1	0.00								
9/29/2011	140.86	0.1	0.00								
9/30/2011	138.95	0.1	0.00								
10/1/2011	138.95	0.1	0.00								
10/2/2011	138.95	0.1	0.00								
10/3/2011	138.95	0.1	0.00								
10/4/2011	138.95	0.2	0.00								
10/5/2011	425.60	2.0	0.00			140					
10/6/2011	188.28	0.6	0.00								
10/7/2011	164.54	0.3	0.00								
10/8/2011	151.77	0.3	0.00								
10/9/2011	146.03	0.3	0.00								
10/10/2011	142.81	0.3	0.00								
10/11/2011	142.00	0.3	0.00								
10/12/2011	140.02	0.3	0.00				26	11	11		
10/13/2011	138.95	0.3	0.00								
10/14/2011	138.95	0.3	0.00								
10/15/2011	138.95	0.3	0.00								
10/16/2011	138.95	0.3	0.00								
10/17/2011	138.95	0.3	0.00								
10/18/2011	138.95	0.3	0.00								
10/19/2011	138.95	0.3	0.00								
10/20/2011	138.95	0.4	0.00								
10/21/2011	138.95	0.6	0.00								
10/22/2011	138.95	0.5	0.00								
10/23/2011	138.95	0.4	0.00								
10/24/2011	138.95	0.5	0.00	11.5	50.9	21.2		9.8			
10/25/2011	140.26	0.4	0.00								
10/26/2011	142.00	0.4	0.00							10.9	7.14
10/27/2011	142.00	0.3	0.00								
10/28/2011	142.00	0.3	0.00								
10/29/2011	142.00	0.3	0.00								
10/30/2011	142.00	0.3	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
10/31/2011	142.00	0.3	0.00								
11/1/2011	142.00	0.3	0.00								
11/2/2011	142.00	0.3	0.00				9.4	15	15		
11/3/2011	142.00	0.3	0.00								
11/4/2011	174.63	0.4	0.00			59.6					
11/5/2011	184.90	0.3	0.00								
11/6/2011	246.60	0.3	0.00								
11/7/2011	179.31	0.2	0.00								
11/8/2011	160.77	0.2	0.00								
11/9/2011	151.88	0.2	0.00								
11/10/2011	151.35	0.1	0.00								
11/11/2011	151.35	0.1	0.00								
11/12/2011	187.27	0.2	0.00								
11/13/2011	170.28	0.1	0.00								
11/14/2011	155.43	0.1	0.00								
11/15/2011	151.35	0.1	0.00								
11/16/2011	149.23	0.1	0.00	10.9							
11/17/2011	148.20	0.1	0.00								
11/18/2011	148.20	0.1	0.00								
11/19/2011	148.20	0.1	0.00								
11/20/2011	469.56	0.4	0.00								
11/21/2011	181.73	0.1	0.00								
11/22/2011	164.03	0.1	0.00								
11/23/2011	153.94	0.1	0.00								
11/24/2011	149.93	0.1	0.00								
11/25/2011	148.20	0.1	0.00								
11/26/2011	146.09	0.1	0.00								
11/27/2011	145.08	0.1	0.00								
11/28/2011	145.08	0.1	0.00								
11/29/2011	145.08	0.1	0.00								
11/30/2011	145.08	0.1	0.00								
12/1/2011	145.08	0.1	0.00				18	11	11		
12/2/2011	145.08	0.1	0.00								
12/3/2011	145.08	0.1	0.00								
12/4/2011	145.08	0.1	0.00								
12/5/2011	145.08	0.0	0.00								
12/6/2011	145.08	0.0	0.00								
12/7/2011	145.08	0.0	0.00								
12/8/2011	145.08	0.0	0.00								
12/9/2011	145.08	0.0	0.00								
12/10/2011	145.08	0.0	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
12/11/2011	145.08	0.0	0.00								
12/12/2011	325.47	0.4	0.00			36.3					
12/13/2011	217.10	0.2	0.00								
12/14/2011	172.83	0.1	0.00								
12/15/2011	159.79	0.2	0.00								
12/16/2011	156.78	0.1	0.00								
12/17/2011	152.03	0.1	0.00								
12/18/2011	151.35	0.1	0.00								
12/19/2011	148.98	0.1	0.00								
12/20/2011	148.20	0.1	0.00								
12/21/2011	148.20	0.1	0.00								
12/22/2011	148.20	0.1	0.00								
12/23/2011	148.20	0.1	0.00								
12/24/2011	148.20	0.1	0.00								
12/25/2011	148.20	0.1	0.00								
12/26/2011	148.20	0.1	0.00								
12/27/2011	148.20	0.1	0.00								
12/28/2011	148.20	0.0	0.00								
12/29/2011	148.20	0.0	0.00								
12/30/2011	148.20	0.0	0.00								
12/31/2011	148.20	0.0	0.00								
1/1/2012	148.20	0.0	0.00								
1/2/2012	148.20	0.0	0.00								
1/3/2012	148.20	0.0	0.00								
1/4/2012	148.20	0.0	0.00								
1/5/2012	148.20	0.0	0.00								
1/6/2012	148.20	0.0	0.00								
1/7/2012	148.20	0.1	0.00								
1/8/2012	148.20	0.1	0.00								
1/9/2012	148.20	0.1	0.00								
1/10/2012	148.20	0.1	0.00								
1/11/2012	148.20	0.1	0.00				7.7	7.5	8.7		
1/12/2012	148.20	0.1	0.00								
1/13/2012	148.20	0.1	0.00								
1/14/2012	148.20	0.1	0.00								
1/15/2012	148.20	0.1	0.00								
1/16/2012	148.20	0.1	0.00								
1/17/2012	148.20	0.0	0.00								
1/18/2012	148.20	0.0	0.00								
1/19/2012	148.20	0.0	0.00								
1/20/2012	148.20	0.0	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
1/21/2012	258.97	0.4	0.00			26.5					
1/22/2012	180.95	0.2	0.00								
1/23/2012	297.99	0.5	0.00								
1/24/2012	186.07	0.3	0.00								
1/25/2012	171.98	0.2	0.00								
1/26/2012	160.97	0.2	0.00								
1/27/2012	155.42	0.2	0.00								
1/28/2012	152.18	0.2	0.00								
1/29/2012	151.35	0.2	0.00								
1/30/2012	151.35	0.2	0.00								
1/31/2012	149.45	0.2	0.00								
2/1/2012	148.20	0.2	0.00				8.4	7.8	13		
2/2/2012	148.20	0.2	0.00								
2/3/2012	148.20	0.2	0.00								
2/4/2012	148.20	0.2	0.00								
2/5/2012	148.20	0.2	0.00								
2/6/2012	148.20	0.2	0.00								
2/7/2012	148.20	0.2	0.00	6.16							
2/8/2012	148.20	0.1	0.00								
2/9/2012	148.20	0.1	0.00								
2/10/2012	148.20	0.1	0.00								
2/11/2012	148.20	0.1	0.00								
2/12/2012	148.20	0.1	0.00								
2/13/2012	148.20	0.1	0.00								
2/14/2012	148.20	0.1	0.00								
2/15/2012	159.57	0.3	0.00								
2/16/2012	178.81	0.3	0.00								
2/17/2012	166.67	0.2	0.00								
2/18/2012	159.01	0.2	0.00								
2/19/2012	157.60	0.2	0.00								
2/20/2012	154.53	0.2	0.00								
2/21/2012	154.53	0.2	0.00								
2/22/2012	154.53	0.2	0.00								
2/23/2012	154.53	0.2	0.00								
2/24/2012	154.53	0.2	0.00								
2/25/2012	154.53	0.2	0.00								
2/26/2012	154.53	0.2	0.00								
2/27/2012	154.53	0.2	0.00								
2/28/2012	154.53	0.2	0.00	8.92	6.92	7.64		13.5		6.9	
2/29/2012	151.52	0.2	0.00								
3/1/2012	151.35	0.2	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
3/2/2012	151.35	0.2	0.00								
3/3/2012	151.35	0.2	0.00								
3/4/2012	151.35	0.2	0.00								
3/5/2012	151.35	0.2	0.00								
3/6/2012	151.35	0.3	0.00								
3/7/2012	151.35	0.2	0.00				14	19	22		
3/8/2012	151.35	0.2	0.00								
3/9/2012	151.12	0.2	0.00								
3/10/2012	150.43	0.2	0.00								
3/11/2012	149.72	0.2	0.00								
3/12/2012	149.02	0.2	0.00								
3/13/2012	148.32	0.2	0.00								
3/14/2012	147.63	0.2	0.00								
3/15/2012	146.93	0.2	0.00								
3/16/2012	146.24	0.2	0.00								
3/17/2012	145.54	0.5	0.00			47.5					
3/18/2012	144.85	0.4	0.00								
3/19/2012	144.16	0.3	0.00								
3/20/2012	143.48	0.3	0.00								
3/21/2012	142.79	0.3	0.00								
3/22/2012	142.11	0.3	0.00								
3/23/2012	141.42	0.3	0.00								
3/24/2012	140.74	0.3	0.00								
3/25/2012	140.06	0.6	0.00								
3/26/2012	139.39	0.5	0.00								
3/27/2012	138.71	0.3	0.00								
3/28/2012	138.04	0.3	0.00								
3/29/2012	137.36	0.3	0.00								
3/30/2012	136.69	0.3	0.00								
3/31/2012	136.02	0.3	0.00								
4/1/2012	135.36	0.3	0.00								
4/2/2012	134.69	0.3	0.00								
4/3/2012	134.03	0.1	0.00								
4/4/2012	133.36	0.2	0.00				13	11	12		
4/5/2012	132.70	0.3	0.00								
4/6/2012	132.04	0.3	0.00								
4/7/2012	131.39	0.3	0.00								
4/8/2012	130.73	0.3	0.00								
4/9/2012	130.12	0.3	0.00								
4/10/2012	130.00	0.3	0.00								
4/11/2012	355.01	0.5	0.00			18.9					

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
4/12/2012	166.01	0.3	0.00								
4/13/2012	467.25	0.6	0.00								
4/14/2012	170.82	0.3	0.00								
4/15/2012	155.83	0.3	0.00								
4/16/2012	147.95	0.3	0.00								
4/17/2012	143.06	0.3	0.00								
4/18/2012	142.00	0.3	0.00								
4/19/2012	139.70	0.3	0.00								
4/20/2012	138.95	0.3	0.00								
4/21/2012	138.95	0.3	0.00								
4/22/2012	137.03	0.3	0.00								
4/23/2012	135.93	0.3	0.00								
4/24/2012	135.93	0.3	0.00								
4/25/2012	135.93	0.3	0.00								
4/26/2012	190.24	0.5	0.00								
4/27/2012	160.83	0.3	0.00								
4/28/2012	150.99	0.3	0.00								
4/29/2012	144.37	0.3	0.00								
4/30/2012	141.25	0.3	0.00								
5/1/2012	138.95	0.3	0.00								
5/2/2012	138.95	0.3	0.00				22	19	16		
5/3/2012	138.95	0.3	0.00								
5/4/2012	138.95	0.3	0.00								
5/5/2012	138.95	0.3	0.00								
5/6/2012	138.95	0.3	0.00								
5/7/2012	138.95	0.3	0.00								
5/8/2012	138.95	0.2	0.00	9.48							
5/9/2012	138.95	0.2	0.00								
5/10/2012	138.95	0.2	0.00								
5/11/2012	138.95	0.2	0.00								
5/12/2012	138.95	0.2	0.00								
5/13/2012	138.95	0.2	0.00								
5/14/2012	138.95	0.2	0.00								
5/15/2012	138.95	0.2	0.00								
5/16/2012	138.95	0.2	0.00								
5/17/2012	138.95	0.2	0.00								
5/18/2012	138.95	0.2	0.00								
5/19/2012	138.95	0.2	0.00								
5/20/2012	138.95	0.2	0.00								
5/21/2012	138.95	0.2	0.00	10.9	35.1	10		7.66			
5/22/2012	138.95	0.2	0.00							6.01	9.24

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
5/23/2012	138.95	0.2	0.00								
5/24/2012	138.95	0.2	0.00								
5/25/2012	138.95	0.2	0.00								
5/26/2012	138.95	0.2	0.00								
5/27/2012	138.95	0.2	0.00								
5/28/2012	138.95	0.2	0.00								
5/29/2012	138.95	0.2	0.00								
5/30/2012	138.95	0.2	0.00								
5/31/2012	138.95	0.3	0.00								
6/1/2012	138.95	0.3	0.00								
6/2/2012	138.95	0.3	0.00								
6/3/2012	138.95	0.3	0.00								
6/4/2012	138.95	0.3	0.00								
6/5/2012	138.95	0.3	0.00								
6/6/2012	138.95	0.3	0.00								
6/7/2012	138.95	0.3	0.00								
6/8/2012	138.95	0.3	0.00								
6/9/2012	138.95	0.2	0.00								
6/10/2012	138.95	0.2	0.00								
6/11/2012	138.95	0.2	0.00								
6/12/2012	138.95	0.2	0.00								
6/13/2012	138.95	0.2	0.00				21	10	11		
6/14/2012	138.95	0.2	0.00								
6/15/2012	138.95	0.2	0.00								
6/16/2012	138.95	0.2	0.00								
6/17/2012	138.95	0.2	0.00								
6/18/2012	138.95	0.2	0.00	6.83	29.2	7.33		6.47			
6/19/2012	138.95	0.2	0.00							7.16	
6/20/2012	138.95	0.2	0.00								
6/21/2012	138.95	0.2	0.00								24.2
6/22/2012	138.95	0.2	0.00								
6/23/2012	138.95	0.2	0.00								
6/24/2012	138.95	0.2	0.00								
6/25/2012	138.95	0.2	0.00								
6/26/2012	138.95	0.2	0.00								
6/27/2012	138.95	0.2	0.00								
6/28/2012	136.69	0.2	0.00								
6/29/2012	135.93	0.2	0.00								
6/30/2012	135.93	0.2	0.00								
7/1/2012	135.93	0.2	0.00								
7/2/2012	135.93	0.2	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
7/3/2012	135.93	0.2	0.00								
7/4/2012	135.93	0.2	0.00								
7/5/2012	135.93	0.2	0.00								
7/6/2012	135.93	0.2	0.00								
7/7/2012	135.93	0.2	0.00								
7/8/2012	135.93	0.2	0.00								
7/9/2012	135.93	0.1	0.00								
7/10/2012	135.93	0.1	0.00								
7/11/2012	135.93	0.1	0.00				13	10	9.5		
7/12/2012	135.93	0.1	0.00								
7/13/2012	135.93	0.1	0.00								
7/14/2012	135.93	0.1	0.00								
7/15/2012	135.93	0.1	0.00								
7/16/2012	135.93	0.1	0.00	9.14	29.8	9.03		7.44			
7/17/2012	135.93	0.1	0.00							7.6	
7/18/2012	135.93	0.1	0.00								
7/19/2012	137.36	0.1	0.00								
7/20/2012	138.95	0.1	0.00								
7/21/2012	138.95	0.1	0.00								
7/22/2012	138.95	0.1	0.00								
7/23/2012	138.95	0.1	0.00								
7/24/2012	138.95	0.1	0.00								
7/25/2012	138.95	0.1	0.00								
7/26/2012	138.95	0.1	0.00								
7/27/2012	138.95	0.1	0.00								
7/28/2012	138.95	0.1	0.00								
7/29/2012	138.95	0.1	0.00								
7/30/2012	138.95	0.1	0.00								
7/31/2012	138.95	0.1	0.00								
8/1/2012	138.95	0.1	0.00								
8/2/2012	138.95	0.1	0.00								
8/3/2012	138.95	0.1	0.00								
8/4/2012	138.95	0.1	0.00								
8/5/2012	138.95	0.1	0.00								
8/6/2012	138.95	0.1	0.00								
8/7/2012	138.95	0.1	0.00	11.2							
8/8/2012	138.95	0.1	0.00								
8/9/2012	138.95	0.1	0.00								
8/10/2012	138.95	0.1	0.00								
8/11/2012	138.95	0.1	0.00								
8/12/2012	138.95	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
8/13/2012	138.95	0.1	0.00	7.14	31.6	8.32	16	7.6	10		
8/14/2012	138.95	0.1	0.00							7	
8/15/2012	138.95	0.1	0.00								
8/16/2012	138.95	0.1	0.00								
8/17/2012	138.95	0.1	0.00								
8/18/2012	138.95	0.1	0.00								
8/19/2012	138.95	0.1	0.00								
8/20/2012	138.95	0.1	0.00								
8/21/2012	138.95	0.1	0.00								
8/22/2012	138.95	0.1	0.00								
8/23/2012	138.95	0.1	0.00								
8/24/2012	138.95	0.1	0.00								
8/25/2012	138.95	0.1	0.00								
8/26/2012	138.95	0.1	0.00								
8/27/2012	138.95	0.1	0.00								
8/28/2012	138.95	0.1	0.00								
8/29/2012	138.95	0.1	0.00								
8/30/2012	138.95	0.1	0.00								
8/31/2012	138.92	0.1	0.00								
9/1/2012	138.77	0.1	0.00								
9/2/2012	138.61	0.1	0.00								
9/3/2012	138.46	0.1	0.00								
9/4/2012	138.30	0.1	0.00								
9/5/2012	138.14	0.1	0.00								
9/6/2012	137.98	0.1	0.00				16	8.5	8.1		
9/7/2012	137.83	0.1	0.00								
9/8/2012	137.67	0.1	0.00								
9/9/2012	137.51	0.1	0.00								
9/10/2012	137.35	0.1	0.00								
9/11/2012	137.20	0.1	0.00								
9/12/2012	137.04	0.1	0.00								
9/13/2012	136.88	0.1	0.00								
9/14/2012	136.73	0.1	0.00								
9/15/2012	136.57	0.1	0.00								
9/16/2012	136.41	0.3	0.00								
9/17/2012	136.26	0.2	0.00								
9/18/2012	136.10	0.2	0.00								
9/19/2012	135.96	0.2	0.00								
9/20/2012	135.93	0.2	0.00								
9/21/2012	135.93	0.2	0.00								
9/22/2012	135.93	0.2	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
9/23/2012	135.93	0.2	0.00								
9/24/2012	135.93	0.2	0.00	9.78	22.8	8.56		9.43			
9/25/2012	135.93	0.2	0.00							8.28	
9/26/2012	135.93	0.2	0.00								
9/27/2012	135.93	0.2	0.00								
9/28/2012	135.93	0.2	0.00								
9/29/2012	135.93	0.2	0.00								
9/30/2012	135.93	0.2	0.00								
10/1/2012	135.93	0.2	0.00				9.9	7.9	8.6		
10/2/2012	135.93	0.2	0.00								
10/3/2012	135.93	0.2	0.00								
10/4/2012	135.93	0.2	0.00								
10/5/2012	135.93	0.2	0.00								
10/6/2012	135.93	0.2	0.00								
10/7/2012	135.93	0.2	0.00								
10/8/2012	135.93	0.2	0.00								
10/9/2012	135.93	0.2	0.00								
10/10/2012	135.94	0.2	0.00								
10/11/2012	4361.81	0.8	0.00								
10/12/2012	165.53	0.5	0.00								
10/13/2012	158.02	0.4	0.00								
10/14/2012	148.02	0.4	0.00								
10/15/2012	142.88	0.4	0.00								
10/16/2012	139.68	0.4	0.00								
10/17/2012	136.45	0.4	0.00								
10/18/2012	134.05	0.4	0.00								
10/19/2012	132.95	0.4	0.00								
10/20/2012	132.95	0.4	0.00								
10/21/2012	132.95	0.4	0.00								
10/22/2012	132.95	0.4	0.00								
10/23/2012	132.95	0.4	0.00								
10/24/2012	132.95	0.4	0.00								
10/25/2012	132.95	0.4	0.00								
10/26/2012	132.95	0.3	0.00								
10/27/2012	132.95	0.3	0.00								
10/28/2012	132.95	0.3	0.00								
10/29/2012	132.95	0.3	0.00								
10/30/2012	132.95	0.3	0.00	10.8	28.8	12.6		7.95		10.2	13.3
10/31/2012	132.95	0.3	0.00								
11/1/2012	135.65	0.3	0.00				10	8.8	8.9		
11/2/2012	135.93	0.3	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
11/3/2012	135.93	0.3	0.00								
11/4/2012	135.93	0.3	0.00								
11/5/2012	135.93	0.3	0.00								
11/6/2012	135.93	0.3	0.00	9.32							
11/7/2012	135.93	0.3	0.00								
11/8/2012	135.93	0.3	0.00								
11/9/2012	135.93	0.3	0.00								
11/10/2012	135.93	0.3	0.00								
11/11/2012	135.93	0.3	0.00								
11/12/2012	135.93	0.3	0.00								
11/13/2012	135.93	0.3	0.00								
11/14/2012	135.93	0.3	0.00								
11/15/2012	135.93	0.3	0.00								
11/16/2012	135.93	0.3	0.00								
11/17/2012	1015.88	0.8	0.00			60.6					
11/18/2012	1150.99	0.8	0.00								
11/19/2012	161.14	0.4	0.00								
11/20/2012	149.36	0.3	0.00								
11/21/2012	144.15	0.3	0.00								
11/22/2012	142.00	0.3	0.00								
11/23/2012	142.00	0.3	0.00								
11/24/2012	140.06	0.3	0.00								
11/25/2012	138.95	0.3	0.00								
11/26/2012	138.95	0.3	0.00								
11/27/2012	138.95	0.3	0.00								
11/28/2012	138.95	0.3	0.00								
11/29/2012	1142.89	0.4	0.00								
11/30/2012	2285.18	0.5	0.00								
12/1/2012	468.45	0.3	0.00								
12/2/2012	590.66	0.4	0.00								
12/3/2012	2848.65	0.6	0.00			16.8					
12/4/2012	262.90	0.3	0.00								
12/5/2012	156.41	0.3	0.00				14	10	10		
12/6/2012	149.47	0.3	0.00								
12/7/2012	146.33	0.3	0.00								
12/8/2012	145.08	0.3	0.00								
12/9/2012	145.08	0.3	0.00								
12/10/2012	145.08	0.3	0.00								
12/11/2012	145.08	0.3	0.00								
12/12/2012	145.08	0.3	0.00								
12/13/2012	1136.00	0.5	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
12/14/2012	195.68	0.3	0.00								
12/15/2012	220.92	0.3	0.00								
12/16/2012	152.97	0.3	0.00								
12/17/2012	134.31	0.3	0.00								
12/18/2012	1287.04	0.4	0.00								
12/19/2012	174.49	0.3	0.00								
12/20/2012	138.95	0.3	0.00								
12/21/2012	138.95	0.3	0.00								
12/22/2012	138.95	0.3	0.00								
12/23/2012	150.34	0.3	0.00								
12/24/2012	3428.42	0.5	0.00								
12/25/2012	156.95	0.3	0.00								
12/26/2012	1542.45	0.5	0.00								
12/27/2012	154.53	0.3	0.00								
12/28/2012	156.24	0.3	0.00								
12/29/2012	1138.28	0.5	0.00								
12/30/2012	148.20	0.3	0.00								
12/31/2012	148.20	0.3	0.00								
1/1/2013	148.20	0.3	0.00								
1/2/2013	148.20	0.3	0.00								
1/3/2013	148.20	0.3	0.00								
1/4/2013	148.20	0.3	0.00								
1/5/2013	148.20	0.3	0.00								
1/6/2013	267.41	0.3	0.00								
1/7/2013	135.93	0.3	0.00								
1/8/2013	135.93	0.3	0.00								
1/9/2013	135.93	0.3	0.00				18	9.6	11		
1/10/2013	135.93	0.3	0.00								
1/11/2013	135.93	0.3	0.00								
1/12/2013	135.93	0.3	0.00								
1/13/2013	135.93	0.3	0.00								
1/14/2013	135.93	0.3	0.00								
1/15/2013	135.93	0.3	0.00								
1/16/2013	135.93	0.3	0.00								
1/17/2013	135.93	0.3	0.00								
1/18/2013	135.93	0.3	0.00								
1/19/2013	135.93	0.3	0.00								
1/20/2013	135.93	0.3	0.00								
1/21/2013	135.93	0.3	0.00								
1/22/2013	135.92	0.2	0.00								
1/23/2013	130.64	0.2	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
1/24/2013	3552.42	0.6	0.00			30.5					
1/25/2013	1268.51	0.4	0.00								
1/26/2013	429.34	0.3	0.00								
1/27/2013	280.74	0.3	0.00								
1/28/2013	696.62	0.3	0.00								
1/29/2013	153.95	0.3	0.00								
1/30/2013	147.96	0.3	0.00								
1/31/2013	144.50	0.3	0.00								
2/1/2013	139.94	0.3	0.00								
2/2/2013	138.95	0.3	0.00								
2/3/2013	138.95	0.3	0.00								
2/4/2013	137.16	0.3	0.00								
2/5/2013	135.93	0.3	0.00	6.18							
2/6/2013	135.93	0.3	0.00				13	9.6	11		
2/7/2013	165.18	0.3	0.00								
2/8/2013	221.97	0.4	0.00			28.5					
2/9/2013	374.88	0.3	0.00								
2/10/2013	154.53	0.3	0.00								
2/11/2013	148.61	0.3	0.00								
2/12/2013	145.08	0.3	0.00								
2/13/2013	142.85	0.3	0.00								
2/14/2013	139.84	0.3	0.00								
2/15/2013	138.95	0.3	0.00								
2/16/2013	138.95	0.3	0.00								
2/17/2013	138.95	0.3	0.00								
2/18/2013	138.95	0.3	0.00								
2/19/2013	194.46	0.3	0.00								
2/20/2013	1492.02	0.4	0.00								
2/21/2013	157.72	0.3	0.00								
2/22/2013	153.61	0.3	0.00								
2/23/2013	148.62	0.3	0.00								
2/24/2013	144.64	0.3	0.00								
2/25/2013	142.00	0.3	0.00								
2/26/2013	140.03	0.3	0.00								
2/27/2013	138.95	0.3	0.00								
2/28/2013	138.95	0.3	0.00								
3/1/2013	138.95	0.3	0.00								
3/2/2013	138.95	0.2	0.00								
3/3/2013	138.95	0.2	0.00								
3/4/2013	138.95	0.2	0.00								
3/5/2013	138.95	0.2	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
3/6/2013	138.95	0.2	0.00				16	14	15		
3/7/2013	140.53	0.3	0.00								
3/8/2013	2591.35	0.5	0.00			32.9					
3/9/2013	157.66	0.3	0.00								
3/10/2013	150.64	0.3	0.00								
3/11/2013	145.04	0.3	0.00								
3/12/2013	139.41	0.3	0.00								
3/13/2013	136.51	0.3	0.00								
3/14/2013	133.73	0.3	0.00								
3/15/2013	132.95	0.3	0.00								
3/16/2013	132.95	0.3	0.00								
3/17/2013	132.21	0.3	0.00								
3/18/2013	130.00	0.3	0.00								
3/19/2013	130.00	0.3	0.00								
3/20/2013	130.00	0.2	0.00								
3/21/2013	130.00	0.2	0.00								
3/22/2013	130.00	0.2	0.00								
3/23/2013	130.00	0.2	0.00								
3/24/2013	130.00	0.2	0.00								
3/25/2013	130.00	0.2	0.00								
3/26/2013	130.00	0.2	0.00								
3/27/2013	130.00	0.2	0.00								
3/28/2013	130.00	0.2	0.00								
3/29/2013	130.00	0.2	0.00								
3/30/2013	130.00	0.2	0.00								
3/31/2013	130.00	0.2	0.00								
4/1/2013	130.00	0.2	0.00								
4/2/2013	130.00	0.2	0.00								
4/3/2013	130.00	0.2	0.00				15	60	18		
4/4/2013	130.00	0.2	0.00								
4/5/2013	130.00	0.2	0.00								
4/6/2013	130.00	0.2	0.00								
4/7/2013	130.02	0.2	0.00								
4/8/2013	130.35	0.1	0.00								
4/9/2013	130.78	0.1	0.00								
4/10/2013	131.21	0.1	0.00								
4/11/2013	131.65	0.1	0.00								
4/12/2013	132.08	0.1	0.00								
4/13/2013	132.51	0.1	0.00								
4/14/2013	133.27	0.1	0.00								
4/15/2013	134.81	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
4/16/2013	130.74	0.1	0.00								
4/17/2013	130.00	0.1	0.00								
4/18/2013	130.00	0.1	0.00								
4/19/2013	130.00	0.1	0.00								
4/20/2013	130.00	0.1	0.00								
4/21/2013	130.00	0.1	0.00								
4/22/2013	130.00	0.1	0.00	10.5	65.2	11.8		9.05			
4/23/2013	130.00	0.1	0.00							5.76	35.8
4/24/2013	130.00	0.1	0.00								
4/25/2013	130.00	0.1	0.00								
4/26/2013	130.00	0.1	0.00								
4/27/2013	130.00	0.3	0.00								
4/28/2013	130.00	0.2	0.00								
4/29/2013	130.00	0.2	0.00								
4/30/2013	130.00	0.2	0.00								
5/1/2013	130.18	0.2	0.00								
5/2/2013	131.47	0.2	0.00				26	21	12		
5/3/2013	132.91	0.2	0.00								
5/4/2013	134.14	0.2	0.00								
5/5/2013	135.34	0.2	0.00								
5/6/2013	1908.09	0.5	0.00			35.4					
5/7/2013	1276.59	0.3	0.00								
5/8/2013	144.46	0.3	0.00								
5/9/2013	143.23	0.3	0.00								
5/10/2013	142.00	0.3	0.00								
5/11/2013	140.77	0.3	0.00								
5/12/2013	139.56	0.3	0.00								
5/13/2013	138.34	0.3	0.00								
5/14/2013	137.13	0.3	0.00	6.36							
5/15/2013	136.04	0.3	0.00								
5/16/2013	135.57	0.3	0.00								
5/17/2013	135.21	0.3	0.00								
5/18/2013	134.84	0.3	0.00								
5/19/2013	134.48	0.3	0.00								
5/20/2013	134.12	0.3	0.00								
5/21/2013	133.76	0.3	0.00								
5/22/2013	133.40	0.3	0.00								
5/23/2013	133.04	0.3	0.00								
5/24/2013	132.68	0.3	0.00								
5/25/2013	132.32	0.2	0.00								
5/26/2013	131.96	0.2	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
5/27/2013	131.60	0.2	0.00								
5/28/2013	131.25	0.2	0.00								
5/29/2013	130.89	0.2	0.00								
5/30/2013	130.53	0.2	0.00								
5/31/2013	130.18	0.2	0.00								
6/1/2013	130.53	0.2	0.00								
6/2/2013	131.61	0.2	0.00								
6/3/2013	132.68	0.2	0.00								
6/4/2013	133.76	0.2	0.00								
6/5/2013	134.84	0.2	0.00				19	14	11		
6/6/2013	135.67	0.2	0.00								
6/7/2013	134.93	0.2	0.00								
6/8/2013	133.94	0.1	0.00								
6/9/2013	132.95	0.0	0.00								
6/10/2013	131.96	0.1	0.00								
6/11/2013	130.98	0.1	0.00								
6/12/2013	130.17	0.1	0.00								
6/13/2013	130.37	0.1	0.00								
6/14/2013	130.73	0.1	0.00								
6/15/2013	131.10	0.1	0.00								
6/16/2013	131.47	0.1	0.00								
6/17/2013	131.84	0.1	0.00	9.63	28.5	10.3		8.15			
6/18/2013	132.21	0.1	0.00							7.16	
6/19/2013	132.58	0.1	0.00								
6/20/2013	132.94	0.1	0.00								
6/21/2013	133.25	0.1	0.00								
6/22/2013	133.54	0.1	0.00								
6/23/2013	133.84	0.1	0.00								
6/24/2013	134.14	0.1	0.00								
6/25/2013	134.44	0.1	0.00								
6/26/2013	134.73	0.1	0.00								
6/27/2013	135.03	0.1	0.00								
6/28/2013	135.33	0.1	0.00								
6/29/2013	135.63	0.1	0.00								
6/30/2013	135.15	0.1	0.00								
7/1/2013	130.83	0.1	0.00								
7/2/2013	130.73	0.1	0.00								
7/3/2013	131.47	0.1	0.00								
7/4/2013	132.21	0.1	0.00								
7/5/2013	132.61	0.2	0.00								
7/6/2013	130.98	0.3	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
7/7/2013	129.05	0.2	0.00								
7/8/2013	127.51	0.2	0.00								
7/9/2013	128.10	0.2	0.00								
7/10/2013	129.05	0.2	0.00				13	12	9.1		
7/11/2013	129.97	0.2	0.00								
7/12/2013	130.73	0.2	0.00								
7/13/2013	131.47	0.2	0.00								
7/14/2013	132.21	0.2	0.00								
7/15/2013	132.91	0.2	0.00								
7/16/2013	133.37	0.2	0.00								
7/17/2013	133.80	0.2	0.00								
7/18/2013	134.22	0.2	0.00								
7/19/2013	134.65	0.1	0.00								
7/20/2013	135.08	0.1	0.00								
7/21/2013	135.50	0.1	0.00								
7/22/2013	135.50	0.1	0.00								
7/23/2013	132.95	0.1	0.00								
7/24/2013	130.44	0.1	0.00								
7/25/2013	130.59	0.1	0.00								
7/26/2013	131.18	0.1	0.00								
7/27/2013	131.77	0.1	0.00								
7/28/2013	132.36	0.1	0.00								
7/29/2013	132.75	0.1	0.00								
7/30/2013	131.96	0.1	0.00								
7/31/2013	130.98	0.1	0.00								
8/1/2013	130.06	0.1	0.00								
8/2/2013	129.53	0.1	0.00								
8/3/2013	129.05	0.1	0.00								
8/4/2013	128.58	0.1	0.00								
8/5/2013	128.10	0.1	0.00								
8/6/2013	127.63	0.1	0.00	12.8							
8/7/2013	127.36	0.1	0.00				24	9.7	8.9		
8/8/2013	128.29	0.1	0.00								
8/9/2013	129.43	0.1	0.00								
8/10/2013	130.59	0.1	0.00								
8/11/2013	131.77	0.1	0.00								
8/12/2013	132.74	0.1	0.00								
8/13/2013	132.46	0.1	0.00								
8/14/2013	131.96	0.1	0.00								
8/15/2013	131.47	0.1	0.00								
8/16/2013	130.98	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
8/17/2013	130.49	0.0	0.00								
8/18/2013	130.06	0.0	0.00								
8/19/2013	130.00	0.0	0.00								
8/20/2013	130.00	0.0	0.00								
8/21/2013	130.00	0.0	0.00								
8/22/2013	130.00	0.0	0.00								
8/23/2013	130.00	0.0	0.00								
8/24/2013	130.00	0.0	0.00								
8/25/2013	130.00	0.0	0.00								
8/26/2013	130.00	0.0	0.00								
8/27/2013	130.00	0.0	0.00								
8/28/2013	128.24	0.0	0.00								
8/29/2013	117.71	0.1	0.00								
8/30/2013	115.21	0.3	0.00								
8/31/2013	114.32	0.3	0.00								
9/1/2013	113.21	0.2	0.00								
9/2/2013	110.78	0.2	0.00								
9/3/2013	108.16	0.3	0.00								
9/4/2013	105.56	0.3	0.00								
9/5/2013	103.53	0.3	0.00				17	9.6	13		
9/6/2013	104.71	0.3	0.00								
9/7/2013	106.42	0.3	0.00								
9/8/2013	108.03	0.2	0.00								
9/9/2013	108.90	0.3	0.00								
9/10/2013	109.65	0.3	0.00								
9/11/2013	110.40	0.2	0.00								
9/12/2013	111.15	0.2	0.00								
9/13/2013	111.91	0.2	0.00								
9/14/2013	112.67	0.2	0.00								
9/15/2013	113.17	0.1	0.00								
9/16/2013	112.10	0.1	0.00								
9/17/2013	110.78	0.1	0.00								
9/18/2013	109.46	0.1	0.00								
9/19/2013	108.19	0.1	0.00								
9/20/2013	107.11	0.1	0.00								
9/21/2013	106.08	0.1	0.00								
9/22/2013	105.05	0.1	0.00								
9/23/2013	104.02	0.1	0.00								
9/24/2013	103.37	0.0	0.00								
9/25/2013	104.92	0.0	0.00								
9/26/2013	106.85	0.1	0.00								

Date	FLOW_LARF	FLOW_RHDS	FlowRatio_RIOH to RIOH+ LARF	CU_LARS	CU_TUJW	CU_LART	CU_BWCH above WRP	CU_BWCH	CU_BWRP	CU_LARF	CU_RIOH
9/27/2013	108.81	0.3	0.00								
9/28/2013	110.42	0.3	0.00								
9/29/2013	109.90	0.2	0.00								
9/30/2013	109.02	0.2	0.00								

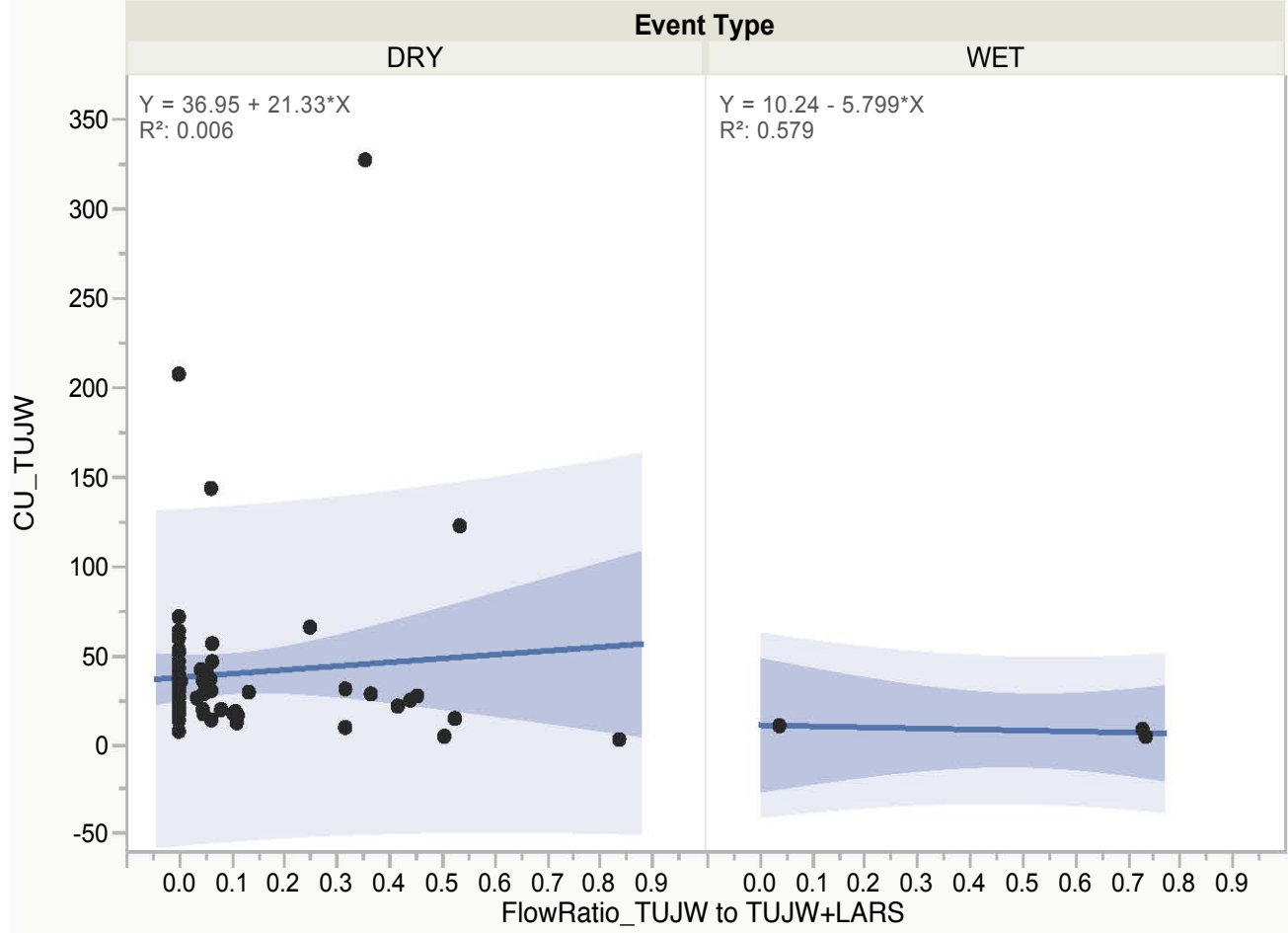
APPENDIX 2 – Correlation Analysis for Tributary Copper Concentrations vs. Proportion of Tributary Flows

Summary of correlation analysis results for tributary copper concentrations vs. proportion of tributary flows:

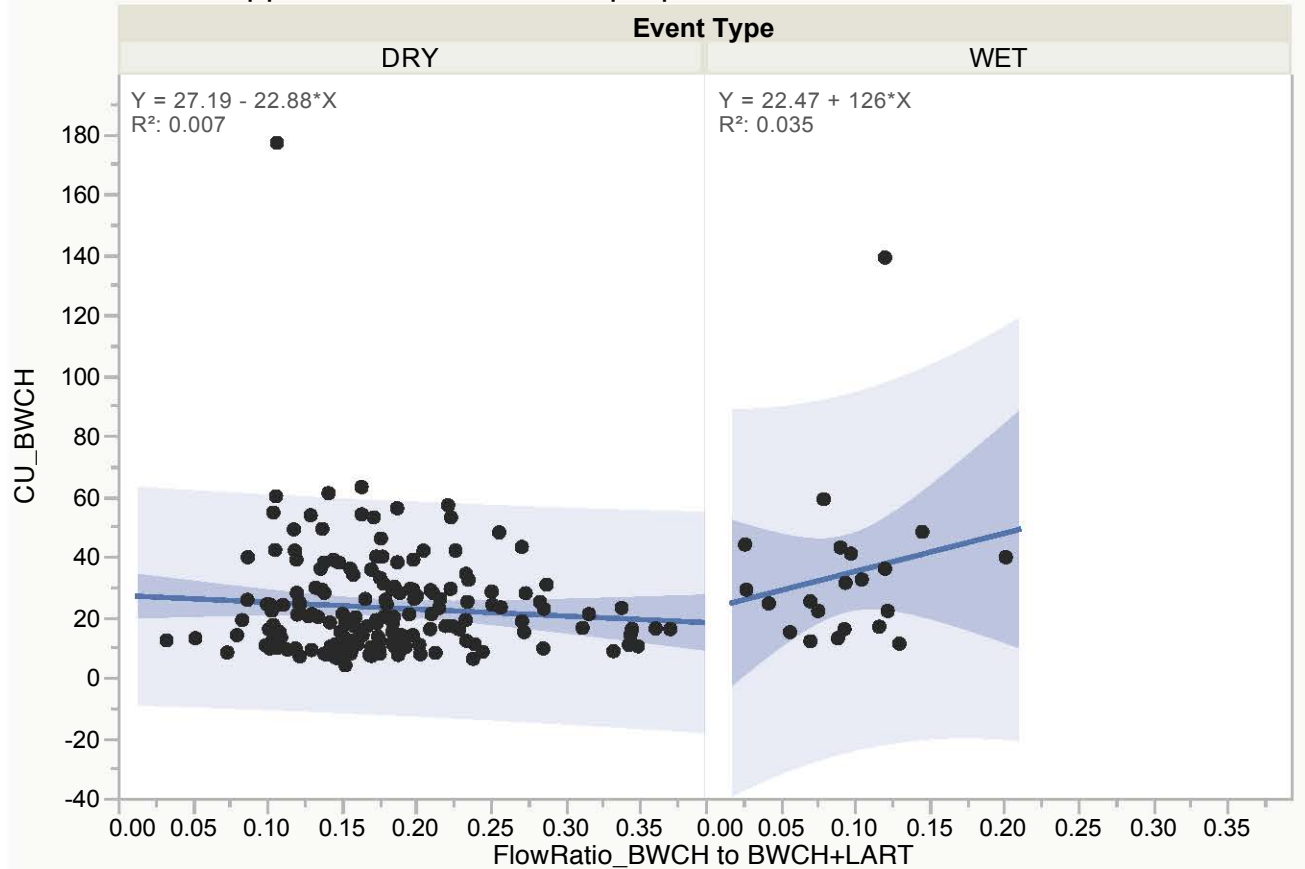
All results were non-significant ($p > 0.05$) or negative (tributary copper concentrations trended lower when proportion of tributary flow was higher)

Event	Variable	by Variable	Spearman ρ	Prob> ρ	Note
DRY	CU_TUJW	Proportion TUJW flow downstream	-0.1541	0.2029	
WET	CU_TUJW	Proportion TUJW flow downstream	-1.0000	<.0001*	n=3
DRY	CU_BWCH	Proportion BWCH flow downstream	0.0359	0.6377	
WET	CU_BWCH	Proportion BWCH flow downstream	0.1591	0.4908	
DRY	CU_BWCH above WRP	Proportion BWCH above WRP flow below Burbank WRP	-0.3105	0.0026*	
WET	CU_BWCH above WRP	Proportion BWCH above WRP flow below Burbank WRP	-0.2000	0.8000	
DRY	CU_RIOH	Proportion RIOH flow downstream	-0.1727	0.2404	
WET	CU_RIOH	Proportion RIOH flow downstream	-0.6667	0.0710	

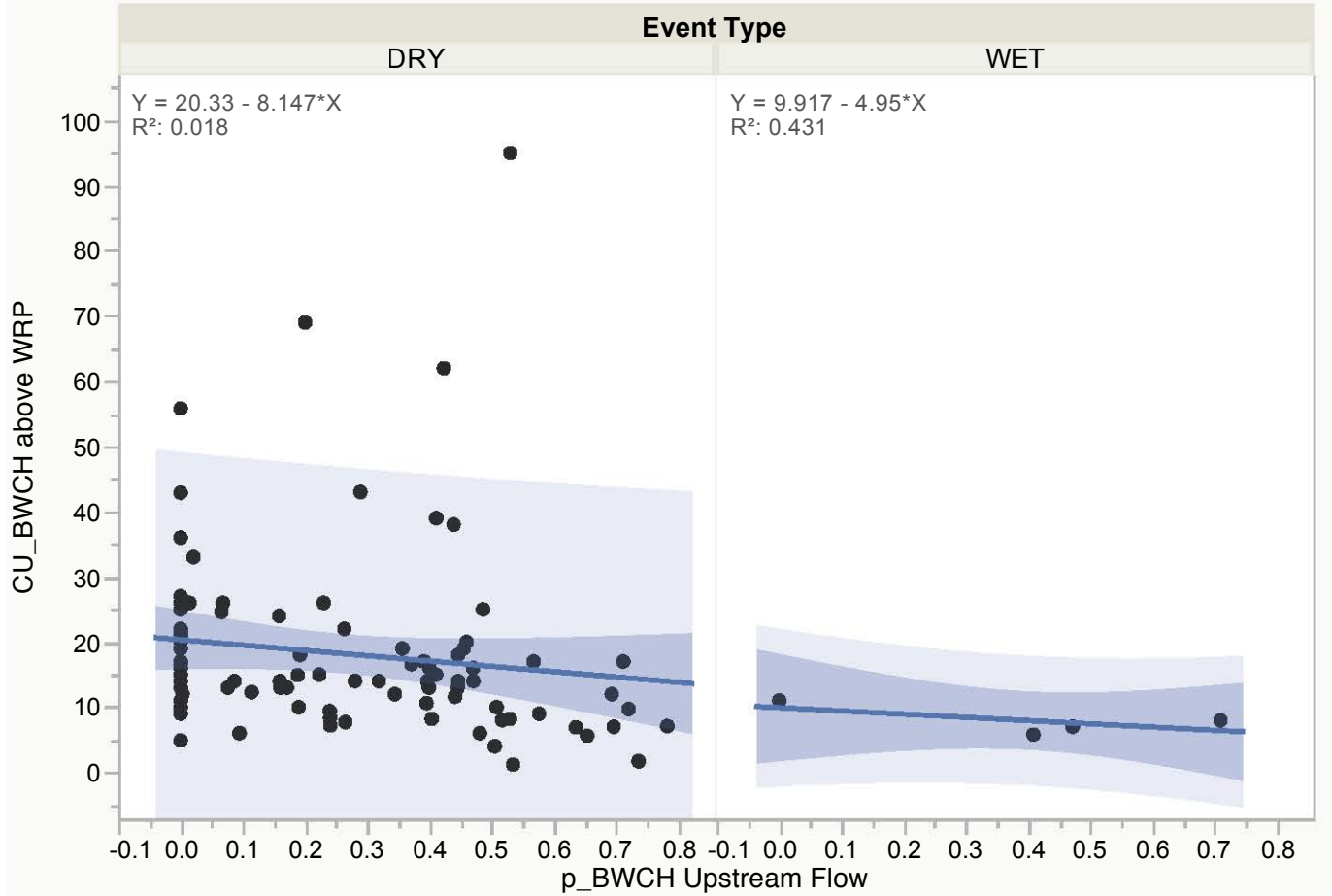
Tujunga copper concentrations vs. proportion of Tujunga flows downstream



BWCH copper concentrations vs. proportion of BWCH flows downstream



BWCH above WRP copper concentrations vs. proportion of flows downstream



RIOH copper concentrations vs. proportion of RIOH flows downstream

