Man Voong - Sanitation Districts of LA County 303(d) List Comment Letter

From: "Hoffman, Ken" <KHoffman@lacsd.org>
To: <mvoong@waterboards.ca.gov>
Date: 6/17/2009 10:56 AM
Subject: Sanitation Districts of LA County 303(d) List Comment Letter
Attachments: 1286215.pdf

Man Voong,
Attached is the Sanitation Districts of Los Angeles County's comments on the April 2009 proposed 2008 Los Angeles Region Clean Water Act Section 303(d) List of impaired waters. A hard copy will follow by mail but the Sanitation Districts understand the filing by email by 5 pm to fulfill the deadline requirements for comments. The Sanitation Districts appreciate the opportunity to be involved in the listing process and the Regional Boards efforts to be transparent in decisions. If you have any questions please feel free to contact me by email or any of the numbers below.

Thank you,
Ken

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STEPHEN R. MAGUIN
Chief Engineer and General Manager

June 17, 2009
File No. 31-370.40.4A

Mr. Man Voong
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Dear Mr. Voong:

Comments on the April 2009 Proposed 2008 Los Angeles Region Clean Water Act Section 303(d) List of Impaired Waters

The Sanitation Districts of Los Angeles County ("Sanitation Districts") appreciate the opportunity to comment on the April 2009 proposed 2008 Los Angeles Region Clean Water Act Section 303(d) List of Impaired Waters ("303(d) List") prepared by the California Regional Water Quality Control Board, Los Angeles Region ("Regional Board"). The Sanitation Districts are a consortium of 24 independent special districts serving the wastewater and solid waste management needs of over five million people and 3,300 industries in Los Angeles County, California. The Sanitation Districts currently operate and maintain over 1,400 miles of trunk sewers and 11 wastewater treatment plants that collectively treat over 450 million gallons per day of wastewater. Of the 11 wastewater treatment plants, nine are located in the Los Angeles Region. Seven of the these treatment plants discharge to inland surface waters in the San Gabriel River, Santa Clara River, and Rio Hondo watersheds; one discharges to the Pacific Ocean; and one does not discharge to surface waters but instead solely supplies recycled water for irrigation.

First, the Sanitation Districts would like to take this opportunity to commend Regional Board staff for their diligent implementation of the State Water Resources Control Board's ("State Board's") Quality Control Policy for Developing California's Clean Water Act Section 303(d) List ("Listing Policy") to produce, for the most part, a well-documented and scientifically valid 303(d) List. In addition, the Sanitation Districts greatly appreciate the efforts of the Regional Board to make the listing process more transparent, particularly through making the data used to assess listings available on the Regional Board's website and through production of clear fact sheets on each water body/pollutant combination.

Although the Sanitation Districts support the overall methodology used by the Regional Board to produce the 303(d) List, the Sanitation Districts do have concerns on some aspects of it, particularly where the methodology used was not consistent with direction provided by the State Board in their Listing Policy. General comments relating to these concerns are provided below and detailed specific comments are provided in Attachment 1 and appendices to this letter.

DOC#1286215

1. Nutrient Criteria Should Not be Promulgated as Part of the 303(d) Listing Process

Section 3.3.3 of the 2008 Update of the Los Angeles Region Integrated Report Clean Water Act Section 305(b) Report and Section 303(d) List of Impaired Waters ("303(d) List Staff Report") states that in the current 303(d) List update, nitrogen impairment decisions continue to be based on the current Basin Plan objectives for nitrogen compounds. However, in the 303(d) List Staff Report the Regional Board proposes to use a new methodology for assessing nutrient-related impairments in the future. This methodology would rely on an assessment of both nutrient concentrations and one or more biological response indicators such as pH and dissolved oxygen.

While we commend the Regional Board for recognizing the significant issues associated with eutrophication and nutrient-related impairments, the 303(d) List Staff Report is an inappropriate vehicle to introduce proposed nutrient criteria and objectives. Promulgation of new nutrient criteria and/or implementation policies related thereto constitutes an amendment to the Basin Plan, and should therefore be handled exclusively through appropriate Basin Plan amendment procedures. Adoption of Basin Plan amendments requires fulfilling the requirements of California Environmental Quality Act ("CEQA") as well as conducting an analysis in accordance with California Water Code 13241/13000 factors. The appropriate time to consider whether numeric nutrient criteria should be pursued is during the triennial review of the Basin Plan. During this and subsequent basin plan amendment review, the costs and benefits of adopting such criteria can be assessed and the priority for pursuing the criteria can be weighed against other basin planning priorities.

Notwithstanding our previous objection that proposed Basin Plan objectives and/or implementation policies related thereto should only be addressed through an appropriate Basin Plan amendment process, the Sanitation Districts have a number of concerns with the nutrient and biological response criteria approach proposed by the Regional Board. The Sanitation Districts do not believe that it is appropriate for the Regional Board to pursue development of numeric nutrient criteria at this time. The State Board, in conjunction with the United States Environmental Protection Agency ("USEPA") Region 9, has been actively working for a number of years on the development of numeric nutrient endpoint ("NNE") tools for California to address nutrient objectives. Statewide tools to assess nutrient impairments in freshwater streams and lakes are currently being peer reviewed, with ongoing validation studies being conducted for estuaries. These tools utilize biological indicators to assess nutrient impairments (excess algal biomass and extremes in photosynthesis-caused dissolved oxygen and pH). The State Board and USEPA have put extensive resources toward development of scientifically sound NNE tools. To avoid duplication of effort, the Regional Board should wait until the State Board releases its NNE tools before considering whether it should develop its own independent nutrient objectives. The approach to nutrient criteria developed by the State Board and USEPA Region 9 is described in the report, "Technical Approach to Develop Nutrient Numeric Endpoints for California" ("CA NNE"), released in 2006. The CA NNE report calls for using multiple lines of biological responses to make an assessment of impairment. Based on this assessment, if an impairment exists, then nutrient concentrations can be examined to determine if they are causing or contributing to the impairment, and nutrient standards can then be developed as appropriate. In preparing this report, the State Board and other experts correctly recognized that ambient nutrient concentrations typically do not correlate with algal/nutrient related impairments, and thus nutrient concentrations should **not** be used to assess whether an impairment exists. In conflict with the Statewide approach, the Regional Board approach includes nutrient concentrations (i.e., total nitrogen and phosphorous) as a line of evidence to use when assessing whether an impairment exists. Beneficial use impairment only occurs when, independent of nutrient loading, the biological response is of sufficient magnitude to adversely impact the use.

Examples of the proposed Regional Board approach to nutrient criteria are presented in Tables 3-2 and 3-3 of the 303(d) List Staff Report. In this table, the Regional Board lists criteria from a number of different sources, including the 2000 USEPA National Nutrient Criteria Technical Guidance ("National Guidance") and the subsequent 2001 USEPA Ecoregion III Nutrient Criteria Recommendations for Rivers and Streams ("Ecoregion III Guidance"). The purpose of the National Guidance was not to recommend specific nutrient criteria, but rather to describe an approach to be used by the states to develop such criteria. The numbers cited by the Regional Board in Tables 3-2 and 3-3 of the 303(d) List Staff Report from the National Guidance were taken from a table listing a number of examples of numeric thresholds drawn from various studies. No justification was provided by the Regional Board as to why these particular values were chosen, or why these particular values would be applicable to waterbodies in the Los Angeles Region. Furthermore, the approach described in the National Guidance and in the Ecoregion III Guidance, which covers the Xeric West ecoregion that includes most of the Los Angeles Basin, has been widely criticized for its technical shortcomings. Under this approach, criteria for nutrients are set at the 25th percentile of nutrient concentrations for all waterbodies within an ecoregion. This arbitrarily delineates 75% of the waterbodies in a region as impaired. Additionally, no attempt was made in the guidance documents to show a relationship between the nutrient criteria and eutrophic conditions that would affect beneficial uses. In response to these and other flaws, the guidance was never adopted in California, and the State Board and USEPA Region 9 continued to pursue efforts to develop guidance specific to California, as described above.

Another criteria source listed by the Regional Board was a New Zealand guidance document. The Sanitation Districts believe that criteria for another continent should not be used without a high degree of scrutiny to ensure that it is appropriate for the Los Angeles Region. A site-specific study for Malibu Creek was also referenced; however, criteria for one specific water body should not be applied region-wide unless a technical review indicates that it is appropriate region-wide. The last source mentioned is the State Board NNE screening tools for 303(d) listing. While the Sanitation Districts concur that the State Board's NNE guidance, as presented in the CA NNE report, is the most appropriate guidance currently available, the Regional Board's tables do not accurately portray the guidance in the report. In particular, the pH, dissolved oxygen, total nitrogen, and total phosphorus criteria listed in Table 3-2 for the State Board NNE screening tools for 303(d) listing are not consistent with the CA NNE report. Additionally, the criteria listed for benthic algal biomass are misrepresented; the criteria listed are not meant to be used to determine impairments, but rather, to distinguish between waterbodies that are definitely not impaired versus those that are potentially impaired, but for which further study is needed to assess an impairment.

Overall, regarding assessment of nutrient impairments, the Sanitation Districts recommend that the Regional Board not develop its own policy at this time, or in this forum. Where assessment of nutrient impairments is necessary prior to release of statewide nutrient criteria, the Regional Board should refer to the CA NNE for guidance. Should the Regional Board elect to develop regional nutrient criteria, this should be accomplished through the Basin Plan amendment process.

2. All Listings Based on the P MUN Beneficial Use should be Removed*

The Sanitation Districts believe that the following water body/pollutant combinations should not be added to the 303(d) List:

Coyote Creek - sulfate and TDS (based on application of secondary MCLs)

San Gabriel River Reach 1 - TDS (based on application of secondary MCLs)

San Jose Creek Reach 1 - sulfate (based on application of secondary MCLs)

Santa Clara River Reach 5 - iron, specific conductivity (based on secondary MCLs); chlorodibromomethane, dichlorobromomethane (based on application of California Toxics Rule (CTR) human health criteria using water plus organisms)

Santa Clara River Reach 6 - iron, specific conductivity (based on secondary MCLs); chlorodibromomethane, dichlorobromomethane, bis(2-ethylhexyl)phthalate (based on application of CTR human health criteria using water plus organisms)

These new proposed listings are erroneously based on application of the conditional Municipal and Domestic Supply (P* MUN) beneficial use. A federal court, the State Board, and the USEPA have all determined that the P*MUN beneficial use is not a properly designated use available for any regulatory purpose, including assessment of water bodies for inclusion on the Regional Board's proposed 2008 303(d) List. The application of the conditional P* MUN beneficial use resulted in the incorrect application of maximum contaminant levels (MCLs) and CTR human health criteria using "water plus organisms" standards.

As background, in 1994, the Regional Board chose to designate a Municipal and Domestic Supply (MUN) beneficial use to all water bodies identified in the Basin Plan as a response to the State Board's issuance of Resolution No. 88-63 (the "Sources of Drinking Water Policy") and the Regional Board's companion resolution, Resolution No. 89-03. However, the Regional Board also recognized that additional technical work was needed before such designations could validly occur, and included the following language in the Basin Plan, at pages 2-3 and 2-4:

> "These policies [Res. 88-63 and 89-03] allow for Regional Boards to consider the allowance of certain exceptions according to criteria set forth in SB Resolution 88-63. While supporting the protection of all waters that may be used as a municipal water supply in the future, the Regional Board realizes that there may be exceptions to this policy.
>
> In recognition of this fact, the Regional Board will soon implement a detailed review of criteria in the State Sources of Drinking Water policy and identify those waters in the Region that should be excepted from the MUN designation. Such exceptions will be proposed under a special Basin Plan Amendment and will apply exclusively to those waters designated as MUN under SB Res. No. 88-63 and RB Res. No. 89-03.
>
> In the interim, no new effluent limitations will be placed in Waste Discharge Requirements as a results [sic] of these designations until the Regional Board adopts this amendment."

In accordance with this Basin Plan implementation provision, Table 2-1 of the Basin Plan (which sets forth the beneficial uses of inland surface waters) contains a distinct designation, in form of the P* MUN use, for the MUN use that was purportedly conditionally designated pursuant to Res. Nos. 88-63

and 89-03. At the bottom of each page of Table 2-1, a footnote exists to explain the asterisk, as follows: "* Asterixed MUN designations are designated under SB 88-63 and RB 89-03. Some designations may be considered for exemptions at a later date. (See pages 2-3,4 for more details)."

Following a judicial challenge to the USEPA's partial approval/partial disapproval of these Basin Plan provisions, in December 2001 the U.S. District Court for the Central District of California found that the beneficial use designation of P* MUN was only a "conditional" designation, and that implementation of the beneficial use could not occur until or unless the Regional Board undertook the study referenced in the Basin Plan provision and revised the Basin Plan accordingly. *See* Order Granting Plaintiffs' Motion for Summary Judgment and Remanding Action to EPA in *Cities of Los Angeles, Burbank, and Simi Valley, and County Sanitation Districts of Los Angeles County v. U.S. EPA, et al.*, U.S. District Court, Central District, Case No. 00-08919 R(RZx) (December 18, 2001) (included as Attachment 2). The District Court directed USEPA to approve the Basin Plan provisions in accordance with the decision, and on February 15, 2002, the USEPA approved the provisions as follows:

> "I. Municipal and Domestic Supply Designation ("MUN")
>
> In today's action, EPA approves in whole the 1994 Basin Plan. EPA bases its approval on the court's finding that the Regional Board's identification of waters with an asterisk (*) in conjunction with the implementation language at page 2-4 of the 1994 Basin Plan, was intended "to only conditionally designate and not finally designate as MUN those water bodies identified by an (*) for the MUN use in Table 2-1 of the Basin Plan without further action." Court Order at p. 4. **Thus, the waters identified with an (*) in Table 2-1 do not have MUN as a designated use until such time as the State undertakes additional study and modifies its Basin Plan. Because this conditional use designation has no legal effect,** it does not constitute a new water quality standard subject to EPA review under section 303(c)(3) of the Clean Water Act ..." [emphasis added]
>
> See February 15, 2002 letter from Alexis Strauss, Director, Water Division, USEPA to Celeste Cantu, Executive Director, State Water Board (included as Attachment 3).

During the previous 303(d) List update in 2006, the Regional Board included water body segments on that proposed 303(d) List based on the P* MUN beneficial use. After receiving comments objecting to this action, similar to the Sanitation Districts comments herein, the State Board removed all of the proposed 303(d) listings based on the P* MUN beneficial use, stating that the P* MUN beneficial use should not be used for listing purposes, and is not a designated beneficial use for the identified water bodies.[1] No change to the status of the P* MUN beneficial use has occurred since the above described actions; therefore, the Sanitation Districts recommend that the Regional Board act in accordance with the State Board's previous determination on this issue.

In summary, the P* MUN beneficial use as currently set forth in the Basin Plan does not yet designate the water bodies at issue with any MUN-related beneficial use. Thus, no 303(d) listing decisions can be based on the P* MUN beneficial use and resulting application of MCLs and CTR human health criteria using "water plus organisms" standards. The Sanitation Districts therefore request that these water body/pollutant listings noted above be removed from the Regional Board's proposed 2008 303(d) List.

[1] Staff Report, Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments, Response to Comments, State Board, September 2006, at pages 69, 82, 91-92 (pertaining to listings for Coyote Creek, San Gabriel River Reach 2, Santa Clara River Reaches 5 & 6), 94, 101, 105, and 106.

3. Listing Analyses Should be Consistent with State Board Direction

In addition to addressing application of the P*MUN use when it evaluated the 2006 303(d) List, the State Board provided direction on several additional issues, to ensure statewide consistency in assessment of water body impairments.[2] These issues include the use of dissolved and total fraction metals data, the use of wet and dry weather data, and the use of concurrent or average hardness values for hardness-dependent metals. The Regional Board failed to adhere to this direction when making several listing decisions. The Sanitation Districts believe that consistent application of the guidance provided by the State Board will result in a cohesive, well-documented, and scientifically valid 303(d) List, and urge the Regional Board to follow this guidance.

4. Additional Data Should be Included Where Appropriate

In several instances the Sanitation Districts' analyses of listing decisions reached different conclusions than the Regional Board analyses because the Sanitation Districts were able to identify additional data that, when considered together with the data considered by the Regional Board, demonstrate attainment. In all instances, the Sanitation Districts believe that these data meet the definition of "existing and readily available data," and therefore must be considered by the Regional Board.[3] In most cases, these data were collected as part of NPDES permit monitoring requirements and were submitted to the Regional Board in discharge monitoring reports. The data were, therefore, in the possession of the Regional Board. In some cases, the data were collected after the initial data solicitation for the 2008 303 (d) List, and a large enough dataset is now available to meet the minimum number of samples required for listing/delisting. In all of these instances, re-examination of the proposed decisions with respect to listing is warranted to ensure that sound listings decisions are made in accordance with the Listing Policy.

5. Specific Comments on Listing Decisions

In addition to these general comments, the Sanitation Districts have specific comments on the listing decisions for a number of water body/pollutant combinations. Detailed specific comments are provided in the appendices to this letter, and Attachment 1 includes a tabular summary of the specific comments. Based on review of the data and fact sheets released for public comment, the Sanitation Districts have identified a number of water body/pollutant combinations proposed for inclusion on the 2008 303(d) List that are attaining water quality standards and therefore qualify for delisting (or, alternatively, when they are not already on the 303(d) List do not qualify for listing). The Sanitation Districts believe it is very important for the Regional Board to follow-up on this information and make changes to the proposed 2008 303(d) List where appropriate, since the implications of erroneous listings are substantial.

6. Support Proposed Delistings for Certain Water body/Pollutant Combinations

The Sanitation Districts have reviewed the Regional Board's 303(d) listing analyses for the water body/pollutant combinations listed below. The Sanitation Districts believe the analyses are technically sound, and support the Regional Board's decisions to remove these water body/pollutant combinations from the 303(d) list:

- Ballona Creek - silver

[2] Staff Report, Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments, Response to Comments, State Board, September 2006.

[3] Listing Policy, Section 6.1.1, p. 17, stating, "at a minimum, readily available data and information includes... receiving water monitoring data from discharger monitoring reports."

- Coyote Creek – zinc
- Los Angeles River Estuary - lead (sediment) and zinc (sediment)
- Rio Hondo Reach 2 - ammonia
- San Jose Creek - selenium
- Wilmington Drain - ammonia
- Walnut Creek Wash - toxicity

In conclusion, the Sanitation Districts would like to thank the Regional Board for its efforts in revising the proposed 2008 303(d) List. We urge the Regional Board to take the final step in revising this list and to consider the information and analysis we are submitting to complete the development of a scientifically and legally defensible list with a sound and consistent basis. If you have any questions regarding our comments or the information and data we are providing to you, please contact Ken Hoffman at (562) 908-4288, extension 2445, khoffman@lacsd.org

Very truly yours,
Stephen R. Maguin

Phillip L. Friess
Departmental Engineer
Technical Services Department

PLF:KMH:lmb
Attachments

cc: LB Nye, Regional Board, Los Angeles Region

ATTACHMENT 1

Table 1: Summary of Comments on Specific 303(d) Listings

Fact Sheet	Water Body	Constituent	Regional Board Proposed Decision	Sanitation Districts Recommendation	Reason
A	San Gabriel River Estuary	Copper	Do Not Delist	Delist	Water quality objective being achieved
B	Coyote Creek	Ammonia	Do Not Delist	Delist	Water quality objective being achieved
C	Santa Clara River Reach 6	Copper	List	Do not list	Water quality objective being achieved
D	San Gabriel River Reach 2	Cyanide	List	Do not list	Water quality objective being achieved
E	Santa Clara River Reach 6	Chlorpyrifos	Do Not Delist	Delist	Water quality objective being achieved
F	San Gabriel River Estuary	Nickel	List	Do not list	Insufficient Basis to List
G	Santa Clara River Reach 6	Diazinon	Do Not Delist	Delist	Water quality objective being achieved
H	San Gabriel River Reach 1	Total Dissolved Solids	List	Do not list	Beneficial Use is wrong for water Body; MCLs do not apply
	Coyote Creek	Total Dissolved Solids & Sulfate			
	Santa Clara River Reaches 5 and 6	Iron & Conductivity			
I	Coyote Creek	Diazinon	List	Do not list	Water quality objective being achieved
J	Coyote Creek	Copper	Do Not Delist	Delist	Water quality objective being achieved
K	Coyote Creek	Lead	Do Not Delist	Delist	Water quality objective being achieved
L	San Gabriel River Reach 2	Lead	List	Delist	Water quality objective being achieved
M	Santa Clara River Reaches 5 and 6	Chlorodibromomethane	List	Do not list	Beneficial Use is wrong for water Body; MCLs do not apply
N	Santa Clara River Reaches 5 and 6	Dichlorobromomethane	List	Do not list	Beneficial Use is wrong for water Body; MCLs do not apply
O	San Jose Creek Reach 1	Ammonia	Do Not Delist	Delist	Water quality objective being achieved
P	Santa Clara River Reach 5	Ammonia	Do Not Delist	Delist	Water quality objective being achieved
Q	Santa Clara River Reach 5	Nitrate and Nitrite	Do Not Delist	Delist	Water quality objective being achieved
R	Santa Clara River Reach 6	Ammonia	Do Not Delist	Delist	Water quality objective being achieved
S	Santa Clara River Reach 5	Polychlorinated biphenyls (PCBs)	List	Do not list	Insufficient Basis to List
T	Santa Clara River Reach 5	DDT	List	Do not list	Insufficient Basis to List
U	Santa Clara River Reach 6	Bis(2ethylhexyl)phthalate (DEHP)	List	Do not list	Water quality objective being achieved
V	Walnut Creek	Copper	List	Do not list	Water quality objective being achieved
W	Santa Clara River Estuary	Arsenic	List	Do not list	Water quality objective being achieved
X	Walnut Creek	Lead	List	Do not list	Water quality objective being achieved

ATTACHMENT 1

FACT SHEET A

Water Body:	**San Gabriel River Estuary**
Pollutant:	**Copper**
Listing:	**Listed on the 303(d) List (Being Addressed by EPA Approved TMDL)**
Comment & Recommendation:	**Delist – Water Quality Objective Being Achieved**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is currently proposing that this listing be moved to the list of constituents "being addressed by an EPA-approved TMDL." In 2006 the Environmental Protection Agency (EPA) added copper impairment to the 303(d) List for the San Gabriel River Estuary (SGRE) based on total copper monitoring data, and a TMDL for copper was completed by EPA in March 2007.

State Water Resource Control Board Guidance

In the September 2006 State Water Resources Control Board (State Board) evaluation of the 303(d) List, the State Board addressed the issue of using total metals data to assess impairments, stating:

> "The CTR [California Toxic Rule] mandates the criteria to be the dissolved fraction. Although a translator exists to convert dissolved criteria to total fraction effluent limit, no provision in the CTR allows calculating total metals fraction receiving water quality criterion. Staff has reevaluated listings where total metals data were applicable and would result in a change to the analysis. Use of total metals data were applied only to delisting evaluations and only in comparison with dissolved metals criteria. No translators were used to convert total metal fractions to dissolved metal fractions."[1]

Existing Listing Reevaluation

As stated by the State Board, only the dissolved fraction of metals should be used for comparison with the CTR criteria. Therefore, in accordance with State Board direction, the copper listing should be reevaluated using only dissolved copper data. After the 2006 listing cycle, the Sanitation Districts of Los Angeles County (Sanitation Districts) and Los Angeles Department of Water and Power (LADWP) began conducting dissolved copper analyses on SGRE samples. Table A1 of Appendix A contains the results of this dissolved copper monitoring. From the 120 total usable samples, ninety four-day chronic criteria averages were calculated, none of which exceeded the Criterion Continuous Concentration (CCC) for dissolved copper of 3.1 µg/L for marine waters. The Water Quality Control Policy for Developing California's Clean Water Act Section 303(d) List requires a minimum of twenty-eight samples with no more than two exceeding the water quality standard to remove a previously listed water segment from the 303(d) list. For a sample size from 95 to 106, Table 4.1 of the State's listing policy recommends delisting a previously listed pollutant/water body combination if the number exceedances are equal or less than eight. Since ninety four-day average dissolved copper results through February 2009 show no exceedances of the CCC, copper should be delisted from the SGRE.

[1] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 63 (Comments: 66.9, 73.17, 81.1, 83.5, 107.17, 107.6, 212.5, 228.5, 242.3), September 2006.

EPA Method 200.8 compared with EPA Method 1640

Additionally, dissolved copper data presented in Table A1 were generated using EPA Method 200.8 and EPA Method 1640. It is well documented that EPA Method 200.8 is susceptible to salt interferences, resulting in an over-estimation of the total copper concentration when used to analyze samples with elevated salinity. This is caused by sodium in the sample combining with argon used in the instrumentation to form a complex that has the same molecular weight as copper. Although this interference can be partially minimized with varying success by using collision cell techniques and sample dilution, the potential for a significant over-estimation of the actual copper concentrations remains. Additionally, increased sample dilution leads to unacceptability high detection limits. Sample dilution when using EPA Method 200.8 often results in reporting levels (RL) in excess of the 3.1 µg/L water quality objective.

In 1997, to address the shortcomings of EPA Method 200.8 the EPA developed and subsequently approved EPA Method 1640 for the quantification of trace metals. EPA Method 1640, in addition to requiring the use of "clean" sampling procedures, addresses the sodium/argon interference by incorporating a chelation preparation step that removes the metal from the matrix before ICPMS analysis. Using dissolved copper measurements obtained by EPA Method 1640 for 303(d) listing determination eliminates multiple confounding factors such as the ambiguity regarding the use of an appropriate dissolution translator and allows for direct evaluation of the impairment condition.

Results in Table A1 demonstrate the superiority of EPA Method 1640 as opposed to EPA Method 200.8. Analyses obtained from EPA Method 200.8 yielded only four usable samples while analysis using EPA Method 1640 yielded 116 usable samples. EPA Method 1640 clearly generates more accurate results and, for the purposes of assessing the validity of the 303(d) listing, should be the only method considered. Of the 86 samples analyzed using EPA Method 1640, no samples exceed the CCC of 3.1 µg/L for marine waters.

ATTACHMENT 1

FACT SHEET B

Water Body:	**Coyote Creek**
Pollutant:	**Ammonia**
Listing:	**Listed on the 303(d) List (Being Addressed by Actions Other than a TMDL)**
Comment & Recommendation:	**Delist – Water Quality Objectives Being Achieved**

Site-specific objectives (SSOs) for ammonia were developed for Coyote Creek and became effective and adopted into the Basin Plan on April 23, 2009. However, these objectives were approved by the California Regional Water Quality Control Board, Los Angeles Region (Regional Board) in 2007 and subsequently approved by the State Water Resources Control Board in January 2008. Considering that the Regional Board has been aware of these impending changes to the Basin Plan since 2007, the chronic ammonia water quality standards reflected in the SSO should have been used to evaluate ammonia listings for this 303(d) listing cycle.

Existing Listing Reevaluation

An examination of the Coyote Creek ammonia, pH, and temperature data provided to the Regional Board as part of their 303(d) listing review (March 2004 through February 2007) reveals that the four-day chronic SSO-adjusted Criterion Continuous Concentration (CCC) threshold for ammonia was only exceeded in Coyote Creek on 17 occasions out of a total 374 measurements, as presented in Appendix B Table B1. For a sample size of 363 to 374 the State's 303(d) listing policy, using the binomial distribution formula associated with Table 4.1, recommends delisting a previously listed pollutant/water body combination if the number of exceedances are equal to or fewer than 31. Since 374 four-day average ammonia results show 17 exceedances of the CCC, ammonia should be delisted from Coyote Creek.

FACT SHEET C

Water Body:	**Santa Clara River Reach 6**
Pollutant:	**Copper**
Listing:	**List on the 303(d) List (TMDL required list)**
Comment & Recommendation:	**Do not list – Water Quality Objectives Being Achieved**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is currently proposing that a new listing for copper be made to the 303(d) list in Santa Clara River Reach 6. The fact sheet for copper in Santa Clara River Reach 6 states six of 21 samples exceeded the "CTR [California Toxics Rule] water quality standard for copper (acute) that is 13.44 ppb. The standard is hardness dependent based on a hardness value of 100." The fact sheet also states the standard was compared against data collected at Los Angeles County MS4 Mass Emission Santa Clara River Monitoring Station (S29 - San Francisquito Creek) for data collected from October 31, 2003 to April 2, 2007. It is unclear if the Regional Board's assessment was made using total or dissolved copper data for this recommended listing, but it should be noted that the CTR copper values are expressed as a dissolved fraction.

State Water Resource Control Board Guidance

In the September 2006 State Water Resources Control Board (State Board) evaluation of the 303(d) List, the use of dissolved and total fraction metals data, the use of wet and dry weather data, and the use of concurrent or average hardness values were all discussed. The State Board directed that dissolved fraction metals data should be used for assessing listings when available, and total fraction data may be used only for listing reevaluation when dissolved fraction data is unavailable:

> "The CTR mandates the criteria to be the dissolved fraction. Although a translator exists to convert dissolved criteria to total fraction effluent limit, no provision in the CTR allows calculating total metals fraction receiving water quality criterion. Staff has reevaluated listings where total metals data were applicable and would result in a change to the analysis. Use of total metals data were applied only to delisting evaluations and only in comparison with dissolved metals criteria. No translators were used to convert total metal fractions to dissolved metal fractions."[2]

Also, the State Board stated in this report that both wet and dry weather data must be used to assess listings unless the Basin Plan includes specific wet and dry weather water quality standards:

> "Wet and dry weather data were not separated for the purposes of this assessment because the water quality standards are not wet or dry weather specific. Additionally, the Basin Plan does not include any provisions for assessing data from wet or dry weather separately for this pollutant."[3]

[2] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 63 (Comments: 66.9, 73.17, 81.1, 83.5, 107.17, 107.6, 212.5, 228.5, 242.3), September 2006.
[3] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 99 (Comments:107.19), September 2006.

Finally, the State Board provided the following guidance on the appropriate hardness to use for listing assessment:

> "Revisions were made to fact sheets in order to clarify how the hardness based criteria was calculated. In almost all cases, the criteria was calculated for each individual sample using the hardness value for that sample. However, there were a few instances where only the average hardness data was available and used. In cases where the average value was used, recommendations were to not list so using this average value did not result in any new listings." [4]

Proposed Listing Reevaluation

In accordance with the State Board's direction, when listings are assessed: all dry weather and wet weather data should be used; dissolved metals data should be used when available; total metals data may be used when dissolved metals data are not available only for reevaluation of listings; concurrent hardness values should be used when available; and average hardness should be used when concurrent hardness is not available.

Using the concurrently measured hardness to evaluate the hardness-dependent CTR copper objectives, the chronic water quality objectives ranged from 8.2 to 36.6 µg/L for dissolved copper. For the purposes of calculating the hardness dependent CTR copper objectives, concurrently measured hardness was also used when available and the average of all location hardness measurements collected were used when concurrent hardness was not measured. To reevaluate the proposed listing, total copper measurements collected and reported to the Regional Board by the Sanitation Districts of Los Angeles County (Sanitation Districts) in the Santa Clara River Reach 6 during approximately the same time period (2004 through April 2007) should be considered. Although dissolved copper was not measured in the Sanitation Districts data set, it is conservative to estimate that 100% of the measured total copper was in the dissolved form as described by the September 2006 State Board comments mentioned above. With these conservative assumptions, and combining the Sanitation Districts' data with the MS4 data, a total of three copper exceedances of the Criterion Continuous Concentration (CCC) were observed out of sample size of 69 and two copper exceedances of the Criterion Maximum Concentration (CMC) were observed out of sample size of 71. For a sample size from 60 to 71, Table 3.1 of the State's listing policy recommends a pollutant/water body combination be listed if the number exceedances are equal or greater than six. Therefore, the proposed copper listing in Santa Clara River Reach 6 should be rejected. A complete summary of the copper and hardness data along with the CTR hardness dependant objective calculations can be found in Appendix C - Table C1.

[4] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 171 (Comments:81.3), September 2006.

ATTACHMENT 1

FACT SHEET D

Water Body:	**San Gabriel River Reach 2**
Pollutant:	**Cyanide**
Listing:	**List on the 303(d) List (TMDL Required List)**
Comment & Recommendation:	**Do not list – Water Quality Objectives Being Achieved**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is currently proposing a new listing for cyanide on the 303(d) list in San Gabriel River Reach 2. The fact sheet prepared by the Regional Board for cyanide in San Gabriel River Reach 2 states "Eight of 20 samples exceeded the California Toxics Rule (CTR) Criterion Continuous Concentration (CCC) for Cyanide and one of 20 samples exceeded the Criterion Maximum Concentration (CMC)." The data included with the fact sheet was collected from October 2003 to April 2007 at Los Angeles County Department of Public Works (LACDPW) MS4 mass emission monitoring station S14, which located downstream of San Gabriel River Parkway.

State Water Resource Control Board Guidance

In September 2006, the State Water Resources Control Board (State Board) was clear in response to comments during the 303(d) listing cycle that both wet and dry weather data must be used for assessment unless the Basin Plan includes provision for separating wet and dry weather data:

> "Wet and dry weather data were not separated for the purposes of this assessment because the water quality standards are not wet or dry weather specific. Additionally, the Basin Plan does not include any provisions for assessing data from wet or dry weather separately for this pollutant."[5]

Proposed Listing Reevaluation

As confirmed by the State Board, wet and dry weather data are necessary to examine possible listing on the 303(d) list. The Regional Board, however, neglected to include other available data in San Gabriel River Reach 2 for the cyanide listing assessment. Although it is unclear whether the omission of data by the Regional Board was accidental, the dry weather data must be included in accordance with the State Board's guidance. Thus, an additional 108 San Gabriel River Reach 2 cyanide samples collected during the same time period by the Sanitation Districts of Los Angeles County (Sanitation Districts) should be included in the evaluation. From this data set, only one of the additional 106 four-day averages exceeds the 5.2 µg/L CCC water quality standard for cyanide (see Appendix D - Table D1). Combining the two data sets results in nine exceedances of the CCC for cyanide out of 124 four-day averages. For a sample size from 118 to 129, Table 3.1 of the State's listing policy recommends a pollutant/water body combination be listed if the number exceedances are equal or greater than eleven. Therefore, cyanide for Reach 2 of the San Gabriel River should not be included on the 2008 303(d) List.

[5] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 99 (Comments:107.19), September 2006.

ATTACHMENT 1

FACT SHEET E

Water Body:	**Santa Clara River Reach 6**
Pollutant:	**Chlorpyrifos**
Listing:	**Listed on the 303(d) List (TMDL Required List)**
Comment & Recommendation:	**Delist – Water Quality Objectives Being Achieved or List – "Being Addressed by Actions Other Than TMDL"**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) included chlorpyrifos for Reach 6 of the Santa Clara River during the 2006 listing cycle. Their evaluation of available data indicated an impairment of the California Department of Fish Game four-day Criterion Continuous Concentration (CCC) threshold of 0.05 µg/L using data collected as part of the Surface Water Ambient Monitoring Program (SWAMP) study conducted in Bouquet Canyon Creek (SCTBQT) from 2001 through 2003.

Existing Listing Reevaluation

A contemporary analysis of available data from October 2001 to April 2008 yields two valid sample results collected by the SWAMP and 33 valid sample results collected by the Los Angeles County Department of Public Works (LADPW) at the Los Angeles County MS4 Mass Emission Santa Clara River Monitoring Station (S29 - San Francisquito Creek). This dataset along with the associated CCC objective can be found in Appendix E - Table E1. Evaluation of these samples for comparison to the CCC results in two observed exceedances of the four-day average with a sample size of 32. For a sample size from 28 to 36, Table 4.1 of the State's listing policy recommends delisting a previously listed pollutant/water body combination if the number exceedances are equal or less than two.

Recategorization of Listing

Finally, it should be noted that EPA has been phasing out all non-agricultural uses of chlorpyrifos with the cessation of sales of all indoor and outdoor residential use products by December 31, 2004. Consideration of data since January 1, 2005 yields 18 four-day average chlorpyrifos results with no exceedences of the 0.05 µg/L threshold. This listing should be moved to the "Water Quality Limited Segments Being Addressed by Actions Other Than a TMDL" list since this residential use phase-out of chlorpyrifos is a regulatory action (other than a TMDL) and appears to be resulting in attainment of standards.

ATTACHMENT 1

FACT SHEET F

Water Body:	**San Gabriel River Estuary**
Pollutant:	**Nickel**
Listing:	**List on the 303(d) List (TMDL required list)**
Comment & Recommendation:	**Do Not List – Insufficient Basis to List**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is currently proposing to add nickel to the 2008 303(d) List for the San Gabriel River Estuary. The fact sheet for nickel in San Gabriel River Estuary states "13 of 47 samples exceed the California Toxics Rule Criterion Continuous Concentration (CCC)" and the "California Toxics Rule (CTR) lists a Criterion Continuous Concentration of 8.2 µg/L and a Criterion Maximum Concentration (CMC) of 74 µg/L for nickel to protect aquatic life in saltwater for the total fraction."

California Toxic Rule and State Water Resources Control Board Guidance

Footnote m of the CTR, which is applicable to nickel, states that the CCC and CMC are expressed as the dissolved fraction of the metal, not the total concentration. The CTR states:

> "These freshwater and saltwater criteria for metals are expressed in terms of the dissolved fraction of the metal in the water column." [6]

The use of dissolved metal criteria and data to assess 303(d) listing was clearly stated by the State Water Resources Control Board (State Board) in response to comments for the 2006 303(d) listing cycle. The State Board stated:

> "The CTR [California Toxic Rule] mandates the criteria to be the dissolved fraction. Although a translator exists to convert dissolved criteria to total fraction effluent limit, no provision in the CTR allows calculating total metals fraction receiving water quality criterion. Staff has reevaluated listings where total metals data were applicable and would result in a change to the analysis. Use of total metals data were applied only to delisting evaluations and only in comparison with dissolved metals criteria. No translators were used to convert total metal fractions to dissolved metal fractions."[7]

Proposed Listing Reevaluation

The analysis conducted to justify the nickel listing was incorrect. The analysis using the CTR was conducted by comparing the CCC and CMC against the total fraction of nickel. The correct approach is to assess whether there is an impairment by comparing dissolved nickel data to the CMC and CCC. The fact sheet states that data collected by the Sanitation Districts of Los Angeles County and Los Angeles Department of Water and Power were used for the listing. Both of these data sets contain only total nickel results for the San Gabriel River Estuary, so this data should not have been used to assess whether there is impairment. Since no data is available for the purposes of evaluating an impairment, nickel should not be added to the 2008 303(d) List for the San Gabriel River Estuary.

[6] Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California; Rule, 40 CFR Part 131, page 31716, footnote m, May 18, 2000.
[7] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 63 (Comments: 66.9, 73.17, 81.1, 83.5, 107.17, 107.6, 212.5, 228.5, 242.3), September 2006.

ATTACHMENT 1

FACT SHEET G

Water Body:	**Santa Clara River Reach 6**
Pollutant:	**Diazinon**
Listing:	**Listed on the 303(d) List (TMDL Required List)**
Comment & Recommendation:	**Delist – Water Quality Objectives Being Achieved or List - "Being Addressed by Actions Other Than TMDL"**

The California Regional Water Quality Control Board, Los Angeles (Regional Board) included diazinon for Reach 6 of the Santa Clara River during the 2006 listing cycle because their evaluation of available data indicated that the California Department of Fish and Game (CADFG) four-day Criterion Continuous Concentration (CCC) threshold of 0.10 µg/L diazinon[8] was exceeded in samples collected from Bouquet Canyon Creek. All of the utilized monitoring data was collected as part of a Surface Water Ambient Monitoring Program (SWAMP). A contemporary analysis of available data finds 2 valid samples available from the SWAMP program, 33 samples collected by the Los Angeles County Department of Public Works, and 25 samples collected by the Sanitation Districts of Los Angeles County (Sanitation Districts). This dataset is attached as Appendix G – Table G1.

State Water Resource Control Board Guidance

Section 6.1.5.3 of the Water Quality Control Policy for Developing California's Clean Water Act Section 303(d) List states:

> "If the implementation of a management practice(s) has resulted in a change in the water body segment, only recently collected data [since the implementation of the management measure(s)] should be considered."

Existing Listing Reevaluation

By December 31, 2004, Environmental Protection Agency (EPA) bans on sales of all indoor and outdoor non-agricultural products containing diazinon took effect. EPA's action should be considered implementation of a significant management practice in Reach 6 of the Santa Clara River. Accordingly, only data collected since January 1, 2005 should only be used for listing reevaluation. If data generated after the residential use ban (January 1, 2005) to April 2007 is considered, only two four-day average diazinon results exceeded the CCC with a sample size of 29. For a sample size of 28-36, Table 4.1 of the State's listing policy recommends delisting a previously listed pollutant/water body combination if the number of exceedances are equal or less than two. In addition, the most recently available data shows no exceedances were found in nine samples collected between April 2007 and July 2008. Therefore, diazinon in Reach 6 of the Santa Clara River should be removed from the 303(d) list.

Recategorization of Listing

In addition, prior to delisting this listing should be moved to the "Water Quality Limited Segments Being Addressed by Actions Other Than a TMDL" category since the EPA residential use phase-out of diazinon is a regulatory action (other than a TMDL) and has been successful in attaining compliance with standards.

[8] At the time of original listing, the CADFG CCC for diazinon was 0.08 and was has since been modified to 0.10 µg/L diazinon.

Fact Sheet H

Water Body/Pollutant: **San Gabriel River Reach 1 - Total Dissolved Solids**
Coyote Creek - Total Dissolved Solids and Sulfate
Santa Clara River Reach 5 and 6 - Iron and Specific Conductivity

Listing: **List on the 303(d) List (TMDL required list)**

Comment & Recommendation: **Do Not List – Beneficial Use is Wrong for Water Body; MCLs Do Not Apply**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is currently proposing new 303(d) listing for the following water body/pollutant combinations: San Gabriel River Reach 1 for total dissolved solids; Coyote Creek total dissolved for solids and sulfate; and Santa Clara River Reaches 5 and 6 each for iron and specific conductivity. These listings are based on the application of the California Department of Health Services secondary drinking water standards based on the conditional potential municipal and domestic supply (P* MUN) beneficial use of these reaches.

*P*MUN Beneficial Use and State Water Resources Control Board Guidance*

These new listings are improperly based on the conditional potential municipal and domestic supply (P* MUN) beneficial use. A federal court,[9] the State Water Resources Control Board (State Board), and the United States Environmental Protection Agency (USEPA) have all determined that the P* MUN beneficial use designation has no legal effect at this time. Water quality objectives derived from the P* MUN beneficial use should not be used to assess 303(d) listings.

Proposed Listing Reevaluations

No Basin Plan objectives or California Toxics Rule (CTR) standards apply to any of these water body/pollutant combinations. Since no objectives or standards are available for the purposes of evaluating potential impairments of these water body/pollutant combinations, they should not be added to the 2008 303(d) List.

[9] *Cities of Los Angeles, Burbank, and Simi Valley, and County Sanitation Districts of Los Angeles County v. U.S. EPA, et al.*, U.S. District Court, Central District, Case No. 00-08919 R(RZx) (December 18, 2001)

ATTACHMENT 1

FACT SHEET I

Water Body:	**Coyote Creek**
Pollutant:	**Diazinon**
Listing:	**Listed on the 303(d) List (TMDL Required List)**
Comment & Recommendation:	**Delist – Water Quality Objectives Being Achieved**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) included diazinon for Coyote Creek during the 2006 listing cycle because their evaluation of available data indicated that the California Department of Fish and Game (CADFG) four-day Criterion Continuous Concentration (CCC) threshold of 0.10 µg/L diazinon[10] was exceeded in samples collected by the Los Angeles County Department of Public Works (LACDPW) and the Sanitation Districts of Los Angeles County (Sanitation Districts). A contemporary analysis of available data indicates that 31 diazinon samples are now available from the LACDPW and 42 diazinon samples are now available from the Sanitation Districts to reassess the listing. This dataset is attached as Appendix I – Table I1.

State Water Resource Control Board Guidance

Section 6.1.5.3 of the Water Quality Control Policy for Developing California's Clean Water Act Section 303(d) List states:

> "If the implementation of a management practice(s) has resulted in a change in the water body segment, only recently collected data [since the implementation of the management measure(s)] should be considered."

Existing Listing Reevaluation

By December 31, 2004, Environmental Protection Agency (EPA) bans on sales of all indoor and outdoor non-agricultural products containing diazinon took effect. EPA's action should be considered implementation of a significant management practice in Coyote Creek, since the primary sources of water to Coyote Creek are non-agricultural and the ban has essentially eliminated urban sources of diazinon. Accordingly, only data collected since January 1, 2005 should be used for listing reevaluation. If data generated after the residential use ban (January 1, 2005) to April 2008 is considered, only three four-day average diazinon results exceeded the CCC with a sample size of 51. For a sample size from 48 to 59, Table 4.1 of the State's listing policy recommends delisting a previously listed pollutant/water body combination if the number exceedances are equal or less than four. Therefore, diazinon in Coyote Creek should be removed from the 303(d) list.

Recategorization of Listing

While the data indicate that this pollutant/water body combination should be delisted, at minimum it should be moved to the "Water Quality Limited Segments Being Addressed by Actions Other Than a TMDL" category. The EPA residential use phase-out of diazinon is a regulatory action (other than a TMDL) that has been successful in significantly reducing diazinon concentrations in Coyote Creek.

[10] At the time of original listing, the CADFG CCC for diazinon was 0.08 and was has since been modified to 0.10 µg/L diazinon.

ATTACHMENT 1

FACT SHEET J

Water Body:	**Coyote Creek**
Pollutant:	**Copper**
Listing:	**List on the 303(d) List (Being Addressed by an EPA-Approved TMDL)**
Comment & Recommendation:	**Delist – Water Quality Objectives Being Achieved**

Coyote Creek is currently listed for copper under the category of being addressed by an EPA-approved TMDL. The original listing determination was made prior to 2006, using total copper data in the reach collected by the Los Angeles County Department of Public Works (LACDPW) and the Sanitation Districts of Los Angeles County (Sanitation Districts). EPA completed a TMDL for copper in March 2007.

State Water Resource Control Board

In the September 2006 State Water Resources Control Board (State Board) evaluation of the 303(d) List, the State Board addressed the issue of using total metals data to assess impairments, stating:

> "The CTR [California Toxic Rule] mandates the criteria to be the dissolved fraction. Although a translator exists to convert dissolved criteria to total fraction effluent limit, no provision in the CTR allows calculating total metals fraction receiving water quality criterion. Staff has reevaluated listings where total metals data were applicable and would result in a change to the analysis. Use of total metals data were applied only to delisting evaluations and only in comparison with dissolved metals criteria. No translators were used to convert total metal fractions to dissolved metal fractions."[11]

Also, the State Board stated in this report that both wet and dry weather data must be used to assess listings unless the Basin Plan includes specific wet and dry weather water quality standards:

> "Wet and dry weather data were not separated for the purposes of this assessment because the water quality standards are not wet or dry weather specific. Additionally, the Basin Plan does not include any provisions for assessing data from wet or dry weather separately for this pollutant." [12]

Finally, the State Board provided the following guidance on the appropriate hardness to use for listing assessment:

> "Revisions were made to fact sheets in order to clarify how the hardness based criteria was calculated. In almost all cases, the criteria was calculated for each individual sample using the hardness value for that sample. However, there were a few instances where only the average hardness data was available and used. In cases where the average value was used, recommendations were to not list so using this average value did not result in any new listings." [13]

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[11] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 63 (Comments: 66.9, 73.17, 81.1, 83.5, 107.17, 107.6, 212.5, 228.5, 242.3), September 2006.
[12] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 99 (Comments:107.19), September 2006.
[13] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 171 (Comments:81.3), September 2006.

Existing Listing Reevaluation

In accordance with the State Board's direction, when listings are assessed: all dry weather and wet weather data should be used; dissolved metals data should be used when available; total metals data may be used when dissolved metals data are not available only for reevaluation of listings; concurrent hardness values should be used when available; and average hardness should be used when concurrent hardness is not available.

Using the concurrently measured hardness to evaluate the hardness-dependent CTR copper objectives, the chronic water quality objectives ranged from 4.3 to 42.8 µg/L for dissolved copper. For the purposes of calculating the hardness-dependent CTR copper objectives, concurrently measured hardness was used when available and the average of all hardness measurements collected at a location were used when concurrent hardness was not measured. To reevaluate the existing listing, total copper measurements collected and reported to the California Regional Water Quality Control Board, Los Angeles Region (Regional Board) by the Sanitation Districts in Coyote Creek during approximately the same time period (2004 through April 2007) should be considered in addition to the LACDPW dissolved copper data. A complete summary of the copper and hardness data along with the CTR hardness-dependent objective calculations can be found in Appendix J - Table J1. Although dissolved copper was not measured in the Sanitation Districts data set, it is conservative to estimate that 100% of the measured total copper was in the dissolved form as described by the September 2006 State Board comments mentioned above. With these conservative assumptions, and combining the Sanitation Districts data with the MS4 data, there were no copper exceedances of the Criterion Maximum Concentration (CMC) observed out of sample size of 121 and one exceedance of the Criterion Continuous Concentration (CCC) was observed out of sample size of 111. For a sample size of 107 to 117, Table 4.1 of the State 303(d) listing policy recommends delisting a pollutant/water body combination if the number of exceedances are equal or less than nine. Therefore, copper in Coyote Creek should be delisted.

Fact Sheet K

Water Body:	**Coyote Creek**
Pollutant:	**Lead**
Listing:	**List on the 303(d) List (Being addressed by an EPA-approved TMDL)**
Comment & Recommendation:	**Delist – Water Quality Objectives Being Achieved**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is currently proposing not to delist lead in Coyote Creek. The fact sheet for lead in Coyote Creek states, "based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against removing this water segment-pollutant combination from the section 303(d) list" and further indicates that seven of 45 samples exceeded the hardness-dependent California Toxics Rule (CTR) Criterion Continuous Concentration (CCC) for lead and zero of 75 samples exceeded the CCC for the total fraction. The fact sheet also states that the standard was compared against data collected at Los Angeles County MS4 Coyote Creek Monitoring Station (S13) for data collected from 1995 through April 2007. The Regional Board's assessment correctly utilized dissolved metal results and calculated the CCC using concurrently collected hardness. However, an error was detected in the Regional Board's CCC calculations provided in the fact sheet. Specifically, the four-day average dissolved lead was not evaluated against the four-day average CCC when two or more measurements were collected in a four-day period.

State Water Resource Control Board Guidance

In the September 2006 State Water Resources Control Board (State Board) evaluation of the 303(d) List, the use of dissolved and total fraction metals data, the use of wet and dry weather data, and the use of concurrent or average hardness values were all discussed. Dissolved fraction metals data should be used for assessing listings when available, and total fraction data may be used only for listing reevaluation when dissolved fraction data is unavailable:

> "The CTR [California Toxic Rule] mandates the criteria to be the dissolved fraction. Although a translator exists to convert dissolved criteria to total fraction effluent limit, no provision in the CTR allows calculating total metals fraction receiving water quality criterion. Staff has reevaluated listings where total metals data were applicable and would result in a change to the analysis. Use of total metals data were applied only to delisting evaluations and only in comparison with dissolved metals criteria. No translators were used to convert total metal fractions to dissolved metal fractions."[14]

Also, the State Board stated in this report that both wet and dry weather data must be used to assess listings unless the Basin Plan includes specific wet and dry weather water quality standards:

> "Wet and dry weather data were not separated for the purposes of this assessment because the water quality standards are not wet or dry weather specific. Additionally, the Basin Plan does not include any provisions for assessing data from wet or dry weather separately for this pollutant." [15]

[14] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 63 (Comments: 66.9, 73.17, 81.1, 83.5, 107.17, 107.6, 212.5, 228.5, 242.3), September 2006.
[15] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 99 (Comments:107.19), September 2006.

Fact Sheet Formula Error

An error was found in Excel data file accompanying the 2008 listing fact sheet for Coyote Creek lead analysis. The formula in the Chronic Criteria data field is:

"=(EXP((1.23*LN(J2)-4.705))*(1.46203-LN(J2)*0.145712))"

The CTR defines the CCC objective equation as:

"CCC = WER x (Acute Conversion Factor) x exp{$m_c$ln(hardness)]+b_c})
where for lead: m_c=1.273, b_c = -4.705, WER = 1, and the Acute Conversion Factor (CF) is:
"CF = 1.46203 – [(ln {hardness})(0.145712)]

It appears the m_c value as 1.23 used in the Regional Board analysis is incorrect and should have been entered as 1.273.

The Weight of Evidence Section of the Fact Sheet states:

> "Seven of 45 samples exceeded the lead CTR Criterion Continuous Concentration for the dissolved fraction, zero out of 75 samples exceeded the lead CTR Criterion Continuous Concentration for the total fraction, and this exceeds the allowable frequency listed in Table 4.1 of the Listing Policy for the dissolved fraction."

Proposed Listing Reevaluation

In accordance with the State Board's direction, when listings are assessed: all dry weather and wet weather data should be used; dissolved metals data should be used when available; total metals data may be used when dissolved metals data are not available for reevaluation of listings; concurrent hardness values should be used when available; and average hardness should be used when concurrent hardness is not available.

The Regional Board's interpretation of the number of exceedances and number of samples in the weight of evidence section is clearly incorrect as the CTR does not have a total fraction CCC and dissolved fraction CCC. The CTR only includes a dissolved fraction CCC. The dissolved and total lead data sets should be combined for the purposes of assessing the lead listing when this is done, the data indicate seven exceedances of the dissolved fraction CCC out of 120 samples. For a sample size from 118 to 129, Table 4.1 of the State's listing policy recommends delisting a pollutant/water body combination if the number exceedances are equal or less than ten. Therefore, lead in Coyote Creek should be delisted.

Further, using the concurrently measured hardness to evaluate the hardness-dependent CTR lead objectives, the chronic water quality objectives ranged from 0.9 to 20.6 µg/L for dissolved lead. For the purposes of calculating the hardness-dependent CTR lead objectives, concurrently measured hardness was used when available and the average of all location hardness measurements collected were used when concurrent hardness was not available. To reevaluate the existing listing, total lead measurements collected and reported to the Regional Board by the Sanitation Districts of Los Angeles County (Sanitation Districts) in the Coyote Creek during approximately the same time period (1995 through April 2007) should be considered. A complete summary of the lead and hardness data, along with the CTR hardness-dependent objective calculations, can be found in Appendix K - Table K1. Although dissolved lead was not measured in the Sanitation Districts data set, it is conservative to estimate that 100% of the measured total lead was in the dissolved form as described by the September 2006 State Board comments mentioned above. With these conservative assumptions, and combining the Sanitation Districts data with

the MS4 data, no exceedances of the Criterion Maximum Concentration (CMC) for lead were observed and nine exceedances of the CCC for lead were observed out of sample size of 195. For a sample size from 188 to 199 the State's listing policy, using the binomial distribution formula associated with Table 4.1, recommends delisting a pollutant/water body combination if the number of exceedances are equal to or less than sixteen. Therefore, lead in Coyote Creek should be delisted.

ATTACHMENT 1

Fact Sheet L

Water Body:	**San Gabriel River Reach 2**
Pollutant:	**Lead**
Listing:	**List on the 303(d) List (Being addressed by an EPA-approved TMDL)**
Comment & Recommendation:	**Delist – Water Quality Objectives Being Achieved**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is currently proposing not to delist lead in San Gabriel River Reach 2. The fact sheet for lead in San Gabriel River Reach 2 states "based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against removing this water segment-pollutant combination from the section 303(d) list" and further indicates that eight of 56 samples exceeded the hardness dependent California Toxics Rule (CTR) Criterion Continuous Concentration (CCC) for lead with no Criterion Maximum Concentration (CMC) exceedances. The fact sheet also states the standard was compared against data collected at Los Angeles County MS4 San Gabriel River Monitoring Station (S14) for data collected from 1995 through April 2007. The Regional Board's assessment correctly utilized dissolved metal results and calculated the CCC using concurrently collected hardness. However, an error was detected in the Regional Board's CCC calculations provided in the fact sheet. Specifically, the four-day average dissolved lead was not evaluated against the four-day average CCC when two or more measurements were collected in a four-day period.

State Water Resource Control Board Guidance

In the September 2006 State Water Resources Control Board (State Board) evaluation of the 303(d) List, the use of dissolved and total fraction metals data, the use of wet and dry weather data, and the use of concurrent or average hardness values were all discussed. Dissolved fraction metals data should be used for assessing listings when available, and total fraction data may be used only for listing reevaluation when dissolved fraction data is unavailable:

> "The CTR [California Toxic Rule] mandates the criteria to be the dissolved fraction. Although a translator exists to convert dissolved criteria to total fraction effluent limit, no provision in the CTR allows calculating total metals fraction receiving water quality criterion. Staff has reevaluated listings where total metals data were applicable and would result in a change to the analysis. Use of total metals data were applied only to delisting evaluations and only in comparison with dissolved metals criteria. No translators were used to convert total metal fractions to dissolved metal fractions."[16]

Also, the State Board stated in this report that both wet and dry weather data must be used to assess listings unless the Basin Plan includes specific wet and dry weather water quality standards:

> "Wet and dry weather data were not separated for the purposes of this assessment because the water quality standards are not wet or dry weather specific. Additionally, the Basin Plan does not include any provisions for assessing data from wet or dry weather separately for this pollutant."[17]

[16] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 63 (Comments: 66.9, 73.17, 81.1, 83.5, 107.17, 107.6, 212.5, 228.5, 242.3), September 2006.

[17] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 99 (Comments:107.19), September 2006.

Fact Sheet Formula Error

An error was found in Excel data file accompanying the 2008 listing fact sheet for San Gabriel River Reach 2 lead analysis. The formula in the Chronic Criteria data field is:

"=(EXP((1.23*LN(I2)-4.705))*(1.46203-LN(I2)*0.145712))"

The CTR defines the CCC objective equation as:

"CCC = WER x (Acute Conversion Factor) x exp{$m_c$ln(hardness)]+b_c})
where for lead: m_c=1.273, b_c = -4.705, WER = 1, and the Acute Conversion Factor (CF) is:
"CF = 1.46203 – [(ln {hardness})(0.145712)]

It appears the m_c value as 1.23 used in the Regional Board analysis is incorrect and should have been entered as 1.273.

Proposed Listing Reevaluation

In accordance with the State Board's direction, when listings are assessed: all dry weather and wet weather data should be used; dissolved metals data should be used when available; total metals data may be used when dissolved metals data are not available for reevaluation of listings; concurrent hardness values should be used when available; and average hardness should be used when concurrent hardness is not available.

Using the concurrently measured hardness to evaluate the hardness-dependent CTR lead objectives, the chronic water quality objectives ranged from 2.0 to 11.5 µg/L for dissolved lead. For the purposes of calculating the hardness-dependent CTR lead objectives, concurrently measured hardness was used when available and the average of all location hardness measurements collected were used when concurrent hardness was not available. To reevaluate the existing listing, total lead measurements collected and reported to the Regional Board by the Sanitation Districts of Los Angeles County (Sanitation Districts) in the San Gabriel River Reach 2 during approximately the same time period (1995 through April 2007) should be considered. A complete summary of the lead and hardness data, along with the CTR hardness-dependent objective calculations, can be found in Appendix L - Table L1. Although dissolved lead was not measured in the Sanitation Districts data set, it is conservative to estimate that 100% of the measured total lead was in the dissolved form as described by the September 2006 State Board comments mentioned above. With these conservative assumptions, and combining the Sanitation Districts' data with the MS4 data, no exceedances of the Criterion Maximum Concentration (CMC) for lead were observed and ten exceedances of the Criterion Continuous Concentration (CCC) for lead were observed out of sample size of 191. For a sample size from 188 to 199, using the binomial distribution formula associated with Table 4.1, the State's Listing Policy recommends delisting a pollutant/water body combination if the number of exceedances are equal to or less than sixteen. Therefore, lead in San Gabriel River Reach 2 should be delisted.

Dissolved Lead Only Reevaluation

A reevaluation of only the 1995 through April 2007 dissolved lead data using the corrected CCC formula and appropriate four-day averages indicates that dissolved lead concentrations exceeded the four-day average CCC only four times with a sample size of 63. For a sample size from 60 to 71, Table 4.1 of the State's Listing Policy recommends delisting a pollutant/water body combination if the number of exceedances are equal to or less than five. This further demonstrates that lead in San Gabriel River Reach 2 should be delisted.

ATTACHMENT 1

Fact Sheet M

Water Body:	**Santa Clara River Reach 5 and 6**
Pollutant:	**Chlorodibromomethane**
Listing:	**List on the 303(d) List (TMDL required list)**
Comment & Recommendation:	**Do Not List – Water Quality Objectives Being Achieved**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is currently proposing that new listings for chlorodibromomethane be made to the 303(d) list for Santa Clara River Reaches 5 and 6. The proposed listings are based on application of California Toxic Rule (CTR) criteria to protect human health with consumption of water and aquatic organisms. Use of the human health "water plus organisms" criteria instead of criteria for consumption of "organisms only" relied on the presence of a Municipal and Domestic Water Supply (MUN) beneficial use in the water body. However, Santa Clara River Reaches 5 and 6 do not have an MUN beneficial use, but rather only have a conditional potential MUN designation that has no legal effect. Therefore use of the "water plus organisms" CTR criteria was inappropriate and the "organisms only" criteria should instead be used to evaluate listings.

Applicable Water Quality Objective

Both Reaches 5 and 6 of the Santa Clara River are designated for existing Water Contact Recreation (REC-1) beneficial use. The CTR Human Health for consumption of organism only criteria (34 µg/L) should be used to determine whether of these reaches are impaired.

Proposed Listing Reevaluation Santa Clara River Reach 5

To reevaluate the listing compared to the California Toxics Rule Human Health for consumption of organism only criteria, chlorodibromomethane measurements collected and reported to the Regional Board by the Sanitation Districts of Los Angeles County (Sanitation Districts) as well as data from the Newhall Ranch Sanitation District (Newhall) in the Santa Clara River Reach 5 were used. A complete summary of the chlorodibromomethane data for Reach 5 can be found in Appendix M – Table M1. In Santa Clara River Reach 5, no exceedances of the organism only criteria were observed out of a sample size of 57. For a sample size from 48 to 59, Table 3.1 of the State's listing policy recommends a pollutant/water body combination be listed if the number of exceedances are equal to or greater than five. Therefore, the proposed chlorodibromomethane listing in Santa Clara River Reach 5 should be rejected.

Proposed Listing Reevaluation Santa Clara River Reach 6

To reevaluate the listing compared to the California Toxics Rule Human Health for consumption of organism only criteria, chlorodibromomethane measurements collected and reported to the Regional Board by the Sanitation Districts in the Santa Clara River Reach 6 were used. A complete summary of the chlorodibromomethane data for Reach 6 can be found in Appendix M – Table M2. In Santa Clara River Reach 6, no exceedances of the organism only criteria were observed out of a sample size of 8. For a sample size from 2 to 24, Table 3.1 of the State's listing policy recommends a pollutant/water body combination be listed if the number exceedances are equal to or greater than two. Therefore, the proposed chlorodibromomethane listing in Santa Clara River Reach 6 should be rejected.

ATTACHMENT 1

Fact Sheet N

Water Body:	**Santa Clara River Reach 5 and 6**
Pollutant:	**Dichlorobromomethane**
Listing:	**List on the 303(d) List (TMDL required list)**
Comment & Recommendation:	**Do Not List – Water Quality Objectives Being Achieved**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is currently proposing that new listings for dichlorobromomethane be made to the 303(d) list Santa Clara River Reaches 5 and 6. The proposed listings are based on application of California Toxic Rule (CTR) criteria to protect human health with consumption of water and aquatic organisms. Use of the human health "water plus organisms" criteria instead of criteria for consumption of "organisms only" relied on the presence of a Municipal and Domestic Water Supply (MUN) beneficial use in the water body. However, Santa Clara River Reaches 5 and 6 do not have an MUN beneficial use, but rather only have a conditional potential MUN designation that has no legal effect. Therefore use of the "water plus organisms" CTR criteria was inappropriate and the "organisms only" criteria should instead be used to evaluate listings.

Applicable Water Quality Objective

Both Reaches 5 and 6 of the Santa Clara River are designated with an existing Water Contact Recreation (REC-1) beneficial use. The CTR Human Health for consumption of organism only criteria (46 µg/L) should be used to determine whether these reaches are impaired.

Proposed Listing Reevaluation Santa Clara River Reach 5

To reevaluate the listing compared to the California Toxics Rule Human Health for consumption of organism only criteria, dichlorobromomethane measurements collected and reported to the Regional Board by the Sanitation Districts of Los Angeles County (Sanitation Districts) as well as data from the Newhall Ranch Sanitation District (Newhall) in the Santa Clara River Reach 5 were used. A complete summary of the dichlorobromomethane data for Reach 5 can be found in Appendix N – Table N1. In Santa Clara River Reach 5, no exceedances of the organism only criteria were observed out of a sample size of 57. For a sample size from 48 to 59, Table 3.1 of the State's listing policy recommends a pollutant/water body combination be listed if the number of exceedances are equal or greater than five. Therefore, the proposed dichlorobromomethane listing in Santa Clara River Reach 5 should be rejected.

Proposed Listing Reevaluation Santa Clara River Reach 6

To reevaluate the listing compared to the California Toxics Rule Human Health for consumption of organism only criteria, dichlorobromomethane measurements collected and reported to the Regional Board by the Sanitation Districts in the Santa Clara River Reach 6 were used. A complete summary of the dichlorobromomethane data for Reach 6 can be found in Appendix N – Table N2. In Santa Clara River Reach 6, no exceedances of the organism only criteria were observed out of a sample size of 8. For a sample size from 2 to 24, Table 3.1 of the State's listing policy recommends a pollutant/water body combination be listed if the number exceedances are equal or greater than two. Therefore, the proposed dichlorobromomethane listing in Santa Clara River Reach 6 should be rejected.

Fact Sheet O

Water Body:	**San Jose Creek Reach 1**
Pollutant:	**Ammonia**
Listing:	**Listed on the 303(d) List (Being Addressed by Actions Other than a TMDL)**
Comment & Recommendation:	**Delist – Water Quality Objectives Being Achieved**

Site-specific objectives (SSOs) for ammonia were developed for San Jose Creek Reach 1 and became effective and adopted into the Basin Plan on April 23, 2009. However, these objectives were approved by the California Regional Water Quality Control Board, Los Angeles Region (Regional Board) in 2007 and subsequently approved by the State Water Resources Control Board in January 2008. Considering that the Regional Board has been aware of these impending changes to the Basin Plan Regional Board since 2007, the chronic ammonia water quality standards reflected in the SSO should have been used to evaluate ammonia listings for this 303(d) listing cycle.

Existing Listing Reevaluation

An examination of the San Jose Creek Reach 1 ammonia, pH, and temperature data provided to the Regional Board as part of their 303(d) listing review (March 2004 through February 2007) reveals that the four-day chronic SSO-adjusted Criterion Continuous Concentration (CCC) threshold for ammonia was exceeded in San Jose Creek Reach 1 on 14 occasions out of a total 282 measurements, as presented in Appendix O - Table O1. Furthermore, there were no exceedances of the Criterion Maximum Concentration (CMC) threshold out of 296 single sample measurements. For a sample size of 282 to 292, using the binomial distribution formula associated with Table 4.1, the State's 303(d) listing policy recommends delisting a previously listed pollutant/water body combination if the number of exceedances are equal to or fewer than 24. Since 282 four-day average ammonia results show only 14 exceedances of the CCC, ammonia should be delisted from San Jose Creek Reach 1.

ATTACHMENT 1

FACT SHEET P

Water Body:	**Santa Clara River Reach 5**
Pollutant:	**Ammonia**
Listing:	**Listed on the 303(d) List (Being Addressed by an EPA Approved TMDL)**
Comment & Recommendation:	**Delist – Water Quality Objectives Being Achieved**

Santa Clara River Reach 5 has been included on the 303(d) list for ammonia since at least 1998. Subsequently, nitrification/denitrification treatment upgrades at the Valencia Water Reclamation Plant were completed in October 2003 that resulted in significant reductions of ammonia loadings to Santa Clara River Reach 5.

Existing Listing Reevaluation

An examination of the Santa Clara River Reach 5 ammonia, pH, and temperature data collected concurrently and provided to the California Regional Quality Control Board, Los Angeles Region after implementation of nitrification/denitrification treatment upgrades at the Valencia Water Reclamation Plant (October 2003 through February 2007) by the Sanitation District of Los Angeles County (Sanitation Districts) as well as available data from the same time period collected by Newhall Ranch Sanitation District (Newhall) reveals that even without consideration of recently approved site-specific objectives for ammonia, the four-day chronic Criterion Continuous Concentration (CCC) threshold for ammonia was never exceeded out of a total 146 measurements, as presented in Appendix P Table P1. For a sample size of 142 to 152, using the binomial distribution formula associated with Table 4.1, the State 303(d) Listing Policy recommends delisting a previously listed pollutant/water body combination if the number of exceedances are equal to or fewer than 12. Additionally, the single sample Criterion Maximum Concentration (CMC) was not exceeded out 218 samples collected. Since no exceedances of the water quality standards were observed in Santa Clara River Reach 5 out of 146 measurements, Santa Clara River Reach 5 should be delisted for ammonia.

ATTACHMENT 1

FACT SHEET Q

Water Body:	**Santa Clara River Reach 5**
Pollutant:	**Nitrite + Nitrate**
Listing:	**Listed on the 303(d) List (Being Addressed by an EPA Approved TMDL)**
Comment & Recommendation:	**Delist – Water Quality Objectives Being Achieved**

Table 3-8 of the Basin Plan indicates that the nitrogen water quality objective for Santa Clara River Reach 5 is 5.0 mg/L. This objective is further defined in the table by footnote "d" as the sum of nitrate and nitrite. The original listing determination for this water body/pollutant combination was made in 1998. Since that time, extensive water reclamation plant (WRP) upgrades were implemented by the Sanitation Districts of Los Angeles County's (Sanitation Districts) Valencia WRP to specifically reduce nitrogen loadings into Santa Clara River Reach 5. The most significant of these upgrades included incorporation of nitrification/de-nitrification treatment beginning in October 2003.

Existing Listing Reevaluation

Nitrite and nitrate data for Santa Clara River Reach 5 provided to the California Regional Water Quality Control Board, Los Angeles Region (Regional Board) as part of their 303(d) listing review (March 2004 through February 2007) by the Sanitation Districts (104 results) and the Newhall Ranch Sanitation District (139 results) were evaluated for similar time periods. The evaluation revealed that the nitrite + nitrate water quality objective was exceeded in nine instances out of a total 243 measurements, as presented in Appendix Q Table Q1. For a sample size of 235 to 246 the State's 303(d) Listing Policy, using the binomial distribution formula associated with Table 4.1, recommends delisting a previously listed pollutant/water body combination if the number of exceedances are equal to or fewer than 20. Since only nine exceedances of the objective were observed, Santa Clara River Reach 5 should be delisted for nitrite + nitrate.

FACT SHEET R

Water Body:	**Santa Clara River Reach 6**
Pollutant:	**Ammonia**
Listing:	**Listed on the 303(d) List (Being Addressed by an EPA Approved TMDL)**
Comment & Recommendation:	**Delist – Water Quality Objectives Being Achieved**

Santa Clara River Reach 6 has been included on the 303(d) list for ammonia since at least 1998. Subsequently, nitrification/denitrification treatment upgrades at the Saugus Water Reclamation Plant were completed in October 2003 that resulted in significant reductions of ammonia loadings to Santa Clara River Reach 6.

Existing Listing Reevaluation

An examination of the Santa Clara River Reach 6 ammonia, pH, and temperature data collected concurrently and provided to the Regional Board after implementation of nitrification/denitrification treatment upgrades at the Saugus Water Reclamation Plant (October 2003 through February 2007) by the Sanitation District of Los Angeles County (Sanitation Districts) reveals that even without consideration of recently approved site-specific objectives for ammonia, the four-day chronic Criterion Continuous Concentration (CCC) threshold for ammonia was exceeded twice in a sample size of 73, as presented in Appendix R Table R1. For a sample size of 72 to 82, Table 4.1 of the State 303(d) Listing Policy recommends delisting a previously listed pollutant/water body combination if the number of exceedances are equal to or fewer than six. Additionally, the single sample Criterion Maximum Concentration (CMC) was not exceeded out 78 samples collected. Since only two exceedances of the water quality standards were observed in Santa Clara River Reach 6 out of 74 measurements, Santa Clara River Reach 6 should be delisted for ammonia.

ATTACHMENT 1

FACT SHEET S

Water Body:	**Santa Clara River Reach 5**
Pollutant:	**Polychlorinated Biphenyls (PCBs)**
Listing:	**List on the 303(d) List (TMDL required list)**
Comment & Recommendation:	**Do Not List – Insufficient Basis to List**

The California Regional Water Quality Control Board, Los Angeles (Regional Board) is proposing a new listing for polychlorinated biphenyls (PCBs) in Reach 5 of the Santa Clara River because their evaluation of available data indicated that the California Toxics Rule (CTR) four-day Criterion Continuous Concentration (CCC) threshold of 0.014 µg/L PCB was exceeded in 2 of 3 samples collected as part of Surface Water Ambient Monitoring Program (SWAMP). A contemporary analysis of available data finds 3 samples available from the SWAMP program, 46 samples collected by the Newhall Sanitation District (Newhall), and 18 samples collected by the Sanitation Districts of Los Angeles County (Sanitation Districts). This dataset is attached as Appendix S – Table S1.

Consideration of all data

All Sanitation Districts and Newhall data for PCBs for this period are non-detect; however the detection limits are above the applicable water quality criterion of 0.014 µg/L PCBs so the samples do not qualify for consideration under the State's 303(d) Listing Policy. However, if all samples were considered this would yield an additional 64 non-detect samples. For a sample size of 60 to 71, Table 3.1 of the State's listing policy recommends listing a pollutant/water body combination if the number of exceedances are equal to or greater than six.

Spatial Representation

The SWAMP sample collected from the Castaic Creek monitoring location on November 13, 2001 is not representative of conditions in Santa Clara River Reach 5 and does not meet Listing Policy guidelines for spatial representativeness. The SWAMP database for this sample states in the comments field, "slow trickle, not measurable flow, small pools of water." The proposed PCBs listing relies on this Castaic Creek SWAMP monitoring station sample, which was collected during non-measurable flows that are not representative of typical or long-term conditions within this water body and certainly not representative of typical or long-term conditions in Santa Clara River Reach 5.

Further, the SWAMP sample was collected from Castaic Creek but Table 2-1 of the Basin Plan identifies Castaic Creek as a separate water body with designated beneficial uses that are independent of Santa Clara River Reach 5. Therefore the Castaic Creek sample does not meet the requirements of Section 6.1.5.2 of the State's 303(d) Listing Policy and is not representative of the water body segment of the Santa Clara River Reach 5. PCB data for Castaic Creek should be evaluated separately and should not be included in the primary data set considered in determining a listing for Santa Clara River Reach 5.

Temporal Representation

The SWAMP samples were taken only 14 days apart during a single season (wet season) in 2001. This does not meet the recommended criteria for temporal representation in the Listing Policy, and therefore should not be used as the sole basis for this new listing. Section 6.1.5.3 of the Listing Policy states, "In general, samples should be available from two or more seasons or from two or more events when effects

or water quality exceedances would be expected to be clearly manifested." Therefore, the Sanitation Districts do not believe that sufficient information is available at this time to warrant placing Santa Clara River Reach 5 on the 303(d) list for PCBs. The information available does not meet the minimum number of exceedances required for listing per Table 3.1 of the State's 303(d) Listing Policy.

State Water Resource Control Board Guidance

In the September 2006 State Water Resources Control Board (State Board) considered a listing for Santa Clara River Reach 5 based on this SWAMP data and determined no listing was justified. The updated November 2006 fact sheet is included as Appendix S1. The State Board recommendation on this fact sheet is:

> "After review of the available data and information, SWRCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list because applicable water quality standards are not exceeded"

Proposed Listing Reevaluation

Only the Santa Clara River Reach 5 SWAMP data collected at the Newhall Ranch Blue Cut monitoring station should only be used to assess impairments, not the Castaic Creek sample. This results in only 1 of 2 samples exceeding the CCC. Available Santa Clara River Reach 5 data do not meet the Listing Policy requirements of Table 3.1 for two or greater exceedances for any new listing, so no new listing is warranted for PCBs in Santa Clara River Reach 5.

ATTACHMENT 1

FACT SHEET T

Water Body: **Santa Clara River Reach 5**
Pollutant: **DDT**

Listing: **List on the 303(d) List (TMDL required list)**

Comment & Recommendation: **Do Not List – Insufficient Basis to List**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is proposing a new listing for DDT in Reach 5 of the Santa Clara River because their evaluation of available data indicated that the California Toxic Rule (CTR) criteria to protect human health with consumption of water and aquatic organisms threshold of 0.00059 µg/L DDT was exceeded in 2 of 3 samples collected as part of the Surface Water Ambient Monitoring Program (SWAMP). A contemporary analysis of available data finds 3 samples available from the SWAMP program, 60 samples collected by the Newhall Sanitation District (Newhall), and 40 samples collected by the Sanitation Districts of Los Angeles County (Sanitation Districts). This dataset is attached as Appendix T – Table T1.

Consideration of all data

All Sanitation Districts and Newhall data for DDT for this period are non-detect; however the detection limits are above the applicable water quality criterion of 0.00059 µg/L DDT so the samples do not qualify for consideration under the State's 303(d) Listing Policy. However, if all samples were considered this would yield an additional 100 non-detect samples. For a sample size of 95 to 106, Table 3.1 of the State's listing policy recommends listing a pollutant/water body combination if the number of exceedances are equal to or greater than ten.

Spatial Representation

The SWAMP sample collected from the Castaic Creek monitoring location on November 13, 2001 is not representative of conditions in Santa Clara River Reach 5 and does not meet Listing Policy guidelines for spatial representativeness. The SWAMP database for this sample states in the comment field, "slow trickle, not measurable flow, small pools of water." The proposed DDT listing relies on this Castaic Creek SWAMP monitoring station sample, which was collected during non-measurable flows that are not representative of typical or long-term conditions within this water body and Certainly not representative of typical or long-term conditions in Santa Clara River Reach 5.

Further, the SWAMP sample was collected from Castaic Creek but Table 2-1 of the Basin Plan identifies Castaic Creek as a separate water body with designated beneficial uses that are independent of Santa Clara River Reach 5. Therefore the Castaic Creek sample does not meet the requirements of Section 6.1.5.2 of the State's 303(d) Listing Policy and is not representative of the water body segment of the Santa Clara River Reach 5. DDT data for Castaic Creek should be evaluated separately and should not be included in the primary data set considered in determining a listing for Santa Clara River Reach 5.

Temporal Representation

The SWAMP samples were taken only 14 days apart during a single season (wet season) in 2001. This does not meet the recommended criteria for temporal representation in the Listing Policy, and therefore should not be used as the sole basis for this new listing. Section 6.1.5.3 of the Listing Policy states, "In general, samples should be available from two or more seasons or from two or more events when effects

or water quality exceedances would be expected to be clearly manifested." Therefore, the Sanitation Districts do not believe that sufficient information is available at this time to warrant placing Santa Clara River Reach 5 on the 303(d) list for DDT. The information available does not meet the minimum number of exceedances required for listing per Table 3.1 of the State's 303(d) Listing Policy.

State Water Resource Control Board Guidance

In September 2006, State Water Resources Control Board (State Board) considered a similar listing for Santa Clara River Reach 5 for PCB based on this SWAMP data. The State Board determined that only data from the Newhall Ranch Blue Cut monitoring station was suitable for evaluation in Santa Clara Reach 5, as reflected in the fact sheet included as Appendix S1. The State Board rejected use of the Castaic Creek SWAMP sample in assessing impairments in Santa Clara Reach 5.

Proposed Listing Reevaluation

Santa Clara River Reach 5 SWAMP data collected at the Newhall Ranch Blue Cut monitoring station should only be used to assess impairment not the Castaic Creek sample. This results in only 1 of 1 samples exceeding the water quality standard. Available Santa Clara River Reach 5 data do not meet the Listing Policy requirements of Table 3.1 for two or greater exceedances for any new listing, so no new listing is warranted for DDT in Santa Clara River Reach 5.

ATTACHMENT 1

FACT SHEET U

Water Body:	**Santa Clara River Reach 6**
Pollutant:	**Bis(2-ethylhexyl)phthalate (diethylhexyl phthalate or DEHP)**
Listing:	**List on the 303(d) List (TMDL required list)**
Comment & Recommendation:	**Do Not List – Water Quality Basis is Being Achieved**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is proposing a new listing for bis(2-ethylhexyl)phthalate (DEHP) in Reach 6 of the Santa Clara River. The proposed listing is based on application of a California Toxics Rule (CTR) criterion to protect human health with consumption of water and aquatic organisms. Use of the human health "water plus organisms" criterion instead of the criterion for consumption of "organisms only" relied on the presence of a Municipal and Domestic Water Supply (MUN) beneficial use in the water body. However, Santa Clara River Reach 6 does not have an MUN beneficial use, but rather only has a conditional potential MUN designation that has no legal effect. Therefore use of the "water plus organisms" CTR criteria was inappropriate and the "organisms only" criteria should instead be used to evaluate listings. Additionally, a contemporary analysis of available data finds 33 samples collected by the Los Angeles County Department of Public Works (LACDPW) and 13 samples collected by the Sanitation Districts of Los Angeles County (Sanitation Districts). This dataset is attached as Appendix U – Table U1.

Applicable Water Quality Objective

Reach 6 of the Santa Clara River is designated with an existing Water Contact Recreation (REC-1) beneficial use. The CTR Human Health for consumption of organism only criteria (5.9 µg/L) should be used to determine whether these reaches are impaired.

Sample Contamination and Data Quality Assessment

Phthalates are commonly encountered analytical contaminants. They are found in rubber gloves, plastic tubing, and nearly every plastic material. Therefore, phthalate contamination is a frequent laboratory interference and stringent procedures along with specialized sampling equipment are necessary to minimize this interference. EPA Method 625 for organic chemical analysis of municipal and industrial wastewater cautions that composite sampling equipment, particularly the use of Tygon tubing, is a significant source of phthalate contamination[18]. Furthermore, Standard Methods 6410 B specifically recommends using sampling equipment "as free as possible" of any plastic tubing and includes specific recommendations for minimizing contamination from peristaltic pump tubing[19].

A review of LACDPW's sampling data from 2001 to 2008 indicates that a significant sample contamination issue existed during the 2003-2004 sampling season. Between 2001 and 2008 LACDPW sampled 13 locations each year 5 to 7 times for DEHP. Table U1 lists the number times DEHP was detected at all sampling locations.

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[18] Appendix A to Part 136 – Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, Method 625 Base/Neutrals and Acids. Section 9 – Sample Collection, Preservation, and Handling. Accessed from Accustandards.com, EPA downloads

[19] Standard Methods for the Examination of Water and Wastewater, 21st Edition. Method 6410 B. Liquid-Liquid Extraction Gas Chromatographic/Mass Spectrometric Method. Page 6-66 and 6-67.

TABLE U1
LACDPW SAMPLING SEASON DETECTIONS OF DEHP

Season	Detections	Samples
2002-2003	0	72
2003-2004	57	72
2004-2005	10	84
2005-2006	0	84
2006-2007	0	84
2007-2008	0	86

The fact that DEHP was not detected a single time during the 2002-2003, 2005-2006-2007, 2006-2007, or 2007-2008 sampling seasons but was detected in 79% of samples during the 2003-2004 strongly indicates that these detections were the result of collection, handling, or analysis contamination. LACDPW was contacted regarding this data anomaly and commented that around the 2004 time frame a significant change was made in the equipment they used to collect samples. At that time, the practice of using "rubber buckets" was discontinued and LACDPW started using sterilized laboratory grade sampling equipment. Around this time, analytical laboratories across the California were making changes to address DEHP sample contamination. This includes the Sanitation Districts analytical laboratories, which switched from Tygon tubing to Teflon tubing for composite sampling and switched to phthalate-free gloves for handling phthalate samples. After the Sanitation Districts made these changes, dramatic reductions were seen in concentrations of DEHP detected during sampling.

Furthermore, it is highly unlikely that Santa Clara River Reach 6 contained excessive concentrations of DEHP for one or two years but in no other years, particularly as result of stormwater discharges. There are no known significant sources of DEHP in stormwater. Due to issue of sample contamination, particularly through use of plastic buckets to collect samples prior to the 2005-2006 sampling season, a weight of evidence evaluation indicates that the LACDPW results for DEHP prior to the 2005-2006 sampling season do not meet the data quality requirements of Section 6.1.4 of the State's 303(d) Listing Policy. In particular, this Section states, "the quality of the data used in the development of the section 303(d) list shall be of sufficient high quality to make determinations of water quality standards attainment." Additionally, Section 6.1.5.2 of the State's 303(d) Listing Policy states that if implementation of a management practice has resulted in a change in water body segment, only data collected since the management practice was implemented should be used. In this case, use of cleaner sampling methods should be considered a management practice and older data should be discarded.

Proposed Listing Reevaluation

Consideration of all data collected from July 2005 to July 2008 provides three years of data or 27 samples with no exceedances. The Santa Clara River Reach 6 DEHP data do not meet the Listing Policy requirements of Table 3.1 for two or greater exceedances for any new listing, so no new listing is warranted for bis(2-ethylhexyl)phthalate (DEHP)in Santa Clara River Reach 6.

ATTACHMENT 1

FACT SHEET V

Water Body:	**Walnut Creek**
Pollutant:	**Copper**
Listing:	**List on the 303(d) List (TMDL required list)**
Comment & Recommendation:	**Do Not List – Water Quality Objectives Being Achieved**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is currently proposing that a new listing for copper be made to the 303(d) list in Walnut Creek. The fact sheet for copper in Walnut Creek states three of seven samples "exceeded the CTR freshwater criteria (chronic) and this exceeds the allowable frequency listed in Table 3.1 of the Listing Policy". The fact sheet also states the standard was compared against data collected by the Los Angeles County Department of Public Works (LACDPW) from October 2006 through April 2007.

State Water Resource Control Board Guidance

In the September 2006 State Water Resources Control Board (State Board) evaluation of the 303(d) List, the use of dissolved and total fraction metals data, the use of wet and dry weather data, and the use of concurrent or average hardness values were all discussed. Dissolved fraction metals data should be used for assessing listings when available, and total fraction data may be used only for listing reevaluation when dissolved fraction data is unavailable:

> "The CTR mandates the criteria to be the dissolved fraction. Although a translator exists to convert dissolved criteria to total fraction effluent limit, no provision in the CTR allows calculating total metals fraction receiving water quality criterion. Staff has reevaluated listings where total metals data were applicable and would result in a change to the analysis. Use of total metals data were applied only to delisting evaluations and only in comparison with dissolved metals criteria. No translators were used to convert total metal fractions to dissolved metal fractions."[20]

Also, the State Board stated in this report that both wet and dry weather data must be used to assess listings unless the Basin Plan includes specific wet and dry weather water quality standards:

> "Wet and dry weather data were not separated for the purposes of this assessment because the water quality standards are not wet or dry weather specific. Additionally, the Basin Plan does not include any provisions for assessing data from wet or dry weather separately for this pollutant."[21]

[20] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 63 (Comments: 66.9, 73.17, 81.1, 83.5, 107.17, 107.6, 212.5, 228.5, 242.3), September 2006.
[21] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 99 (Comments:107.19), September 2006.

Finally, the State Board provided the following guidance on the appropriate hardness to use for listing assessment:

> "Revisions were made to fact sheets in order to clarify how the hardness based criteria was calculated. In almost all cases, the criteria was calculated for each individual sample using the hardness value for that sample. However, there were a few instances where only the average hardness data was available and used. In cases where the average value was used, recommendations were to not list so using this average value did not result in any new listings." [22]

Proposed Listing Reevaluation

In accordance with the State Board's direction, when listings are assessed: all dry weather and wet weather data should be used; dissolved metals data should be used when available; total metals data may be used when dissolved metals data are not available for reevaluation of listings; concurrent hardness values should be used when available; and average hardness should be used when concurrent hardness is not available.

For the purposes of calculating the hardness dependent CTR copper objectives, concurrently measured hardness was used. Using the concurrently measured hardness to evaluate the hardness-dependent CTR copper objectives, the chronic water quality objectives ranged from 5.8 to 14.8 µg/L for dissolved copper. A reevaluation of the data indicate that only one of six four-day average dissolved copper results exceeded the Criterion Continuous Concentration (CCC) and only one of seven results exceeded the Criterion Maximum Concentration (CMC). Table 3.1 of the State's listing policy recommends a pollutant/water body combination be listed if the number exceedances are equal or greater than two with a sample size of 2 to 24. Therefore, the proposed copper listing in Walnut Creek should be rejected. A complete summary of the copper and hardness data along with the CTR hardness dependant objective calculations can be found in Appendix V - Table V1.

[22] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 171 (Comments:81.3), September 2006.

ATTACHMENT 1

FACT SHEET W

Water Body:	**Santa Clara Estuary**
Pollutant:	**Arsenic**
Listing:	**List on the 303(d) List (TMDL Required List)**
Comment & Recommendation:	**Do Not List – Water Quality Objective Being Achieved**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is currently proposing to add arsenic to the 2008 303(d) List for the Santa Clara Estuary. The fact sheet for arsenic in Santa Clara Estuary states "9 of 63 samples exceed the California Toxics Rule Criterion Maximum Concentration (CMC)" and the California Toxics Rule (CTR) lists a Criterion Continuous Concentration of 36 µg/L and a Criterion Maximum Concentration (CMC) of 59 µg/L for arsenic to protect aquatic life in saltwater.

Proposed Listing Reevaluation

An analysis of available data finds 63 samples collected by the City of Buenaventura. The evaluation reveals that the arsenic water quality objective was exceeded only twice out of the 63 measurements, as presented in Appendix W Table W1. For a sample size of 60 to 71, Table 3.1 of the State's 303(d) listing policy recommend a pollutant/water body combination be listed if the number of exceedances are equal or greater than six. Therefore, the proposed arsenic listing in the Santa Clara Estuary should be rejected.

ATTACHMENT 1

Fact Sheet X

Water Body:	**Walnut Creek**
Pollutant:	**Lead**
Listing:	**List on the 303(d) List (TMDL Required List)**
Comment & Recommendation:	**Do Not List – Water Quality Objective Being Achieved**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is currently proposing to list lead in Walnut Creek. The fact sheet for lead in Walnut Creek states that "the water body-pollutant combination should be placed on the section 303(d) list because applicable water quality standards are exceeded" and further indicates that two of six samples exceeded the hardness dependent California Toxics Rule (CTR) Criterion Continuous Concentration (CCC) for lead with no Criterion Maximum Concentration (CMC) exceedances. The fact sheet also states the standard was compared against data collected by the Los Angeles County Department of Public Works from October 2006 through April 2007.

State Water Resource Control Board Guidance

In the September 2006 State Water Resources Control Board (State Board) evaluation of the 303(d) List, the use of dissolved and total fraction metals data, the use of wet and dry weather data, and the use of concurrent or average hardness values were all discussed. Dissolved fraction metals data should be used for assessing listings when available, and total fraction data may be used only for listing reevaluation when dissolved fraction data is unavailable:

> "The CTR [California Toxic Rule] mandates the criteria to be the dissolved fraction. Although a translator exists to convert dissolved criteria to total fraction effluent limit, no provision in the CTR allows calculating total metals fraction receiving water quality criterion. Staff has reevaluated listings where total metals data were applicable and would result in a change to the analysis. Use of total metals data were applied only to delisting evaluations and only in comparison with dissolved metals criteria. No translators were used to convert total metal fractions to dissolved metal fractions."[23]

Also, the State Board stated in this report that both wet and dry weather data must be used to assess listings unless the Basin Plan includes specific wet and dry weather water quality standards:

> "Wet and dry weather data were not separated for the purposes of this assessment because the water quality standards are not wet or dry weather specific. Additionally, the Basin Plan does not include any provisions for assessing data from wet or dry weather separately for this pollutant."[24]

[23] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 63 (Comments: 66.9, 73.17, 81.1, 83.5, 107.17, 107.6, 212.5, 228.5, 242.3), September 2006.
[24] Staff Report Volume IV Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments Response to Comments page 99 (Comments:107.19), September 2006.

Proposed Listing Reevaluation

In accordance with the State Board's direction, when listings are assessed: all dry weather and wet weather data should be used; dissolved metals data should be used when available; total metals data may be used when dissolved metals data are not available for only reevaluation of listings; concurrent hardness values should be used when available; and average hardness should be used when concurrent hardness is not available.

For the purposes of calculating the hardness dependent CTR lead objectives, concurrently measured hardness was used. Using the concurrently measured hardness to evaluate the hardness-dependent CTR lead objectives, the CCC water quality objectives ranged from 1.4 to 4.7 µg/L for dissolved lead and the practical quantitation limit (PQL) stated by LACDPW is 5.00 µg/L. A reevaluation of the data from October 2006 through April 2007 indicates that the PQL was above the CCC for all samples, so no samples meet the requirements of section 6.1.5.5 of the State's Listing Policy for consideration against the CCC. The CMC water quality objectives ranged from 36.9 µg/L to 121.7 µg/L for dissolved lead. A reevaluation of the data from October 2006 through April 2007 indicates that no exceedances of the CMC occurred with a sample size of 7. Table 3.1 of the State's listing policy recommends a pollutant/water body combination be listed if the number exceedances are equal or greater than two with a sample size of 2 to 24. Therefore, the proposed lead listing in Walnut Creek should be rejected. A complete summary of the lead and hardness data along with the CTR hardness dependant objective calculations can be found in Appendix X - Table X1.

ORIGINAL

ATTACHMENT 2

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CLOSED

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Attorneys for Plaintiffs

FILED
CLERK, U.S. DISTRICT COURT
DEC 18 2001
CENTRAL DISTRICT OF CALIFORNIA
BY DEPUTY

THIS CONSTITUTES NOTICE OF ENTRY AS REQUIRED BY FRCP RULE 77(d).

UNITED STATES DISTRICT COURT

CENTRAL DISTRICT OF CALIFORNIA, WESTERN DIVISION

CITY OF LOS ANGELES, CITY OF BURBANK, CITY OF SIMI VALLEY, and COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY, by and through its agent COUNTY SANITATION DISTRICT NUMBER 2 OF LOS ANGELES COUNTY,

Plaintiffs,

v.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, and ALEXIS STRAUSS, Director, Water Division, UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, REGION IX,

Defendants.

No. CV 00-08919 R(RZx)

[PROPOSED] ORDER GRANTING PLAINTIFFS' MOTION FOR SUMMARY JUDGMENT AND REMANDING ACTION TO EPA

ENTERED
CLERK, U.S. DISTRICT COURT
12-19-01
CENTRAL DISTRICT OF CALIFORNIA
BY DEPUTY

DOWNEY, BRAND, SEYMOUR & ROHWER LLP

Docketed
Copies Rec'd/C Sent
JS - 5 / JS - 6
JS - 2 / JS - 3
CLSD

Before the court are the Parties' Cross-Motions for Summary Judgment and Defendants' Motion to Strike Extra-Record Evidence. The matter came before the court for hearing on November 5, 2001, at 10:00 a.m. Appearing for Plaintiffs were Melissa A. Thorme and Tory E. Griffin of Downey, Brand, Seymour & Rohwer LLP. Appearing for Defendants was Pamela S. Tonglao of United States Department of Justice. The court, after reviewing all the papers filed in conjunction with the parties' cross-motions and considering the parties' statements at the hearing on this matter, issued its ruling at the conclusion of the hearing. The court now enters the following formal order consistent with its ruling at the conclusion of the hearing in this matter.

ATTACHMENT 2

I. FACTUAL BACKGROUND

1. In 1988, pursuant to State law, the California State Water Resources Control Board ("SWRCB") issued a "Sources of Drinking Water" policy known as SWRCB Resolution No. 88-63. (AR 1013-14.) This policy declares that "[a]ll surface and ground waters of the state are considered to be suitable, or potentially suitable, for municipal or domestic water supply and should be so designated by the Regional Boards *with the exception of:*"

> 1. Surface and ground waters where: . . . b. There is contamination, either by natural processes or by human activity (unrelated to a specific pollution incident), that cannot reasonably be treated for domestic use using either Best Management Practices or best economically achievable treatment practices....; and
>
> 2. Surface waters where: . . . a. The water is in systems designed or modified to collect or treat municipal or industrial wastewaters, process waters, mining wastewaters, or storm water runoff, provided that the discharge from such systems is monitored to assure compliance with all relevant water quality objectives as required by the Regional Boards....

(AR 1013)(emphasis added).

2. The publicly owned treatment works ("POTWs") owned and operated by Plaintiffs discharge into waters that may fit within both of the exceptions to the SWRCB's Sources of Drinking Water Policy mentioned above. (AR 850-51; see also Complaint, ¶¶ 9, 11, 12, and 14; EPA's Answer, ¶¶ 9, 11, 12, and 14.)

3. Between 1989 and 1997, four different sets of changes to the Los Angeles Region's basin plan were sent to EPA for approval pursuant to the requirements of the Clean Water Act ("CWA") § 303 [33 U.S.C. § 1313].

4. The LA-RWQCB adopted Resolution No. 89-03 on March 27, 1989, to incorporate the SWRCB's "Sources of Drinking Water" policy into the Basin Plan. (AR 717-18.) This resolution, entitled "Incorporation of Sources of Drinking Water Policy into the Water Quality Control Plans (Basin Plans)," states, in pertinent part, as follows:

> Water bodies within the Region that do not have beneficial uses designated for them in Table 4 (in the updated Appendices with the 1978 revisions) are assigned MUN designations in accordance with the provisions of State Water Resources Control Board Resolution No. 88-63 which is, by reference, a part of these Basin Plans.

These MUN designations in no way affect the presence or absence of other beneficial use designations in these water bodies.

(AR 717-18 (emphasis added).)

5. Although "Table 4" was referenced in Resolution No. 89-03 and in EPA's May 26, 2000 letter, it was not included in the Administrative Record before EPA. As a result, it is impossible to discern solely from the Administrative Record exactly which water bodies in the LA Region were first given the MUN designation as a result of the 1989 basin plan amendments.

6. On April 12, 1989, the LA-RWQCB issued a memorandum explaining Resolution No. 89-03. This memorandum states that pursuant to Resolution No. 89-03, waters listed in "Table 4 (as amended in 1978)" as having an existing MUN designation would maintain that designation; water bodies listed in the Basin Plan without an existing MUN designation would retain this designation as water quality information indicated that these water bodies *were not suitable or potentially suitable as a source of drinking water*; and, finally, waters that were not listed in the Basin Plan would be automatically designated as having an MUN use pursuant to SWRCB Res. No. 88-63. (ER 1-2 (emphasis added).)

7. Table 4, submitted by Plaintiffs as extra-record evidence, shows that most, if not all, of the waters to which Plaintiffs discharge already had beneficial uses assigned to them, none of which consisted of an existing or potential MUN use. (ER 3-6.)

8. Resolution 94-07, entitled "Water Quality Control Plan: Los Angeles Region" (herein referred to as the "1994 Basin Plan"), was adopted by the LA-RWQCB on or about June 13, 1994 and approved by the SWRCB on November 17, 1994. (AR 770-71, 774-76.) This Basin Plan amendment included substantial changes to the Region's earlier basin plan and superseded all previous basin plans and amendments thereto.

9. In the first draft of the 1994 Basin Plan, the LA-RWQCB apparently changed course from its prior action taken pursuant to it Resolution No. 89-03, and proposed new language stating its intent to honor the SWRCB's "Sources of Drinking Water" policy.

10. Instead of reviewing the exceptions stated in the SWRCB's Sources of Drinking Water Policy and only designating as MUN those waters that did not meet any exception under

the SWRCB's Policy, the LA-RWQCB proposed a blanket designation of all inland surface and ground waters as MUN. (AR 859; see AR 802.) Several parties, including many of the Plaintiffs in this action, submitted extensive comments explaining the serious problems inherent in this blanket MUN designation. (AR 777-81, 788-91, 811, 1104-07, 1144.)

11. In response to comments from interested parties, the LA-RWQCB elected to conditionally designate and not finally designate as having an MUN use those water bodies identified by a "*" for the MUN use in Table 2-1 of the Basin Plan. (AR 811, 859-60, 1104-07, 1144, 1472-74, 1479.) Thus, the LA-RWQCB decided water bodies identified as having an asterisked ("*") MUN use in Table 2-1 of the 1994 Basin Plan would not be subject to new effluent limitations based on the conditional MUN use until such time as the LA-RWQCB met its self-imposed condition to conduct yet another water-body specific analysis to determine whether any of asterisked MUN water bodies should be designated MUN in light of the exemptions listed in the Sources of Drinking Water Policy. (Id.) Moreover, the LA-RWQCB determined that a special Basin Plan amendment would be needed to implement any exemptions under the SWRCB's Sources of Drinking Water Policy or to remove the condition (indicated by an "*") from any conditionally designated MUN use. (AR 860).

12. The LA-RWQCB's intent to only conditionally designate and not finally designate as MUN those water bodies identified by an asterisk ("*") for the MUN use in Table 2-1 of the Basin Plan, without further action, is clear. Thus, without further action, the asterisked MUN use in Table 2-1 of the 1994 Basin Plan is not a "designated use" as defined in 40 C.F.R. §131.3(f).

13. On May 26, 2000, EPA sent a letter to the acting Executive Director of the SWRCB approving in total the 1989, 1990, and 1997 amendments to the LA Basin Plan. (AR 2-18.)

14. In its May 26, 2000 letter, EPA approved all of the 1994 Basin Plan with the exception of the one sentence suspending the application of the conditional MUN use for waters identified by an asterisk ("*") for the MUN use in Table 2-1 of the Basin Plan. (AR 2-3, 12-13.)

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ATTACHMENT 2

II. LEGAL BACKGROUND

A. Standard of Review

1. This is an action for judicial review of an agency action brought under the Administrative Procedures Act ("APA"), 5 U.S.C. §§ 551 *et seq.* The standard of review under the APA is set forth in 5 U.S.C. § 706. The standards enumerated in 5 U.S.C. § 706 act independently of one another, such that an agency's action must be overturned if it falls within any of the provisions of section 706(2). See Olenhouse v. Commodity Credit Corp., 42 F.3d 1560, 1575 n.2 (10th Cir. 1994).

2. In reviewing the propriety of EPA's action, the court must conduct a review of the agency's actions that is "searching and careful," Mt. Graham Red Squirrel v. Espy, 986 F.2d 1568, 1571 (9th Cir. 1993), and must determine whether EPA "considered the relevant factors and whether there has been a clear error of judgment." Natural Resources Defense Council, Inc. v. U.S. Environmental Protection Agency, 966 F.2d 1292, 1297 (9th Cir. 1992); see Southern Pacific Trans. Co. v. Interstate Commerce Comm'n, 871 F.2d 838, 846 (9th Cir. 1989)(the searching and careful inquiry determines whether the agency has articulated a "rational connection between the facts found and the choice made"); see also Citizens to Preserve Overton Park v. Volpe, 401 U.S. 402, 415, 91 S.Ct. 814, 823, 28 L.Ed. 2d 136 (1971)(the APA standard of review does not shield agency action from a "thorough, probing, in-depth review").

3. The court "may not supply a reasoned basis for the agency's actions that the agency itself has not given." Motor Vehicle Mfrs. Assn. v. State Farm Mutual Auto. Ins. Co., 463 U.S. 29, 43, 103 S.Ct. 2856, 77 L.Ed.2d 443 (1983). Thus, the agency's actions "must be upheld, if at all, on the basis articulated by the agency itself." Id. at 50.

4. The "focal point for judicial review should be the administrative record already in existence, not some new record made initially in the reviewing court." Camp v. Pitts, 411 U.S. 138, 142 (1973); see 5 U.S.C. §706 ("the court shall review the whole record or those parts of it cited by a party"). In some circumstances, however, the court may consider evidence not found in the administrative record – often referred to as "extra record evidence" – to determine whether the agency acted within the scope of its authority and whether its action was justified. See

Southwest Center for Biological Diversity v. U.S. Forest Service, 100 F.3d 1443, 1450 (9th Cir. 1996).

B. The Clean Water Act

1. Under the CWA, States are delegated the primary responsibility for setting water quality standards. 33 U.S.C. §§ 1313(c), (e)(3)(F); see Chevron U.S.A., Inc. v. Hammond, 726 F.2d 483, 489 (9th Cir. 1984).

2. Each State must set "water quality standards" which consist of "the designated uses of the navigable waters involved and the water quality criteria for such waters based upon such uses." 33 U.S.C. § 1313(c)(2)(A); 40 C.F.R. § 131.3(i). Generally, "uses" are the water quality goals for the water body to be achieved and protected (e.g., recreation, aquatic life). At a minimum, States must revise their water quality standards to reflect "existing uses" (i.e. those uses actually attained in the water body on or after November 28, 1975.) 40 C.F.R. §§ 131.3(e), 131.10(i). In contrast to uses, "water quality criteria" are the in-stream or ambient water quality conditions necessary to protect the designated uses of a water body. 40 C.F.R. § 131.3(b).

3. Water quality criteria can be expressed either as numeric or narrative criteria. Numeric criteria are specific chemical concentration limits (e.g., no more than 5 mg/l of pollutant X), and narrative criteria are descriptive statements rather than specific numeric limits (e.g., "no toxics in toxic amounts"). Numeric criteria are usually preferred because of their easy calculation and enforceability, and are required for all toxic pollutants listed pursuant to CWA Section 307(a)(1) [33 U.S.C. § 1317(a)(1)] for which advisory criteria guidance has been published under CWA Section 304(a) [33 U.S.C. § 1314(a)], the discharge or presence of which in the affected waters could reasonably be expected to interfere with the designated uses adopted by the State. 33 U.S.C. § 1313(c)(2)(B).

4. Under CWA section 304(a), EPA is required to publish new and revised "criteria documents" to help the States develop water quality criteria that reflect the latest scientific knowledge. 33 U.S.C. § 1314(a)(1). EPA regulations further provide that States should develop numeric criteria based on the EPA's criteria guidance under CWA section 304(a), EPA's criteria guidance modified to reflect site-specific conditions, or other scientifically defensible methods.

See 40 C.F.R. § 131.11(b)(1); 48 Fed. Reg. 51,400, 51,411 (1983). These requirements ensure that the criteria adopted by the States are tailored to each State's own particular conditions.

5. Where the EPA has published numeric criteria guidance for specific toxic pollutants under CWA section 304(a) [33 U.S.C. § 1314(a)], and it is determined that the specific pollutant can reasonably be expected to interfere with the States' designated uses of their waters, the States must adopt numeric water quality criteria for such toxic pollutants. 33 U.S.C. § 1313(c)(2)(B). In lieu of adopting numeric criteria, EPA allows States to adopt a translator procedure to translate its narrative criteria into numeric criteria. (See 57 Fed. Reg. 60853, 60873 (Dec. 22, 1992)). For toxic pollutants, where a State adopts narrative criteria to protect designated uses, the State must "provide information identifying the method by which the State intends to regulate point source discharges of toxic pollutants on water quality limited segments based on such narrative criteria." 40 C.F.R. § 131.11(a)(2). These procedures provide the public and regulated community with fair notice of what is expected of them, and also ensure that the narrative criteria have clear bounds and a rational basis for their implementation.

6. Once the State adopts new or revised water quality standards, the State must submit these standards to EPA for either approval or disapproval. 33 U.S.C. §1313(c). Upon approval by EPA, the State standards become the "applicable water quality standards" for purposes of the CWA. 33 U.S.C. § 1313(c)(3); see 33 U.S.C. § 1313(c)(2)(A); Alaska Clean Water Alliance v. Clarke, No. C96-1762R, 1997 U.S. Dist. LEXIS 11144, at *8 (W.D. Wash., July 8, 1997) ("Congress did not intend new or revised state standards to be effective until after EPA had reviewed and approved them").

7. If EPA determines, within 60 days after submission of a new or revised State water quality standard, that it meets requirements of the CWA, that standard becomes the "applicable water quality standard" for the applicable waters of that State. 33 U.S.C. §1313(c)(3); 40 C.F.R. § 131.21(a)(1). Alternatively, if EPA rejects a State's proposed standards, EPA must so notify the State within 90 days of submission, and specify the changes necessary for the State to make in order to meet the requirements. 33 U.S.C. § 1313(c)(3); 40 C.F.R. § 131.21(a)(2).

ATTACHMENT 2

III. CONCLUSIONS OF LAW

1. Plaintiffs have standing to bring their first claim for relief, including Plaintiffs' challenge to EPA's disapproval of the LA-RWQCB's implementation policy.

2. EPA's May 26, 2000 letter, including its disapproval of the LA-RWQCB's implementation policy, was a final agency action subject to review under the APA. See Defenders of Wildlife v. Browner, 909 F.Supp. 1342, 1346 (D. Ariz. 1995)("The EPA took final action when it issued disapprovals [of Arizona's proposed water quality standards] on September 9, 1993, and April 29, 1994."); Appalachian Power Co. v. Environmental Protection Agency, 208 F.3d 1015 (D.C. Cir. 2000); see also Bennett v. Spear, 520 U.S. 154, 177-78, 117 S.Ct. 1154, 137 L.Ed.2d 281 (1997)(quotations omitted); State of Alaska v. United States Environmental Protection Agency, 244 F.3d 748, 750 (9th Cir. 2001).

3. Plaintiffs' first claim for relief, including plaintiffs' challenge to EPA's disapproval of the implementation policy, is ripe for judicial review. See Municipality of Anchorage v. City of Craig, 980 F.2d 1320, 1323 (9th Cir. 1992); Trustees for Alaska v. Hodel, 806 F.2d 1378, 1381 (9th Cir. 1986).

4. EPA's action to partially approve and partially disapprove the 1994 Basin Plan amendment was arbitrary, capricious, an abuse of EPA's discretion, and contrary to the requirements of the CWA.

5. The water quality standards set by the State must be consistent with the requirements of the CWA. Except as necessary to protect existing uses, the CWA does not require any water quality standard more stringent than necessary for the protection of the CWA's default fishable/swimmable use. See 33 U.S.C. § 1251(a)(2) (goal of CWA is to provide, "wherever attainable," "for the protection and propagation of fish, shellfish, and wildlife and provide[] for recreation on the water"); see also Friends of the Earth, Inc. v. Gaston Copper Recycling Corp., 204 F.3d 149, 156 (4th Cir. 2000)("[o]ne of the well-recognized aims of the Act is to ensure that the nation's waterways are fishable and swimmable").

6. EPA reviews new or revised water quality standards for compliance with the minimum requirements of the CWA. 33 U.S.C. § 1313(c)(3). If EPA determines that a State's

standards meet these requirements, EPA must approve such standards as consistent with the CWA. Id.

7. Nothing in the administrative record before EPA suggests an intent on the part of either the State or the LA-RWQCB to impose effluent limitations associated with the MUN use on waters to which plaintiffs discharge. In fact, the administrative record before EPA clearly indicates to the contrary. (AR 811, 859-60, 862-71, 1104-05, 1107-08, 1144, 1472-74, 1479.)

8. The LA-RWQCB did not designate the MUN use for those waters identified by an asterisk ("*") in Table 2-1 of the Basin Plan because it expressly indicated that such designation was conditioned upon a future "detailed review of criteria in the State Sources of Drinking Water Policy" and an identification of "those waters in the Region that should be excepted from the MUN use designation." (AR 860).

9. Because the LA-RWQCB did not unconditionally designate an MUN use for those waters identified by an asterisk ("*") in Table 2-1 of the 1994 Basin Plan, it was an abuse of discretion for EPA to simultaneously approve the MUN use designation and disapprove the LA-RWQCB's implementation policy. Here, there is no dispute that the water bodies regulated by the LA-RWQCB met the minimum requirements of the CWA, since each of the waters were identified in the Basin Plan as having "fishable/swimmable" uses. (AR 862-71.) Moreover, because the MUN use was only conditionally designated, it was not inconsistent with the CWA for the State to defer implementation of that use pending completion of further study. (AR 859-60). Thus, EPA overstepped its bounds and abused its discretion under the CWA when it approved the LA-RWQCB's conditional designation of the MUN use and disapproved the LA-RWQCB's corresponding implementation policy.

10. When the LA-RWQCB adopted narrative water quality criteria for toxic pollutants governed by 33 U.S.C. § 1313(c)(2)(B) in the 1994 Basin Plan, EPA improperly failed to ensure that the LA-RWQCB adopted a translator procedure to translate its narrative criteria into numeric criteria. Absent a translator procedure, the LA-RWQCB's narrative criteria did not satisfy 33 U.S.C. § 1313(c)(2)(B). In addition, in reviewing the LA-RWQCB's narrative criteria relating to toxic pollutants, EPA improperly failed to ensure that the LA-RWQCB set forth

sufficient "information identifying the method by which the State intends to regulate the point source discharges of toxic pollutants on water quality limited segments based on such narrative criteria." 40 C.F.R. § 131.11(a)(2); see AR 294.

11. Plaintiffs' Second and Third Claims for Relief are moot in light of the court's Order set forth below.

ORDER

Based on the findings of fact and conclusions of law set forth above, IT IS HEREBY ORDERED as follows:

1. Plaintiffs' motion for summary judgment as to their first claim for relief is GRANTED for the reasons stated above. The matter is remanded to the EPA to, consistent with the court's decision as set forth above:

a. approve the 1994 Basin Plan and implementation policy in whole;

b. disapprove the 1994 Basin Plan and implementation policy in whole; or

c. partially approve and partially disapprove the 1994 Basin Plan in such a way as to preserve the LA-RWQCB's intention not to immediately subject the waters identified by an asterisk ("*") for the MUN use designation in Table 2-1 of the 1994 Basin Plan to the stringent criteria necessary to protect the MUN use designation for such waters absent further study.

2. EPA shall take action in accordance with paragraph 1 of this order within 60 days from the date of filing of this order.

3. Plaintiffs' motions for summary judgment as to their second and third claims for relief are moot in light of the court's order.

4. Defendants' motion for summary judgment is DENIED.

5. Defendants' motion to strike extra-record evidence is DENIED.

6. On remand, EPA should make its determination in accordance with the findings of fact and conclusions of law in this order, and consistent with the administrative record and

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Doc#1294687

ATTACHMENT 2

other evidence submitted to this court.

Dated: Dec. 18, 2001

By: _____
The Honorable Manuel L. Real
United States District Judge

SCANNED

Presented by:

DATED: December 17, 2001

DOWNEY, BRAND, SEYMOUR & ROHWER LLP

By: _____
TORY E. GRIFFIN
Attorneys for Plaintiffs

Approved as to form by:

DATED: December ___, 2001

UNITED STATES DEPARTMENT OF JUSTICE
ENVIRONMENTAL DEFENSE SECTION

By: [Signature on Next Page]
Pamela S. Tonglao
Attorneys for Defendants

DOWNEY, BRAND, SEYMOUR & ROHWER LLP

ATTACHMENT 2

other evidence submitted to this court.

Dated: _____

By: _____
The Honorable Manuel L. Real
United States District Judge

Presented by:

DATED: December ___, 2001

DOWNEY, BRAND, SEYMOUR & ROHWER LLP

By: _____
TORY E. GRIFFIN
Attorneys for Plaintiffs

Approved as to form by:

DATED: December 14, 2001

UNITED STATES DEPARTMENT OF JUSTICE
ENVIRONMENTAL DEFENSE SECTION

By: Pamela S. Tonglao
Pamela S. Tonglao
Attorneys for Defendants

DOWNEY, BRAND, SEYMOUR & ROHWER LLP

SCANNED

Doc#1294687

ATTACHMENT 3

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, Ca. 94105

FEB 15 2002

(In Reply, refer to WTR-5)

Celeste Cantú, Executive Director
California State Water Resources Control Board
P.O. Box 100
Sacramento, CA 95812-0100

Dear Ms. Cantú:

On May 26, 2000, the U.S. Environmental Protection Agency ("EPA") took action on amendments to the *Water Quality Control Plan, Los Angeles Region* ("Basin Plan") adopted by the Los Angeles Regional Water Quality Control Board ("Regional Board") on March 27, 1989, October 22, 1990, June 13, 1994, and January 27, 1997 (Regional Board Resolutions 89-03, 90-11, 94-07, and 97-02). In that action, EPA approved the 1989, 1990, and 1997 amendments and partially approved/partially disapproved the 1994 amendment. On August 22, 2000, the City of Los Angeles, City of Burbank, City of Simi Valley, and the County Sanitation Districts of Los Angeles County challenged EPA's water quality standards action in the U.S. District Court. On December 18, 2001, the court issued an order remanding the matter to EPA to take further action on the 1994 Basin Plan amendment consistent with the court's decision. [Attachment 1] Specifically, the court required EPA to approve the 1994 Basin Plan in whole; disapprove the 1994 Basin Plan in whole; or partially approve and partially disapprove the 1994 Basin Plan,

> "in such a way as to preserve the LA-RWQCB's intention not to immediately subject the waters identified by an asterisk ("*") for the MUN use designation in Table 2-1 of the 1994 Basin Plan to the stringent criteria necessary to protect the MUN use designation for such waters absent further study."

Id. Accordingly, EPA is today revising its May 26, 2000 decision as follows:

I. Municipal and Domestic Supply Designation ("MUN")

In today's action, EPA approves in whole the 1994 Basin Plan. EPA bases its approval on the court's finding that the Regional Board's identification of waters with an asterisk ("*") in conjunction with the implementation language at page 2-4 of the 1994 Basin Plan, was intended "to only conditionally designate and not finally designate as MUN those water bodies identified by an ("*") for the MUN use in Table 2-1 of the Basin Plan, without further action."

Court Order at p. 4. Thus, the waters identified with an ("*") in Table 2-1 do not have MUN as a designated use until such time as the State undertakes additional study and modifies its Basin Plan.[1] Because this conditional use designation has no legal effect, it does not constitute a new water quality standard subject to EPA review under section 303(c)(3) of the Clean Water Act ("CWA"). 33 U.S.C. § 1313(c)(3).

EPA notes that there are certain waterbodies identified by an asterisk ("*") in Table 2-1 which are also identified with an E or I indicating that the MUN use is either "existing" or "intermittent". See 1994 Basin Plan, Table 2-1, footnotes. For any discharge permits to these waterbodies, EPA expects the State to continue to protect any beneficial uses that are actually being attained in the waterbody as required by 40 C.F.R. § 131.12(a)(1) and the State's antidegradation policy. State Board Resolution No. 68-16.

II. Narrative Criteria Applicable to Toxic Pollutants

Pursuant to the court's order, EPA has also reviewed the new or revised narrative criteria in the 1994 Basin Plan to determine consistency with section 303(c)(2)(B) of the CWA, 33 U.S.C. § 1313(c)(2)(B), and with the regulations at 40 C.F.R. § 131.11(a)(2). See Court Order at p. 9, para. 10.

Section 303(c)(2)(B) of the CWA requires states to adopt specific numeric criteria for those toxic pollutants listed pursuant to section 307(a)(2) for which section 304(a) criteria have been adopted.[2] If a state does not adopt numeric criteria for the priority toxic pollutants for which 304(a) criteria have been adopted, EPA guidance allows a state to satisfy section 303(c)(2)(B) by adopting a translator procedure to translate narrative criteria for priority toxic pollutants. 57 Fed. Reg. 60853, 60873 (Dec. 22, 1992). In 1994 when the Basin Plan amendment was adopted by the State, the Basin Plan did not contain all of the numeric criteria for toxic pollutants as required by section 303(c)(2)(B) and the State had not developed a translator procedure. Because California had not satisfied the requirement of section 303(c)(2)(B), on May 18, 2000, EPA promulgated the California Toxics Rule ("CTR") in which it established the specific numeric criteria for the priority toxic pollutants for California, as required by CWA section 303(c)(2)(B). 65 Fed. Reg. 31682, 31686-87 (May 18, 2000). In addition, in December 1992, EPA had promulgated the National Toxics Rule ("NTR") which

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[1]It is EPA's understanding that the Regional Board will commence review of the MUN use designations to identify appropriate beneficial uses before its next triennial review. We will work closely with the Regional Board to ensure that modifications to use designations are completed consistent with the Clean Water Act and federal regulations.

[2]Consistent with the regulatory definition in 40 C.F.R. § 131.3(d) which states that "toxic pollutants" means "those pollutants listed by the Administrator under section 307(a) of the Act," EPA uses the terms "toxic pollutants" and "priority toxic pollutants" interchangeably because the 307(a) pollutants are known as priority toxic pollutants.

also established certain numeric criteria for toxic pollutants in California as required by section 303(c)(2)(B). 57 Fed. Reg. 60848 (Dec. 22, 1992). Thus, any need for California to have a "translator" in the absence of numeric criteria to satisfy section 303(c)(2)(B) has been superceded by the existence of numeric criteria.

In addition to the requirements of section 303(c)(2)(B), 40 C.F.R. § 131.11(a)(2) requires that

> "[w]here a State adopts narrative criteria for toxic pollutants to protect designated uses, the State must provide information identifying the method by which the State intends to regulate point source discharges of toxic pollutants on water quality limited segments based on such narrative criteria."

The 1994 Basin Plan includes several new or revised narrative criteria; however, only two new and one revised narrative water quality criteria might be used to regulate point source discharges of priority toxic pollutants on water quality limited segments.[3] These three narrative criteria are Bioaccumulation, Polychlorinated Biphenyls ("PCBs"), and Toxicity. As noted above, for certain priority toxic pollutants, the NTR or CTR provide specific numeric criteria and thus no further information is required under 40 C.F.R. § 131.11(a)(2). For any other priority toxic pollutants, or in order to use narrative criteria in lieu of the promulgated numeric criteria, the State must provide information regarding how it will regulate point source discharges to water quality limited segments using these narratives. Accordingly, EPA has evaluated whether the State has provided information identifying the methods for implementing these three narratives. Each narrative is discussed separately below: [New criteria and additions to existing criteria are *italicized* and deletions to existing criteria are in ~~strikeout~~ format.]

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[3]The 1994 Basin Plan also contains a criterion for "Chemical Constituents" which states,

> "*Surface waters shall not contain concentrations of chemical constituents in amounts that adversely affect any designated use.*
>
> Waters designated for use as Domestic or Municipal Supply (MUN) shall not contain concentrations of chemical constituents in excess of the limits specified in the following provisions of Title 22 of the California Code of Regulations which are incorporated by reference into this plan: Table 64431-A of Section 64431 (Inorganic Chemicals), Table 64431-B of Section 64431 (Fluoride), and Table 64444-A of Section 6444 (Organic Chemicals). *This incorporation by reference is prospective including future changes to the incorporated provisions as the changes take effect.* (See Tables 3-5, 3-6, and 3-7.)" 1994 Basin Plan at p. 3-8.

This Chemical Constituents criterion functions as a numeric criterion which relies on MCLs in the State's Title 22 regulations to protect waters with the MUN use designation. Consequently, no further information is required under 40 C.F.R. § 131.11(a)(2) and this criterion is fully approved.

ATTACHMENT 3

1. **Bioaccumulation**

Narrative Objective for Bioaccumulation:

"Toxic pollutants shall not be present at levels that will bioaccumulate in aquatic life to levels which are harmful to aquatic life or human health." 1994 Basin Plan at p. 3-8.

EPA approved this narrative criterion on May 26, 2000. In response to the court remand, EPA evaluated whether California had provided information identifying how it would use this criterion to regulate point source discharges of toxic pollutants to water quality limited segments. While the State has procedures to calculate water quality based effluent limitations (WQBELs) for priority toxic pollutants using the numeric water quality criteria identified in the California Toxics Rule (see *Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California* State Board, 2000 ("State Implementation Policy" or "SIP") at pp. 5-12), EPA has not identified other information in the Basin Plan, the California Toxics Rule, or State Implementation Policy which describe how the State intends to regulate point source discharges of other priority toxic pollutants using this bioaccumulative narrative criterion. Thus, until such time as the State provides information as required by 40 C.F.R. § 131.11(a)(2), EPA does not consider its May 26, 2000 approval of the bioaccumulation narrative criterion to extend to the use of this criterion for purposes of regulating point source discharges of toxic pollutants on water quality limited segments.[4] When EPA determines that the State has provided the information required by 40 C.F.R. § 131.11(a)(2), the State may then use this narrative criterion for purposes of regulating discharges from point sources of toxic pollutants to water quality limited segments.

2. **Polychlorinated Biphenyls (PCBs)**

Narrative Objective for PCBs:

"The purposeful discharge of PCBs (the sum of chlorinated biphenyls whose analytical characteristics resemble those of Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1260) to waters of the Region, or at locations where the waste can subsequently reach waters of the Region, is prohibited." 1994 Basin Plan at p. 3-15.

EPA approved this narrative criterion on May 26, 2000. In response to the court remand, EPA evaluated whether California had provided information identifying how it would use this criterion to regulate point source discharges of toxic pollutants to water quality limited segments. This narrative criterion for PCBs is best described as a discharge prohibition. Thus, in its own terms it provides sufficient information for its implementation to satisfy 40 C.F.R.

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[4]Because the requirements of 40 C.F.R. § 131.11(a)(2) are only triggered for the regulation of point sources discharges of priority toxic pollutants on water quality limited segments, the narrative criterion would be applicable for any other purpose.

§ 131.11(a)(2). Therefore, EPA affirms its May 26, 2000 approval of the PCB narrative criterion.

The 1994 Basin Plan also includes a revised criterion for the pass-through or uncontrollable discharges of PCBs which is numeric and therefore does not trigger the requirements of 40 C.F.R. § 131.11(a)(2).[5]

3. Toxicity

Narrative and Numeric Objectives for Toxicity:

"All waters shall ~~not contain~~ *be maintained free of* toxic substances in concentrations that are toxic to, or that produce detrimental physiological responses in, human, plant, animal, or aquatic life. Compliance with this objective will be determined by use of indicator organisms, analyses of species diversity, population density, growth anomalies, bioassays of appropriate duration ~~(SWRCB and Department of Fish and Game has issued "Guidelines for Performing Static Acute Toxicity Fish Bioassays in Municipal and Industrial Wastewaters - July 1976")~~ or other appropriate methods as specified by the *State or* Regional Board.

The survival of aquatic life in surface waters, subjected to waste discharge or other controllable water quality factors, shall not be less than that for the same water body in areas unaffected by the waste discharge, or ~~when necessary for~~ other control water ~~that is consistent with the requirements for "experimental water" (dilution water) as described in the guidelines. As a minimum, compliance with this objective as stated in the previous sentence shall be evaluated with a 96-hour bioassay.~~

There shall be no acute toxicity in ambient waters, including mixing zones. The acute toxicity objective for discharges [see previous paragraph] *dictates that the average survival in undiluted effluent for any three consecutive 96-hour static or continuous flow bioassay tests shall be at least 90%, with no single test having less than 70% survival when using an established USEPA, State Board, or other protocol authorized by the Regional Board.*

There shall be no chronic toxicity in ambient waters outside of mixing zones. To determine compliance with this objective, critical life stage tests for at least three species

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[5]**Numeric Objective for PCBs:**

Pass-through or uncontrollable discharges to waters of the Region, or at locations where the waste can subsequently reach water of the Region, are limited to 70 pg/L (30 day average) for protection of human health and 14 ng/L and 30 ng/L (daily average) to protect aquatic life in inland fresh waters and estuarine waters respectively. 1994 Basin Plan at p. 3-15.

with approved testing protocols shall be used to screen for the most sensitive species. The test species used for screening shall include a vertebrate, an invertebrate, and an aquatic plant. The most sensitive species shall then be used for routine monitoring. Typical endpoints for chronic toxicity tests include hatchability, gross morphological abnormalities, survival, growth, and reproduction.

~~In addition, effluent limits based upon acute bioassays of effluents will be prescribed where appropriate, additional numerical receiving water objectives for specific toxicants will be established as sufficient data become available, and source control of toxic substances will be encouraged.~~

Effluent limits for specific toxicants can be established by the Regional Board to control toxicity identified under Toxicity Identification Evaluations (TIEs)." 1994 Basin Plan at pp. 3-16 and 3-17.

EPA approved this narrative criterion for toxicity on May 26, 2000. In response to the court remand, EPA evaluated whether California had provided information identifying how it would use this criterion to regulate point source discharges of toxic pollutants to water quality limited segments.

The first and second paragraphs delete reference to 1976 acute toxicity test guidance that, in the NPDES program, has been superseded by acute and chronic toxicity test methods required by 40 C.F.R. Part 136, Table 1A and the State Implementation Policy. SIP at pp. 28-30.

The third paragraph is new and contains detailed information regarding the implementation of the narrative acute toxicity criterion for regulation of point source discharges. This information specifies the use of approved acute toxicity test methods, specifies that there can be no mixing zones for acute toxicity (see also SIP at p. 15 and Appendix 1), and identifies numeric WQBELs for acute toxicity (i.e., percent survival requirements). This language itself provides sufficient detail for the regulation of discharges to satisfy 40 C.F.R. § 131.11(a)(2). Therefore, EPA fully approves the narrative acute toxicity criterion.

The fourth paragraph is also new and contains detailed information regarding the implementation of the narrative chronic toxicity criterion. This information specifies the test organisms and test endpoints and requires that no chronic toxicity be present outside a mixing zone. In addition, the State Implementation Policy contains chronic toxicity control provisions in the form of approved test protocols and requirements for TIE/TRE procedures. SIP at pp. 28-30. The fifth paragraph, which is also new, further directs the Regional Board to establish effluent limitations for specific toxicants which have been identified with the TIE procedures. This is also now required by the SIP which requires chronic toxicity effluent limitations where discharges show reasonable potential. All of this information, in conjunction with the regulations at 40 C.F.R. § 122.44(d)(1)(vi), provides sufficient detail for the regulation of discharges to satisfy 40 C.F.R. § 131.11(a)(2). Therefore, EPA fully approves the narrative chronic toxicity criterion.

ATTACHMENT 3

EPA intends to continue working closely with the Regional Board during the triennial review process. Our aim is to take prompt action on any further Basin Plan amendments and assist the Regional Board as needed. If there are any questions regarding our action, please contact Robyn Stuber, of my staff, at (415) 972-3524. As always, we look forward to continued cooperation with the State in achieving our mutual environmental goals.

Sincerely,

Alexis Strauss 15 February 2002
Director, Water Division

cc: Dennis Dickerson, Los Angeles Regional Water Quality Control Board
Stan Martinson, State Water Resources Control Board, Division of Water Quality
Susan A. Warner, North Coast Regional Water Quality Control Board
Loretta K. Barsamian, San Francisco Bay Regional Water Quality Control Board
Roger W. Briggs, Central Coast Regional Water Quality Control Board
Gary M. Carlton, Central Valley Regional Water Quality Control Board
Loren J. Harlow, Central Valley Regional Water Quality Control Board, Fresno Office
James C. Pedri, Central Valley Regional Water Quality Control Board, Redding Office
Thomas R. Pinkos, Central Valley Regional Water Quality Control Board, Sacramento Office
Harold J. Singer, Lahontan Regional Water Quality Control Board
Phil Gruenberg, Colorado River Basin Regional Water Quality Control Board
Gerard J. Thibeault, Santa Ana Regional Water Quality Control Board
John Robertus, San Diego Regional Water Quality Control Board
Diane Noda, U.S. Fish and Wildlife Service, Ventura Office
Jim Bartel, U.S. Fish and Wildlife Service, Carlsbad Office
James Lecky, National Marine Fisheries Service, Southwest Region
Jennifer Wigal, U.S. Environmental Protection Agency, Office of Water (4305)

APPENDIX A - TABLE A1
SAN GABRIEL RIVER ESTUARY - COPPER

Sample Date	Source	Location	Qualifier	Dissolved Copper (ug/L)	Method	PQL/RL (ug/L)	Dissolved Copper Marine CCC (ug/L)	Dissolved Copper Marine CMC (ug/L)	Is Sample Usable? (1=Yes)	4-Day Average Concentration	Does Sample Exceed CCC (1=Yes)	Does Sample Exceed CMC (1=Yes)
9/12/2007	LADWP	HCS-01-001A		1.21	EPA 1640m	0.01	3.10	4.80	1	1.21		
9/12/2007	LADWP	HCS-01-002A		1.05	EPA 1640m	0.01	3.10	4.80	1	1.05		
9/12/2007	LADWP	HCS-01-002B		1.04	EPA 1640m	0.01	3.10	4.80	1	1.04		
9/12/2007	LADWP	HCS-01-003B		1.13	EPA 1640m	0.01	3.10	4.80	1	1.13		
9/12/2007	LADWP	HCS-01-RW_SGCP		1.85	EPA 1640m	0.01	3.10	4.80	1	1.85		
9/12/2007	LADWP	HCS-01-RW12		0.98	EPA 1640m	0.01	3.10	4.80	1	0.98		
9/17/2007	LADWP	HCS-02-001A		0.71	EPA 1640m	0.01	3.10	4.80	1	0.71		
9/17/2007	LADWP	HCS-02-001B		1.06	EPA 1640m	0.01	3.10	4.80	1	1.06		
9/17/2007	LADWP	HCS-02-002A		0.7	EPA 1640m	0.01	3.10	4.80	1	0.7		
9/17/2007	LADWP	HCS-02-002B		0.6	EPA 1640m	0.01	3.10	4.80	1	0.6		
9/17/2007	LADWP	HCS-02-003B		1.01	EPA 1640m	0.01	3.10	4.80	1	1.01		
9/17/2007	LADWP	HCS-02-RW_SGCP		1.97	EPA 1640m	0.01	3.10	4.80	1	1.97		
9/17/2007	LADWP	HCS-02-RW12		1.43	EPA 1640m	0.01	3.10	4.80	1	1.43		
12/4/2007	LACSD	RA2		1.16	EPA 200.8	0.5	3.10	4.80	1	1.16		
12/4/2007	LACSD	RA2		1.06	EPA 200.8	0.5	3.10	4.80	1	*		
12/4/2007	LACSD	RA2		1.18	EPA 200.8	0.5	3.10	4.80	1	1.13		
2/12/2008	LACSD	R6	E	1.34	EPA 200.8	5	3.10	4.80		**		
2/12/2008	LACSD	R7	E	1.11	EPA 200.8	5	3.10	4.80		**		
2/12/2008	LACSD	R8	E	1.33	EPA 200.8	5	3.10	4.80		**		
2/12/2008	LACSD	RA2	E	1.4	EPA 200.8	5	3.10	4.80		**		
2/29/2008	LACSD	R6		0.81	EPA 1640m	0.02	3.10	4.80	1	0.81		
2/29/2008	LACSD	R6	E	1.72	EPA 200.8	5	3.10	4.80		**		
2/29/2008	LACSD	R7		1.1	EPA 1640m	0.02	3.10	4.80	1	1.1		
2/29/2008	LACSD	R7	E	2.02	EPA 200.8	5	3.10	4.80		**		
2/29/2008	LACSD	R8		0.78	EPA 1640m	0.02	3.10	4.80	1	0.78		
2/29/2008	LACSD	R8	E	1.69	EPA 200.8	5	3.10	4.80		**		
2/29/2008	LACSD	RA2	E	1.49	EPA 200.8	5	3.10	4.80		**		
2/29/2008	LACSD	RA-2		0.66	EPA 1640m	0.02	3.10	4.80	1	0.66		
3/10/2008	LACSD	R6	E	0.73	EPA 200.8	5	3.10	4.80		**		
3/10/2008	LACSD	R7	E	0.56	EPA 200.8	5	3.10	4.80		**		
3/10/2008	LACSD	R8	E	0.55	EPA 200.8	5	3.10	4.80		**		
3/10/2008	LACSD	RA2	E	1.55	EPA 200.8	5	3.10	4.80		**		
3/11/2008	LACSD	R6		1.09	EPA 1640m	0.02	3.10	4.80	1	1.09		
3/11/2008	LACSD	R6	E	0.56	EPA 200.8	5	3.10	4.80		**		
3/11/2008	LACSD	R7		0.69	EPA 1640m	0.02	3.10	4.80	1	0.69		
3/11/2008	LACSD	R7	E	0.67	EPA 200.8	5	3.10	4.80		**		
3/11/2008	LACSD	R8		1.07	EPA 1640m	0.02	3.10	4.80	1	1.07		
3/11/2008	LACSD	R8	E	0.99	EPA 200.8	5	3.10	4.80		**		
3/11/2008	LACSD	RA2	E	1.41	EPA 200.8	5	3.10	4.80		**		
3/11/2008	LACSD	RA-2		1.85	EPA 1640m	0.02	3.10	4.80	1	1.85		
4/1/2008	LACSD	R6	E	1.95	EPA 200.8	5	3.10	4.80		**		
4/1/2008	LACSD	R7	E	1.37	EPA 200.8	5	3.10	4.80		**		
4/1/2008	LACSD	R8	E	1.38	EPA 200.8	5	3.10	4.80		**		
4/1/2008	LACSD	RA2	E	1.76	EPA 200.8	5	3.10	4.80		**		
4/9/2008	LACSD	R6		2.08	EPA 1640m	0.02	3.10	4.80	1	2.08		
4/9/2008	LACSD	R6	E	1.86	EPA 200.8	5	3.10	4.80		**		
4/9/2008	LACSD	R7		1.33	EPA 1640m	0.02	3.10	4.80	1	*		
4/9/2008	LACSD	R7		3.14	EPA 200.8	2.5	3.10	4.80	1	2.24		
4/9/2008	LACSD	R8		1.17	EPA 1640m	0.02	3.10	4.80	1	1.17		
4/9/2008	LACSD	R8	E	1.53	EPA 200.8	5	3.10	4.80		**		
4/9/2008	LACSD	RA2	E	1.41	EPA 200.8	5	3.10	4.80		**		
4/9/2008	LACSD	RA-2		1.46	EPA 1640m	0.02	3.10	4.80	1	1.46		
5/5/2008	LACSD	R6	E	1.23	EPA 200.8	5	3.10	4.80		**		
5/5/2008	LACSD	R7	E	0.69	EPA 200.8	5	3.10	4.80		**		
5/5/2008	LACSD	R8	E	1.08	EPA 200.8	5	3.10	4.80		**		
5/5/2008	LACSD	RA2	E	1.23	EPA 200.8	5	3.10	4.80		**		
5/7/2008	LACSD	R6		0.95	EPA 1640m	0.02	3.10	4.80	1	0.95		
5/7/2008	LACSD	R6	E	0.96	EPA 200.8	5	3.10	4.80		**		
5/7/2008	LACSD	R7		0.62	EPA 1640m	0.02	3.10	4.80	1	0.62		
5/7/2008	LACSD	R7	E	0.69	EPA 200.8	5	3.10	4.80		**		
5/7/2008	LACSD	R8		1.18	EPA 1640m	0.02	3.10	4.80	1	1.18		
5/7/2008	LACSD	R8	E	1.29	EPA 200.8	5	3.10	4.80		**		
5/7/2008	LACSD	RA2	E	0.88	EPA 200.8	5	3.10	4.80		**		
5/7/2008	LACSD	RA-2		0.86	EPA 1640m	0.02	3.10	4.80	1	0.86		
6/3/2008	LACSD	R6	E	1.08	EPA 200.8	5	3.10	4.80		**		

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SAN GABRIEL RIVER ESTUARY - COPPER

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6/3/2008	LACSD	R7	E	1.09	EPA 200.8	5	3.10	4.80		**		
6/3/2008	LACSD	R8	E	0.96	EPA 200.8	5	3.10	4.80		**		
6/3/2008	LACSD	RA2	E	0.98	EPA 200.8	5	3.10	4.80		**		
6/13/2008	LACSD	R6		1.77	EPA 1640m	0.02	3.10	4.80	1	1.77		
6/13/2008	LACSD	R6	E	1.89	EPA 200.8	5	3.10	4.80		**		
6/13/2008	LACSD	R7		1.62	EPA 1640m	0.02	3.10	4.80	1	1.62		
6/13/2008	LACSD	R7	E	1.32	EPA 200.8	5	3.10	4.80		**		
6/13/2008	LACSD	R8		1.03	EPA 1640m	0.02	3.10	4.80	1	1.03		
6/13/2008	LACSD	R8	E	1.45	EPA 200.8	5	3.10	4.80		**		
6/13/2008	LACSD	RA2	E	1.96	EPA 200.8	5	3.10	4.80		**		
6/13/2008	LACSD	RA-2		1.57	EPA 1640m	0.02	3.10	4.80	1	1.57		
7/8/2008	LACSD	R6		2.16	EPA 1640m	0.02	3.10	4.80	1	*		
7/8/2008	LACSD	R7		0.79	EPA 1640m	0.02	3.10	4.80	1	*		
7/8/2008	LACSD	R8		1.19	EPA 1640m	0.02	3.10	4.80	1	*		
7/8/2008	LACSD	RA-2		2.08	EPA 1640m	0.02	3.10	4.80	1	*		
7/9/2008	LACSD	R6		1.38	EPA 1640m	0.02	3.10	4.80	1	1.77		
7/9/2008	LACSD	R7		0.8	EPA 1640m	0.02	3.10	4.80	1	0.80		
7/9/2008	LACSD	R8		0.7	EPA 1640m	0.02	3.10	4.80	1	0.95		
7/9/2008	LACSD	RA-2		0.74	EPA 1640m	0.02	3.10	4.80	1	1.41		
7/16/2008	LACSD	R6		1.55	EPA 1640m	0.02	3.10	4.80	1	*		
7/16/2008	LACSD	R7		1.59	EPA 1640m	0.02	3.10	4.80	1	*		
7/16/2008	LACSD	R8		0.78	EPA 1640m	0.02	3.10	4.80	1	*		
7/16/2008	LACSD	RA-2		1.4	EPA 1640m	0.02	3.10	4.80	1	*		
7/17/2008	LACSD	R6		1.38	EPA 1640m	0.02	3.10	4.80	1	1.47		
7/17/2008	LACSD	R7		0.62	EPA 1640m	0.02	3.10	4.80	1	1.11		
7/17/2008	LACSD	R8		0.33	EPA 1640m	0.02	3.10	4.80	1	0.56		
7/17/2008	LACSD	RA-2		1.55	EPA 1640m	0.02	3.10	4.80	1	1.48		
7/22/2008	LACSD	R7		0.75	EPA 1640m	0.02	3.10	4.80	1	*		
7/22/2008	LACSD	R8		0.71	EPA 1640m	0.02	3.10	4.80	1	*		
7/22/2008	LACSD	RA-2		0.8	EPA 1640m	0.02	3.10	4.80	1	*		
7/25/2008	LACSD	R6		1.77	EPA 1640m	0.02	3.10	4.80	1	1.77		
7/25/2008	LACSD	R7		1.09	EPA 1640m	0.02	3.10	4.80	1	0.92		
7/25/2008	LACSD	R8		0.88	EPA 1640m	0.02	3.10	4.80	1	0.80		
7/25/2008	LACSD	RA-2		0.97	EPA 1640m	0.02	3.10	4.80	1	0.89		
7/30/2008	LACSD	R6		1.17	EPA 1640m	0.02	3.10	4.80	1	*		
7/30/2008	LACSD	R7		0.92	EPA 1640m	0.02	3.10	4.80	1	*		
7/30/2008	LACSD	R8		0.85	EPA 1640m	0.02	3.10	4.80	1	*		
7/30/2008	LACSD	RA-2		1.44	EPA 1640m	0.02	3.10	4.80	1	*		
7/31/2008	LACSD	R6		1.29	EPA 1640m	0.02	3.10	4.80	1	1.23		
7/31/2008	LACSD	R7		1.01	EPA 1640m	0.02	3.10	4.80	1	0.97		
7/31/2008	LACSD	R8		0.85	EPA 1640m	0.02	3.10	4.80	1	0.85		
7/31/2008	LACSD	RA-2		1.16	EPA 1640m	0.02	3.10	4.80	1	1.30		
8/6/2008	LACSD	R6		0.45	EPA 1640m	0.02	3.10	4.80	1	*		
8/6/2008	LACSD	R7	<	0.02	EPA 1640m	0.02	3.10	4.80	1	*		
8/6/2008	LACSD	R8	<	0.02	EPA 1640m	0.02	3.10	4.80	1	*		
8/6/2008	LACSD	RA-2		0.34	EPA 1640m	0.02	3.10	4.80	1	*		
8/7/2008	LACSD	R6		1.42	EPA 1640m	0.02	3.10	4.80	1	0.94		
8/7/2008	LACSD	R7		0.75	EPA 1640m	0.02	3.10	4.80	1	0.39		
8/7/2008	LACSD	R8		0.79	EPA 1640m	0.02	3.10	4.80	1	0.41		
8/7/2008	LACSD	RA-2		1.1	EPA 1640m	0.02	3.10	4.80	1	0.72		
8/13/2008	LACSD	R6		0.9	EPA 1640m	0.02	3.10	4.80	1	*		
8/13/2008	LACSD	R7		1.6	EPA 1640m	0.02	3.10	4.80	1	*		
8/13/2008	LACSD	R8		1.5	EPA 1640m	0.02	3.10	4.80	1	*		
8/13/2008	LACSD	RA-2		1.5	EPA 1640m	0.02	3.10	4.80	1	*		
8/14/2008	LACSD	R6		1.8	EPA 1640m	0.02	3.10	4.80	1	1.35		
8/14/2008	LACSD	R7		1.07	EPA 1640m	0.02	3.10	4.80	1	1.34		
8/14/2008	LACSD	R8		1.03	EPA 1640m	0.02	3.10	4.80	1	1.27		
8/14/2008	LACSD	RA-2		1.61	EPA 1640m	0.02	3.10	4.80	1	1.56		
8/19/2008	LACSD	R6		1.12	EPA 1640m	0.02	3.10	4.80	1	*		
8/19/2008	LACSD	R7		0.99	EPA 1640m	0.02	3.10	4.80	1	*		
8/19/2008	LACSD	R8		0.94	EPA 1640m	0.02	3.10	4.80	1	*		
8/19/2008	LACSD	RA-2		0.9	EPA 1640m	0.02	3.10	4.80	1	*		
8/20/2008	LACSD	R6		1.29	EPA 1640m	0.02	3.10	4.80	1	1.21		
8/20/2008	LACSD	R7		1.21	EPA 1640m	0.02	3.10	4.80	1	1.10		
8/20/2008	LACSD	R8		1.05	EPA 1640m	0.02	3.10	4.80	1	1.00		

APPENDIX A - TABLE A1
SAN GABRIEL RIVER ESTUARY - COPPER

Sample Date	Source	Location	Qualifier	Dissolved Copper (ug/L)	Method	PQL/RL (ug/L)	Dissolved Copper Marine CCC (ug/L)	Dissolved Copper Marine CMC (ug/L)	Is Sample Usable? (1=Yes)	4-Day Average Concentration	Does Sample Exceed CCC (1=Yes)	Does Sample Exceed CMC (1=Yes)
8/20/2008	LACSD	RA-2		0.99	EPA 1640m	0.02	3.10	4.80	1	0.95		
8/27/2008	LACSD	R6		0.41	EPA 1640m	0.02	3.10	4.80	1	0.41		
8/27/2008	LACSD	R7		0.65	EPA 1640m	0.02	3.10	4.80	1	0.65		
8/27/2008	LACSD	R8	<	0.02	EPA 1640m	0.02	3.10	4.80	1	0.02		
8/27/2008	LACSD	RA-2	<	0.02	EPA 1640m	0.02	3.10	4.80	1	0.02		
9/11/2008	LACSD	R6		1.16	EPA 1640m	0.2	3.10	4.80	1	1.16		
9/11/2008	LACSD	R7		0.89	EPA 1640m	0.2	3.10	4.80	1	0.89		
9/11/2008	LACSD	R8		0.92	EPA 1640m	0.2	3.10	4.80	1	0.92		
9/11/2008	LACSD	RA2		1.39	EPA 1640m	0.2	3.10	4.80	1	1.39		
10/9/2008	LACSD	R6		1.27	EPA 1640m	0.2	3.10	4.80	1	1.27		
10/9/2008	LACSD	R7		0.81	EPA 1640m	0.2	3.10	4.80	1	0.81		
10/9/2008	LACSD	R8		0.79	EPA 1640m	0.2	3.10	4.80	1	0.79		
10/9/2008	LACSD	RA2		1.35	EPA 1640m	0.2	3.10	4.80	1	1.35		
11/12/2008	LACSD	R6		1.24	EPA 1640m	0.2	3.10	4.80	1	1.24		
11/12/2008	LACSD	R7		1.14	EPA 1640m	0.2	3.10	4.80	1	1.14		
11/12/2008	LACSD	R8		1.06	EPA 1640m	0.2	3.10	4.80	1	1.06		
11/12/2008	LACSD	RA2		0.54	EPA 1640m	0.2	3.10	4.80	1	0.54		
12/30/2008	LACSD	R6		2.3	EPA 1640m	0.2	3.10	4.80	1	2.3		
12/30/2008	LACSD	R7		0.8	EPA 1640m	0.2	3.10	4.80	1	0.8		
12/30/2008	LACSD	R8		1	EPA 1640m	0.2	3.10	4.80	1	1		
12/30/2008	LACSD	RA2		2.1	EPA 1640m	0.2	3.10	4.80	1	2.1		
1/20/2009	LACSD	R6		1.6	EPA 1640m	0.2	3.10	4.80	1	1.6		
1/20/2009	LACSD	R7		1.4	EPA 1640m	0.2	3.10	4.80	1	1.4		
1/20/2009	LACSD	R8		1.1	EPA 1640m	0.2	3.10	4.80	1	1.1		
1/20/2009	LACSD	RA2		1.4	EPA 1640m	0.2	3.10	4.80	1	1.4		
2/26/2009	LACSD	R6		1.81	EPA 1640m	0.2	3.10	4.80	1	1.81		
2/26/2009	LACSD	R7		1.22	EPA 1640m	0.2	3.10	4.80	1	1.22		
2/26/2009	LACSD	R8		0.73	EPA 1640m	0.2	3.10	4.80	1	0.73		
2/26/2009	LACSD	RA2		1.75	EPA 1640m	0.2	3.10	4.80	1	1.75		

LACSD - Los Angeles County Sanitation Districts
LADWP - Los Angeles Department of Water and Power

* - Data is used in calculation of a 4 day average
** Data not usable

0 of 90 4-day averages exceed Criterion Continuous Concentration (CCC)

0 of 120 4-day averages exceed Criterion Maximum Concentration (CMC)

APPENDIX B - TABLE B1
COYOTE CREEK - AMMONIA

Sample Date	Source	Location	Qualifier	Ammonia (mg/L)	4-Day Ammonia Average (mg/L)	RL (mg/L)	pH	Temp (F)	CMC (mg/L)	Does Sample Exceed CMC (1=Yes)	SSO Adjusted 4-Day Average CCC	Does Sample Exceed 4-Day CCC (1=Yes)
3/29/2004	LACSD	R9E		0.50	0.50	0.10	8.16	72.5	6.19		2.33	
4/6/2004	LACSD	R9E		0.50	0.50	0.10	8.37	66.9	4.12		2.02	
4/13/2004	LACSD	R9E		1.30	1.30	0.10	8.69	72.2	2.24		0.98	1
4/20/2004	LACSD	R9E		0.90	0.90	0.10	8.50	71.2	3.20		1.39	
4/28/2004	LACSD	R9E		0.30	0.30	0.10	9.20	73.1	0.99		0.44	
5/5/2004	LACSD	R9E		0.70	0.70	0.10	8.58	75.8	2.75		1.03	
5/11/2004	LACSD	R9E		1.20	1.20	0.10	8.50	77.2	3.20		1.12	1
5/18/2004	LACSD	R9E		0.80	0.80	0.10	8.71	76.2	2.16		0.82	
5/25/2004	LACSD	R9E	<	0.10	0.10	0.10	8.67	70.3	2.33		1.08	
6/1/2004	LACSD	R9E		0.30	0.30	0.10	8.61	75.9	2.60		0.98	
6/8/2004	LACSD	R9E	<	0.10	0.10	0.10	8.43	70.0	3.66		1.64	
6/15/2004	LACSD	R9E	<	0.10	0.10	0.10	8.28	69.4	4.90		2.15	
6/22/2004	LACSD	R9E	<	0.10	0.10	0.10	7.92	67.5	9.76		3.97	
6/29/2004	LACSD	R9E	<	0.10	*	0.10	7.77	80.1	12.80		*	
6/29/2004	LACSD	R9E		0.50	0.30	0.10	9.16	74.1	1.05		1.76	
7/6/2004	LACSD	R9E	<	0.10	0.10	0.10	8.32	74.1	4.53		1.70	
7/13/2004	LACSD	R9E		0.70	0.70	0.10	8.49	77.5	3.26		1.13	
7/20/2004	LACSD	R9E		0.30	0.30	0.10	8.43	77.2	3.66		1.26	
7/27/2004	LACSD	R9E	<	0.10	0.10	0.10	8.79	70.2	1.88		0.89	
8/3/2004	LACSD	R9E		0.60	0.60	0.10	8.44	81.5	3.59		1.07	
8/10/2004	LACSD	R9E		2.00	2.00	0.10	8.12	79.0	6.69		1.97	1
8/17/2004	LACSD	R9E		1.10	1.10	0.10	8.39	79.0	3.96		1.27	
8/24/2004	LACSD	R9E		1.20	1.20	0.10	8.32	80.5	4.53		1.35	
8/31/2004	LACSD	R9E		1.30	1.30	0.10	8.29	79.7	4.81		1.46	
9/7/2004	LACSD	R9E		0.50	0.50	0.10	8.34	78.1	4.36		1.42	
9/14/2004	LACSD	R9E		1.20	1.20	0.10	8.27	78.1	5.00		1.60	
9/20/2004	LACSD	R9E		1.30	1.30	0.10	8.45	80.8	3.53		1.07	1
9/28/2004	LACSD	R9E		1.00	1.00	0.10	7.96	75.2	9.06		2.85	
10/4/2004	LACSD	R9E		0.90	0.90	0.10	7.85	74.8	11.10		3.36	
10/13/2004	LACSD	R9E		0.70	0.70	0.10	8.69	81.1	2.24		0.71	
10/26/2004	LACSD	R9E		0.70	0.70	0.10	8.16	68.4	6.19		2.70	
11/1/2004	LACSD	R9E		0.90	0.90	0.10	8.54	71.3	2.97		1.30	
11/8/2004	LACSD	R9E		0.90	0.90	0.10	8.49	74.1	3.26		1.28	
11/15/2004	LACSD	R9E		0.70	0.70	0.10	8.47	74.2	3.39		1.32	
11/22/2004	LACSD	R9E		0.70	0.70	0.10	8.41	66.4	3.81		1.93	
11/30/2004	LACSD	R9E		0.90	0.90	0.10	8.27	64.3	5.00		2.62	
12/7/2004	LACSD	R9E		2.80	2.80	0.10	8.13	66.2	6.56		3.06	
12/13/2004	LACSD	R9E		0.40	0.40	0.10	8.52	68.8	3.08		1.47	
12/21/2004	LACSD	R9E		0.70	0.70	0.10	8.34	71.1	4.36		1.83	
12/27/2004	LACSD	R9E		0.50	0.50	0.10	8.71	65.7	2.16		1.19	
1/25/2005	LACSD	R9E		0.50	0.50	0.10	8.16	68.8	6.19		2.66	
1/31/2005	LACSD	R9E		0.50	0.50	0.10	8.07	69.5	7.36		2.98	
2/8/2005	LACSD	R9E		0.20	0.20	0.10	8.45	68.2	3.53		1.69	
2/14/2005	LACSD	R9E		0.30	0.30	0.10	8.11	68.2	6.82		2.94	
3/1/2005	LACSD	R9E		0.70	0.70	0.10	8.30	73.3	4.71		1.81	
3/8/2005	LACSD	R9E		0.40	0.40	0.10	8.31	69.1	4.62		2.07	
3/15/2005	LACSD	R9E	<	0.10	0.10	0.10	8.10	67.9	6.95		3.02	
3/22/2005	LACSD	R9E		0.30	0.30	0.10	7.97	70.7	8.90		3.31	
3/30/2005	LACSD	R9E		0.40	0.40	0.10	8.04	69.4	7.79		3.13	
4/5/2005	LACSD	R9E		0.30	0.30	0.10	8.39	69.7	3.96		1.77	
4/12/2005	LACSD	R9E	<	0.10	0.10	0.10	8.50	72.1	3.20		1.35	
4/19/2005	LACSD	R9E	<	0.10	0.10	0.10	8.35	68.9	4.28		1.95	
4/26/2005	LACSD	R9E		0.40	0.40	0.10	8.26	73.4	5.10		1.92	
5/3/2005	LACSD	R9E		0.40	0.40	0.10	8.45	76.9	3.53		1.24	
5/9/2005	LACSD	R9E		0.60	0.60	0.10	8.30	69.8	4.71		2.05	
5/17/2005	LACSD	R9E		4.20	4.20	0.10	8.29	72.0	4.81		1.92	1
5/24/2005	LACSD	R9E		0.10	0.10	0.10	8.41	72.2	3.81		1.56	
5/31/2005	LACSD	R9E		0.40	0.40	0.10	8.15	69.7	6.31		2.62	
6/7/2005	LACSD	R9E	<	0.10	0.10	0.10	8.46	71.3	3.46		1.48	

APPENDIX B - TABLE B1
COYOTE CREEK - AMMONIA

Sample Date	Source	Location	Qualifier	Ammonia (mg/L)	4-Day Ammonia Average (mg/L)	RL (mg/L)	pH	Temp (F)	CMC (mg/L)	Does Sample Exceed CMC (1=Yes)	SSO Adjusted 4-Day Average CCC	Does Sample Exceed 4-Day CCC (1=Yes)
6/14/2005	LACSD	R9E	<	0.10	0.10	0.10	8.20	72.3	5.73		2.20	
6/21/2005	LACSD	R9E	<	0.10	0.10	0.10	8.51	78.1	3.14		1.07	
6/28/2005	LACSD	R9E	<	0.10	0.10	0.10	8.08	70.0	7.22		2.89	
7/5/2005	LACSD	R9E		0.40	0.40	0.10	8.37	77.7	4.12		1.37	
7/12/2005	LACSD	R9E		0.30	0.30	0.10	8.32	76.3	4.53		1.57	
7/19/2005	LACSD	R9E		0.50	0.50	0.10	8.08	77.9	7.22		2.17	
7/26/2005	LACSD	R9E	<	0.10	0.10	0.10	8.69	85.8	2.24		0.60	
8/2/2005	LACSD	R9E		0.30	0.30	0.10	8.15	72.9	6.31		2.33	
8/9/2005	LACSD	R9E		0.40	0.40	0.10	8.59	82.8	2.70		0.79	
8/16/2005	LACSD	R9E	<	0.10	0.10	0.10	8.22	71.6	5.51		2.19	
8/23/2005	LACSD	R9E	<	0.10	0.10	0.10	8.65	76.0	2.42		0.91	
8/30/2005	LACSD	R9E		0.60	0.60	0.10	8.41	75.9	3.81		1.37	
9/6/2005	LACSD	R9E		7.20	7.20	0.10	8.22	79.2	5.51	1	1.67	1
9/15/2005	LACSD	R9E	<	0.10	0.10	0.10	8.58	72.5	2.75		1.16	
9/23/2005	LACSD	R9E		0.20	0.20	0.10	8.16	73.0	6.19		2.29	
9/28/2005	LACSD	R9E		0.10	0.10	0.10	8.52	71.1	3.08		1.35	
10/4/2005	LACSD	R9E		0.50	0.50	0.10	8.16	75.4	6.19		2.10	
10/11/2005	LACSD	R9E		3.30	3.30	0.10	8.32	77.4	4.53		1.51	1
10/25/2005	LACSD	R9E		0.20	0.20	0.10	8.34	67.5	4.36		2.08	
11/1/2005	LACSD	R9E		0.20	0.20	0.10	8.56	68.0	2.86		1.41	
11/15/2005	LACSD	R9E		0.50	0.50	0.10	8.24	73.9	5.30		1.95	
11/21/2005	LACSD	R9E		0.60	0.60	0.10	8.49	73.0	3.26		1.33	
11/29/2005	LACSD	R9E		0.40	0.40	0.10	8.19	67.3	5.84		2.68	
12/6/2005	LACSD	R9E		1.10	1.10	0.10	8.44	69.3	3.59		1.65	
12/13/2005	LACSD	R9E		0.50	0.50	0.10	8.28	67.6	4.90		2.29	
12/19/2005	LACSD	R9E		2.90	2.90	0.10	8.39	71.1	3.96		1.68	1
12/28/2005	LACSD	R9E		0.60	0.60	0.10	8.32	67.6	4.53		2.14	
1/5/2006	LACSD	R9E		0.80	0.80	0.10	8.06	70.2	7.50		2.95	
1/10/2006	LACSD	R9E		0.50	0.50	0.10	8.22	67.3	5.51		2.55	
1/17/2006	LACSD	R9E	<	0.10	0.10	0.10	8.27	50.9	5.00		4.23	
1/24/2006	LACSD	R9E		0.30	0.30	0.10	8.26	61.3	5.10		2.97	
1/31/2006	LACSD	R9E		0.30	0.30	0.10	9.01	69.6	1.30		0.65	
2/7/2006	LACSD	R9E		0.50	0.50	0.10	8.38	68.2	4.04		1.90	
2/14/2006	LACSD	R9E		0.20	0.20	0.10	8.70	66.7	2.20		1.17	
2/23/2006	LACSD	R9E		0.60	*	0.10	8.15	66.0	6.31		*	
2/27/2006	LACSD	R9E		0.70	0.65	0.10	8.23	69.1	5.40		2.67	
3/9/2006	LACSD	R9E		0.40	0.40	0.10	8.27	69.4	5.00		2.18	
3/14/2006	LACSD	R9E		0.60	0.60	0.10	8.18	64.4	5.95		3.02	
3/23/2006	LACSD	R9E		0.60	*	0.10	8.22	66.4	5.51		*	
3/27/2006	LACSD	R9E		0.50	0.55	0.10	8.73	70.3	2.09		1.81	
4/3/2006	LACSD	R9E		0.65	0.65	0.10	8.47	65.1	3.39		1.82	
4/10/2006	LACSD	R9E		0.48	0.48	0.10	8.39	70.9	3.96		1.69	
4/17/2006	LACSD	R9E		0.36	0.36	0.10	8.49	64.8	3.26		1.78	
4/25/2006	LACSD	R9E		0.80	0.80	0.10	8.90	73.5	1.56		0.67	1
5/1/2006	LACSD	R9E		0.78	0.78	0.10	8.05	72.9	7.65		2.72	
5/9/2006	LACSD	R9E		0.50	0.50	0.10	8.33	71.8	4.45		1.81	
5/16/2006	LACSD	R9E		0.30	0.30	0.10	8.37	71.8	4.12		1.70	
5/25/2006	LACSD	R9E		0.63	0.63	0.10	8.37	82.0	4.12		1.18	
5/30/2006	LACSD	R9E		0.61	0.61	0.10	8.35	75.6	4.28		1.53	
6/6/2006	LACSD	R9E		0.89	0.89	0.10	8.27	75.2	5.00		1.77	
6/13/2006	LACSD	R9E		0.26	0.26	0.10	8.66	77.5	2.37		0.85	
6/20/2006	LACSD	R9E		0.21	0.21	0.10	8.57	77.5	2.80		0.99	
6/27/2006	LACSD	R9E		0.59	0.59	0.10	8.57	76.3	2.80		1.03	
7/5/2006	LACSD	R9E		0.24	0.24	0.10	9.02	88.0	1.28		0.33	
7/11/2006	LACSD	R9E		0.25	0.25	0.10	8.55	81.1	2.91		0.90	
7/20/2006	LACSD	R9E		0.26	0.26	0.10	8.83	86.4	1.75		0.47	
7/25/2006	LACSD	R9E		0.17	0.17	0.10	8.58	85.8	2.75		0.72	
8/1/2006	LACSD	R9E	<	0.10	0.10	0.10	8.56	74.6	2.86		1.11	
8/8/2006	LACSD	R9E		0.24	0.24	0.10	8.91	82.0	1.53		0.48	

APPENDIX B - TABLE B1
COYOTE CREEK - AMMONIA

Sample Date	Source	Location	Qualifier	Ammonia (mg/L)	4-Day Ammonia Average (mg/L)	RL (mg/L)	pH	Temp (F)	CMC (mg/L)	Does Sample Exceed CMC (1=Yes)	SSO Adjusted 4-Day Average CCC	Does Sample Exceed 4-Day CCC (1=Yes)
8/15/2006	LACSD	R9E	<	0.10	0.10	0.10	8.25	70.0	5.20		2.21	
8/22/2006	LACSD	R9E	<	0.10	0.10	0.10	8.64	76.3	2.46		0.92	
8/29/2006	LACSD	R9E		0.24	0.24	0.10	8.64	76.3	2.46		0.92	
9/5/2006	LACSD	R9E		0.18	0.18	0.10	8.53	75.5	3.03		1.13	
9/12/2006	LACSD	R9E		0.23	0.23	0.10	8.58	74.6	2.75		1.08	
9/19/2006	LACSD	R9E		0.10	0.10	0.10	8.60	65.9	2.65		1.42	
3/29/2004	LACSD	RA		0.40	0.40	0.10	7.84	72.5	11.30		3.69	
4/6/2004	LACSD	RA		1.00	1.00	0.10	8.48	67.5	3.33		1.64	
4/13/2004	LACSD	RA		1.40	1.40	0.10	8.66	73.1	2.37		0.99	1
4/20/2004	LACSD	RA		1.50	1.50	0.10	8.36	72.9	4.20		1.66	
4/28/2004	LACSD	RA		1.30	1.30	0.10	8.35	73.8	4.28		1.63	
5/5/2004	LACSD	RA		1.30	1.30	0.10	8.49	79.4	3.26		1.06	1
5/11/2004	LACSD	RA		0.30	0.30	0.10	8.43	76.8	3.66		1.28	
5/18/2004	LACSD	RA		1.70	1.70	0.10	8.45	77.5	3.53		1.21	1
5/25/2004	LACSD	RA		0.20	0.20	0.10	8.67	71.9	2.33		1.02	
6/1/2004	LACSD	RA		0.20	0.20	0.10	8.47	75.0	3.39		1.28	
6/8/2004	LACSD	RA	<	0.10	0.10	0.10	8.33	70.3	4.45		1.91	
6/15/2004	LACSD	RA		0.40	0.40	0.10	8.14	71.6	6.43		2.48	
6/22/2004	LACSD	RA		0.40	0.40	0.10	7.67	69.3	15.19		5.06	
6/29/2004	LACSD	RA		1.00	1.00	0.10	8.94	80.2	1.46		0.49	1
7/6/2004	LACSD	RA		1.40	1.40	0.10	8.23	75.0	5.40		1.91	
7/13/2004	LACSD	RA		0.80	0.80	0.10	8.42	76.7	3.74		1.31	
7/20/2004	LACSD	RA		0.70	0.70	0.10	8.24	79.9	5.30		1.57	
7/27/2004	LACSD	RA		0.50	0.50	0.10	8.55	80.2	2.91		0.93	
8/3/2004	LACSD	RA		0.80	0.80	0.10	8.23	81.9	5.40		1.49	
8/10/2004	LACSD	RA		1.10	1.10	0.10	8.37	77.2	4.12		1.40	
8/17/2004	LACSD	RA		1.50	1.50	0.10	8.26	80.3	5.10		1.50	
8/24/2004	LACSD	RA		1.50	1.50	0.10	8.01	82.6	8.25		2.04	
8/31/2004	LACSD	RA		1.80	1.80	0.10	8.15	81.0	6.31		1.75	1
9/7/2004	LACSD	RA		0.90	0.90	0.10	8.21	80.2	5.62		1.63	
9/14/2004	LACSD	RA		0.40	0.40	0.10	8.44	74.5	3.59		1.37	
9/20/2004	LACSD	RA		1.50	1.50	0.10	8.22	81.2	5.51		1.55	
9/28/2004	LACSD	RA		1.10	1.10	0.10	7.92	76.9	9.76		2.84	
10/4/2004	LACSD	RA		1.00	1.00	0.10	8.04	76.3	7.79		2.44	
10/13/2004	LACSD	RA		0.90	0.90	0.10	8.03	78.4	7.94		2.30	
10/26/2004	LACSD	RA		1.00	1.00	0.10	8.01	72.0	8.25		2.98	
11/1/2004	LACSD	RA		1.10	1.10	0.10	7.99	73.8	8.57		2.88	
11/8/2004	LACSD	RA		1.00	1.00	0.10	8.20	74.5	5.73		2.04	
11/15/2004	LACSD	RA		0.50	0.50	0.10	8.46	70.9	3.46		1.51	
11/22/2004	LACSD	RA		1.00	1.00	0.10	8.18	71.5	5.95		2.34	
11/30/2004	LACSD	RA		1.00	1.00	0.10	8.25	64.8	5.20		2.66	
12/7/2004	LACSD	RA		2.50	2.50	0.10	8.07	68.6	7.36		3.08	
12/13/2004	LACSD	RA		0.70	0.70	0.10	8.29	71.8	4.81		1.94	
12/21/2004	LACSD	RA		1.00	1.00	0.10	8.15	71.4	6.31		2.46	
12/27/2004	LACSD	RA		0.80	0.80	0.10	8.48	66.4	3.33		1.71	
1/18/2005	LACSD	RA		0.30	0.30	0.10	8.27	68.4	5.00		2.26	
1/25/2005	LACSD	RA		0.60	0.60	0.10	7.97	69.3	8.90		3.48	
1/31/2005	LACSD	RA		0.60	0.60	0.10	8.05	71.3	7.65		2.88	
2/8/2005	LACSD	RA		0.30	0.30	0.10	8.13	67.9	6.56		2.88	
2/14/2005	LACSD	RA		0.40	0.40	0.10	8.15	70.5	6.31		2.54	
3/1/2005	LACSD	RA		0.40	0.40	0.10	8.24	68.2	5.30		2.39	
3/8/2005	LACSD	RA		0.50	0.50	0.10	8.12	69.5	6.69		2.76	
3/15/2005	LACSD	RA		0.40	0.40	0.10	8.06	69.3	7.50		3.05	
3/22/2005	LACSD	RA		0.20	0.20	0.10	7.95	70.9	9.23		3.38	
3/30/2005	LACSD	RA		0.40	0.40	0.10	8.13	68.9	6.56		2.78	
4/5/2005	LACSD	RA		0.20	0.20	0.10	8.14	62.8	6.43		3.41	
4/12/2005	LACSD	RA	<	0.10	0.10	0.10	8.32	68.9	4.53		2.05	
4/19/2005	LACSD	RA		0.20	0.20	0.10	8.33	68.9	4.45		2.01	
4/26/2005	LACSD	RA		0.20	0.20	0.10	8.43	70.4	3.66		1.61	

APPENDIX B - TABLE B1
COYOTE CREEK - AMMONIA

Sample Date	Source	Location	Qualifier	Ammonia (mg/L)	4-Day Ammonia Average (mg/L)	RL (mg/L)	pH	Temp (F)	CMC (mg/L)	Does Sample Exceed CMC (1=Yes)	SSO Adjusted 4-Day Average CCC	Does Sample Exceed 4-Day CCC (1=Yes)
5/3/2005	LACSD	RA	<	0.10	0.10	0.10	8.64	72.5	2.46		1.05	
5/9/2005	LACSD	RA		0.50	0.50	0.10	8.10	71.4	6.95		2.66	
5/17/2005	LACSD	RA		4.50	4.50	0.10	8.16	72.9	6.19		2.30	1
5/24/2005	LACSD	RA	<	0.10	0.10	0.10	8.46	70.6	3.46		1.52	
5/31/2005	LACSD	RA		0.30	0.30	0.10	8.35	67.1	4.28		2.08	
6/7/2005	LACSD	RA	<	0.10	0.10	0.10	8.58	71.8	2.75		1.19	
6/14/2005	LACSD	RA		0.20	0.20	0.10	8.19	72.5	5.84		2.22	
6/21/2005	LACSD	RA		0.30	0.30	0.10	8.41	79.4	3.81		1.21	
6/28/2005	LACSD	RA		0.20	0.20	0.10	7.99	73.6	8.57		2.90	
7/5/2005	LACSD	RA	<	0.10	0.10	0.10	8.67	74.8	2.33		0.92	
7/12/2005	LACSD	RA		0.60	0.60	0.10	8.17	77.0	6.07		1.95	
7/19/2005	LACSD	RA		0.70	0.70	0.10	8.00	78.8	8.41		2.37	
7/26/2005	LACSD	RA		0.20	0.20	0.10	8.60	85.5	2.65		0.70	
8/2/2005	LACSD	RA		0.40	0.40	0.10	8.22	73.8	5.51		2.02	
8/9/2005	LACSD	RA		0.40	0.40	0.10	8.41	84.6	3.81		1.00	
8/23/2005	LACSD	RA		0.40	0.40	0.10	8.47	77.0	3.39		1.19	
8/30/2005	LACSD	RA		0.40	0.40	0.10	8.58	75.7	2.75		1.04	
9/6/2005	LACSD	RA		7.30	7.30	0.10	8.16	80.1	6.19	1	1.78	1
9/15/2005	LACSD	RA	<	0.10	0.10	0.10	8.58	74.1	2.75		1.10	
9/23/2005	LACSD	RA		0.40	0.40	0.10	8.16	76.3	6.19		2.03	
9/28/2005	LACSD	RA		0.30	0.30	0.10	8.43	75.0	3.66		1.37	
10/4/2005	LACSD	RA		0.50	0.50	0.10	8.10	74.3	6.95		2.40	
10/11/2005	LACSD	RA		2.20	2.20	0.10	8.36	75.6	4.20		1.51	1
10/25/2005	LACSD	RA		0.40	0.40	0.10	8.09	70.2	7.08		2.82	
11/1/2005	LACSD	RA		0.20	0.20	0.10	8.60	70.9	2.65		1.19	
11/15/2005	LACSD	RA		0.60	0.60	0.10	8.30	74.1	4.71		1.76	
11/21/2005	LACSD	RA		0.70	0.70	0.10	8.44	72.3	3.59		1.48	
11/29/2005	LACSD	RA		0.50	0.50	0.10	8.04	70.2	7.79		3.04	
12/6/2005	LACSD	RA		0.50	0.50	0.10	8.28	64.4	4.90		2.57	
12/13/2005	LACSD	RA		0.40	0.40	0.10	8.27	68.2	5.00		2.28	
12/19/2005	LACSD	RA		0.40	0.40	0.10	8.13	67.6	6.56		2.91	
12/28/2005	LACSD	RA		0.80	0.80	0.10	8.17	69.1	6.07		2.59	
1/5/2006	LACSD	RA		1.10	1.10	0.10	7.91	72.1	9.95		3.42	
1/10/2006	LACSD	RA		0.60	0.60	0.10	8.04	70.7	7.79		2.99	
1/17/2006	LACSD	RA		0.40	0.40	0.10	8.17	62.8	6.07		3.25	
1/24/2006	LACSD	RA		0.70	0.70	0.10	8.17	66.0	6.07		2.90	
1/31/2006	LACSD	RA		0.50	0.50	0.10	8.03	69.6	7.94		3.15	
2/7/2006	LACSD	RA		0.80	0.80	0.10	8.25	69.6	5.20		2.24	
2/14/2006	LACSD	RA		0.40	0.40	0.10	8.24	66.0	5.30		2.59	
2/23/2006	LACSD	RA		0.50	*	0.10	8.22	64.9	5.51		*	
2/27/2006	LACSD	RA		0.70	0.60	0.10	7.91	69.1	9.95		3.29	
3/9/2006	LACSD	RA		0.60	0.60	0.10	8.05	71.4	7.65		2.87	
3/14/2006	LACSD	RA		0.50	0.50	0.10	8.22	66.0	5.51		2.67	
3/23/2006	LACSD	RA		0.60	*	0.10	8.22	66.7	5.51		*	
3/27/2006	LACSD	RA		0.90	0.75	0.10	8.45	71.4	3.53		2.06	
4/3/2006	LACSD	RA		1.10	1.10	0.10	8.10	67.8	6.95		3.03	
4/10/2006	LACSD	RA		0.57	0.57	0.10	8.18	71.8	5.95		2.32	
4/17/2006	LACSD	RA		0.71	0.71	0.10	8.17	70.2	6.07		2.49	
4/25/2006	LACSD	RA		0.94	0.94	0.10	8.67	73.5	2.33		0.96	
5/1/2006	LACSD	RA		0.46	0.46	0.10	8.23	70.5	5.40		2.24	
5/9/2006	LACSD	RA		0.60	0.60	0.10	8.31	73.8	4.62		1.75	
5/16/2006	LACSD	RA		0.40	0.40	0.10	8.27	73.8	5.00		1.86	
5/25/2006	LACSD	RA		1.00	1.00	0.10	8.15	77.7	6.31		1.97	
5/30/2006	LACSD	RA		0.97	0.97	0.10	8.07	76.8	7.36		2.30	
6/6/2006	LACSD	RA		1.10	1.10	0.10	8.09	76.5	7.08		2.25	
6/13/2006	LACSD	RA		0.87	0.87	0.10	8.37	77.9	4.12		1.36	
6/20/2006	LACSD	RA		0.90	0.90	0.10	8.20	79.5	5.73		1.70	
6/26/2006	LACSD	RA		0.56	*	0.10	8.10	77.5	6.95		*	
6/27/2006	LACSD	RA		0.80	0.68	0.10	8.35	86.9	4.28		1.58	

APPENDIX B - TABLE B1
COYOTE CREEK - AMMONIA

Sample Date	Source	Location	Qualifier	Ammonia (mg/L)	4-Day Ammonia Average (mg/L)	RL (mg/L)	pH	Temp (F)	CMC (mg/L)	Does Sample Exceed CMC (1=Yes)	SSO Adjusted 4-Day Average CCC	Does Sample Exceed 4-Day CCC (1=Yes)
7/5/2006	LACSD	RA		0.43	0.43	0.10	8.90	81.1	1.56		0.51	
7/11/2006	LACSD	RA		0.26	0.26	0.10	8.66	87.6	2.37		0.59	
7/20/2006	LACSD	RA		0.39	0.39	0.10	8.78	85.3	1.91		0.53	
7/25/2006	LACSD	RA		0.22	0.22	0.10	8.63	75.1	2.51		0.97	
8/1/2006	LACSD	RA		0.20	0.20	0.10	8.81	80.6	1.81		0.59	
8/8/2006	LACSD	RA		0.32	0.32	0.10	8.66	69.6	2.37		1.13	
8/15/2006	LACSD	RA	<	0.10	0.10	0.10	8.50	77.0	3.20		1.13	
8/22/2006	LACSD	RA	<	0.10	0.10	0.10	8.67	77.5	2.33		0.83	
8/29/2006	LACSD	RA		0.42	0.42	0.10	8.62	76.3	2.55		0.95	
9/5/2006	LACSD	RA		0.13	0.13	0.10	8.58	76.1	2.75		1.02	
9/12/2006	LACSD	RA		0.52	0.52	0.10	8.25	72.6	5.20		2.01	
9/19/2006	LACSD	RA		0.36	0.36	0.10	8.45	75.0	3.53		1.32	
10/24/2006	LACSD	RA	<	0.10	0.10	0.10	8.08	74.1	7.22		2.49	
11/21/2006	LACSD	RA		1.90	1.90	0.10	8.00	72.1	8.41		3.01	
12/14/2006	LACSD	RA		0.91	0.91	0.10	8.13	74.1	6.56		2.31	
1/9/2007	LACSD	RA		0.86	0.86	0.10	7.82	67.1	11.71		4.60	
2/22/2007	LACSD	RA		0.71	0.71	0.10	7.74	69.5	13.48		4.65	
3/29/2004	LACSD	RA1	<	0.10	0.10	0.10	8.64	65.8	2.46		1.33	
4/6/2004	LACSD	RA1	<	0.10	0.10	0.10	8.71	63.5	2.16		1.29	
4/13/2004	LACSD	RA1	<	0.10	0.10	0.10	9.07	70.7	1.19		0.57	
4/20/2004	LACSD	RA1		0.70	0.70	0.10	8.85	68.4	1.69		0.86	
4/28/2004	LACSD	RA1	<	0.10	0.10	0.10	8.86	70.0	1.66		0.80	
5/5/2004	LACSD	RA1	<	0.10	0.10	0.10	8.86	79.9	1.66		0.56	
5/11/2004	LACSD	RA1	<	0.10	0.10	0.10	8.82	76.8	1.78		0.67	
5/18/2004	LACSD	RA1	<	0.10	0.10	0.10	8.92	76.5	1.51		0.58	
5/25/2004	LACSD	RA1	<	0.10	0.10	0.10	8.79	69.7	1.88		0.91	
6/1/2004	LACSD	RA1	<	0.10	0.10	0.10	8.44	74.3	3.59		1.38	
6/8/2004	LACSD	RA1	<	0.10	0.10	0.10	8.62	70.3	2.55		1.17	
6/15/2004	LACSD	RA1	<	0.10	0.10	0.10	8.55	69.8	2.91		1.35	
6/22/2004	LACSD	RA1	<	0.10	0.10	0.10	8.13	66.9	6.56		2.99	
6/29/2004	LACSD	RA1	<	0.10	0.10	0.10	9.02	80.6	1.28		0.43	
7/6/2004	LACSD	RA1	<	0.10	0.10	0.10	8.37	72.7	4.12		1.64	
7/13/2004	LACSD	RA1		0.10	0.10	0.10	8.64	75.4	2.46		0.95	
7/20/2004	LACSD	RA1	<	0.10	0.10	0.10	8.46	74.8	3.46		1.31	
7/27/2004	LACSD	RA1	<	0.10	0.10	0.10	8.90	79.7	1.56		0.53	
8/3/2004	LACSD	RA1	<	0.10	0.10	0.10	8.86	80.6	1.66		0.55	
8/10/2004	LACSD	RA1	<	0.10	0.10	0.10	8.58	71.6	2.75		1.20	
8/17/2004	LACSD	RA1	<	0.10	0.10	0.10	8.80	74.3	1.84		0.76	
8/24/2004	LACSD	RA1	<	0.10	0.10	0.10	8.92	78.1	1.51		0.55	
8/31/2004	LACSD	RA1	<	0.10	0.10	0.10	8.73	76.8	2.09		0.77	
9/7/2004	LACSD	RA1	<	0.10	0.10	0.10	8.63	74.8	2.51		0.98	
9/14/2004	LACSD	RA1	<	0.10	0.10	0.10	8.63	74.3	2.51		1.00	
9/20/2004	LACSD	RA1		0.20	0.20	0.10	9.04	77.8	1.24		0.46	
9/28/2004	LACSD	RA1	<	0.10	0.10	0.10	8.24	67.1	5.30		2.49	
10/4/2004	LACSD	RA1	<	0.10	0.10	0.10	8.43	65.7	3.66		1.91	
10/13/2004	LACSD	RA1	<	0.10	0.10	0.10	8.50	72.0	3.20		1.35	
10/26/2004	LACSD	RA1	<	0.10	0.10	0.10	8.33	61.7	4.45		2.61	
11/1/2004	LACSD	RA1	<	0.10	0.10	0.10	8.61	64.9	2.60		1.45	
11/8/2004	LACSD	RA1	<	0.10	0.10	0.10	9.07	66.7	1.19		0.66	
11/15/2004	LACSD	RA1	<	0.10	0.10	0.10	8.67	65.7	2.33		1.27	
11/22/2004	LACSD	RA1	<	0.10	0.10	0.10	8.63	59.0	2.51		1.73	
11/30/2004	LACSD	RA1		0.90	0.90	0.10	8.61	49.3	2.60		2.53	
12/7/2004	LACSD	RA1	<	0.10	0.10	0.10	8.76	54.2	1.98		1.66	
12/13/2004	LACSD	RA1	<	0.10	0.10	0.10	8.72	63.5	2.13		1.27	
12/21/2004	LACSD	RA1	<	0.10	0.10	0.10	8.84	63.0	1.72		1.06	
12/27/2004	LACSD	RA1	<	0.10	0.10	0.10	8.88	55.2	1.61		1.32	
1/18/2005	LACSD	RA1	<	0.10	0.10	0.10	8.56	62.8	2.86		1.70	
1/25/2005	LACSD	RA1	<	0.10	0.10	0.10	8.35	61.4	4.28		2.55	
1/31/2005	LACSD	RA1	<	0.10	0.10	0.10	8.48	61.7	3.33		2.02	

APPENDIX B - TABLE B1
COYOTE CREEK - AMMONIA

Sample Date	Source	Location	Qualifier	Ammonia (mg/L)	4-Day Ammonia Average (mg/L)	RL (mg/L)	pH	Temp (F)	CMC (mg/L)	Does Sample Exceed CMC (1=Yes)	SSO Adjusted 4-Day Average CCC	Does Sample Exceed 4-Day CCC (1=Yes)
2/8/2005	LACSD	RA1	<	0.10	0.10	0.10	8.47	57.2	3.39		2.42	
2/14/2005	LACSD	RA1	<	0.10	0.10	0.10	8.59	62.6	2.70		1.63	
3/1/2005	LACSD	RA1	<	0.10	0.10	0.10	8.44	65.2	3.59		1.91	
3/8/2005	LACSD	RA1	<	0.10	0.10	0.10	8.34	64.1	4.36		2.35	
3/15/2005	LACSD	RA1	<	0.10	0.10	0.10	8.35	63.5	4.28		2.36	
3/22/2005	LACSD	RA1	<	0.10	0.10	0.10	8.37	70.3	4.12		1.79	
3/30/2005	LACSD	RA1	<	0.10	0.10	0.10	8.23	63.0	5.40		2.93	
4/5/2005	LACSD	RA1	<	0.10	0.10	0.10	8.37	57.1	4.12		2.87	
4/12/2005	LACSD	RA1	<	0.10	0.10	0.10	8.49	65.8	3.26		1.72	
4/19/2005	LACSD	RA1	<	0.10	0.10	0.10	8.28	67.3	4.90		2.32	
4/26/2005	LACSD	RA1	<	0.10	0.10	0.10	8.60	71.6	2.65		1.16	
5/3/2005	LACSD	RA1	<	0.10	0.10	0.10	8.56	72.4	2.86		1.21	
5/9/2005	LACSD	RA1	<	0.10	0.10	0.10	8.53	64.6	3.03		1.68	
5/17/2005	LACSD	RA1	<	0.10	0.10	0.10	8.52	65.9	3.08		1.63	
5/24/2005	LACSD	RA1	<	0.10	0.10	0.10	8.68	70.6	2.29		1.05	
5/31/2005	LACSD	RA1	<	0.10	0.10	0.10	8.40	67.5	3.88		1.88	
6/7/2005	LACSD	RA1	<	0.10	0.10	0.10	8.58	71.5	2.75		1.20	
6/14/2005	LACSD	RA1	<	0.10	0.10	0.10	8.25	69.8	5.20		2.22	
6/21/2005	LACSD	RA1	<	0.10	0.10	0.10	8.60	79.9	2.65		0.86	
6/28/2005	LACSD	RA1	<	0.10	0.10	0.10	8.37	68.2	4.12		1.93	
7/5/2005	LACSD	RA1	<	0.10	0.10	0.10	8.65	78.1	2.42		0.84	
7/12/2005	LACSD	RA1	<	0.10	0.10	0.10	8.35	78.1	4.28		1.40	
7/19/2005	LACSD	RA1	<	0.10	0.10	0.10	8.31	75.9	4.62		1.62	
7/26/2005	LACSD	RA1	<	0.10	0.10	0.10	8.70	86.8	2.20		0.57	
8/2/2005	LACSD	RA1		0.20	0.20	0.10	8.24	71.3	5.30		2.14	
8/9/2005	LACSD	RA1	<	0.10	0.10	0.10	8.63	84.0	2.51		0.71	
8/16/2005	LACSD	RA1	<	0.10	0.10	0.10	8.34	69.3	4.36		1.95	
8/23/2005	LACSD	RA1	<	0.10	0.10	0.10	8.56	74.2	2.86		1.13	
8/30/2005	LACSD	RA1		0.20	0.20	0.10	8.50	75.0	3.20		1.22	
9/6/2005	LACSD	RA1	<	0.10	0.10	0.10	8.60	73.4	2.65		1.09	
9/15/2005	LACSD	RA1	<	0.10	0.10	0.10	8.69	68.9	2.24		1.10	
9/23/2005	LACSD	RA1	<	0.10	0.10	0.10	8.38	67.5	4.04		1.95	
9/28/2005	LACSD	RA1	<	0.10	0.10	0.10	8.61	68.2	2.60		1.29	
10/4/2005	LACSD	RA1	<	0.10	0.10	0.10	8.17	62.4	6.07		3.30	
10/11/2005	LACSD	RA1	<	0.10	0.10	0.10	8.58	71.6	2.75		1.20	
10/25/2005	LACSD	RA1	<	0.10	0.10	0.10	8.46	63.2	3.46		1.98	
11/1/2005	LACSD	RA1	<	0.10	0.10	0.10	8.67	66.7	2.33		1.23	
11/15/2005	LACSD	RA1	<	0.10	0.10	0.10	8.44	66.9	3.59		1.80	
11/21/2005	LACSD	RA1	<	0.10	0.10	0.10	8.82	62.2	1.78		1.13	
11/29/2005	LACSD	RA1	<	0.10	0.10	0.10	8.53	53.4	3.03		2.50	
12/6/2005	LACSD	RA1	<	0.10	0.10	0.10	8.50	50.7	3.20		2.90	
12/13/2005	LACSD	RA1		0.10	0.10	0.10	8.76	58.6	1.98		1.42	
12/19/2005	LACSD	RA1	<	0.10	0.10	0.10	8.39	52.7	3.96		3.25	
12/28/2005	LACSD	RA1	<	0.10	0.10	0.10	8.63	57.4	2.51		1.83	
1/5/2006	LACSD	RA1	<	0.10	0.10	0.10	8.36	65.3	4.20		2.18	
1/10/2006	LACSD	RA1	<	0.10	0.10	0.10	8.64	62.4	2.46		1.51	
1/17/2006	LACSD	RA1	<	0.10	0.10	0.10	8.22	48.0	5.51		5.10	
1/24/2006	LACSD	RA1	<	0.10	0.10	0.10	8.55	53.1	2.91		2.45	
1/31/2006	LACSD	RA1	<	0.10	0.10	0.10	8.60	57.7	2.65		1.91	
2/7/2006	LACSD	RA1	<	0.10	0.10	0.10	8.85	61.5	1.69		1.10	
2/14/2006	LACSD	RA1		0.20	0.20	0.10	8.57	60.4	2.80		1.82	
2/23/2006	LACSD	RA1		0.30	*	0.10	8.63	57.8	2.51		*	
2/27/2006	LACSD	RA1	<	0.10	0.20	0.10	8.40	57.9	3.88		2.23	
3/9/2006	LACSD	RA1	<	0.10	0.10	0.10	8.87	65.5	1.64		0.93	
3/14/2006	LACSD	RA1	<	0.10	0.10	0.10	8.56	57.0	2.86		2.09	
3/23/2006	LACSD	RA1	<	0.10	*	0.10	8.63	59.4	2.51		*	
3/27/2006	LACSD	RA1	<	0.10	0.10	0.10	9.02	68.9	1.28		1.18	
4/3/2006	LACSD	RA1		0.14	0.14	0.10	8.62	61.7	2.55		1.60	
4/10/2006	LACSD	RA1	<	0.10	0.10	0.10	8.98	67.6	1.37		0.73	

APPENDIX B - TABLE B1
COYOTE CREEK - AMMONIA

Sample Date	Source	Location	Qualifier	Ammonia (mg/L)	4-Day Ammonia Average (mg/L)	RL (mg/L)	pH	Temp (F)	CMC (mg/L)	Does Sample Exceed CMC (1=Yes)	SSO Adjusted 4-Day Average CCC	Does Sample Exceed 4-Day CCC (1=Yes)
4/17/2006	LACSD	RA1		0.12	0.12	0.10	8.59	62.4	2.70		1.64	
4/25/2006	LACSD	RA1	<	0.10	0.10	0.10	9.17	72.9	1.03		0.46	
5/1/2006	LACSD	RA1		0.12	0.12	0.10	8.70	66.9	2.20		1.16	
5/9/2006	LACSD	RA1	<	0.10	0.10	0.10	8.99	68.7	1.34		0.69	
5/16/2006	LACSD	RA1	<	0.10	0.10	0.10	8.34	67.8	4.36		2.06	
5/25/2006	LACSD	RA1	<	0.10	0.10	0.10	8.79	84.7	1.88		0.53	
5/30/2006	LACSD	RA1	<	0.10	0.10	0.10	8.57	71.4	2.80		1.23	
6/6/2006	LACSD	RA1	<	0.10	0.10	0.10	8.47	72.0	3.39		1.42	
6/13/2006	LACSD	RA1	<	0.10	0.10	0.10	8.71	77.9	2.16		0.77	
6/20/2006	LACSD	RA1		0.10	0.10	0.10	8.50	76.6	3.20		1.15	
6/27/2006	LACSD	RA1		0.12	0.12	0.10	8.74	74.7	2.05		0.82	
7/5/2006	LACSD	RA1	<	0.10	0.10	0.10	9.09	91.0	1.16		0.27	
7/11/2006	LACSD	RA1	<	0.10	0.10	0.10	8.72	82.2	2.13		0.65	
7/20/2006	LACSD	RA1		0.17	0.17	0.10	8.92	90.9	1.51		0.35	
7/25/2006	LACSD	RA1		0.14	0.14	0.10	8.65	87.2	2.42		0.61	
8/1/2006	LACSD	RA1	<	0.10	0.10	0.10	8.84	78.6	1.72		0.61	
8/8/2006	LACSD	RA1		0.12	0.12	0.10	8.88	80.8	1.61		0.53	
8/15/2006	LACSD	RA1		0.11	0.11	0.10	8.56	69.4	2.86		1.34	
8/22/2006	LACSD	RA1	<	0.10	0.10	0.10	8.74	76.8	2.05		0.76	
8/29/2006	LACSD	RA1		0.14	0.14	0.10	8.69	75.7	2.24		0.86	
9/5/2006	LACSD	RA1	<	0.10	0.10	0.10	8.56	75.3	2.86		1.09	
9/12/2006	LACSD	RA1	<	0.10	0.10	0.10	8.47	61.7	3.39		2.06	
9/19/2006	LACSD	RA1	<	0.10	0.10	0.10	8.55	51.0	2.91		2.64	
10/24/2006	LACSD	RA1	<	0.10	0.10	0.10	8.57	66.9	2.80		1.44	
11/21/2006	LACSD	RA1		0.13	0.13	0.10	8.53	64.0	3.03		1.71	
12/14/2006	LACSD	RA1	<	0.10	0.10	0.10	8.56	61.2	2.86		1.80	
1/9/2007	LACSD	RA1	<	0.10	0.10	0.10	8.67	55.8	2.33		1.82	
2/22/2007	LACSD	RA1	<	0.10	0.10	0.10	8.42	56.7	3.74		2.68	

LACSD - Sanitation Districts of Los Angeles County

* - Data is used in calculation of a 4 day average

17 of 374 4-day averages exceed Site Specific Objective (SSO) Criterion Continuous Concentration (CCC)

2 of 382 samples exceed Site Specific Objective (SSO) Criterion Maximum Concentration (CMC)

APPENDIX C - TABLE C1
SANTA CLARA RIVER REACH 6 - COPPER

Sample Date	Source	Location	Qualifier	Total Copper (ug/L)	Dissolved Copper (ug/L)	PQL/RL (ug/L)	Method	Is Sample Usable? (1=Yes)	Conservative Dissolved Copper Concentration	4-Day Average Concentration	Hardness	Dissolved Copper CMC (ug/L)	Dissolved Copper CCC (ug/L)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed CCC (1=Yes)
10/28/2003	LACDPW	S29		13.50	3.55	5.00	EPA200.8	1	3.55	*	400	49.6	29.3		
10/31/2003	LACDPW	S29		30.40	10.60	5.00	EPA200.8	1	10.60	7.08	200	25.8	16.2		
12/25/2003	LACDPW	S29		53.30	4.88	5.00	EPA200.8	1	4.88	4.88	170	22.2	14.1		
1/1/2004	LACDPW	S29		10.20	7.36	5.00	EPA200.8	1	7.36	7.36	140	18.5	11.9		
1/13/2004	LACDPW	S29		5.96	3.54	5.00	EPA200.8	1	3.54	3.54	450	55.4	32.4		
1/14/2004	LACSD	RB	<	8.00	NA	8.00	EPA200.8	1	8.00	8.00	520	63.5	36.6		
2/11/2004	LACSD	RB	<	8.00	NA	8.00	EPA200.8	1	8.00	8.00	226***	28.2	17.6		
3/10/2004	LACSD	RB	<	8.00	NA	8.00	EPA200.8	1	8.00	8.00	226***	28.2	17.6		
4/14/2004	LACSD	RB	E	4.00	NA	8.00	EPA200.8	1	8.00	8.00	175	22.8	14.4		
5/12/2004	LACSD	RB	<	8.00	NA	8.00	EPA200.8	1	8.00	8.00	226***	28.2	17.6		
6/9/2004	LACSD	RB	<	8.00	NA	8.00	EPA200.8	1	8.00	8.00	226***	28.2	17.6		
7/14/2004	LACSD	RB	<	8.00	NA	8.00	EPA200.8	1	8.00	8.00	181	23.5	14.9		
8/11/2004	LACSD	RB	<	8.00	NA	8.00	EPA200.8	1	8.00	8.00	226***	28.2	17.6		
9/15/2004	LACSD	RB	E	3.00	NA	8.00	EPA200.8	1	8.00	8.00	226***	28.2	17.6		
10/13/2004	LACSD	RB	E	3.00	NA	8.00	EPA200.8	1	8.00	8.00	193	25.0	15.7		
10/17/2004	LACDPW	S29		15.70	5.90	5.00	EPA200.8	1	5.90	5.90	428	52.9	31.0		
10/26/2004	LACDPW	S29		28.00	22.60	5.00	EPA200.8	1	22.60	22.60	90	12.2	8.2	1	1
11/10/2004	LACSD	RB	E	6.00	NA	8.00	EPA200.8	1	8.00	8.00	226***	28.2	17.6		
12/16/2004	LACSD	RB		5.50	NA	0.50	EPA200.8	1	5.50	5.50	226***	28.2	17.6		
1/7/2005	LACDPW	S29		19.50	17.20	5.00	EPA200.8	1	17.20	17.20	110	14.7	9.7	1	1
2/2/2005	LACSD	RB		2.70	NA	0.50	EPA200.8	1	2.70	2.70	226***	28.2	17.6		
2/9/2005	LACSD	RB		2.90	NA	0.50	EPA200.8	1	2.90	2.90	243	31.0	19.1		
3/2/2005	LACSD	RA		28.00	NA	0.50	EPA200.8	1	28.00	28.00	292**	35.7	21.7		1
3/2/2005	LACSD	RB		1.90	NA	0.50	EPA200.8	1	1.90	1.90	261	33.2	20.3		
3/9/2005	LACDPW	S29		18.50	3.83	5.00	EPA200.8	1	3.83	3.83	460	56.6	33.0		
4/13/2005	LACSD	RA		29.00	NA	0.50	EPA200.8	1	29.00	29.00	433	53.5	31.3		
4/13/2005	LACSD	RB		3.60	NA	0.50	EPA200.8	1	3.60	3.60	276	35.0	21.3		
5/18/2005	LACSD	RB		1.80	NA	0.50	EPA200.8	1	1.80	1.80	251	32.0	19.7		
6/15/2005	LACSD	RB		3.20	NA	0.50	EPA200.8	1	3.20	3.20	220	28.2	17.6		
7/20/2005	LACSD	RB		6.40	NA	0.50	EPA200.8	1	6.40	6.40	204	26.3	16.5		
8/17/2005	LACSD	RB		3.70	NA	0.50	EPA200.8	1	3.70	3.70	226***	28.2	17.6		
9/14/2005	LACSD	RB		7.00	NA	0.50	EPA200.8	1	7.00	7.00	220	28.2	17.6		
10/17/2005	LACDPW	S29		37.30	8.17	5.00	EPA200.8	1	8.17	8.17	128	17.0	11.1		
10/26/2005	LACSD	RB		7.90	NA	0.50	EPA200.8	1	7.90	7.90	257	32.7	20.1		
11/29/2005	LACDPW	S29		7.40	2.36	5.00	EPA200.8	1	2.36	2.36	408	50.6	29.8		
11/30/2005	LACSD	RB		4.20	NA	0.50	EPA200.8	1	4.20	4.20	226***	28.2	17.6		
12/21/2005	LACSD	RB		4.20	NA	0.50	EPA200.8	1	4.20	4.20	226***	28.2	17.6		
12/31/2005	LACDPW	S29		10.80	4.59	5.00	EPA200.8	1	4.59	4.59	90	12.2	8.2		
1/14/2006	LACDPW	S29		10.00	6.04	5.00	EPA200.8	1	6.04	6.04	245	31.3	19.3		
1/18/2006	LACSD	RA		0.80	NA	0.50	EPA200.8	1	0.80	0.80	249	31.7	19.5		
1/18/2006	LACSD	RB		4.60	NA	0.50	EPA200.8	1	4.60	4.60	222	28.5	17.7		

APPENDIX C - TABLE C1
SANTA CLARA RIVER REACH 6 - COPPER

Sample Date	Source	Location	Qualifier	Total Copper (ug/L)	Dissolved Copper (ug/L)	PQL/RL (ug/L)	Method	Is Sample Usable? (1=Yes)	Conservative Dissolved Copper Concentration	4-Day Average Concentration	Hardness	Dissolved Copper CMC (ug/L)	Dissolved Copper CCC (ug/L)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed CCC (1=Yes)
2/15/2006	LACSD	RA		1.63	NA	0.50	EPA200.8	1	1.63	1.63	292**	35.7	21.7		
2/15/2006	LACSD	RB		7.21	NA	0.50	EPA200.8	1	7.21	7.21	226***	28.2	17.6		
2/17/2006	LACDPW	S29		7.33	3.32	5.00	EPA200.8	1	3.32	3.32	340	42.6	25.5		
3/15/2006	LACSD	RA		1.42	NA	0.50	EPA200.8	1	1.42	1.42	292**	35.7	21.7		
3/15/2006	LACSD	RB		3.75	NA	0.50	EPA200.8	1	3.75	3.75	226***	28.2	17.6		
4/19/2006	LACSD	RA		15.90	NA	0.50	EPA200.8	1	15.90	15.90	282	35.7	21.7		
4/19/2006	LACSD	RB		3.64	NA	0.50	EPA200.8	1	3.64	3.64	248	31.6	19.5		
4/25/2006	LACDPW	S29		33.50	2.52	5.00	EPA200.8	1	2.52	2.52	360	44.9	26.8		
5/17/2006	LACSD	RA		1.04	NA	0.50	EPA200.8	1	1.04	1.04	292**	35.7	21.7		
5/17/2006	LACSD	RB		4.67	NA	0.50	EPA200.8	1	4.67	4.67	226***	28.2	17.6		
6/21/2006	LACSD	RB		2.71	NA	0.50	EPA200.8	1	2.71	2.71	226***	28.2	17.6		
7/19/2006	LACSD	RA		0.80	NA	0.50	EPA200.8	1	0.80	0.80	319	40.1	24.1		
7/19/2006	LACSD	RB		2.10	NA	0.50	EPA200.8	1	2.10	2.10	195	25.2	15.8		
8/23/2006	LACSD	RA		1.10	NA	0.50	EPA200.8	1	1.10	1.10	292**	35.7	21.7		
8/23/2006	LACSD	RB		3.64	NA	0.50	EPA200.8	1	3.64	3.64	226***	28.2	17.6		
9/13/2006	LACSD	RB		3.60	NA	0.50	EPA200.8	1	3.60	3.60	226***	28.2	17.6		
10/18/2006	LACSD	RB		3.73	NA	0.50	EPA200.8	1	3.73	3.73	373	46.5	27.6		
10/31/2006	LACDPW	S29		22.40	2.19	5.00	EPA200.8	1	2.19	2.19	430	53.1	31.1		
11/15/2006	LACSD	RB		4.30	NA	0.50	EPA200.8	1	4.30	4.30	226***	28.2	17.6		
12/9/2006	LACDPW	S29		50.30	5.08	5.00	EPA200.8	1	5.08	5.08	250	31.9	19.6		
12/16/2006	LACDPW	S29		28.30	4.99	5.00	EPA200.8	1	4.99	4.99	370	46.1	27.4		
12/20/2006	LACSD	RB		5.92	NA	0.50	EPA200.8	1	5.92	5.92	226***	28.2	17.6		
1/30/2007	LACDPW	S29		38.20	6.10	5.00	EPA200.8	1	6.10	6.10	310	39.0	23.5		
2/14/2007	LACSD	RB		8.99	NA	0.50	EPA200.8	1	8.99	8.99	232	29.7	18.4		
2/19/2007	LACDPW	S29		31.90	4.68	5.00	EPA200.8	1	4.68	*	210	27.0	16.9		
2/22/2007	LACDPW	S29		50.50	5.13	5.00	EPA200.8	1	5.13	4.91	160	20.9	13.4		
2/28/2007	LACSD	RB		8.03	NA	0.50	EPA200.8	1	8.03	8.03	226***	28.2	17.6		
3/14/2007	LACSD	RB		6.26	NA	0.50	EPA200.8	1	6.26	6.26	226***	28.2	17.6		
4/2/2007	LACDPW	S29		22.10	2.88	5.00	EPA200.8	1	2.88	2.88	440	54.3	31.8		
4/11/2007	LACSD	RB		6.43	NA	0.50	EPA200.8	1	6.43	6.43	235	30.1	18.6		

LACSD - Sanitation Districts of Los Angeles County
LACDPW - Los Angeles County Department of Public Works
* - Data is used in calculation of a 4-day average
** - Average RA hardness used when concurrent hardness was unavailable
*** - Average RB hardness used when concurrent hardness was unavailable

3 of 69 4-day averages exceed Criterion Continuous Concentration (CCC)

2 of 71 samples exceed Criterion Maximum Concentration (CMC)

APPENDIX D - TABLE D1
SAN GABRIEL RIVER REACH 2 - CYANIDE

Sample Date	Source	Location	Qualifier	Total Cyanide (ug/L)	PQL/RL (ug/L)	Cyanide CMC (ug/L)	Does Sample Exceed CMC (1=Yes)	Cyanide CCC (ug/L)	Is Sample Usable for CCC? (1=Yes)	Does Sample Exceed CCC (1=Yes)
7/3/2003	LACSD	R11	<	5.0	5.0	22		5.2	1	
7/14/2003	LACSD	RA	<	5.0	5.0	22		5.2	1	
8/13/2003	LACSD	RA	<	5.0	5.0	22		5.2	1	
8/14/2003	LACSD	R11	<	5.0	5.0	22		5.2	1	
9/8/2003	LACSD	RA	<	5.0	5.0	22		5.2	1	
9/9/2003	LACSD	R11	E	3.5	5.0	22		5.2	1	
10/16/2003	LACSD	R11	<	10.0	10.0	22		5.2		
10/16/2003	LACSD	RA	<	10.0	10.0	22		5.2		
11/11/2003	LACSD	R11	<	5.0	5.0	22		5.2	1	
11/11/2003	LACSD	RA	<	5.0	5.0	22		5.2	1	
11/20/2003	LACSD	R11	E	3.5	5.0	22		5.2	1	
11/20/2003	LACSD	RA	<	5.0	5.0	22		5.2	1	
12/11/2003	LACSD	R11	E	3.4	5.0	22		5.2	1	
1/6/2004	LACSD	R11	<	5.0	5.0	22		5.2	1	
2/11/2004	LACSD	R11	<	5.0	5.0	22		5.2	1	
2/11/2004	LACSD	RA	<	5.0	5.0	22		5.2	1	
3/10/2004	LACSD	R11	E	1.9	5.0	22		5.2	1	
3/10/2004	LACSD	RA		7.0	5.0	22		5.2	1	1
4/14/2004	LACSD	R11	E	3.7	5.0	22		5.2	1	
4/14/2004	LACSD	RA	E	2.6	5.0	22		5.2	1	
5/12/2004	LACSD	R11	E	1.4	5.0	22		5.2	1	
5/12/2004	LACSD	RA	E	2.0	5.0	22		5.2	1	
6/9/2004	LACSD	R11	<	5.0	5.0	22		5.2	1	
7/7/2004	LACSD	R11	<	5.0	5.0	22		5.2	1	
7/7/2004	LACSD	RA	E	1.8	5.0	22		5.2	1	
8/11/2004	LACSD	R11	E	2.6	5.0	22		5.2	1	
8/11/2004	LACSD	RA	E	2.6	5.0	22		5.2	1	
9/15/2004	LACSD	R11	E	3.4	5.0	22		5.2	1	
9/15/2004	LACSD	RA	<	5.0	5.0	22		5.2	1	
10/6/2004	LACSD	R11	E	2.2	5.0	22		5.2	1	
10/6/2004	LACSD	RA	E	2.2	5.0	22		5.2	1	
11/17/2004	LACSD	R11	<	5.0	5.0	22		5.2	1	
12/15/2004	LACSD	R10	E	2.3	5.0	22		5.2	1	
12/15/2004	LACSD	R11	E	2.0	5.0	22		5.2	1	
12/15/2004	LACSD	RA	E	1.1	5.0	22		5.2	1	
1/19/2005	LACSD	R10	<	5.0	5.0	22		5.2	1	
1/19/2005	LACSD	R11	<	5.0	5.0	22		5.2	1	
1/25/2005	LACSD	RA	<	5.0	5.0	22		5.2	1	
2/28/2005	LACSD	R10	<	5.0	5.0	22		5.2	1	
2/28/2005	LACSD	R11	<	5.0	5.0	22		5.2	1	
2/28/2005	LACSD	RA	<	5.0	5.0	22		5.2	1	
3/16/2005	LACSD	R11	E	3.0	5.0	22		5.2	1	
3/16/2005	LACSD	RA	E	2.2	5.0	22		5.2	1	
4/13/2005	LACSD	R11	E	3.1	5.0	22		5.2	1	
4/13/2005	LACSD	RA	E	1.7	5.0	22		5.2	1	
5/11/2005	LACSD	R11	E	2.6	5.0	22		5.2	1	
5/11/2005	LACSD	RA	E	2.9	5.0	22		5.2	1	
6/15/2005	LACSD	R11	E	2.0	5.0	22		5.2	1	
6/22/2005	LACSD	RA	E	1.1	5.0	22		5.2	1	
7/13/2005	LACSD	R11	E	3.2	5.0	22		5.2	1	
7/20/2005	LACSD	RA	E	4.9	5.0	22		5.2	1	
8/10/2005	LACSD	R11	E	1.7	5.0	22		5.2	1	
8/24/2005	LACSD	RA	<	5.0	5.0	22		5.2	1	
9/14/2005	LACSD	R11	E	1.4	5.0	22		5.2	1	
9/28/2005	LACSD	RA	E	1.8	5.0	22		5.2	1	
10/5/2005	LACSD	RA	<	5.0	5.0	22		5.2	1	
10/26/2005	LACSD	R11	E	2.8	5.0	22		5.2	1	
11/9/2005	LACSD	RA	E	1.4	5.0	22		5.2	1	
11/16/2005	LACSD	R11	E	1.1	5.0	22		5.2	1	
12/14/2005	LACSD	RA	<	5.0	5.0	22		5.2	1	
12/21/2005	LACSD	R11	<	5.0	5.0	22		5.2	1	
1/11/2006	LACSD	R11	E	1.2	5.0	22		5.2	1	
1/18/2006	LACSD	RA	E	1.1	5.0	22		5.2	1	

APPENDIX D - TABLE D1
SAN GABRIEL RIVER REACH 2 - CYANIDE

Sample Date	Source	Location	Qualifier	Total Cyanide (ug/L)	PQL/RL (ug/L)	Cyanide CMC (ug/L)	Does Sample Exceed CMC (1=Yes)	Cyanide CCC (ug/L)	Is Sample Usable for CCC? (1=Yes)	Does Sample Exceed CCC (1=Yes)
2/1/2006	LACSD	R11	E	1.4	5.0	22		5.2	1	
2/8/2006	LACSD	RA	<	5.0	5.0	22		5.2	1	
2/27/2006	LACSD	R12	<	5.0	5.0	22		5.2	1	
3/15/2006	LACSD	R10	<	5.0	5.0	22		5.2	1	
3/15/2006	LACSD	R11	<	5.0	5.0	22		5.2	1	
3/27/2006	LACSD	RA	E	2.2	5.0	22		5.2	1	
4/12/2006	LACSD	RA	<	5.0	5.0	22		5.2	1	
4/19/2006	LACSD	R11	E	2.3	5.0	22		5.2	1	
4/25/2006	LACSD	R12	<	5.0	5.0	22		5.2	1	
5/10/2006	LACSD	RA	<	5.0	5.0	22		5.2	1	
5/15/2006	LACSD	R12	<	5.0	5.0	22		5.2	1	
5/17/2006	LACSD	R11	E	1.4	5.0	22		5.2	1	
6/7/2006	LACSD	R11	E	1.1	5.0	22		5.2	1	
6/14/2006	LACSD	RA	E	2.3	5.0	22		5.2	1	
6/19/2006	LACSD	R12	E	1.7	5.0	22		5.2	1	
7/12/2006	LACSD	R11	E	1.3	5.0	22		5.2	1	
7/19/2006	LACSD	RA	E	2.0	5.0	22		5.2	1	
7/31/2006	LACSD	R12	<	5.0	5.0	22		5.2	1	
8/9/2006	LACSD	RA	<	5.0	5.0	22		5.2	1	
8/16/2006	LACSD	R10	<	5.0	5.0	22		5.2	1	
8/16/2006	LACSD	R11	<	5.0	5.0	22		5.2	1	
8/21/2006	LACSD	R12	E	1.1	5.0	22		5.2	1	
9/13/2006	LACSD	R11	<	5.0	5.0	22		5.2	1	
9/18/2006	LACSD	R12	<	5.0	5.0	22		5.2	1	
9/20/2006	LACSD	RA	E	1.9	5.0	22		5.2	1	
10/11/2006	LACSD	R11	<	5.0	5.0	22		5.2	1	
10/18/2006	LACSD	RA	<	5.0	5.0	22		5.2	1	
11/8/2006	LACSD	R11	<	5.0	5.0	22		5.2	1	
11/15/2006	LACSD	RA	<	5.0	5.0	22		5.2	1	
12/13/2006	LACSD	R11	E	3.1	5.0	22		5.2	1	
12/20/2006	LACSD	RA	E	3.1	5.0	22		5.2	1	
1/10/2007	LACSD	R10	E	1.6	5.0	22		5.2	1	
1/10/2007	LACSD	R11	E	2.4	5.0	22		5.2	1	
1/17/2007	LACSD	RA	E	2.3	5.0	22		5.2	1	
2/14/2007	LACSD	R11	E	1.1	5.0	22		5.2	1	
2/21/2007	LACSD	RA	<	5.0	5.0	22		5.2	1	
3/14/2007	LACSD	R11	<	5.0	5.0	22		5.2	1	
3/27/2007	LACSD	RA	E	1.7	5.0	22		5.2	1	
4/11/2007	LACSD	R10	<	5.0	5.0	22		5.2	1	
4/11/2007	LACSD	R11	<	5.0	5.0	22		5.2	1	
4/18/2007	LACSD	RA	E	2.3	5.0	22		5.2	1	
5/9/2007	LACSD	R11	E	2.5	5.0	22		5.2	1	
5/16/2007	LACSD	RA	E	3.6	5.0	22		5.2	1	
6/13/2007	LACSD	R11	E	3.5	5.0	22		5.2	1	
6/20/2007	LACSD	RA	E	2.6	5.0	22		5.2	1	

LACSD - Sanitation Districts of Los Angeles County

Regional Board Dataset
8 of 20 4-day averages exceed Criterion Continuous Concentration (CCC)

1 of 20 samples exceed Criterion Maximum Concentration (CMC)

1 of 106 additional 4-day averages exceed Criterion Continuous Concentration (CCC)

0 of 108 additional samples exceed Criterion Maximum Concentration (CMC)

Resulting Data Set
9 of 126 4-day averages exceed Criterion Continuous Concentration (CCC)

1 of 128 samples exceed Criterion Maximum Concentration (CMC)

APPENDIX E - TABLE E1
SANTA CLARA RIVER REACH 6 - CHLORPYRIFOS

Sample Date	Source	Location	Qualifier	Chlorpyrifos (ug/L)	Method	PQL/RL (ug/L)	QA/QC	Fish and Game 4-Day CCC	Is Sample Usable? (1=Yes)	Qualifier	4-Day Average Concentration (ug/L)	Does 4-Day Average Exceed CCC? (1=Yes)
10/31/2001	SWAMP	SCTBQT		0.059	ELISA	0.05	Pass	0.05	1		0.059	1
10/31/2001	SWAMP	SCTBQT	<	0.05	EPA 8141A	0.05	Fail	0.05			**	
11/15/2001	SWAMP	SCTBQT		0.077	ELISA	0.05	Pass	0.05	1		0.077	1
8/5/2002	SWAMP	SCTBQT		0.068	ELISA	0.05	Fail	0.05			**	
8/5/2002	SWAMP	SCTBQT		0.053	ELISA	0.05	Fail	0.05			**	
8/20/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
8/28/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
8/28/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
9/4/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
9/4/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
9/19/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
9/19/2002	SWAMP	SCTBQT		0.055	ELISA	0.05	Fail	0.05			**	
10/4/2002	SWAMP	SCTBQT		0.051	ELISA	0.05	Fail	0.05			**	
10/4/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
10/10/2002	LACDPW	S29	<	0.05	EPA 505	0.05	Pass	0.05	1	<	0.05	
10/19/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
10/19/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
11/7/2002	SWAMP	SCTBQT		0.061	ELISA	0.05	Fail	0.05			**	
11/8/2002	LACDPW	S29	<	0.05	EPA 501	0.05	Pass	0.05	1	<	0.05	
11/18/2002	SWAMP	SCTBQT		0.067	ELISA	0.05	Fail	0.05			**	
12/3/2002	SWAMP	SCTBQT		0.061	ELISA	0.05	Fail	0.05			**	
12/16/2002	LACDPW	S29	<	0.05	EPA 502	0.05	Pass	0.05	1	<	0.05	
12/18/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
12/18/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
1/2/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
1/2/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
1/13/2003	SWAMP	SCTBQT	<	0.05	EPA 8141A	0.05	Fail	0.05			**	
1/17/2003	SWAMP	SCTBQT		0.051	ELISA	0.05	Fail	0.05			**	
1/17/2003	SWAMP	SCTBQT		0.062	ELISA	0.05	Fail	0.05			**	
2/1/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
2/1/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
2/11/2003	LACDPW	S29	<	0.05	EPA 503	0.05	Pass	0.05	1	<	0.05	
2/16/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
2/16/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
3/3/2003	SWAMP	SCTBQT		0.096	ELISA	0.05	Fail	0.05			**	
3/3/2003	SWAMP	SCTBQT		0.07	ELISA	0.05	Fail	0.05			**	
3/15/2003	LACDPW	S29	<	0.05	EPA 504	0.05	Pass	0.05	1	<	0.05	
3/18/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
4/2/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
4/2/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
4/17/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
4/17/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
4/30/2003	LACDPW	S29	<	0.05	EPA 506	0.05	Pass	0.05	1	<	0.05	
5/2/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
5/2/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
5/17/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
5/17/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
10/28/2003	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
10/31/2003	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1		*	
12/25/2003	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
1/1/2004	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
1/13/2004	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
10/17/2004	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
10/26/2004	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
EPA ceased sale of all indoor and outdoor non-agricultural products containing chlorpyrifos on December 31, 2004.												
1/7/2005	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
3/9/2005	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
10/17/2005	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
11/29/2005	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
12/31/2005	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
1/14/2006	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
2/17/2006	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
4/25/2006	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
10/31/2006	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
12/9/2006	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	

APPENDIX E - TABLE E1
SANTA CLARA RIVER REACH 6 - CHLORPYRIFOS

Sample Date	Source	Location	Qualifier	Chlorpyrifos (ug/L)	Method	PQL/RL (ug/L)	QA/QC	Fish and Game 4-Day CCC	Is Sample Usable? (1=Yes)	Qualifier	4-Day Average Concentration (ug/L)	Does 4-Day Average Exceed CCC? (1=Yes)
12/16/2006	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
1/30/2007	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
2/19/2007	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1		*	
2/22/2007	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
4/2/2007	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
9/21/2007	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
11/25/2007	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1		*	
11/29/2007	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
12/6/2007	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
4/9/2008	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	

* = Data averaged for 4-Day average
** = Data failed QAPP provisions
LACDPW - Los Angeles County Department of Public Works
SWAMP - Surface Water Ambient Monitoring Program
Fish and Game - California Department of Fish and Game

2 of 32 4-day averages exceed Criterion Continuous Concentration (CCC)

0 of 18 4-day averages exceed CCC since December 31, 2004 EPA ban on sales

APPENDIX G - TABLE G1
SANTA CLARA RIVER REACH 6 - DIAZINON

Date	Source	Location	Qualifier	Diazinon (ug/L)	Method	PQL/RL (ug/L)	QA/QC	CCC (ug/L)	Is Sample Usable? (1=Yes)	Qualifier	4-day Average (ug/L)	Exceeds CCC (1 = Yes)
10/31/2001	SWAMP	403STCBQT		2	ELISA	0.03	Pass	0.1	1		2	1
10/31/2001	SWAMP	403STCBQT		2.25	EPA 8141A	0.02	Fail	0.1			**	
11/15/2001	SWAMP	403STCBQT		1.69	ELISA	0.03	Pass	0.1	1		1.69	1
8/5/2002	SWAMP	403STCBQT		4.29	ELISA	0.03	Fail	0.1			**	
8/5/2002	SWAMP	403STCBQT		4.14	ELISA	0.03	Fail	0.1			**	
8/20/2002	SWAMP	403STCBQT		6.7	ELISA	0.03	Fail	0.1			**	
8/28/2002	SWAMP	403BQT104		0.858	ELISA	0.03	Fail	0.1			**	
8/28/2002	SWAMP	403BQT105		0.435	ELISA	0.03	Fail	0.1			**	
8/28/2002	SWAMP	403BQT106		4.07	ELISA	0.03	Fail	0.1			**	
8/28/2002	SWAMP	403BQT106		3.98	ELISA	0.03	Fail	0.1			**	
8/28/2002	SWAMP	403BQT109		0.862	ELISA	0.03	Fail	0.1			**	
8/28/2002	SWAMP	403STCBQT		5.74	ELISA	0.03	Fail	0.1			**	
8/28/2002	SWAMP	403STCBQT		5.75	ELISA	0.03	Fail	0.1			**	
9/4/2002	SWAMP	403STCBQT		6.05	ELISA	0.03	Fail	0.1			**	
9/4/2002	SWAMP	403STCBQT		5.57	ELISA	0.03	Fail	0.1			**	
9/19/2002	SWAMP	403STCBQT		1.29	ELISA	0.03	Fail	0.1			**	
9/19/2002	SWAMP	403STCBQT		1.23	ELISA	0.03	Fail	0.1			**	
10/4/2002	SWAMP	403STCBQT		1.52	ELISA	0.03	Fail	0.1			**	
10/10/2002	LADPW	S29	<	0.01	EPA505	0.01	Pass	0.1	1	<	0.01	
10/19/2002	SWAMP	403STCBQT		2.67	ELISA	0.03	Fail	0.1			**	
10/19/2002	SWAMP	403STCBQT		2.55	ELISA	0.03	Fail	0.1			**	
11/7/2002	SWAMP	403STCBQT		0.813	ELISA	0.03	Fail	0.1			**	
11/8/2002	LADPW	S29		0.43	EPA501	0.01	Pass	0.1	1		0.43	1
11/18/2002	SWAMP	403STCBQT		1.07	ELISA	0.03	Fail	0.1			**	
12/3/2002	SWAMP	403STCBQT		0.479	ELISA	0.03	Fail	0.1			**	
12/16/2002	LADPW	S29	<	0.01	EPA502	0.01	Pass	0.1	1	<	0.01	
12/18/2002	SWAMP	403STCBQT		1.67	ELISA	0.03	Fail	0.1			**	
12/18/2002	SWAMP	403STCBQT		1.57	ELISA	0.03	Fail	0.1			**	
1/2/2003	SWAMP	403STCBQT		0.499	ELISA	0.03	Fail	0.1			**	
1/2/2003	SWAMP	403STCBQT		0.382	ELISA	0.03	Fail	0.1			**	
1/13/2003	SWAMP	403STCBQT		0.4	EPA 8141A	0.02	Fail	0.1			**	
1/17/2003	SWAMP	403STCBQT		0.321	ELISA	0.03	Fail	0.1			**	
1/17/2003	SWAMP	403STCBQT		0.277	ELISA	0.03	Fail	0.1			**	
2/1/2003	SWAMP	403STCBQT		0.805	ELISA	0.03	Fail	0.1			**	
2/1/2003	SWAMP	403STCBQT		0.718	ELISA	0.03	Fail	0.1			**	
2/11/2003	LADPW	S29		0.265	EPA503	0.01	Pass	0.1	1		0.265	1
2/16/2003	SWAMP	403STCBQT		0.623	ELISA	0.03	Fail	0.1			**	
2/16/2003	SWAMP	403STCBQT		0.556	ELISA	0.03	Fail	0.1			**	
3/3/2003	SWAMP	403STCBQT		5.52	ELISA	0.03	Fail	0.1			**	
3/3/2003	SWAMP	403STCBQT		4.97	ELISA	0.03	Fail	0.1			**	
3/15/2003	LADPW	S29		0.05	EPA504	0.01	Pass	0.1	1		0.05	
3/18/2003	SWAMP	403STCBQT		0.054	ELISA	0.03	Fail	0.1			**	
4/2/2003	SWAMP	403STCBQT		0.979	ELISA	0.03	Fail	0.1			**	
4/2/2003	SWAMP	403STCBQT		0.947	ELISA	0.03	Fail	0.1			**	
4/17/2003	SWAMP	403STCBQT		0.315	ELISA	0.03	Fail	0.1			**	
4/17/2003	SWAMP	403STCBQT		0.35	ELISA	0.03	Fail	0.1			**	
4/30/2003	LADPW	S29		0.023	EPA506	0.01	Pass	0.1	1		0.023	
5/2/2003	SWAMP	403STCBQT		0.512	ELISA	0.03	Fail	0.1			**	
5/2/2003	SWAMP	403STCBQT		0.499	ELISA	0.03	Fail	0.1			**	
5/17/2003	SWAMP	403STCBQT		1.32	ELISA	0.03	Fail	0.1			**	
5/17/2003	SWAMP	403STCBQT		1.33	ELISA	0.03	Fail	0.1			**	
10/28/2003	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1		*	
10/31/2003	LADPW	S29		0.082	EPA507	0.01	Pass	0.1	1	<	0.05	
12/25/2003	LADPW	S29		0.021	EPA507	0.01	Pass	0.1	1		0.021	
1/1/2004	LADPW	S29		0.028	EPA507	0.01	Pass	0.1	1		0.028	
1/7/2004	LACSD	RB		0.39	SW8141	0.05	Pass	0.1	1		0.39	1
1/13/2004	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
4/14/2004	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
10/17/2004	LADPW	S29		0.41	EPA507	0.01	Pass	0.1	1		0.41	1
10/26/2004	LADPW	S29		0.03	EPA507	0.01	Pass	0.1	1		0.03	
11/1/2004	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	

APPENDIX G - TABLE G1
SANTA CLARA RIVER REACH 6 - DIAZINON

Date	Source	Location	Qualifier	Diazinon (ug/L)	Method	PQL/RL (ug/L)	QA/QC	CCC (ug/L)	Is Sample Usable? (1=Yes)	Qualifier	4-day Average (ug/L)	Exceeds CCC (1 = Yes)
12/22/2004	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
EPA ceased sale of all indoor and outdoor non-agricultural products containing diazinon on December 31, 2004.												
1/7/2005	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
1/17/2005	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
2/7/2005	LACSD	RB		0.51	SW8141	0.05	Pass	0.1	1		0.51	1
2/9/2005	LACSD	RA	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
3/9/2005	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
4/13/2005	LACSD	RA	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
4/13/2005	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
7/6/2005	LACSD	RB	<	0.1	SW8141	0.1	Pass	0.1	1	<	0.1	
10/3/2005	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
10/17/2005	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
11/29/2005	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
12/31/2005	LADPW	S29		0.01	EPA507	0.01	Pass	0.1	1		0.01	
1/9/2006	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
1/14/2006	LADPW	S29		0.11	EPA507	0.01	Pass	0.1	1		0.11	1
2/17/2006	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
4/17/2006	LACSD	RA	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
4/17/2006	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
4/20/2006	LACSD	RA	<	0.05	SW8141	0.05	Pass	0.1	1		*	
4/25/2006	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
7/5/2006	LACSD	RA	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
7/5/2006	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
10/16/2006	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
10/31/2006	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
12/9/2006	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
12/16/2006	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
1/3/2007	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
1/30/2007	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
2/19/2007	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
2/22/2007	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1		*	
4/2/2007	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
4/2/2007	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
7/16/2007	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
9/21/2007	LADPW	S29	<	0.05	EPA 507	0.01	Pass	0.1	1	<	0.05	
10/15/2007	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
11/25/2007	LADPW	S29	<	0.05	EPA 507	0.01	Pass	0.1	1		*	
11/29/2007	LADPW	S29	<	0.05	EPA 507	0.01	Pass	0.1	1	<	0.05	
12/6/2007	LADPW	S29	<	0.05	EPA 507	0.01	Pass	0.1	1	<	0.05	
1/9/2008	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
4/7/2008	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
4/9/2008	LADPW	S29	<	0.05	EPA 507	0.01	Pass	0.1	1	<	0.05	
7/14/2008	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	

* = Data averaged for 4-Day average
** = Data failed QAPP provisions
LADPW - Los Angeles Department of Public Works
SWAMP - Surface Water Ambient Monitoring Program
LACSD - Sanitation Districts of Los Angeles County

2 of 29 4-day averages from January 1, 2005 to April 2, 2007 exceed Criterion Continuous Concentration (CCC)

2 of 38 4-day averages from January 1, 2005 to July 14, 2008 exceed Criterion Continuous Concentration (CCC)

APPENDIX I - TABLE I1
COYOTE CREEK - DIAZINON

Date	Source	Location	Qualifier	Diazinon (ug/L)	Method	PQL/RL (ug/L)	CMC (ug/L)	Exceeds CMC (1 = Yes)	Is Sample Usable? (1=Yes)	Qualifier	4-day Average (ug/L)	CCC (ug/L)	Exceeds CCC (1 = Yes)
10/28/2003	LACDPW	S13		0.181	EPA507	0.01	0.16	1	1		*	0.1	
10/31/2003	LACDPW	S13		0	EPA507	0.01	0.16		1		0.0905	0.1	
12/2/2003	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
12/2/2003	LACSD	RA1	E	0.03	SW8141	0.05	0.16		1	E	0.03	0.1	
12/25/2003	LACDPW	S13		0	EPA507	0.01	0.16		1		0	0.1	
1/1/2004	LACDPW	S13		0.104	EPA507	0.01	0.16		1		0.104	0.1	1
1/7/2004	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
1/7/2004	LACSD	RA1	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
1/13/2004	LACDPW	S13		0	EPA507	0.01	0.16		1		0	0.1	
4/5/2004	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
4/5/2004	LACSD	RA1	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
7/12/2004	LACSD	RA1		0.24	SW8141	0.05	0.16	1	1		0.24	0.1	1
7/16/2004	LACSD	RA		0.39	SW8141	0.05	0.16	1	1		0.39	0.1	1
7/16/2004	LACSD	RA1	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
10/4/2004	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
10/4/2004	LACSD	RA1		0.14	SW8141	0.05	0.16		1		0.14	0.1	1
10/17/2004	LACDPW	S13		0.065	EPA507	0.01	0.16		1		0.065	0.1	
10/26/2004	LACDPW	S13		0.06	EPA507	0.01	0.16		1		0.06	0.1	
11/16/2004	LACDPW	S13		ND	EPA507	0.01	0.16		1		ND	0.1	
12/5/2004	LACDPW	S13		0.079	EPA507	0.01	0.16		1		0.079	0.1	
EPA ceased sale of all indoor and outdoor non-agricultural products containing diazinon on December 31, 2004.													
1/7/2005	LACDPW	S13		ND	EPA507	0.01	0.16		1		ND	0.1	
1/17/2005	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
1/17/2005	LACSD	RA1	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
3/9/2005	LACDPW	S13		ND	EPA507	0.01	0.16		1		ND	0.1	
4/4/2005	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
4/4/2005	LACSD	RA1	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
6/23/2005	LACSD	RA		0.19	SW8141	0.05	0.16	1	1		0.19	0.1	1
7/18/2005	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
7/18/2005	LACSD	RA1		0.19	SW8141	0.05	0.16	1	1		0.19	0.1	1
10/10/2005	LACSD	RA		0.096	SW8141	0.05	0.16		1		0.096	0.1	
10/10/2005	LACSD	RA1	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
10/17/2005	LACDPW	S13		0	EPA507	0.01	0.16		1		0	0.1	
12/31/2005	LACDPW	S13		0	EPA507	0.01	0.16		1		0	0.1	
1/5/2006	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
1/5/2006	LACSD	RA1	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
1/14/2006	LACDPW	S13		0	EPA507	0.01	0.16		1		0	0.1	
1/24/2006	LACDPW	S13		0	EPA507	0.01	0.16		1		0	0.1	
2/17/2006	LACDPW	S13		0	EPA507	0.01	0.16		1		0	0.1	
3/3/2006	LACDPW	S13		0	EPA507	0.01	0.16		1		0	0.1	
4/10/2006	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
4/10/2006	LACSD	RA1	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
4/25/2006	LACDPW	S13		0	EPA507	0.01	0.16		1		0	0.1	
7/12/2006	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
7/12/2006	LACSD	RA1	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
10/11/2006	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
10/11/2006	LACSD	RA1	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
11/1/2006	LACDPW	S13		ND	EPA507	0.01	0.16		1		ND	0.1	
12/9/2006	LACDPW	S13		ND	EPA507	0.01	0.16		1		ND	0.1	
1/8/2007	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
1/8/2007	LACSD	RA1	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
2/10/2007	LACDPW	S13		ND	EPA507	0.01	0.16		1		ND	0.1	
2/19/2007	LACDPW	S13		ND	EPA507	0.01	0.16		1		*	0.1	
2/22/2007	LACDPW	S13		ND	EPA507	0.01	0.16		1		ND	0.1	
4/2/2007	LACDPW	S13		0.147	EPA507	0.01	0.16		1		0.147	0.1	1
4/11/2007	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
4/11/2007	LACSD	RA1	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
7/9/2007	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
7/9/2007	LACSD	RA1	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
9/21/2007	LACDPW	S13		ND	EPA507	0.01	0.16		1		ND	0.1	
10/8/2007	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
10/8/2007	LACSD	RA1	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
10/12/2007	LACDPW	S13		ND	EPA507	0.01	0.16		1		ND	0.1	
11/25/2007	LACDPW	S13		ND	EPA507	0.01	0.16		1		*	0.1	
11/29/2007	LACDPW	S13		ND	EPA507	0.01	0.16		1		ND	0.1	
12/6/2007	LACDPW	S13		ND	EPA507	0.01	0.16		1		ND	0.1	
12/18/2007	LACDPW	S13		ND	EPA507	0.01	0.16		1		ND	0.1	
1/9/2008	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	

APPENDIX I - TABLE I1
COYOTE CREEK - DIAZINON

Date	Source	Location	Qualifier	Diazinon (ug/L)	Method	PQL/RL (ug/L)	CMC (ug/L)	Exceeds CMC (1 = Yes)	Is Sample Usable? (1=Yes)	Qualifier	4-day Average (ug/L)	CCC (ug/L)	Exceeds CCC (1 = Yes)
1/9/2008	LACSD	RA1	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
4/9/2008	LACDPW	S13		ND	EPA507	0.01	0.16		1		ND	0.1	
4/14/2008	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
4/14/2008	LACSD	RA1	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
7/7/2008	LACSD	RA	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	
7/7/2008	LACSD	RA1	<	0.05	SW8141	0.05	0.16		1	<	0.05	0.1	

* = Data averaged for 4-Day average

LACDPW - Los Angeles County Department of Public Works
LACSD - Sanitation Districts of Los Angeles County

3 of 51 4-day averages from January 1, 2005 to July 7, 2008 exceed Criterion Continuous Concentration (CCC)

2 of 53 4-day averages from January 1, 2005 to July 7, 2008 exceed Criterion Maximum Concentration (CMC)

APPENDIX J - TABLE J1
COYOTE CREEK - COPPER

Sample Date	Source	Location	Qualifier	Total Copper (ug/L)	Dissolved Copper (ug/L)	PQL/RL (ug/L)	Method	Conservative Dissolved Copper Concentration (ug/L)	Is Sample Usable for CCC?	4-Day Average Concentration (ug/L)	Hardness	Dissolved Copper CMC (ug/L)	Dissolved Copper CCC (ug/L)	Does Sample Exceed CMC (1=Yes)	Does 4 Day Average Exceed CCC (1=Yes)
10/31/2003	LACDPW	S13		97.5	5.6	5	EPA200.8	5.6	1	5.6	250	31.9	19.6		
12/25/2003	LACDPW	S13		21.6	7.4	5	EPA200.8	7.4	1	7.4	190	24.6	15.5		
1/1/2004	LACDPW	S13		17.6	11.0	5	EPA200.8	11.0	1	11.0	140	18.5	11.9		
1/6/2004	LACSD	R9E	E	6	NA	8	EPA200.8	8.0	1	8.0	310	39.0	14.8		
1/8/2004	LACSD	RA	<	8	NA	8	EPA200.8	8.0	1	8.0	309***	38.9	28.0		
1/8/2004	LACSD	RA1	<	8	NA	8	EPA200.8	8.0	1	8.0	445****	54.9	26.1		
1/13/2004	LACDPW	S13		8.58	6.4	5	EPA200.8	6.4	1	6.4	200	25.8	16.2		
2/10/2004	LACSD	RA	E	4	NA	8	EPA200.8	8.0	**	**	195	25.2	5.0		**
2/10/2004	LACSD	RA1	<	8	NA	8	EPA200.8	8.0	1	8.0	453	55.8	29.9		
3/9/2004	LACSD	RA	E	3	NA	8	EPA200.8	8.0	1	8.0	265	33.7	9.7		
3/9/2004	LACSD	RA1	E	5	NA	8	EPA200.8	8.0	**	**	429	53.0	6.1		**
4/6/2004	LACSD	R9E	E	7	NA	8	EPA200.8	8.0	1	8.0	288	36.4	36.6		
4/6/2004	LACSD	RA		8	NA	8	EPA200.8	8.0	1	8.0	274	34.7	12.7		
4/6/2004	LACSD	RA1		9	NA	8	EPA200.8	9.0	1	9.0	383	47.6	9.3		
5/11/2004	LACSD	RA	E	5	NA	8	EPA200.8	8.0	1	8.0	278	35.2	9.3		
5/11/2004	LACSD	RA1		10	NA	8	EPA200.8	10.0	1	10.0	382	47.5	16.3		
6/8/2004	LACSD	RA	<	8	NA	8	EPA200.8	8.0	**	**	391	48.6	4.3		**
6/8/2004	LACSD	RA1	<	8	NA	8	EPA200.8	8.0	1	8.0	435	53.7	19.4		
7/6/2004	LACSD	R9E		31	NA	8	EPA200.8	31.0	1	31.0	588	71.3	17.6		1
7/13/2004	LACSD	RA		16	NA	8	EPA200.8	16.0	1	16.0	285	36.1	17.9		
7/13/2004	LACSD	RA1	E	4	NA	8	EPA200.8	8.0	1	8.0	382	47.5	8.4		
8/10/2004	LACSD	RA	<	8	NA	8	EPA200.8	8.0	1	8.0	302	38.1	9.9		
8/10/2004	LACSD	RA1	<	8	NA	8	EPA200.8	8.0	1	8.0	388	48.2	24.5		
9/14/2004	LACSD	RA	E	6	NA	8	EPA200.8	8.0	1	8.0	342	42.8	29.0		
9/14/2004	LACSD	RA1	E	5	NA	8	EPA200.8	8.0	1	8.0	214	27.5	23.5		
10/4/2004	LACSD	R9E	<	8	NA	8	EPA200.8	8.0	1	8.0	204	26.3	22.1		
10/4/2004	LACSD	RA	<	8	NA	8	EPA200.8	8.0	1	8.0	202	26.1	40.7		
10/4/2004	LACSD	RA1	E	5	NA	8	EPA200.8	8.0	1	8.0	352	44.0	16.5		
10/17/2004	LACDPW	S13		23.3	7.3	5	EPA200.8	7.3	1	7.3	391	48.6	28.7		
10/26/2004	LACDPW	S13		16.8	7.0	5	EPA200.8	7.0	1	*	371	46.2	*		*
10/28/2004	LACDPW	S13		16.6	8.6	5	EPA200.8	7.8	1	7.8	294	37.1	25.0		
11/15/2004	LACSD	RA	E	5	NA	8	EPA200.8	8.0	1	8.0	297	37.5	18.6		
11/15/2004	LACSD	RA1	<	8	NA	8	EPA200.8	8.0	1	8.0	410	50.8	24.6		
11/16/2004	LACDPW	S13		11.2	4.4	5	EPA200.8	4.4	1	4.4	380	47.3	28.0		
12/5/2004	LACDPW	S13		44.5	5.9	5	EPA200.8	5.9	1	5.9	334	41.9	25.1		
12/7/2004	LACSD	RA	<	8	NA	8	EPA200.8	8.0	1	8.0	224	28.7	23.1		
12/7/2004	LACSD	RA1	<	8	NA	8	EPA200.8	8.0	1	8.0	365	45.5	15.8		

APPENDIX J - TABLE J1
COYOTE CREEK - COPPER

Sample Date	Source	Location	Qualifier	Total Copper (ug/L)	Dissolved Copper (ug/L)	PQL/RL (ug/L)	Method	Conservative Dissolved Copper Concentration (ug/L)	Is Sample Usable for CCC?	4-Day Average Concentration (ug/L)	Hardness	Dissolved Copper CMC (ug/L)	Dissolved Copper CCC (ug/L)	Does Sample Exceed CMC (1=Yes)	Does 4 Day Average Exceed CCC (1=Yes)
1/7/2005	LACDPW	S13		22.5	6.4	5	EPA200.8	6.4	1	6.4	265	33.7	20.6		
1/25/2005	LACSD	R9E		3.6	NA	0.5	EPA200.8	3.6	1	3.6	393	48.8	21.2		
1/25/2005	LACSD	RA		3.1	NA	0.5	EPA200.8	3.1	1	3.1	356	44.5	21.5		
1/25/2005	LACSD	RA1		7	NA	0.5	EPA200.8	7.0	1	7.0	622	75.2	28.7		
2/14/2005	LACSD	RA		2.9	NA	0.5	EPA200.8	2.9	1	2.9	362	45.2	21.9		
2/14/2005	LACSD	RA1		3.7	NA	0.5	EPA200.8	3.7	1	3.7	514	62.8	23.0		
3/9/2005	LACDPW	S13		11.7	5.4	5	EPA200.8	5.4	1	5.4	342	42.8	25.6		
3/22/2005	LACSD	RA		2.2	NA	0.5	EPA200.8	2.2	1	2.2	391	48.6	16.3		
3/22/2005	LACSD	RA1		4.1	NA	0.5	EPA200.8	4.1	1	4.1	574	69.7	23.0		
4/12/2005	LACSD	R9E	E	5	NA	8	EPA200.8	8.0	1	8.0	371	46.2	17.8		
4/12/2005	LACSD	RA		2.3	NA	0.5	EPA200.8	2.3	1	2.3	405	50.2	26.5		
4/12/2005	LACSD	RA1		3.3	NA	0.5	EPA200.8	3.3	1	3.3	531	64.8	26.9		
5/17/2005	LACSD	RA		2.9	NA	0.5	EPA200.8	2.9	1	2.9	296	37.4	28.7		
5/17/2005	LACSD	RA1		6.2	NA	0.5	EPA200.8	6.2	1	6.2	491	60.2	29.6		
6/21/2005	LACSD	RA		5.6	NA	0.5	EPA200.8	5.6	1	*	315	39.6	*		*
6/21/2005	LACSD	RA1		5.5	NA	0.5	EPA200.8	5.5	1	5.5	380	47.3	23.9		
6/23/2005	LACSD	RA		5.7	NA	0.5	EPA200.8	5.7	1	*	491	60.2	*		*
6/23/2005	LACSD	RA		3.3	NA	0.5	EPA200.8	4.9	1	4.9	491	60.2	30.8		
7/19/2005	LACSD	R9E		8.2	NA	0.5	EPA200.8	8.2	1	8.2	294	37.1	20.3		
7/19/2005	LACSD	RA		8.6	NA	0.5	EPA200.8	8.6	1	8.6	260	33.1	22.3		
7/19/2005	LACSD	RA1		9.7	NA	0.5	EPA200.8	9.7	1	9.7	436	53.8	19.6		
8/9/2005	LACSD	RA		7.8	NA	0.5	EPA200.8	7.8	1	7.8	291	36.8	22.5		
8/9/2005	LACSD	RA1		8.4	NA	0.5	EPA200.8	8.4	1	8.4	432	53.3	22.4		
9/6/2005	LACSD	RA		2.4	NA	0.5	EPA200.8	2.4	1	2.4	250	31.9	21.3		
9/6/2005	LACSD	RA1		5.3	NA	0.5	EPA200.8	5.3	1	5.3	441	54.4	22.6		
10/11/2005	LACSD	R9E		1.9	NA	0.5	EPA200.8	1.9	1	1.9	235	30.1	20.5		
10/11/2005	LACSD	RA		2.3	NA	0.5	EPA200.8	2.3	1	2.3	294	37.1	18.4		
10/11/2005	LACSD	RA1		4.5	NA	0.5	EPA200.8	4.5	1	4.5	482	59.1	21.5		
10/17/2005	LACDPW	S13		63.2	10.7	5	EPA200.8	10.7	1	10.7	250	31.9	19.6		
11/15/2005	LACSD	RA		2.6	NA	0.5	EPA200.8	2.6	1	2.6	292	36.9	17.3		
11/15/2005	LACSD	RA1		4.5	NA	0.5	EPA200.8	4.5	1	4.5	516	63.1	20.9		
12/13/2005	LACSD	RA		2.8	NA	0.5	EPA200.8	2.8	1	2.8	275	34.9	20.9		
12/13/2005	LACSD	RA1		4.8	NA	0.5	EPA200.8	4.8	1	4.8	505	61.8	20.9		
12/31/2005	LACDPW	S13		7.52	6.8	5	EPA200.8	6.8	1	6.8	270	34.3	20.9		
1/10/2006	LACSD	R9E	<	5	NA	5	EPA200.8	5.0	1	5.0	326	40.9	21.7		
1/10/2006	LACSD	RA		1.8	NA	0.5	EPA200.8	1.8	1	1.8	295	37.2	30.1		
1/10/2006	LACSD	RA1		3.4	NA	0.5	EPA200.8	3.4	1	3.4	545	66.4	22.1		

APPENDIX J - TABLE J1
COYOTE CREEK - COPPER

Sample Date	Source	Location	Qualifier	Total Copper (ug/L)	Dissolved Copper (ug/L)	PQL/RL (ug/L)	Method	Conservative Dissolved Copper Concentration (ug/L)	Is Sample Usable for CCC?	4-Day Average Concentration (ug/L)	Hardness	Dissolved Copper CMC (ug/L)	Dissolved Copper CCC (ug/L)	Does Sample Exceed CMC (1=Yes)	Does 4 Day Average Exceed CCC (1=Yes)
1/14/2006	LACDPW	S13		13.7	12.5	5	EPA200.8	12.5	1	12.5	252	32.1	19.7		
1/24/2006	LACDPW	S13		9.13	6.0	5	EPA200.8	6.0	1	6.0	234	29.9	18.5		
2/7/2006	LACSD	RA		1.36	NA	0.5	EPA200.8	1.4	1	1.4	263	33.4	19.6		
2/7/2006	LACSD	RA1		4.63	NA	0.5	EPA200.8	4.6	1	4.6	460	56.6	15.2		
2/17/2006	LACDPW	S13		16.7	5.3	5	EPA200.8	5.3	1	5.3	260	33.1	20.3		
3/3/2006	LACDPW	S13		56.9	4.3	5	EPA200.8	4.3	1	4.3	303	38.2	23.1		
3/9/2006	LACSD	RA		1.57	NA	0.5	EPA200.8	1.6	1	1.6	232	29.7	20.3		
3/9/2006	LACSD	RA1		3.98	NA	0.5	EPA200.8	4.0	1	4.0	477	58.6	30.5		
4/17/2006	LACSD	R9E	<	5	NA	5	EPA200.8	5.0	1	5.0	380	47.3	26.2		
4/17/2006	LACSD	RA		2.4	NA	0.5	EPA200.8	2.4	1	2.4	278	35.2	30.3		
4/17/2006	LACSD	RA1		4.05	NA	0.5	EPA200.8	4.1	1	4.1	492	60.3	37.0		
4/25/2006	LACDPW	S13		18.8	5.7	5	EPA200.8	5.7	1	5.7	251	32.0	19.7		
5/16/2006	LACSD	RA		2.31	NA	0.5	EPA200.8	2.3	1	2.3	250	31.9	22.0		
5/16/2006	LACSD	RA1		4.19	NA	0.5	EPA200.8	4.2	1	4.2	388	48.2	14.7		
6/20/2006	LACSD	RA		1.99	NA	0.5	EPA200.8	2.0	1	2.0	216	27.8	24.4		
6/20/2006	LACSD	RA1		4.11	NA	0.5	EPA200.8	4.1	1	4.1	421	52.1	22.8		
6/26/2006	LACSD	RA		2.7	NA	0.5	EPA200.8	2.7	1	*	269	34.1	*		*
6/26/2006	LACSD	RA		2.73	NA	0.5	EPA200.8	2.7	1	*	269	34.1	*		*
6/26/2006	LACSD	RA		2.76	NA	0.5	EPA200.8	2.8	1	*	269	34.1	*		*
6/26/2006	LACSD	RA		3.31	NA	0.5	EPA200.8	2.9	1	2.9	269	34.1	20.9		
7/20/2006	LACSD	R9E		5.9	NA	5	EPA200.8	5.0	1	5.0	334	41.9	20.6		
7/20/2006	LACSD	RA		4.23	NA	0.5	EPA200.8	4.2	1	4.2	282	35.7	17.1		
7/20/2006	LACSD	RA1		5.53	NA	0.5	EPA200.8	5.5	1	5.5	311	39.1	18.9		
8/22/2006	LACSD	RA		4.78	NA	0.5	EPA200.8	4.8	1	4.8	413	51.1	21.3		
8/22/2006	LACSD	RA1		4.99	NA	0.5	EPA200.8	5.0	1	5.0	403	50.0	20.3		
9/19/2006	LACSD	RA		3.9	NA	0.5	EPA200.8	3.9	1	3.9	288	36.4	18.9		
9/19/2006	LACSD	RA1		5.5	NA	0.5	EPA200.8	5.5	1	5.5	391	48.6	15.6		
10/24/2006	LACSD	RA		3.74	NA	0.5	EPA200.8	3.7	1	3.7	252	32.1	17.6		
10/24/2006	LACSD	RA1		4.37	NA	0.5	EPA200.8	4.4	1	4.4	391	48.6	19.6		
11/1/2006	LACDPW	S13		28.3	4.2	5	EPA200.8	4.2	1	4.2	240	30.7	18.9		
11/21/2006	LACSD	RA		5.42	NA	0.5	EPA200.8	5.4	1	5.4	234	29.9	20.5		
11/21/2006	LACSD	RA1		7.48	NA	0.5	EPA200.8	7.5	1	7.5	415	51.4	19.3		
12/9/2006	LACDPW	S13		66.6	11.5	5	EPA200.8	11.5	1	11.5	443	54.6	31.9		
12/14/2006	LACSD	RA		2.85	NA	0.5	EPA200.8	2.9	1	2.9	250	31.9	32.6		
12/14/2006	LACSD	RA1		5.22	NA	0.5	EPA200.8	5.2	1	5.2	486	59.6	31.1		
1/9/2007	LACSD	RA		2.84	NA	0.5	EPA200.8	2.8	1	2.8	186	24.1	28.2		
1/9/2007	LACSD	RA1		5.1	NA	0.5	EPA200.8	5.1	1	5.1	486	59.6	28.1		

APPENDIX J - TABLE J1
COYOTE CREEK - COPPER

Sample Date	Source	Location	Qualifier	Total Copper (ug/L)	Dissolved Copper (ug/L)	PQL/RL (ug/L)	Method	Conservative Dissolved Copper Concentration (ug/L)	Is Sample Usable for CCC?	4-Day Average Concentration (ug/L)	Hardness	Dissolved Copper CMC (ug/L)	Dissolved Copper CCC (ug/L)	Does Sample Exceed CMC (1=Yes)	Does 4 Day Average Exceed CCC (1=Yes)
2/10/2007	LACDPW	S13		73.2	8.0	5	EPA200.8	8.0	1	8.0	435	53.7	31.5		
2/19/2007	LACDPW	S13		50.3	13.3	5	EPA200.8	13.3	1	*	382	47.5	*		*
2/22/2007	LACSD	RA		4.21	NA	0.5	EPA200.8	4.2	1	4.2	260	33.1	17.2		
2/22/2007	LACSD	RA1		9.37	NA	0.5	EPA200.8	9.4	1	9.4	452	55.7	26.2		
2/22/2007	LACDPW	S13		45.3	11.0	5	EPA200.8	12.2	1	12.2	388	48.2	28.3		
3/8/2007	LACSD	RA		4.43	NA	0.5	EPA200.8	4.4	1	4.4	303	38.2	29.9		
3/8/2007	LACSD	RA1		6.96	NA	0.5	EPA200.8	7.0	1	7.0	383	47.6	27.1		
4/2/2007	LACDPW	S13		28.7	7.0	5	EPA200.8	7.0	1	7.0	624	75.4	42.8		
4/12/2007	LACSD	RA		3.05	NA	0.5	EPA200.8	3.1	1	3.1	260	33.1	36.3		
4/12/2007	LACSD	RA1		3.79	NA	0.5	EPA200.8	3.8	1	3.8	361	45.0	39.9		

LACSD - Sanitation Districts of Los Angeles County
LACDPW - Los Angeles County Department of Public Works
* - Data is used in calculation of a 4-day average
** - Result Non-Detect with Detection Limit Greater than the CCC
*** - Concurrent hardness unavailable so average RA Hardness used
**** - Concurrent hardness unavailable so average RA1 Hardness used

1 of 111 4-day averages exceed Criterion Continuous Concentration (CCC)

0 of 121 samples exceed Criterion Maximum Concentration (CMC)

5-15-51

APPENDIX K - TABLE K1
COYOTE CREEK - LEAD

Sample Date	Source	Location	Qualifier	Total Lead (ug/L)	Dissolved Lead (ug/L)	PQL/RL (ug/L)	Method	Conservative Dissolved Lead (ug/L)	Is Sample Usable for CCC? (1=Yes)	4-Day Average Concentration	Hardness	Dissolved Lead CMC (ug/L)	Dissolved Lead CCC (ug/L)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed CCC (1=Yes)
6/14/1995	LACDPW	S13			ND	5	A239.2	5	1	5	490	345.4	13.5		
8/3/1995	LACSD	R9E	<	20	NA	20	EPA200.8	20		**	328*****	233.3	9.1		
8/3/1995	LACSD	RA	<	20	NA	20	EPA200.8	20		**	293***	202.1	7.9		
11/7/1995	LACDPW	S13			ND	5	A239.2	5	1	5	470	331.1	12.9		
12/12/1995	LACDPW	S13			ND	5	A239.2	5		**	110	71.6	2.8		
12/23/1995	LACDPW	S13			ND	5	A239.2	5		**	135	89.4	3.5		
1/9/1996	LACDPW	S13			ND	5	A239.2	5	1	5	315	219.4	8.6		
1/21/1996	LACDPW	S13			ND	5	A239.2	5		**	141	93.7	3.7		
1/31/1996	LACDPW	S13			ND	5	A239.2	5		**	90	57.6	2.2		
2/3/1996	LACDPW	S13			ND	5	A239.2	5	1	5	200	136.1	5.3		
2/6/1996	LACSD	R9E	<	20	NA	20	EPA200.8	20		**	328*****	233.3	9.1		
2/6/1996	LACSD	RA	<	20	NA	20	EPA200.8	20		**	293***	202.1	7.9		
2/6/1996	LACSD	RA1	<	20	NA	20	EPA200.8	20		**	293***	202.1	7.9		
2/19/1996	LACDPW	S13			ND	5	A239.2	5		**	40	23.5	0.9		
3/5/1996	LACDPW	S13			ND	5	A239.2	5		**	162	108.7	4.2		
3/19/1996	LACDPW	S13			ND	5	A239.2	5	1	5	400	280.8	10.9		
5/14/1996	LACDPW	S13			ND	5	A239.2	5	1	5	359	251.3	9.8		
7/9/1996	LACDPW	S13			ND	5	A239.2	5	1	5	400	280.8	10.9		
8/5/1996	LACSD	R9E	<	20	NA	20	EPA200.8	20		**	328*****	233.3	9.1		
8/5/1996	LACSD	RA	<	20	NA	20	EPA200.8	20		**	293***	202.1	7.9		
10/30/1996	LACDPW	S13			ND	1	A239.2	1	1	1	110	71.6	2.8		
11/21/1996	LACDPW	S13			ND	1	A239.2	1	1	1	60	36.9	1.4		
12/9/1996	LACDPW	S13			2.0	1	A239.2	2	1	2	76.4	48.1	1.9		1
1/23/1997	LACDPW	S13			ND	1	A239.2	1	1	1	52	31.5	1.2		
8/5/1997	LACSD	R9E	<	20	NA	20	EPA200.8	20		**	328*****	233.3	9.1		
8/5/1997	LACSD	RA	<	20	NA	20	EPA200.8	20		**	293***	202.1	7.9		
8/5/1997	LACSD	RA1	<	20	NA	20	EPA200.8	20		**	293***	202.1	7.9		
11/11/1997	LACDPW	S13			ND	5	A239.2	5	1	*	270	186.8	*		
11/14/1997	LACDPW	S13			ND	5	A239.2	5	1	5	156	104.4	5.7		
11/27/1997	LACDPW	S13			38.0	5	A239.2	38	1	38	150	100.1	3.9		1
12/1/1997	LACDPW	S13			20.2	5	A239.2	20.2	1	20.2	50	30.1	1.2		1
12/6/1997	LACDPW	S13			11.0	5	A239.2	11	1	11	70	43.7	1.7		1
12/19/1997	LACDPW	S13			17.6	5	A239.2	17.6	1	17.6	50	30.1	1.2		1
1/3/1998	LACDPW	S13			ND	5	A239.2	5		**	150	100.1	3.9		
1/5/1998	LACDPW	S13			ND	5	A239.2	5		**	110	71.6	2.8		
1/10/1998	LACDPW	S13			14.4	5	A239.2	14.4	1	14.4	50	30.1	1.2		1
8/5/1998	LACSD	R9E	<	20	NA	20	EPA200.8	20		**	328*****	233.3	9.1		
8/5/1998	LACSD	RA	<	20	NA	20	EPA200.8	20		**	293***	202.1	7.9		
10/14/1998	LACDPW	S13			ND	5	A239.2	5	1	5	420	295.2	11.5		
11/8/1998	LACDPW	S13			ND	5	A239.2	5		**	102	66.0	2.6		
11/28/1998	LACDPW	S13			ND	5	A239.2	5		**	140	93.0	3.6		
12/1/1998	LACDPW	S13			ND	5	A239.2	5		**	82	52.0	2.0		
12/6/1998	LACDPW	S13			ND	5	A239.2	5	1	5	196	133.3	5.2		
1/12/1999	LACDPW	S13			ND	5	A239.2	5	1	5	440	309.6	12.1		
1/20/1999	LACDPW	S13			ND	5	A239.2	5		**	176	118.8	4.6		
1/25/1999	LACDPW	S13			ND	5	A239.2	5		**	90	57.6	2.2		
1/31/1999	LACDPW	S13			ND	5	A239.2	5		**	78	49.2	1.9		

APPENDIX K - TABLE K1
COYOTE CREEK - LEAD

Sample Date	Source	Location	Qualifier	Total Lead (ug/L)	Dissolved Lead (ug/L)	PQL/RL (ug/L)	Method	Conservative Dissolved Lead (ug/L)	Is Sample Usable for CCC? (1=Yes)	4-Day Average Concentration	Hardness	Dissolved Lead CMC (ug/L)	Dissolved Lead CCC (ug/L)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed CCC (1=Yes)
2/6/1999	LACDPW	S13			ND	5	A239.2	5		**	140	93.0	3.6		
2/9/1999	LACDPW	S13			ND	5	A239.2	5	1	5	210	143.4	5.6		
3/20/1999	LACDPW	S13			ND	5	A239.2	5	1	5	210	143.4	5.6		
3/25/1999	LACDPW	S13			ND	5	A239.2	5	1	5	400	280.8	10.9		
4/6/1999	LACDPW	S13			ND	5	A239.2	5		**	92	59.0	2.3		
4/8/1999	LACDPW	S13			ND	5	A239.2	5	1	5	210	143.4	5.6		
4/11/1999	LACDPW	S13			ND	5	A239.2	5		**	51.2	30.9	1.2		
8/10/1999	LACSD	R9E	<	20	NA	20	EPA200.8	20		**	328*****	233.3	9.1		
8/10/1999	LACSD	RA	<	20	NA	20	EPA200.8	20		**	293***	202.1	7.9		
8/10/1999	LACSD	RA1		0	NA	20	EPA200.8	0	1	0	293***	202.1	7.9		
11/8/1999	LACDPW	S13			ND	5	A239.2	5		**	176	118.8	2.9		
12/31/1999	LACDPW	S13			ND	5	A239.2	5		**	175	118.1	4.6		
1/25/2000	LACDPW	S13			ND	5	A239.2	5		**	90	57.6	2.2		
1/30/2000	LACDPW	S13			ND	5	A239.2	5		**	105	68.1	2.7		
2/10/2000	LACDPW	S13			ND	5	A239.2	5		**	112	73.0	2.8		
2/12/2000	LACDPW	S13			ND	5	A239.2	5		**	84	53.4	2.1		
2/16/2000	LACDPW	S13			ND	5	A239.2	5		**	70	43.7	1.7		
2/20/2000	LACDPW	S13			ND	5	A239.2	5		**	56.8	34.7	1.4		
2/23/2000	LACDPW	S13			ND	5	A239.2	5		**	104	67.4	2.6		
2/27/2000	LACDPW	S13			ND	5	A239.2	5		**	114	74.5	2.9		
3/5/2000	LACDPW	S13			ND	5	A239.2	5		**	70	43.7	1.7		
3/8/2000	LACDPW	S13			ND	5	A239.2	5		**	80	50.6	2.0		
8/1/2000	LACSD	R9E	<	20	NA	20	EPA200.8	20		**	328*****	233.3	9.1		
8/1/2000	LACSD	RA	<	20	NA	20	EPA200.8	20		**	293***	202.1	7.9		
10/13/2000	LACDPW	S13			ND	5	A239.2	5	1	5	230	157.9	6.2		
10/29/2000	LACDPW	S13			ND	5	A239.2	5		**	130	85.8	3.3		
10/31/2000	LACDPW	S13			ND	5	A239.2	5		**	51.2	30.9	1.2		
1/12/2001	LACDPW	S13			ND	5	A239.2	5		**	60	36.9	1.4		
1/26/2001	LACDPW	S13			ND	5	A239.2	5		**	87.5	55.8	2.2		
2/2/2001	LACDPW	S13			ND	5	A239.2	5		**	60	36.9	1.4		
2/15/2001	LACDPW	S13			ND	5	A239.2	5		**	110	71.6	2.8		
2/21/2001	LACDPW	S13			ND	5	A239.2	5		**	60	36.9	1.4		
3/1/2001	LACDPW	S13			ND	5	A239.2	5		**	65	40.3	1.6		
3/7/2001	LACDPW	S13			ND	5	A239.2	5	1	5	275	190.5	7.4		
7/12/2001	LACSD	RA1	E	3.92	NA	10	EPA200.8	10	1	10	325	230.6	9.0		1
8/8/2001	LACSD	RA1	E	4.11	NA	10	EPA200.8	10	1	10	419	318.7	12.4		
8/14/2001	LACSD	R9E	<	10	NA	10	EPA200.8	10		**	328*****	233.3	9.1		
8/14/2001	LACSD	RA	<	10	NA	10	EPA200.8	10		**	293***	202.1	7.9		
9/10/2001	LACSD	RA1		2	NA	0.25	EPA200.8	2	1	2	442	341.1	13.3		
10/2/2001	LACSD	RA1		3	NA	2.5	EPA200.8	3	1	3	419	318.7	12.4		
11/7/2001	LACSD	RA1	E	1.9	NA	2.5	EPA200.8	2.5	1	2.5	424	323.5	12.6		
11/12/2001	LACDPW	S13			0.9	0.5	EPA200.8	0.86	1	0.86	150	100.1	3.9		
11/24/2001	LACDPW	S13			2.0	0.5	EPA200.8	1.95	1	1.95	105	68.1	2.7		
11/29/2001	LACDPW	S13			0.7	0.5	EPA200.8	*	1	*	140	93.0	*		
12/3/2001	LACDPW	S13			0.7	0.5	EPA200.8	0.7	1	0.72	95	61.1	3.0		
12/6/2001	LACSD	RA1		4	NA	2.5	EPA200.8	4	1	4	486	384.9	15.0		
1/17/2002	LACSD	RA1		2	NA	0.25	EPA200.8	2	1	2	408	308.1	12.0		

APPENDIX K - TABLE K1
COYOTE CREEK - LEAD

Sample Date	Source	Location	Qualifier	Total Lead (ug/L)	Dissolved Lead (ug/L)	PQL/RL (ug/L)	Method	Conservative Dissolved Lead (ug/L)	Is Sample Usable for CCC? (1=Yes)	4-Day Average Concentration	Hardness	Dissolved Lead CMC (ug/L)	Dissolved Lead CCC (ug/L)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed CCC (1=Yes)
1/28/2002	LACDPW	S13			ND	0.5	EPA200.8	0.5	1	0.5	83.2	52.8	2.1		
2/20/2002	LACSD	RA1		2	NA	0.25	EPA200.8	2	1	2	400	300.4	11.7		
3/6/2002	LACSD	RA1		2	NA	0.25	EPA200.8	2	1	2	396	296.6	11.6		
4/4/2002	LACSD	RA1		3	NA	2.5	EPA200.8	3	1	3	372	273.9	10.2		
5/13/2002	LACSD	RA1	E	1.7	NA	2.5	EPA200.8	2.5	1	2.5	249	164.3	6.4		
6/11/2002	LACSD	RA1		3	NA	2.5	EPA200.8	3	1	3	312	218.9	8.5		
7/8/2002	LACSD	RA1		3	NA	2.5	EPA200.8	3	1	3	311	218.0	8.5		
8/13/2002	LACSD	RA1		3	NA	2.5	EPA200.8	3	1	3	388	289.0	11.3		
8/27/2002	LACSD	R9E	<	10	NA	10	EPA200.8	10		**	328*****	233.3	9.1		
8/27/2002	LACSD	RA	<	10	NA	10	EPA200.8	10		**	293***	202.1	7.9		
9/10/2002	LACSD	RA	E	1	NA	2.5	EPA200.8	2.5	1	2.5	293***	202.1	7.9		
9/10/2002	LACSD	RA1	E	1.86	NA	2.5	EPA200.8	2.5	1	2.5	432**	331.3	12.9		
10/9/2002	LACSD	RA	E	1.5	NA	2.5	EPA200.8	2.5	1	2.5	298	206.5	8.1		
10/9/2002	LACSD	RA1	E	1.73	NA	2.5	EPA200.8	2.5	1	2.5	308	215.4	8.4		
10/10/2002	LACDPW	S13			ND	5	EPA200.8	5	1	5	195	132.5	5.2		
10/21/2002	LACSD	R9E		38	NA	2.5	EPA200.8	38	1	38	260	173.6	7.0		1
11/8/2002	LACDPW	S13			ND	5	EPA200.8	5		**	130	85.8	3.3		
11/20/2002	LACSD	RA	E	1	NA	2.5	EPA200.8	2.5	1	2.5	293***	202.1	7.9		
11/20/2002	LACSD	RA1	E	1	NA	2.5	EPA200.8	2.5	1	2.5	473	371.9	14.5		
12/16/2002	LACDPW	S13			0.6	5	EPA200.8	0.62	1	0.62	60	36.9	1.4		
12/23/2002	LACSD	RA1	E	1.9	NA	2.5	EPA200.8	2.5	1	2.5	487	385.9	15.0		
12/30/2002	LACSD	RA	E	2	NA	2.5	EPA200.8	2.5	1	2.5	293***	202.1	7.9		
1/6/2003	LACSD	RA	E	1	NA	2.5	EPA200.8	2.5	1	2.5	293***	202.1	7.9		
1/6/2003	LACSD	RA1	E	1	NA	2.5	EPA200.8	2.5	1	2.5	432**	331.3	12.9		
1/21/2003	LACSD	R9E	E	1	NA	2.5	EPA200.8	2.5	1	2.5	332	237.0	9.2		
2/10/2003	LACSD	RA	E	1.7	NA	2.5	EPA200.8	2.5	1	2.5	293***	202.1	7.9		
2/10/2003	LACSD	RA1		3	NA	2.5	EPA200.8	3	1	3	432**	331.3	12.9		
2/11/2003	LACDPW	S13			0.6	5	EPA200.8	0.58	1	0.58	180	121.7	4.7		
3/3/2003	LACSD	RA		2	NA	0.25	EPA200.8	2	1	2	293***	202.1	7.9		
3/3/2003	LACSD	RA1		2	NA	0.25	EPA200.8	2	1	2	432**	331.3	12.9		
3/15/2003	LACDPW	S13			ND	5	EPA200.8	5		**	45.6	27.2	1.1		
4/1/2003	LACSD	R9E		3	NA	2.5	EPA200.8	3	1	3	351	254.4	9.9		
4/10/2003	LACSD	RA	E	1.6	NA	2.5	EPA200.8	2.5	1	2.5	293***	202.1	7.9		
4/10/2003	LACSD	RA1	E	1.7	NA	2.5	EPA200.8	2.5	1	2.5	432**	331.3	12.9		
4/30/2003	LACDPW	S13			ND	5	EPA200.8	5	1	5	340	237.5	9.3		
5/15/2003	LACSD	RA		3	NA	2.5	EPA200.8	3	1	3	293***	202.1	7.9		
5/15/2003	LACSD	RA1		2	NA	0.25	EPA200.8	2	1	2	432**	331.3	12.9		
6/11/2003	LACSD	RA		4	NA	2.5	EPA200.8	4	1	4	293***	202.1	7.9		
6/11/2003	LACSD	RA1		2	NA	0.25	EPA200.8	2	1	2	432**	331.3	12.9		
7/8/2003	LACSD	R9E		3	NA	2.5	EPA200.8	3	1	3	351	254.4	9.9		
7/14/2003	LACSD	RA		3	NA	2.5	EPA200.8	3	1	3	222	142.0	5.9		
7/14/2003	LACSD	RA1		6	NA	2.5	EPA200.8	6	1	6	433	332.3	12.9		
8/13/2003	LACSD	RA		2	NA	0.25	EPA200.8	2	1	2	293***	202.1	7.9		
8/13/2003	LACSD	RA1		2	NA	0.25	EPA200.8	2	1	2	420	319.6	11.5		
9/8/2003	LACSD	RA		2	NA	0.25	EPA200.8	2	1	2	293***	202.1	7.9		
9/8/2003	LACSD	RA1		5	NA	2.5	EPA200.8	5	1	5	432**	331.3	12.9		
10/7/2003	LACSD	R9E	E	1	NA	2.5	EPA200.8	2.5	1	2.5	258	171.9	6.9		

APPENDIX K - TABLE K1
COYOTE CREEK - LEAD

Sample Date	Source	Location	Qualifier	Total Lead (ug/L)	Dissolved Lead (ug/L)	PQL/RL (ug/L)	Method	Conservative Dissolved Lead (ug/L)	Is Sample Usable for CCC? (1=Yes)	4-Day Average Concentration	Hardness	Dissolved Lead CMC (ug/L)	Dissolved Lead CCC (ug/L)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed CCC (1=Yes)
10/15/2003	LACSD	RA	E	1	NA	2.5	EPA200.8	2.5	1	2.5	293***	202.1	7.9		
10/15/2003	LACSD	RA1	E	1	NA	2.5	EPA200.8	2.5	1	2.5	432**	331.3	12.9		
10/28/2003	LACDPW	S13			ND	5	EPA200.8	5	1	*	325	226.7	*		
10/31/2003	LACDPW	S13			ND	5	EPA200.8	5	1	5	225	154.2	7.4		
11/11/2003	LACSD	RA	E	1	NA	2.5	EPA200.8	2.5	1	2.5	293***	202.1	7.9		
11/11/2003	LACSD	RA1	E	1.6	NA	2.5	EPA200.8	2.5	1	2.5	432**	331.3	12.9		
12/10/2003	LACSD	RA	E	1	NA	2.5	EPA200.8	2.5	1	2.5	293***	202.1	7.9		
12/10/2003	LACSD	RA1		2	NA	0.25	EPA200.8	2	1	2	432**	331.3	12.9		
12/25/2003	LACDPW	S13			1.0	5	EPA200.8	0.96	1	0.96	92.8	59.5	2.3		
1/1/2004	LACDPW	S13			1.5	5	EPA200.8	1.5	1	1.5	112	73.0	2.8		
1/6/2004	LACSD	R9E	E	1	NA	2.5	EPA200.8	2.5	1	2.5	310	217.2	8.5		
1/8/2004	LACSD	RA	E	1	NA	2.5	EPA200.8	2.5	1	2.5	293***	202.1	7.9		
1/8/2004	LACSD	RA1	E	1	NA	2.5	EPA200.8	2.5	1	2.5	432**	331.3	12.9		
1/13/2004	LACDPW	S13			ND	5	EPA200.8	5	1	5	395	277.2	10.8		
2/10/2004	LACSD	RA	E	1	NA	2.5	EPA200.8	2.5	1	2.5	195	120.4	4.7		
2/10/2004	LACSD	RA1	E	3.7	NA	2.5	EPA200.8	3.7	1	3.7	453	352.0	13.7		
3/9/2004	LACSD	RA	E	1	NA	2.5	EPA200.8	2.5	1	2.5	265	177.9	6.9		
3/9/2004	LACSD	RA1		2	NA	0.25	EPA200.8	2	1	2	429	328.4	12.8		
4/6/2004	LACSD	R9E	E	1.6	NA	2.5	EPA200.8	2.5	1	2.5	288	197.7	7.7		
4/6/2004	LACSD	RA	E	1.7	NA	2.5	EPA200.8	2.5	1	2.5	274	185.6	7.2		
4/6/2004	LACSD	RA1	E	1	NA	2.5	EPA200.8	2.5	1	2.5	383	284.2	11.1		
5/11/2004	LACSD	RA		2	NA	0.25	EPA200.8	2	1	2	278	189.0	7.4		
5/11/2004	LACSD	RA1		4	NA	2.5	EPA200.8	4	1	4	382	283.3	11.0		
6/8/2004	LACSD	RA		2	NA	0.25	EPA200.8	2	1	2	391	291.8	11.4		
6/8/2004	LACSD	RA1		2	NA	0.25	EPA200.8	2	1	2	435	334.2	13.0		
7/6/2004	LACSD	R9E		3	NA	2.5	EPA200.8	3.0	1	3.0	588	490.6	19.1		
7/13/2004	LACSD	RA		5	NA	0.25	EPA200.8	5	1	5	285	195.1	7.6		
7/13/2004	LACSD	RA1	E	1.8	NA	2.5	EPA200.8	2.5	1	2.5	382	283.3	11.0		
8/10/2004	LACSD	RA	E	1.5	NA	2.5	EPA200.8	2.5	1	2.5	302	210.0	8.2		
8/10/2004	LACSD	RA1	E	1.9	NA	2.5	EPA200.8	2.5	1	2.5	388	289.0	11.3		
9/14/2004	LACSD	RA	E	1	NA	2.5	EPA200.8	2.5	1	2.5	342	246.1	9.6		
9/14/2004	LACSD	RA1	E	1.6	NA	2.5	EPA200.8	2.5	1	2.5	214	135.5	5.3		
10/4/2004	LACSD	R9E	E	1	NA	2.5	EPA200.8	2.5	1	2.5	204	127.5	5.0		
10/4/2004	LACSD	RA	E	1	NA	2.5	EPA200.8	2.5	1	2.5	202	125.9	4.9		
10/4/2004	LACSD	RA1	E	1.9	NA	2.5	EPA200.8	2.5	1	2.5	352	255.3	9.9		
10/17/2004	LACDPW	S13			ND	5	EPA200.8	5	1	5	200	136.1	5.3		
10/26/2004	LACDPW	S13			ND	5	EPA200.8	5		**	50	30.1	1.2		
11/15/2004	LACSD	RA	E	0.5	NA	2.5	EPA200.8	2.5	1	2.5	297	205.6	8.0		
11/15/2004	LACSD	RA1	E	1	NA	2.5	EPA200.8	2.5	1	2.5	410	310.0	12.1		
11/16/2004	LACDPW	S13			ND	5	EPA200.8	5	1	5	410	288.0	11.2		
12/5/2004	LACDPW	S13			ND	5	EPA200.8	5		**	110	71.6	2.8		
12/7/2004	LACSD	RA	E	0.3	NA	2.5	EPA200.8	2.5	1	2.5	224	143.6	5.6		
12/7/2004	LACSD	RA1	E	0.5	NA	2.5	EPA200.8	2.5	1	2.5	365	267.3	10.4		
1/7/2005	LACDPW	S13			1.7	5	EPA200.8	1.67	1	1.67	64	39.6	1.5		1
1/25/2005	LACSD	R9E		0.76	NA	0.25	EPA200.8	0.8	1	0.8	393	293.7	11.4		
1/25/2005	LACSD	RA		0.54	NA	0.25	EPA200.8	0.54	1	0.54	356	259.0	10.1		
1/25/2005	LACSD	RA1		2	NA	0.25	EPA200.8	2	1	2	622	526.9	20.5		

APPENDIX K - TABLE K1
COYOTE CREEK - LEAD

Sample Date	Source	Location	Qualifier	Total Lead (ug/L)	Dissolved Lead (ug/L)	PQL/RL (ug/L)	Method	Conservative Dissolved Lead (ug/L)	Is Sample Usable for CCC? (1=Yes)	4-Day Average Concentration	Hardness	Dissolved Lead CMC (ug/L)	Dissolved Lead CCC (ug/L)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed CCC (1=Yes)
2/14/2005	LACSD	RA		0.39	NA	0.25	EPA200.8	0.39	1	0.39	362	264.5	10.3		
2/14/2005	LACSD	RA1		0.45	NA	0.25	EPA200.8	0.45	1	0.45	514	413.4	16.1		
3/9/2005	LACDPW	S13			ND	5	EPA200.8	5	1	5	520	366.8	14.3		
3/22/2005	LACSD	RA		0.33	NA	0.25	EPA200.8	0.33	1	0.33	391	291.8	11.4		
3/22/2005	LACSD	RA1		0.26	NA	0.25	EPA200.8	0.26	1	0.26	574	475.7	18.5		
4/12/2005	LACSD	R9E	E	0.6	NA	2.5	EPA200.8	2.5	1	2.5	371	273.0	10.6		
4/12/2005	LACSD	RA	E	0.14	NA	0.25	EPA200.8	0.25	1	0.25	405	305.2	11.9		
4/12/2005	LACSD	RA1	E	0.25	NA	0.25	EPA200.8	0.25	1	0.25	531	430.8	16.8		
5/17/2005	LACSD	RA		0.37	NA	0.25	EPA200.8	0.37	1	0.37	296	204.8	8.0		
5/17/2005	LACSD	RA1		0.76	NA	0.25	EPA200.8	0.76	1	0.76	491	390.0	15.2		
6/21/2005	LACSD	RA		1.2	NA	0.25	EPA200.8	1.2	*	*	315	221.6	*		*
6/21/2005	LACSD	RA1		1	NA	0.25	EPA200.8	1	1	1	380	281.4	11.0		
6/23/2005	LACSD	RA		0.8	NA	0.25	EPA200.8	0.8	*	*	491	390.0	*		*
6/23/2005	LACSD	RA	<	0.25	NA	0.25	EPA200.8	0.25	1	0.8	491	390.0	13.0		
7/19/2005	LACSD	R9E		3.5	NA	2.5	EPA200.8	3.5	1	3.5	294	203.0	7.9		
7/19/2005	LACSD	RA		3	NA	0.25	EPA200.8	3	1	3	260	173.6	6.8		
7/19/2005	LACSD	RA1		3.6	NA	0.25	EPA200.8	3.6	1	3.6	436	335.2	13.1		
8/9/2005	LACSD	RA		3.4	NA	0.25	EPA200.8	3.4	1	3.4	291	200.4	7.8		
8/9/2005	LACSD	RA1		3.4	NA	0.25	EPA200.8	3.4	1	3.4	432	331.3	12.9		
9/6/2005	LACSD	RA		0.39	NA	0.25	EPA200.8	0.39	1	0.39	250	165.1	6.4		
9/6/2005	LACSD	RA1		0.84	NA	0.25	EPA200.8	0.84	1	0.84	441	340.1	13.3		
10/11/2005	LACSD	R9E	<	0.25	NA	0.25	EPA200.8	0.25	1	0.25	235	152.6	5.9		
10/11/2005	LACSD	RA	<	0.25	NA	0.25	EPA200.8	0.25	1	0.25	294	203.0	7.9		
10/11/2005	LACSD	RA1		0.29	NA	0.25	EPA200.8	0.29	1	0.29	482	380.9	14.8		
10/17/2005	LACDPW	S13			0.6	5	EPA200.8	0.64	1	0.64	210	143.4	5.6		
11/15/2005	LACSD	RA	<	0.25	NA	0.25	EPA200.8	0.25	1	0.25	292	201.2	7.8		
11/15/2005	LACSD	RA1		0.59	NA	0.25	EPA200.8	0.59	1	0.59	516	415.4	16.2		
12/13/2005	LACSD	RA	<	2.5	NA	2.5	EPA200.8	2.5	1	2.5	275	186.4	7.3		
12/13/2005	LACSD	RA1	<	2.5	NA	2.5	EPA200.8	2.5	1	2.5	505	404.2	15.7		
12/31/2005	LACDPW	S13			ND	5	EPA200.8	5		**	180	121.7	4.7		
1/10/2006	LACSD	R9E	<	2.5	NA	2.5	EPA200.8	2.5	1	2.5	326	231.5	9.0		
1/10/2006	LACSD	RA	<	0.25	NA	0.25	EPA200.8	0.25	1	0.25	295	203.9	7.9		
1/10/2006	LACSD	RA1		0.39	NA	0.25	EPA200.8	0.39	1	0.39	545	445.4	17.4		
1/14/2006	LACDPW	S13			ND	5	EPA200.8	5		**	170	114.5	4.5		
1/24/2006	LACDPW	S13			0.5	5	EPA200.8	0.5	1	0.5	420	295.2	11.5		
2/7/2006	LACSD	RA	<	0.25	NA	0.25	EPA200.8	0.25	1	0.25	263	176.1	6.9		
2/7/2006	LACSD	RA1		1.24	NA	0.25	EPA200.8	1.24	1	1.24	460	358.9	14.0		
2/17/2006	LACDPW	S13			ND	5	EPA200.8	5	1	5	380	266.4	10.4		
3/3/2006	LACDPW	S13			0.8	5	EPA200.8	0.77	1	0.77	88	56.2	2.2		
3/9/2006	LACSD	RA	<	0.25	NA	0.25	EPA200.8	0.25	1	0.25	232	150.2	5.9		
3/9/2006	LACSD	RA1		0.31	NA	0.25	EPA200.8	0.31	1	0.31	477	375.9	14.6		
4/17/2006	LACSD	R9E	<	2.5	NA	2.5	EPA200.8	2.5	1	2.5	380	281.4	11.0		
4/17/2006	LACSD	RA	<	0.25	NA	0.25	EPA200.8	0.25	1	0.25	278	189.0	7.4		
4/17/2006	LACSD	RA1	<	0.25	NA	0.25	EPA200.8	0.25	1	0.25	492	391.0	15.2		
4/25/2006	LACDPW	S13			ND	5	EPA200.8	5	1	5	370	259.2	10.1		
5/16/2006	LACSD	RA	<	0.25	NA	0.25	EPA200.8	0.25	1	0.25	250	165.1	6.4		
5/16/2006	LACSD	RA1	<	0.25	NA	0.25	EPA200.8	0.25	1	0.25	388	289.0	11.3		

APPENDIX K - TABLE K1
COYOTE CREEK - LEAD

Sample Date	Source	Location	Qualifier	Total Lead (ug/L)	Dissolved Lead (ug/L)	PQL/RL (ug/L)	Method	Conservative Dissolved Lead (ug/L)	Is Sample Usable for CCC? (1=Yes)	4-Day Average Concentration	Hardness	Dissolved Lead CMC (ug/L)	Dissolved Lead CCC (ug/L)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed CCC (1=Yes)
6/20/2006	LACSD	RA		0.34	NA	0.25	EPA200.8	0.34	1	0.34	216	137.1	5.3		
6/20/2006	LACSD	RA1		0.62	NA	0.25	EPA200.8	0.62	1	0.62	421	320.6	12.5		
6/26/2006	LACSD	RA	E	0.15	NA	0.25	EPA200.8	0.25	*	*	269	181.3	*		*
6/26/2006	LACSD	RA	E	0.14	NA	0.25	EPA200.8	0.25	*	*	269	181.3	*		*
6/26/2006	LACSD	RA	E	0.2	NA	0.25	EPA200.8	0.25	*	*	269	181.3	*		*
6/26/2006	LACSD	RA		0.5	NA	0.25	EPA200.8	0.5	1	0.3	269	181.3	7.1		
7/20/2006	LACSD	R9E	E	0.7	NA	2.5	EPA200.8	2.5	1	2.5	334	238.8	9.3		
7/20/2006	LACSD	RA		0.47	NA	0.25	EPA200.8	0.47	1	0.47	282	192.5	7.5		
7/20/2006	LACSD	RA1		0.81	NA	0.25	EPA200.8	0.81	1	0.81	311	218.0	8.5		
8/22/2006	LACSD	RA		0.36	NA	0.25	EPA200.8	0.36	1	0.36	413	312.9	12.2		
8/22/2006	LACSD	RA1		0.36	NA	0.25	EPA200.8	0.36	1	0.36	403	303.3	11.8		
9/19/2006	LACSD	RA		0.42	NA	0.25	EPA200.8	0.42	1	0.42	288	197.7	7.7		
9/19/2006	LACSD	RA1		0.87	NA	0.25	EPA200.8	0.87	1	0.87	391	291.8	11.4		
10/24/2006	LACSD	RA		0.35	NA	0.25	EPA200.8	0.35	1	0.35	252	166.8	6.5		
10/24/2006	LACSD	RA1		0.6	NA	0.25	EPA200.8	0.6	1	0.6	391	291.8	11.4		
11/1/2006	LACDPW	S13			ND	5	EPA200.8	5	1	5	380	266.4	10.4		
11/21/2006	LACSD	RA		1.61	NA	0.25	EPA200.8	1.61	1	1.61	234	151.8	5.9		
11/21/2006	LACSD	RA1		2.64	NA	0.25	EPA200.8	2.64	1	2.64	415	314.8	12.3		
12/9/2006	LACDPW	S13			0.6	5	EPA200.8	0.62	1	0.62	250	172.3	6.7		
12/14/2006	LACSD	RA		0.29	NA	0.25	EPA200.8	0.29	1	0.29	250	165.1	6.4		
12/14/2006	LACSD	RA1		0.73	NA	0.25	EPA200.8	0.73	1	0.73	486	384.9	15.0		
1/9/2007	LACSD	RA		0.3	NA	0.25	EPA200.8	0.3	1	0.3	186	113.3	4.4		
1/9/2007	LACSD	RA1		0.47	NA	0.25	EPA200.8	0.47	1	0.47	486	384.9	15.0		
2/10/2007	LACDPW	S13			1.1	5	EPA200.8	1.1	1	1.1	190	128.9	5.0		
2/19/2007	LACDPW	S13			ND	5	EPA200.8	5		**	140	93.0	3.6		
2/22/2007	LACSD	RA		0.27	NA	0.25	EPA200.8	0.27	1	0.27	260	173.6	6.8		
2/22/2007	LACSD	RA1		0.44	NA	0.25	EPA200.8	0.44	1	0.44	452	351.0	13.7		
2/22/2007	LACDPW	S13			ND	5	EPA200.8	5		**	180	121.7	4.7		
3/8/2007	LACSD	RA	E	0.22	NA	0.25	EPA200.8	0.25	1	0.25	303	210.9	8.2		
3/8/2007	LACSD	RA1	E	0.23	NA	0.25	EPA200.8	0.23	1	0.23	383	284.2	11.1		
4/2/2007	LACDPW	S13			ND	5	EPA200.8	5	1	5	350	244.8	9.5		
4/12/2007	LACSD	RA	E	0.22	NA	0.25	EPA200.8	0.25	1	0.25	260	173.6	6.8		
4/12/2007	LACSD	RA1	E	0.16	NA	0.25	EPA200.8	0.16	1	0.16	361	263.6	10.3		

LACSD - Sanitation Districts of Los Angeles County
LACDPW - Los Angeles County Department of Public Works
* - Data is used in calculation of a 4-day average
** - non detect with detection limit greater than the CCC
*** - Concurrent hardness unavailable so average RA Hardness used
**** - Concurrent hardness unavailable so average RA1 Hardness used
***** - Concurrent hardness unavailable so average R9E Hardness used

9 of 195 4-day averages exceed Criterion Continuous Concentration (CCC)

0 of 267 samples exceed Criterion Maximum Concentration (CMC)

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APPENDIX L - TABLE L1
SAN GABRIEL RIVER REACH 2 - LEAD

Sample Date	Source	Location	Qualifier	Total Lead (ug/L)	Dissolved Lead (ug/L)	PQL/RL (ug/L)	Method	Conservative Dissolved Lead Concentration (ug/L)	Is Sample Usable for CCC? (1=Yes)	4-Day Average Concentration	Hardness	Dissolved Lead CMC (ug/L)	Dissolved Lead CCC (ug/L)	Does Sample Exceed CMC? (1=Yes)	Does 4-Day Average Exceed CCC? (1=Yes)
8/23/1995	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	265	183.2	7.1		
11/7/1995	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	350	244.8	9.5		
12/12/1995	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	152	101.6	4.0		**
12/23/1995	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	305	212.2	8.3		
1/9/1996	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	350	244.8	9.5		
1/21/1996	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	141	93.7	3.7		**
1/31/1996	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	135	89.4	3.5		**
2/3/1996	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	300	208.6	8.1		
2/19/1996	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	135	89.4	3.5		**
3/19/1996	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	220	150.6	5.9		
5/14/1996	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	292	202.8	7.9		
7/9/1996	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	270	186.8	7.3		
9/10/1996	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	348	243.3	9.5		
10/8/1996	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	260	179.6	7.0		
10/30/1996	LACDPW	S14		NA	ND	1.00	EPA200.8	1.00	1	1.00	116	75.9	3.0		
11/21/1996	LACDPW	S14		NA	ND	1.00	EPA200.8	1.00	1	1.00	128	84.4	3.3		
12/9/1996	LACDPW	S14		NA	ND	1.00	EPA200.8	1.00	1	1.00	119.6	78.4	3.1		
1/24/1997	LACDPW	S14		NA	ND	1.00	EPA200.8	1.00	1	1.00	157	105.2	4.1		
10/14/1997	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	238	163.6	6.4		
11/11/1997	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	195	132.5	5.2		
11/14/1997	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	128	84.4	4.2		**
11/27/1997	LACDPW	S14		NA	35.5	5.00	EPA200.8	35.50	1	*	100	64.6	*		
12/1/1997	LACDPW	S14		NA	8.7	5.00	EPA200.8	8.70	1	22.10	116	75.9	3.0		1
12/6/1997	LACDPW	S14		NA	18	5.00	EPA200.8	18.00	1	18.00	132	87.3	3.4		1
12/19/1997	LACDPW	S14		NA	13.5	5.00	EPA200.8	13.50	1	13.50	115	75.2	2.9		1
1/5/1998	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	98	63.2	2.5		**
1/10/1998	LACDPW	S14		NA	20.4	5.00	EPA200.8	20.40	1	20.40	120	78.7	3.1		1
1/30/1998	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	134	88.7	3.5		**
2/3/1998	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	120	78.7	3.1		**
2/6/1998	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	100	64.6	2.8		**
10/14/1998	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	372	260.7	10.2		
10/22/1998	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	380	266.4	10.4		
11/8/1998	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	230	157.9	6.2		
12/6/1998	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	80	50.6	2.0		**
1/12/1999	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	346	241.9	9.4		
1/20/1999	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	276	191.2	7.5		
1/25/1999	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	184	124.6	4.9		**
1/31/1999	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	280	194.1	7.6		
2/6/1999	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	*	256	176.7	*		
2/9/1999	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	286	198.4	7.3		
3/15/1999	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	126	83.0	3.2		**
3/20/1999	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	265	183.2	7.1		
3/25/1999	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	290	201.3	7.8		

APPENDIX L - TABLE L1
SAN GABRIEL RIVER REACH 2 - LEAD

Sample Date	Source	Location	Qualifier	Total Lead (ug/L)	Dissolved Lead (ug/L)	PQL/RL (ug/L)	Method	Conservative Dissolved Lead Concentration (ug/L)	Is Sample Usable for CCC? (1=Yes)	4-Day Average Concentration	Hardness	Dissolved Lead CMC (ug/L)	Dissolved Lead CCC (ug/L)	Does Sample Exceed CMC? (1=Yes)	Does 4-Day Average Exceed CCC? (1=Yes)
4/6/1999	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	178	120.3	4.7		**
4/8/1999	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	230	157.9	6.2		
4/11/1999	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	110	71.6	4.5		**
1/25/2000	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	95	61.1	2.4		**
1/30/2000	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	170	114.5	4.5		**
2/10/2000	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	160	107.3	4.2		**
2/12/2000	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	128	84.4	3.3		**
2/16/2000	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	112	73.0	2.8		**
2/20/2000	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	95.2	61.2	2.4		**
2/23/2000	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	192	130.4	5.1		
2/27/2000	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	230	157.9	5.6		
3/5/2000	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	85	54.1	2.1		**
3/8/2000	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	198	134.7	5.2		
10/29/2000	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	*	266	183.9	*		
11/2/2000	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	190	128.9	6.1		
1/9/2001	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	300	208.6	8.1		
1/18/2001	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	160	107.3	4.2		**
1/27/2001	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	360	252.0	9.8		
2/15/2001	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	220	150.6	5.9		
2/21/2001	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	240	165.1	6.4		
3/1/2001	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	140	93.0	3.6		**
3/7/2001	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00	1	5.00	210	143.4	5.6		
11/12/2001	LACDPW	S14		NA	ND	0.50	EPA200.8	5.00	1	**	180	121.7	4.7		**
11/24/2001	LACDPW	S14		NA	3.19	0.50	EPA200.8	3.19	1	**	120	78.7	3.1		**
11/29/2001	LACDPW	S14		NA	ND	0.50	EPA200.8	0.50	1	*	200	136.1	*		
12/3/2001	LACDPW	S14		NA	0.76	0.50	EPA200.8	0.76	1	0.63	230	157.9	5.7		
12/20/2001	LACDPW	S14		NA	ND	0.50	EPA200.8	0.50	1	0.50	172	115.9	5.3		
1/28/2002	LACDPW	S14		NA	ND	0.50	EPA200.8	0.50	1	0.50	150	100.1	3.9		
10/10/2002	LACDPW	S14		NA	ND	5.00	EPA200.8	0.50	1	0.50	270	186.8	7.3		
11/8/2002	LACDPW	S14		NA	0.67	5.00	EPA200.8	0.67	1	0.67	210	143.4	5.6		
12/16/2002	LACDPW	S14		NA	1.21	5.00	EPA200.8	5.00		1.21	108	70.2	2.7		
2/11/2003	LACDPW	S14		NA	1.55	5.00	EPA200.8	5.00		1.55	80	50.6	2.0		
3/15/2003	LACDPW	S14		NA	ND	5.00	EPA200.8	5.00		**	103	66.7	2.6		**
10/28/2003	LACDPW	S14		1.04	0	5.00	EPA200.8	5.00	1	*	210	143.4	*		
10/31/2003	LACDPW	S14		3.34	0	5.00	EPA200.8	5.00	1	5.00	260	179.6	6.3		
12/25/2003	LACDPW	S14		1.72	0.92	5.00	EPA200.8	5.00	1	5.00	320	223.1	8.7		
1/1/2004	LACDPW	S14		2.14	1.46	5.00	EPA200.8	5.00	1	5.00	305	212.2	8.3		
1/13/2004	LACDPW	S14		0.72	0	5.00	EPA200.8	5.00	1	5.00	195	132.5	5.2		
10/17/2004	LACDPW	S14		3.78	ND	5.00	EPA200.8	5.00	1	5.00	208	141.9	5.5		
10/26/2004	LACDPW	S14		4.42	ND	5.00	EPA200.8	5.00		**	130	85.8	3.3		**
12/5/2004	LACDPW	S14		9.05	ND	5.00	EPA200.8	5.00		**	130	85.8	3.3		**
1/7/2005	LACDPW	S14		37.5	11.4	5.00	EPA200.8	11.40		11.40	124	81.6	3.2		1
3/17/2005	LACDPW	S14		1.17	ND	5.00	EPA200.8	5.00	1	5.00	340	237.5	9.3		

APPENDIX L - TABLE L1
SAN GABRIEL RIVER REACH 2 - LEAD

Sample Date	Source	Location	Qualifier	Total Lead (ug/L)	Dissolved Lead (ug/L)	PQL/RL (ug/L)	Method	Conservative Dissolved Lead Concentration (ug/L)	Is Sample Usable for CCC? (1=Yes)	4-Day Average Concentration	Hardness	Dissolved Lead CMC (ug/L)	Dissolved Lead CCC (ug/L)	Does Sample Exceed CMC? (1=Yes)	Does 4-Day Average Exceed CCC? (1=Yes)
6/21/2005	LACDPW	S14		1.07	ND	5.00	EPA200.8	5.00	1	5.00	330	230.3	9.0		
10/17/2005	LACDPW	S14		14.2	0	5.00	EPA200.8	5.00	1	5.00	250	172.3	6.7		
12/31/2005	LACDPW	S14		1.01	0	5.00	EPA200.8	5.00		**	113	73.4	2.9		**
1/14/2006	LACDPW	S14		0.77	0	5.00	EPA200.8	5.00	1	5.00	255	176.0	6.9		
1/24/2006	LACDPW	S14		0.94	0.71	5.00	EPA200.8	5.00	1	5.00	250	172.3	6.7		
2/27/2006	LACDPW	S14		1.4	0	5.00	EPA200.8	5.00	1	5.00	220	150.6	5.9		
4/25/2006	LACDPW	S14		1.12	0	5.00	EPA200.8	5.00	1	5.00	345	241.2	9.4		
11/1/2006	LACDPW	S14		2.88	-99	5.00	EPA200.8	5.00	1	5.00	310	215.8	8.4		
12/9/2006	LACDPW	S14		15.3	1.03	5.00	EPA200.8	5.00	1	5.00	210	143.4	5.6		
2/10/2007	LACDPW	S14		8.23	1.17	5.00	EPA200.8	5.00		**	150	100.1	3.9		**
2/19/2007	LACDPW	S14		3.41	-99	5.00	EPA200.8	5.00	1	*	200	136.1	*		
2/22/2007	LACDPW	S14		3.07	-99	5.00	EPA200.8	5.00		5.00	180	121.7	5.0		
4/2/2007	LACDPW	S14		1.07	-99	5.00	EPA200.8	5.00	1	5.00	220	150.6	5.9		
2/17/1995	LACSD	R10	<	20	NA	20.00	EPA200.8	20.00		**	128	84.4	3.3		**
12/4/2001	LACSD	R10	E	1.9	NA	2.00	EPA200.8	2.00	1	2.00	120	78.7	3.1		
12/26/2002	LACSD	R10	E	1	NA	2.00	EPA200.8	2.00	1	2.00	137	90.8	3.5		
2/28/2005	LACSD	R10		1.4	NA	0.25	EPA200.8	1.40	1	1.40	123	80.8	3.2		
3/15/2006	LACSD	R10		0.8	NA	0.25	EPA200.8	0.80	1	0.80	105	68.1	2.7		
8/16/2006	LACSD	R10		4.16	NA	0.25	EPA200.8	4.16	1	4.16	137	90.8	3.5		1
7/26/2001	LACSD	R11	E	2.05	NA	2.00	EPA200.8	2.00	1	2.00	322	224.5	8.7		
8/1/2001	LACSD	R11	E	1.97	NA	2.00	EPA200.8	2.00	1	2.00	274	189.7	7.4		
9/11/2001	LACSD	R11		9	NA	2.00	EPA200.8	9.00	1	9.00	286	198.4	7.7		1
10/1/2001	LACSD	R11		2	NA	2.00	EPA200.8	2.00	1	2.00	281	194.8	7.6		
11/8/2001	LACSD	R11	E	1.7	NA	2.00	EPA200.8	2.00	1	2.00	210	143.4	5.6		
12/6/2001	LACSD	R11	E	1.9	NA	2.00	EPA200.8	2.00	1	2.00	192	130.4	5.1		
1/16/2002	LACSD	R11	E	1.4	NA	2.00	EPA200.8	2.00	1	2.00	287	199.2	7.8		
2/12/2002	LACSD	R11	E	2	NA	2.00	EPA200.8	2.00	1	2.00	282	195.5	7.6		
3/4/2002	LACSD	R11		3	NA	2.00	EPA200.8	3.00	1	3.00	259	178.9	7.0		
4/8/2002	LACSD	R11		2	NA	2.00	EPA200.8	2.00	1	2.00	251	173.1	6.7		
5/13/2002	LACSD	R11		3	NA	2.00	EPA200.8	3.00	1	3.00	276	191.2	7.5		
6/6/2002	LACSD	R11		2	NA	2.00	EPA200.8	2.00	1	2.00	283	196.3	7.6		
7/10/2002	LACSD	R11	E	1.5	NA	2.00	EPA200.8	2.00	1	2.00	240	165.1	6.4		
8/7/2002	LACSD	R11		2	NA	2.00	EPA200.8	2.00	1	2.00	240	165.1	6.4		
9/11/2002	LACSD	R11		3	NA	2.00	EPA200.8	3.00	1	3.00	257	177.4	6.9		
10/2/2002	LACSD	R11	E	1.8	NA	2.00	EPA200.8	2.00	1	2.00	254	175.2	6.8		
11/21/2002	LACSD	R11	E	1	NA	2.00	EPA200.8	2.00	1	2.00	279	193.4	7.5		
12/11/2002	LACSD	R11		2	NA	2.00	EPA200.8	2.00	1	2.00	256	176.7	6.9		
1/15/2003	LACSD	R11		2	NA	2.00	EPA200.8	2.00	1	2.00	262	181.0	7.1		
2/5/2003	LACSD	R11	E	1.6	NA	2.00	EPA200.8	2.00	1	2.00	235	161.5	6.3		
3/13/2003	LACSD	R11		8	NA	2.00	EPA200.8	8.00	1	8.00	246***	169.4	6.6		1
4/7/2003	LACSD	R11	<	2	NA	2.00	EPA200.8	2.00	1	2.00	246***	169.4	6.6		
5/1/2003	LACSD	R11	E	3	NA	5.00	EPA200.8	5.00	1	5.00	246***	169.4	6.6		
6/16/2003	LACSD	R11		3	NA	2.00	EPA200.8	3.00	1	3.00	246***	169.4	6.6		

APPENDIX L - TABLE L1
SAN GABRIEL RIVER REACH 2 - LEAD

Sample Date	Source	Location	Qualifier	Total Lead (ug/L)	Dissolved Lead (ug/L)	PQL/RL (ug/L)	Method	Conservative Dissolved Lead Concentration (ug/L)	Is Sample Usable for CCC? (1=Yes)	4-Day Average Concentration	Hardness	Dissolved Lead CMC (ug/L)	Dissolved Lead CCC (ug/L)	Does Sample Exceed CMC? (1=Yes)	Does 4-Day Average Exceed CCC? (1=Yes)
7/3/2003	LACSD	R11		2	NA	2.00	EPA200.8	2.00	1	2.00	246***	169.4	6.6		
8/14/2003	LACSD	R11	E	1.5	NA	2.00	EPA200.8	2.00	1	2.00	246***	169.4	6.6		
9/9/2003	LACSD	R11	E	1	NA	2.00	EPA200.8	2.00	1	2.00	246***	169.4	6.6		
10/16/2003	LACSD	R11	E	1.8	NA	2.00	EPA200.8	2.00	1	2.00	246***	169.4	6.6		
11/11/2003	LACSD	R11	E	1	NA	2.00	EPA200.8	2.00	1	2.00	246***	169.4	6.6		
12/11/2003	LACSD	R11	E	1.8	NA	2.00	EPA200.8	2.00	1	2.00	246***	169.4	6.6		
1/6/2004	LACSD	R11	E	1.8	NA	2.00	EPA200.8	2.00	1	2.00	245	168.7	6.6		
2/11/2004	LACSD	R11	E	1	NA	2.00	EPA200.8	2.00	1	2.00	233	160.0	6.2		
3/10/2004	LACSD	R11		10	NA	2.00	EPA200.8	10.00	1	10.00	255	176.0	6.9		1
4/14/2004	LACSD	R11	E	1.8	NA	2.00	EPA200.8	2.00	1	2.00	265	183.2	7.1		
5/12/2004	LACSD	R11		2	NA	2.00	EPA200.8	2.00	1	2.00	212	144.5	5.6		
6/9/2004	LACSD	R11		4	NA	2.00	EPA200.8	4.00	1	4.00	274	189.7	7.4		
7/7/2004	LACSD	R11		3	NA	2.00	EPA200.8	3.00	1	3.00	152	101.6	4.0		
8/11/2004	LACSD	R11	<	2	NA	2.00	EPA200.8	2.00	1	2.00	283	196.3	7.6		
9/15/2004	LACSD	R11	E	1	NA	2.00	EPA200.8	2.00	1	2.00	230	157.9	6.2		
10/6/2004	LACSD	R11		3	NA	2.00	EPA200.8	3.00	1	3.00	277	191.9	7.5		
11/17/2004	LACSD	R11	E	1.8	NA	2.00	EPA200.8	2.00	1	2.00	225	154.2	6.0		
12/15/2004	LACSD	R11	E	1	NA	2.00	EPA200.8	2.00	1	2.00	183	123.9	4.8		
1/19/2005	LACSD	R11		4.7	NA	0.25	EPA200.8	4.70	1	4.70	186	126.0	4.9		
2/28/2005	LACSD	R11		1.7	NA	0.25	EPA200.8	1.70	1	1.70	188	127.5	5.0		
3/16/2005	LACSD	R11		0.53	NA	0.25	EPA200.8	0.53	1	0.53	250	172.3	6.7		
4/13/2005	LACSD	R11		2.9	NA	0.25	EPA200.8	2.90	1	2.90	300	208.6	8.1		
5/11/2005	LACSD	R11		1.6	NA	0.25	EPA200.8	1.60	1	1.60	316	220.2	8.6		
6/15/2005	LACSD	R11		2.1	NA	0.25	EPA200.8	2.10	1	2.10	309	215.1	8.4		
6/23/2005	LACSD	R11	<	0.25	NA	0.25	EPA200.8	0.25	1	*	326	227.4	*		
6/23/2005	LACSD	R11		0.69	NA	0.25	EPA200.8	0.69	1	0.47	326	227.4	8.9		
7/13/2005	LACSD	R11		0.45	NA	0.25	EPA200.8	0.45	1	0.45	272	188.3	7.3		
8/10/2005	LACSD	R11		0.92	NA	0.25	EPA200.8	0.92	1	0.92	249	171.6	6.7		
9/14/2005	LACSD	R11		0.66	NA	0.25	EPA200.8	0.66	1	0.66	200	136.1	5.3		
10/26/2005	LACSD	R11		1.8	NA	0.25	EPA200.8	1.80	1	1.80	327	228.1	8.9		
11/16/2005	LACSD	R11		7.6	NA	0.25	EPA200.8	7.60	1	7.60	284	197.0	7.7		
12/21/2005	LACSD	R11	<	0.5	NA	0.50	EPA200.8	0.50	1	0.50	272	188.3	7.3		
1/11/2006	LACSD	R11		0.81	NA	0.25	EPA200.8	0.81	1	0.81	298	207.1	8.1		
2/1/2006	LACSD	R11		0.99	NA	0.25	EPA200.8	0.99	1	0.99	264	182.1	7.1		
3/15/2006	LACSD	R11		0.65	NA	0.25	EPA200.8	0.65	1	0.65	150	100.1	3.9		
4/19/2006	LACSD	R11		0.74	NA	0.25	EPA200.8	0.74	1	0.74	278	192.6	7.5		
5/17/2006	LACSD	R11		0.81	NA	0.25	EPA200.8	0.81	1	0.81	317	220.9	8.6		
6/7/2006	LACSD	R11		0.99	NA	0.25	EPA200.8	0.99	1	0.99	196	133.3	5.2		
6/26/2006	LACSD	R11	E	0.16	NA	0.25	EPA200.8	0.25	1	*	185	125.3	*		
6/26/2006	LACSD	R11		0.69	NA	0.25	EPA200.8	0.69	1	0.47	185	125.3	4.9		
7/12/2006	LACSD	R11		0.29	NA	0.25	EPA200.8	0.29	1	0.29	196	133.3	5.2		
8/16/2006	LACSD	R11		0.33	NA	0.25	EPA200.8	0.33	1	0.33	228	156.4	6.1		
9/13/2006	LACSD	R11		0.46	NA	0.25	EPA200.8	0.46	1	0.46	303	210.8	8.2		

APPENDIX L - TABLE L1
SAN GABRIEL RIVER REACH 2 - LEAD

Sample Date	Source	Location	Qualifier	Total Lead (ug/L)	Dissolved Lead (ug/L)	PQL/RL (ug/L)	Method	Conservative Dissolved Lead Concentration (ug/L)	Is Sample Usable for CCC? (1=Yes)	4-Day Average Concentration	Hardness	Dissolved Lead CMC (ug/L)	Dissolved Lead CCC (ug/L)	Does Sample Exceed CMC? (1=Yes)	Does 4-Day Average Exceed CCC? (1=Yes)
10/11/2006	LACSD	R11		0.67	NA	0.25	EPA200.8	0.67	1	0.67	236	162.2	6.3		
11/8/2006	LACSD	R11		0.44	NA	0.25	EPA200.8	0.44	1	0.44	236	161.8	6.3		
12/13/2006	LACSD	R11		0.9	NA	0.25	EPA200.8	0.90	1	0.90	264	182.5	7.1		
1/10/2007	LACSD	R11		0.36	NA	0.25	EPA200.8	0.36	1	0.36	201	136.9	5.3		
2/14/2007	LACSD	R11		1.35	NA	0.25	EPA200.8	1.35	1	1.35	335	233.9	9.1		
3/14/2007	LACSD	R11		1.85	NA	0.25	EPA200.8	1.85	1	1.85	239	164.4	6.4		
4/11/2007	LACSD	R11		1.93	NA	0.25	EPA200.8	1.93	1	1.93	256	176.7	6.9		
2/27/2006	LACSD	R12		0.59	NA	0.25	EPA200.8	0.59	1	0.59	260	179.6	7.0		
4/25/2006	LACSD	R12		2	NA	0.25	EPA200.8	2.00	1	2.00	190	128.9	5.0		
5/15/2006	LACSD	R12		7.65	NA	0.25	EPA200.8	7.65	1	7.65	307	213.7	8.3		
6/19/2006	LACSD	R12		0.99	NA	0.25	EPA200.8	0.99	1	0.99	174	117.4	4.6		
7/31/2006	LACSD	R12		1.19	NA	0.25	EPA200.8	1.19	1	1.19	220	150.6	5.9		
8/21/2006	LACSD	R12		1.9	NA	0.25	EPA200.8	1.90	1	1.90	230	157.9	6.2		
9/18/2006	LACSD	R12		0.54	NA	0.25	EPA200.8	0.54	1	0.54	245	168.7	6.6		
2/27/2006	LACSD	R13		5.49	NA	0.25	EPA200.8	5.49	1	5.49	150	100.1	3.9		1
8/21/2006	LACSD	R13		0.83	NA	0.25	EPA200.8	0.83	1	0.83	227	155.7	6.1		
8/7/1997	LACSD	RA	<	20	NA	20.00	EPA200.8	20.00		**	225****	154.2	6.0		**
8/13/1998	LACSD	RA	<	20	NA	20.00	EPA200.8	20.00		**	225****	154.2	6.0		**
8/17/2000	LACSD	RA	<	10	NA	10.00	EPA200.8	10.00		**	225****	154.2	6.0		**
8/20/2001	LACSD	RA	<	10	NA	10.00	EPA200.8	10.00		**	225****	154.2	6.0		**
11/21/2002	LACSD	RA	E	1	NA	2.00	EPA200.8	2.00	1	2.00	225****	154.2	6.0		
4/7/2003	LACSD	RA		2	NA	2.00	EPA200.8	2.00	1	2.00	225****	154.2	6.0		
5/1/2003	LACSD	RA		2	NA	2.00	EPA200.8	2.00	1	2.00	225****	154.2	6.0		
10/16/2003	LACSD	RA	E	1.8	NA	2.00	EPA200.8	2.00	1	2.00	225****	154.2	6.0		
11/11/2003	LACSD	RA	E	1.7	NA	2.00	EPA200.8	2.00	1	2.00	225****	154.2	6.0		
2/11/2004	LACSD	RA		3	NA	2.00	EPA200.8	3.00	1	3.00	212	144.5	5.6		
3/10/2004	LACSD	RA		2	NA	2.00	EPA200.8	2.00	1	2.00	177	119.5	4.7		
4/14/2004	LACSD	RA		2	NA	2.00	EPA200.8	2.00	1	2.00	170	114.5	4.5		
5/12/2004	LACSD	RA		2	NA	2.00	EPA200.8	2.00	1	2.00	234	160.4	6.3		
7/7/2004	LACSD	RA	E	1	NA	2.00	EPA200.8	2.00	1	2.00	225	154.2	6.0		
8/11/2004	LACSD	RA	E	1.7	NA	2.00	EPA200.8	2.00	1	2.00	182	123.1	4.8		
9/15/2004	LACSD	RA		2	NA	2.00	EPA200.8	2.00	1	2.00	211	144.1	5.6		
10/6/2004	LACSD	RA	E	1.5	NA	2.00	EPA200.8	2.00	1	2.00	175	118.1	4.6		
12/15/2004	LACSD	RA	E	1	NA	2.00	EPA200.8	2.00	1	2.00	183	123.9	4.8		
1/25/2005	LACSD	RA		1.4	NA	0.25	EPA200.8	1.40	1	1.40	421	296.0	11.5		
2/28/2005	LACSD	RA		1.3	NA	0.25	EPA200.8	1.30	1	1.30	141	93.3	3.6		
3/16/2005	LACSD	RA		1.3	NA	0.25	EPA200.8	1.30	1	1.30	312	217.3	8.5		
4/13/2005	LACSD	RA		0.72	NA	0.25	EPA200.8	0.72	1	0.72	299	207.5	8.1		
5/11/2005	LACSD	RA		1.8	NA	0.25	EPA200.8	1.80	1	1.80	309	214.9	8.4		
6/22/2005	LACSD	RA		0.64	NA	0.25	EPA200.8	0.64	1	0.64	345	241.2	9.4		
7/20/2005	LACSD	RA		0.68	NA	0.25	EPA200.8	0.68	1	0.68	220	150.6	5.9		
8/24/2005	LACSD	RA		0.38	NA	0.25	EPA200.8	0.38	1	0.38	194	131.8	5.1		
9/28/2005	LACSD	RA		1.7	NA	0.25	EPA200.8	1.70	1	1.70	296	205.7	8.0		

APPENDIX L - TABLE L1
SAN GABRIEL RIVER REACH 2 - LEAD

Sample Date	Source	Location	Qualifier	Total Lead (ug/L)	Dissolved Lead (ug/L)	PQL/RL (ug/L)	Method	Conservative Dissolved Lead Concentration (ug/L)	Is Sample Usable for CCC? (1=Yes)	4-Day Average Concentration	Hardness	Dissolved Lead CMC (ug/L)	Dissolved Lead CCC (ug/L)	Does Sample Exceed CMC? (1=Yes)	Does 4-Day Average Exceed CCC? (1=Yes)
10/5/2005	LACSD	RA	<	4	NA	4.00	EPA200.8	4.00	1	4.00	311	216.6	8.4		
11/9/2005	LACSD	RA		0.59	NA	0.25	EPA200.8	0.59	1	0.59	273	188.7	7.4		
12/14/2005	LACSD	RA	<	2.5	NA	2.50	EPA200.8	2.50	1	2.50	237	162.9	6.3		
1/18/2006	LACSD	RA		0.53	NA	0.25	EPA200.8	0.53	1	0.53	250	172.0	6.7		
2/8/2006	LACSD	RA		0.43	NA	0.25	EPA200.8	0.43	1	0.43	221	151.0	5.9		
3/27/2006	LACSD	RA		1.05	NA	0.25	EPA200.8	1.05	1	1.05	225	154.2	6.0		
4/12/2006	LACSD	RA		0.89	NA	0.25	EPA200.8	0.89	1	0.89	224	153.1	6.0		
5/10/2006	LACSD	RA		3.58	NA	0.25	EPA200.8	3.58	1	3.58	280	193.8	7.6		
6/14/2006	LACSD	RA		0.71	NA	0.25	EPA200.8	0.71	1	0.71	171	115.2	4.5		
7/19/2006	LACSD	RA		0.39	NA	0.25	EPA200.8	0.39	1	0.39	176	118.8	4.6		
8/9/2006	LACSD	RA		2.3	NA	0.25	EPA200.8	2.30	1	2.30	227	155.7	6.1		
9/20/2006	LACSD	RA		0.49	NA	0.25	EPA200.8	0.49	1	0.49	187	126.8	4.9		
10/18/2006	LACSD	RA		0.4	NA	0.25	EPA200.8	0.40	1	0.40	218	149.2	5.8		
11/15/2006	LACSD	RA		0.9	NA	0.25	EPA200.8	0.90	1	0.90	207	140.8	5.5		
12/20/2006	LACSD	RA		0.54	NA	0.25	EPA200.8	0.54	1	0.54	184	124.2	4.8		
1/17/2007	LACSD	RA		0.34	NA	0.25	EPA200.8	0.34	1	0.34	235	161.1	6.3		
2/21/2007	LACSD	RA		1.85	NA	0.25	EPA200.8	1.85	1	1.85	249	171.6	6.7		
3/27/2007	LACSD	RA		0.73	NA	0.25	EPA200.8	0.73	1	0.73	216	147.4	5.7		
4/18/2007	LACSD	RA		0.43	NA	0.25	EPA200.8	0.43	1	0.43	220	150.2	5.9		

LACSD - Sanitation Districts of Los Angeles County
LACDPW - Los Angeles County Department of Public Works
* - Data is used in calculation of a 4-day average
** - Result Non-Detect with Detection Limit Greater than the CCC
*** - Concurrent hardness unavailable so average R11 Hardness used
**** - Concurrent hardness unavailable so average RA Hardness used

10 of 191 4-day averages exceed Criterion Continuous Concentration (CCC)

5 of 63 4-day dissolved copper averages exceed Criterion Continuous Concentration (CCC)

0 of 234 samples exceed Criterion Maximum Concentration (CMC)

APPENDIX M - TABLE M1
SANTA CLARA RIVER REACH 5 - CHLORODIBROMOMETHANE

Sample Date	Source	Location	Qualifier	Chlorodibromomethane (ug/L)	Human Health Organism Only (ug/L)	Is Sample Usable? (1=Yes)	Does Sample Exceed?
5/18/2004	Newhall	NR1	<	0.5	34	1	
5/18/2004	Newhall	NR3	<	0.5	34	1	
6/17/2004	Newhall	NR1	<	0.5	34	1	
6/17/2004	Newhall	NR3	<	0.5	34	1	
7/14/2004	LACSD	RC	<	0.5	34	1	
7/14/2004	LACSD	RD		2	34	1	
7/14/2004	LACSD	RE	E	0.1	34	1	
7/15/2004	Newhall	NR1	<	0.5	34	1	
7/15/2004	Newhall	NR3	<	0.5	34	1	
8/9/2004	Newhall	NR1	<	0.5	34	1	
8/9/2004	Newhall	NR3	<	0.5	34	1	
9/20/2004	Newhall	NR1	<	0.5	34	1	
9/20/2004	Newhall	NR3	<	0.5	34	1	
10/13/2004	LACSD	RC	<	0.5	34	1	
10/13/2004	LACSD	RD		2	34	1	
10/13/2004	LACSD	RE	E	0.2	34	1	
10/14/2004	Newhall	NR1	<	0.5	34	1	
10/14/2004	Newhall	NR3	<	0.5	34	1	
11/8/2004	Newhall	NR1	<	0.5	34	1	
11/8/2004	Newhall	NR3	<	0.5	34	1	
12/8/2004	Newhall	NR1	<	0.5	34	1	
12/8/2004	Newhall	NR3	<	0.5	34	1	
1/24/2005	Newhall	NR1	<	0.5	34	1	
1/24/2005	Newhall	NR3	<	0.5	34	1	
2/9/2005	LACSD	RC	<	0.5	34	1	
2/9/2005	LACSD	RD	E	0.4	34	1	
2/9/2005	LACSD	RE	<	0.5	34	1	
2/14/2005	Newhall	NR1	<	0.5	34	1	
2/14/2005	Newhall	NR3	<	0.5	34	1	
3/9/2005	Newhall	NR1	<	0.5	34	1	
3/9/2005	Newhall	NR3	<	0.5	34	1	
4/13/2005	LACSD	RC	<	0.5	34	1	
4/13/2005	LACSD	RD		0.5	34	1	
4/13/2005	LACSD	RE	<	0.5	34	1	
4/13/2005	Newhall	NR1	<	0.5	34	1	
4/13/2005	Newhall	NR3	<	0.5	34	1	
7/20/2005	LACSD	RC	<	1	34	1	
7/20/2005	LACSD	RD	<	1	34	1	
7/20/2005	LACSD	RE	<	1	34	1	
10/26/2005	LACSD	RC	<	0.5	34	1	
10/26/2005	LACSD	RD	E	0.4	34	1	
10/26/2005	LACSD	RE	<	0.5	34	1	
1/18/2006	LACSD	RC	<	0.5	34	1	
1/18/2006	LACSD	RD	E	0.4	34	1	
1/18/2006	LACSD	RE	<	0.5	34	1	

APPENDIX M - TABLE M1 (CONTINUED)

Sample Date	Source	Location	Qualifier	Chlorodibromomethane (ug/L)	Human Health Organism Only (ug/L)	Is Sample Usable? (1=Yes)	Does Sample Exceed?
4/19/2006	LACSD	RC	<	0.5	34	1	
4/19/2006	LACSD	RD	<	0.5	34	1	
4/19/2006	LACSD	RE	<	0.5	34	1	
7/19/2006	LACSD	RC	<	0.5	34	1	
7/19/2006	LACSD	RD	<	0.5	34	1	
7/19/2006	LACSD	RE	<	0.5	34	1	
10/18/2006	LACSD	RC	<	0.5	34	1	
10/18/2006	LACSD	RE	E	0.1	34	1	
10/18/2006	LACSD	RD		0.5	34	1	
2/14/2007	LACSD	RC	<	0.5	34	1	
2/14/2007	LACSD	RD		0.7	34	1	
2/14/2007	LACSD	RE	E	0.1	34	1	

LACSD - Sanitation Districts of Los Angeles County
Newhall - Newhall Land and Farming Company

0 of 57 Samples exceed Human Health Organism Only Criteria

APPENDIX M - TABLE M2
SANTA CLARA RIVER REACH 6 - CHLORODIBROMOMETHANE

Sample Date	Source	Location	Qualifier	Chlorodibromomethane (ug/L)	Human Health Organism Only (ug/L)	Is Sample Usable? (1=Yes)	Does Sample Exceed?
7/14/2004	LACSD	RB		12	34	1	
2/9/2005	LACSD	RB		10	34	1	
7/20/2005	LACSD	RB	<	1	34	1	
1/18/2006	LACSD	RA	<	0.5	34	1	
1/18/2006	LACSD	RB		0.7	34	1	
7/19/2006	LACSD	RA	<	0.5	34	1	
7/19/2006	LACSD	RB	E	0.4	34	1	
2/14/2007	LACSD	RB		0.7	34	1	

LACSD - Sanitation Districts of Los Angeles County

0 of 8 Samples exceed Human Health Organism Only Criteria

APPENDIX N - TABLE N1
SANTA CLARA RIVER REACH 5 - CHLORODIBROMOMETHANE

Sample Date	Source	Location	Qualifier	Dichlorobromomethane (ug/L)	Human Health Organism Only (ug/L)	Is Sample Usable? (1=Yes)	Does Sample Exceed?
7/14/2004	LACSD	RC	E	0.06	46	1	
10/13/2004	LACSD	RC	<	0.5	46	1	
2/9/2005	LACSD	RC	<	0.5	46	1	
4/13/2005	LACSD	RC	<	0.5	46	1	
7/20/2005	LACSD	RC	<	1	46	1	
10/26/2005	LACSD	RC	<	0.5	46	1	
1/18/2006	LACSD	RC	<	0.5	46	1	
4/19/2006	LACSD	RC	<	0.5	46	1	
7/19/2006	LACSD	RC	<	0.5	46	1	
10/18/2006	LACSD	RC	<	0.5	46	1	
2/14/2007	LACSD	RC	<	0.5	46	1	
7/14/2004	LACSD	RD		4	46	1	
10/13/2004	LACSD	RD		4	46	1	
2/9/2005	LACSD	RD		0.9	46	1	
4/13/2005	LACSD	RD		1	46	1	
7/20/2005	LACSD	RD		2.3	46	1	
10/26/2005	LACSD	RD		2	46	1	
1/18/2006	LACSD	RD		1	46	1	
4/19/2006	LACSD	RD	<	0.5	46	1	
7/19/2006	LACSD	RD	<	0.5	46	1	
10/18/2006	LACSD	RD		2	46	1	
2/14/2007	LACSD	RD		2	46	1	
7/14/2004	LACSD	RE	E	0.2	46	1	
10/13/2004	LACSD	RE	E	0.4	46	1	
2/9/2005	LACSD	RE	E	0.2	46	1	
4/13/2005	LACSD	RE	<	0.5	46	1	
7/20/2005	LACSD	RE	<	1	46	1	
10/26/2005	LACSD	RE	E	0.09	46	1	
1/18/2006	LACSD	RE	<	0.5	46	1	
4/19/2006	LACSD	RE	<	0.5	46	1	
7/19/2006	LACSD	RE	E	0.2	46	1	
10/18/2006	LACSD	RE	E	0.3	46	1	
2/14/2007	LACSD	RE	E	0.3	46	1	
5/18/2004	Newhall	NR1	<	0.500	46	1	
6/17/2004	Newhall	NR1	<	0.500	46	1	
7/15/2004	Newhall	NR1	<	0.500	46	1	
8/9/2004	Newhall	NR1	<	0.500	46	1	
9/20/2004	Newhall	NR1	<	0.500	46	1	
10/14/2004	Newhall	NR1	<	0.500	46	1	
11/8/2004	Newhall	NR1	<	0.500	46	1	
12/8/2004	Newhall	NR1	<	0.500	46	1	
1/24/2005	Newhall	NR1	<	0.500	46	1	
2/14/2005	Newhall	NR1	<	0.500	46	1	
3/9/2005	Newhall	NR1	<	0.500	46	1	
4/13/2005	Newhall	NR1	<	0.500	46	1	

APPENDIX N - TABLE N1 (CONTINUED)

Sample Date	Source	Location	Qualifier	Dichlorobromomethane (ug/L)	Human Health Organism Only (ug/L)	Is Sample Usable? (1=Yes)	Does Sample Exceed?
5/18/2004	Newhall	NR3	<	0.500	46	1	
6/17/2004	Newhall	NR3	<	0.500	46	1	
7/15/2004	Newhall	NR3	<	0.500	46	1	
8/9/2004	Newhall	NR3	<	0.500	46	1	
9/20/2004	Newhall	NR3	<	0.500	46	1	
10/14/2004	Newhall	NR3	<	0.500	46	1	
11/8/2004	Newhall	NR3	<	0.500	46	1	
12/8/2004	Newhall	NR3	<	0.500	46	1	
1/24/2005	Newhall	NR3	<	0.500	46	1	
2/14/2005	Newhall	NR3	<	0.500	46	1	
3/9/2005	Newhall	NR3	<	0.500	46	1	
4/13/2005	Newhall	NR3	<	0.500	46	1	

LACSD - Sanitation Districts of Los Angeles County
Newhall - Newhall Land and Farming Company

0 of 57 Samples exceed Human Health Organism Only Criteria

APPENDIX N - TABLE N2
SANTA CLARA RIVER REACH 6 - DICHLOROBROMOMETHANE

Sample Date	Source	Location	Qualifier	Dichlorobromomethane (ug/L)	Human Health Organism Only (ug/L)	Is Sample Usable? (1=Yes)	Does Sample Exceed?
7/14/2004	LACSD	RB		29	46	1	
2/9/2005	LACSD	RB		23	46	1	
7/20/2005	LACSD	RB		2.1	46	1	
1/18/2006	LACSD	RA	<	0.5	46	1	
1/18/2006	LACSD	RB		2	46	1	
7/19/2006	LACSD	RA	<	0.5	46	1	
7/19/2006	LACSD	RB		2	46	1	
2/14/2007	LACSD	RB		1	46	1	

LACSD - Sanitation Districts of Los Angeles County

0 of 8 Samples exceed Human Health Organism Only Criteria

APPENDIX O - TABLE O1
SAN JOSE CREEK REACH 1 - AMMONIA

Sample Date	Source	Location	Qualifier	Ammonia (mg/L)	4-Day Ammonia Average (mg/L)	RL (mg/L)	pH	Temp (C)	CMC (mg/L)	SSO Adjusted CCC (mg/L) No ELS	SSO Adjusted CCC (mg/L) with ELS	4-Day Average CCC	Is 4-Day Average Usable? (1=Yes)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed 4-Day CCC (1=Yes)
5/17/2004	LACSD	C2	<	0.10	*	0.10	7.48	24.0	20.49		3.62	*	*		*
5/18/2004	LACSD	C2		0.80	*	0.50	7.45	25.6	21.41		3.34	*	*		*
5/18/2004	LACSD	C1	<	0.10	0.10	0.10	8.29	21.7	4.81		1.46	1.46	1		
5/19/2004	LACSD	C2		0.90	*	0.50	7.56	25.7	18.15		3.02	*	*		*
5/21/2004	LACSD	C2		0.50	0.58	0.50	7.19	24.5	29.87		4.27	3.02	1		
6/8/2004	LACSD	C2		0.90	0.90	0.50	7.61	23.4	16.76		3.33	3.33	1		
6/8/2004	LACSD	C1		0.10	0.10	0.10	7.83	19.6	11.51		3.30	3.30	1		
7/20/2004	LACSD	C2		0.30	0.30	0.10	8.05	26.4	7.65		1.58	1.58	1		
7/20/2004	LACSD	C1	<	0.10	0.10	0.10	7.61	24.2	16.76		3.16	3.16	1		
8/17/2004	LACSD	RD		0.20	0.20	0.10	9.11	32.4	1.12		0.20	0.20	1		
8/17/2004	LACSD	RC	<	0.10	0.10	0.10	8.91	25.5	1.53		0.41	0.41	1		
8/17/2004	LACSD	RA		0.10	0.10	0.10	10.53	26.2	0.44		0.12	0.12	1		
9/7/2004	LACSD	RD	<	0.10	0.10	0.10	8.62	28.2	2.55		0.55	0.55	1		
9/7/2004	LACSD	RC		0.40	0.40	0.10	8.60	21.7	2.65		0.87	0.87	1		
9/7/2004	LACSD	RA		1.10	1.10	0.10	8.36	26.8	4.20		0.94	0.94	1		1
9/15/2004	LACSD	C2		2.00	2.00	0.10	7.53	26.8	19.01		2.88	2.88	1		
9/15/2004	LACSD	C1		0.60	0.60	0.10	8.15	20.3	6.31		2.00	2.00	1		
9/22/2004	LACSD	C2		1.40	1.40	0.10	7.50	24.3	19.89		3.48	3.48	1		
10/6/2004	LACSD	C2		1.00	1.00	0.10	8.07	22.8	7.36	1.93		1.93	1		
10/6/2004	LACSD	C1		0.50	0.50	0.10	8.34	17.2	4.36	1.80		1.80	1		
10/12/2004	LACSD	C2		0.70	0.70	0.10	9.11	20.7	1.12	0.42		0.42	1		1
10/12/2004	LACSD	RD		0.10	0.10	0.10	9.66	26.1	0.61	0.17		0.17	1		
10/12/2004	LACSD	RC		0.10	0.10	0.10	9.36	24.7	0.81	0.24		0.24	1		
10/12/2004	LACSD	RA		1.20	1.20	0.10	7.86	27.0	10.90	1.98		1.98	1		
11/8/2004	LACSD	C2		0.30	*	0.10	8.16	17.1	6.19	2.43		*	*		*
11/9/2004	LACSD	C2		0.30	*	0.10	8.20	19.8	5.73	1.92		*	*		*
11/10/2004	LACSD	C2		0.10	*	0.10	8.22	13.7	5.51	2.74		*	*		*
11/11/2004	LACSD	C2		0.30	*	0.10	8.86	20.0	1.66	0.63		*	*		*
11/12/2004	LACSD	C2		0.40	0.28	0.10	8.02	17.1	8.10	3.00		2.14	1		
11/13/2004	LACSD	C2		0.60	0.34	0.10	9.10	21.8	1.14	0.40		1.74	1		
11/14/2004	LACSD	C2		0.40	0.36	0.10	8.97	22.1	1.39	0.47		1.45	1		
11/15/2004	LACSD	C2		0.20	0.38	0.10	7.92	13.5	9.76	4.36		1.77	1		
11/16/2004	LACSD	C2		0.30	0.38	0.10	7.86	18.8	10.90	3.35		2.32	1		
11/16/2004	LACSD	RD	<	0.10	0.10	0.10	9.36	17.7	0.81	0.38		0.38	1		

APPENDIX O - TABLE O1
SAN JOSE CREEK REACH 1 - AMMONIA

Sample Date	Source	Location	Qualifier	Ammonia (mg/L)	4-Day Ammonia Average (mg/L)	RL (mg/L)	pH	Temp (C)	CMC (mg/L)	SSO Adjusted CCC (mg/L) No ELS	SSO Adjusted CCC (mg/L) with ELS	4-Day Average CCC	Is 4-Day Average Usable? (1=Yes)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed 4-Day CCC (1=Yes)
11/16/2004	LACSD	RC	<	0.10	0.10	0.10	8.82	16.7	1.78	0.84		0.84	1		
11/16/2004	LACSD	RA		1.50	1.50	0.10	7.81	22.6	11.92	2.80		2.80	1		
11/17/2004	LACSD	C2	<	0.10	0.32	0.10	8.23	13.9	5.40	2.66		2.01	1		
11/17/2004	LACSD	C1	<	0.10	0.10	0.10	8.28	13.7	4.90	2.49		2.49	1		
11/18/2004	LACSD	C2		0.10	0.22	0.10	7.91	18.2	9.95	3.26		2.41	1		
11/19/2004	LACSD	C2	<	0.10	0.16	0.10	8.11	13.7	6.82	3.26		2.89	1		
11/20/2004	LACSD	C2	<	0.10	0.14	0.10	8.00	15.7	8.41	3.38		3.01	1		
11/21/2004	LACSD	C2		0.70	0.22	0.10	7.41	18.4	22.66	5.49		3.58	1		
11/22/2004	LACSD	C2		2.80	0.76	0.10	7.42	20.9	22.34	4.62		4.00	1		
11/23/2004	LACSD	C2		0.90	0.92	0.10	7.81	16.0	11.92	4.29		4.21	1		
11/24/2004	LACSD	C2		0.40	0.98	0.10	8.00	19.4	8.41	2.67		4.09	1		
11/25/2004	LACSD	C2	<	0.30	1.02	0.10	7.86	19.1	10.90	3.29		4.07	1		
11/26/2004	LACSD	C2		0.40	0.96	0.10	7.67	18.0	15.19	4.43		3.86	1		
11/27/2004	LACSD	C2	<	0.10	0.42	0.10	8.22	12.9	5.51	2.89		3.52	1		
11/28/2004	LACSD	C2	<	0.10	0.26	0.10	8.04	11.5	7.79	4.18		3.49	1		
11/29/2004	LACSD	C2		0.30	0.24	0.10	8.29	13.3	4.81	2.52		3.46	1		
11/30/2004	LACSD	C2		0.30	0.24	0.10	7.96	13.2	9.06	4.20		3.65	1		
12/1/2004	LACSD	C2	<	0.10	0.18	0.10	8.31	8.9	4.62	3.22		3.40	1		
12/2/2004	LACSD	C2	<	0.10	0.18	0.10	8.11	8.8	6.82	4.47		3.72	1		
12/3/2004	LACSD	C2		0.40	0.24	0.10	7.57	14.5	17.86	6.15		4.11	1		
12/4/2004	LACSD	C2		0.50	0.28	0.10	8.08	9.0	7.22	4.63		4.54	1		
12/5/2004	LACSD	C2	<	0.10	0.24	0.10	7.70	11.3	14.44	6.62		5.02	1		
12/6/2004	LACSD	C2		0.40	0.30	0.10	7.82	13.9	11.71	4.83		5.34	1		
12/7/2004	LACSD	C2		0.20	0.32	0.10	8.02	15.7	8.10	3.28		5.10	1		
12/15/2004	LACSD	C2	<	0.10	0.10	0.10	8.12	11.8	6.69	3.64		3.64	1		
12/15/2004	LACSD	C1	<	0.10	0.10	0.10	8.20	11.7	5.73	3.22		3.22	1		
12/16/2004	LACSD	RD	<	0.10	0.10	0.10	7.42	16.5	22.34	6.16		6.16	1		
12/16/2004	LACSD	RC		0.10	0.10	0.10	8.95	14.2	1.43	0.80		0.80	1		
12/20/2004	LACSD	C2		0.20	0.20	0.10	7.77	15.1	12.80	4.77		4.77	1		
12/27/2004	LACSD	C2		0.40	0.40	0.10	7.68	15.0	14.94	5.32		5.32	1		
1/4/2005	LACSD	RA		1.70	1.70	0.10	7.39	18.2	23.29	5.64		5.64	1		
1/11/2005	LACSD	RA		1.20	1.20	0.10	7.32	16.7	25.56	6.52		6.52	1		
1/18/2005	LACSD	RD	<	0.10	0.10	0.10	8.92	21.4	1.51	0.53		0.53	1		
1/18/2005	LACSD	RC	<	0.10	0.10	0.10	9.34	22.0	0.83	0.29		0.29	1		

APPENDIX O - TABLE O1
SAN JOSE CREEK REACH 1 - AMMONIA

Sample Date	Source	Location	Qualifier	Ammonia (mg/L)	4-Day Ammonia Average (mg/L)	RL (mg/L)	pH	Temp (C)	CMC (mg/L)	SSO Adjusted CCC (mg/L) No ELS	SSO Adjusted CCC (mg/L) with ELS	4-Day Average CCC	Is 4-Day Average Usable? (1=Yes)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed 4-Day CCC (1=Yes)
1/18/2005	LACSD	RA		0.20	0.20	0.10	9.24	22.2	0.94	0.32		0.32	1		
1/19/2005	LACSD	C2		0.40	0.40	0.10	8.10	14.6	6.95	3.13		3.13	1		
1/19/2005	LACSD	C1	<	0.10	0.10	0.10	8.22	11.7	5.51	3.12		3.12	1		
1/25/2005	LACSD	C2	<	0.10	0.10	0.10	8.24	15.8	5.30	2.33		2.33	1		
1/25/2005	LACSD	RA		1.00	*	0.10	8.02	20.9	8.10	2.35		*	*		*
1/27/2005	LACSD	RA		0.80	*	0.10	7.92	20.9	9.76	2.70		*	*		*
1/28/2005	LACSD	RA		0.80	0.87	0.10	8.09	20.0	7.08	2.24		2.43	1		
1/31/2005	LACSD	RA		1.30	0.97	0.10	7.58	19.8	17.58	4.33		3.09	1		
2/2/2005	LACSD	C2	<	0.10	0.10	0.10	8.40	12.1	3.88	2.26		2.26	1		
2/9/2005	LACSD	C2	<	0.10	0.10	0.10	8.55	13.0	2.91	1.66		1.66	1		
2/15/2005	LACSD	C2	<	0.10	0.10	0.10	7.43	18.5	22.03	5.37		5.37	1		
2/15/2005	LACSD	C1		0.70	0.70	0.10	8.32	13.9	4.53	2.30		2.30	1		
2/15/2005	LACSD	RD	<	0.10	0.10	0.10	8.65	17.5	2.42	1.05		1.05	1		
2/15/2005	LACSD	RC		0.40	0.40	0.10	8.64	17.7	2.46	1.05		1.05	1		
2/15/2005	LACSD	RA		1.20	1.20	0.10	7.72	20.4	13.96	3.58		3.58	1		
3/2/2005	LACSD	C2	<	0.10	0.10	0.10	8.23	14.5	5.40	2.57		2.57	1		
3/9/2005	LACSD	C2	<	0.10	0.10	0.10	8.31	15.9	4.62	2.05		2.05	1		
3/15/2005	LACSD	RD	<	0.10	0.10	0.10	9.23	22.5	0.95	0.32		0.32	1		
3/15/2005	LACSD	RC	<	0.10	0.10	0.10	9.13	16.3	1.09	0.54		0.54	1		
3/15/2005	LACSD	RA		1.10	1.10	0.10	8.11	21.2	6.82	2.01		2.01	1		
3/16/2005	LACSD	C2		0.80	0.80	0.10	7.56	18.5	18.15	4.80		4.80	1		
3/16/2005	LACSD	C1	<	0.10	0.10	0.10	8.02	12.6	8.10	4.01		4.01	1		
3/21/2005	LACSD	C2		1.30	1.30	0.10	7.85	20.9	11.10	2.96		2.96	1		
3/30/2005	LACSD	C2		0.40	0.40	0.10	7.47	19.7	20.79	4.80		4.80	1		
4/6/2005	LACSD	C2		0.90	*	0.10	7.59	20.9	17.31		4.00	*	*		*
4/6/2005	LACSD	RA		1.70	1.70	0.10	8.03	22.6	7.94		2.07	2.07	1		
4/7/2005	LACSD	C2		0.90	0.90	0.10	7.43	21.1	22.03		4.54	3.31	1		
4/12/2005	LACSD	RA		1.80	1.80	0.10	8.05	22.0	7.65		2.10	2.10	1		
4/13/2005	LACSD	C2	<	0.10	0.10	0.10	8.68	17.9	2.29		0.87	0.87	1		
4/13/2005	LACSD	C1	<	0.10	0.10	0.10	8.02	15.0	8.10		2.55	2.55	1		
4/19/2005	LACSD	RD	<	0.10	0.10	0.10	8.48	21.1	3.33		1.11	1.11	1		
4/19/2005	LACSD	RC	<	0.10	0.10	0.10	8.81	15.1	1.81		0.70	0.70	1		
4/19/2005	LACSD	RA		1.00	1.00	0.10	7.74	18.3	13.48		3.68	3.68	1		
4/20/2005	LACSD	C2	<	0.10	0.10	0.10	8.60	17.6	2.65		0.99	0.99	1		

APPENDIX O - TABLE O1
SAN JOSE CREEK REACH 1 - AMMONIA

Sample Date	Source	Location	Qualifier	Ammonia (mg/L)	4-Day Ammonia Average (mg/L)	RL (mg/L)	pH	Temp (C)	CMC (mg/L)	SSO Adjusted CCC (mg/L) No ELS	SSO Adjusted CCC (mg/L) with ELS	4-Day Average CCC	Is 4-Day Average Usable? (1=Yes)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed 4-Day CCC (1=Yes)
4/26/2005	LACSD	RA		1.00	1.00	0.10	8.42	22.6	3.74		1.11	1.11	1		
4/27/2005	LACSD	C2		0.20	0.20	0.10	8.04	18.5	7.79		2.47	2.47	1		
5/3/2005	LACSD	RA	<	0.10	0.10	0.10	8.37	26.2	4.12		0.96	0.96	1		
5/4/2005	LACSD	C2		0.90	0.90	0.10	7.51	22.5	19.59		3.88	3.88	1		
5/9/2005	LACSD	RA		0.50	0.50	0.10	8.02	22.3	8.10		2.15	2.15	1		
5/11/2005	LACSD	C2		1.30	1.30	0.10	7.80	21.8	12.14		2.98	2.98	1		
5/11/2005	LACSD	C1	<	0.10	0.10	0.10	8.42	16.8	3.74		1.34	1.34	1		
5/17/2005	LACSD	RD		0.20	0.20	0.10	8.75	24.3	2.01		0.57	0.57	1		
5/17/2005	LACSD	RC	<	0.10	0.10	0.10	9.31	21.8	0.86		0.31	0.31	1		
5/17/2005	LACSD	RA		0.60	0.60	0.10	8.84	24.6	1.72		0.49	0.49	1		1
5/18/2005	LACSD	C2	<	0.10	0.10	0.10	8.71	20.4	2.16		0.78	0.78	1		
5/24/2005	LACSD	RA		0.20	0.20	0.10	8.68	20.3	2.29		0.83	0.83	1		
5/25/2005	LACSD	C2		0.60	0.60	0.10	7.35	24.4	24.58		3.88	3.88	1		
5/31/2005	LACSD	RA		0.60	0.60	0.10	8.31	25.3	4.62		1.12	1.12	1		
6/1/2005	LACSD	C2		0.90	0.90	0.10	7.57	24.7	17.86		3.18	3.18	1		
6/7/2005	LACSD	RA		1.10	1.10	0.10	8.02	23.5	8.10		1.99	1.99	1		
6/8/2005	LACSD	C2		0.50	0.50	0.10	7.68	21.6	14.94		3.49	3.49	1		
6/14/2005	LACSD	RD	<	0.10	0.10	0.10	8.29	30.6	4.81		0.82	0.82	1		
6/14/2005	LACSD	RC	<	0.10	0.10	0.10	9.01	26.0	1.30		0.34	0.34	1		
6/14/2005	LACSD	RA		0.90	0.90	0.10	8.27	27.4	5.00		1.05	1.05	1		
6/15/2005	LACSD	C2		0.90	0.90	0.10	7.57	24.3	17.86		3.27	3.27	1		
6/15/2005	LACSD	C1		0.20	0.20	0.10	8.05	20.0	7.65		2.38	2.38	1		
6/21/2005	LACSD	RA	<	0.10	0.10	0.10	10.25	33.2	0.46		0.08	0.08	**		**
6/22/2005	LACSD	C2		1.00	1.00	0.10	7.50	24.3	19.89		3.49	3.49	1		
6/29/2005	LACSD	C2		0.20	0.20	0.10	8.14	21.0	6.43		1.95	1.95	1		
7/5/2005	LACSD	RA		0.10	0.10	0.10	10.68	31.3	0.43		0.09	0.09	**		**
7/6/2005	LACSD	C2		0.40	0.40	0.10	8.06	22.5	7.50		2.00	2.00	1		
7/12/2005	LACSD	RA	<	0.10	0.10	0.10	9.61	21.9	0.64		0.23	0.23	1		
7/13/2005	LACSD	C2		0.90	0.90	0.10	7.66	26.4	15.44		2.60	2.60	1		
7/13/2005	LACSD	C1		0.30	0.30	0.10	8.14	22.8	6.43		1.73	1.73	1		
7/19/2005	LACSD	RD	<	0.10	0.10	0.10	8.35	30.9	4.28		0.73	0.73	1		
7/19/2005	LACSD	RC		0.10	0.10	0.10	8.00	29.1	8.41		1.43	1.43	1		
7/19/2005	LACSD	RA		0.10	0.10	0.10	10.17	30.2	0.47		0.10	0.10	1		
7/20/2005	LACSD	C2		0.80	0.80	0.10	7.35	26.9	24.58		3.32	3.32	1		

APPENDIX O - TABLE O1
SAN JOSE CREEK REACH 1 - AMMONIA

Sample Date	Source	Location	Qualifier	Ammonia (mg/L)	4-Day Ammonia Average (mg/L)	RL (mg/L)	pH	Temp (C)	CMC (mg/L)	SSO Adjusted CCC (mg/L) No ELS	SSO Adjusted CCC (mg/L) with ELS	4-Day Average CCC	Is 4-Day Average Usable? (1=Yes)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed 4-Day CCC (1=Yes)
7/26/2005	LACSD	RA		0.20	0.20	0.10	9.80	25.3	0.56		0.16	0.16	1		1
7/27/2005	LACSD	C2		0.60	0.60	0.10	8.00	26.2	8.41		1.72	1.72	1		
8/2/2005	LACSD	RA		0.20	0.20	0.10	10.43	24.8	0.45		0.14	0.14	1		1
8/3/2005	LACSD	C2		0.80	0.80	0.10	7.57	26.0	17.86		2.93	2.93	1		
8/9/2005	LACSD	RA		0.30	0.30	0.10	9.67	25.4	0.61		0.18	0.18	1		1
8/10/2005	LACSD	C2		0.60	0.60	0.10	7.61	23.9	16.76		3.23	3.23	1		
8/10/2005	LACSD	C1		0.30	0.30	0.10	8.02	21.2	8.10		2.30	2.30	1		
8/16/2005	LACSD	RD	<	0.10	0.10	0.10	9.25	24.4	0.93		0.28	0.28	1		
8/16/2005	LACSD	RC	<	0.10	0.10	0.10	9.24	23.2	0.94		0.30	0.30	1		
8/16/2005	LACSD	RA	<	0.10	0.10	0.10	9.82	22.4	0.55		0.19	0.19	1		
8/17/2005	LACSD	C2		0.40	0.40	0.10	7.94	23.3	9.41		2.26	2.26	1		
8/23/2005	LACSD	RA	<	0.10	0.10	0.10	9.54	20.9	0.68		0.26	0.26	1		
8/24/2005	LACSD	C2		0.10	0.10	0.10	8.08	19.1	7.22		2.33	2.41	1		
8/30/2005	LACSD	RA	<	0.10	0.10	0.10	9.48	23.2	0.72		0.24	0.24	1		
8/31/2005	LACSD	C2		0.30	0.30	0.10	8.03	20.8	7.94		2.34	2.34	1		
9/7/2005	LACSD	C2		0.70	0.70	0.10	8.16	20.6	6.19		1.94	1.94	1		
9/14/2005	LACSD	C2		0.40	0.40	0.10	8.55	19.5	2.91		1.08	1.08	1		
9/14/2005	LACSD	C1		0.30	0.30	0.10	8.33	17.5	4.45		1.56	1.56	1		
9/23/2005	LACSD	C2		0.70	0.70	0.10	7.64	24.4	15.96		3.03	3.03	1		
9/23/2005	LACSD	RA		1.40	1.40	0.10	8.00	26.9	8.41		1.65	1.65	1		
9/27/2005	LACSD	RD	<	0.10	0.10	0.10	9.03	24.0	1.26		0.38	0.38	1		
9/27/2005	LACSD	RC	<	0.10	0.10	0.10	8.91	20.0	1.53		0.59	0.59	1		
9/27/2005	LACSD	RA		1.30	1.30	0.10	8.23	26.5	5.40		1.18	1.18	1		1
9/28/2005	LACSD	C2		0.50	0.50	0.10	9.01	20.3	1.30		0.50	0.50	1		
10/4/2005	LACSD	RA		1.30	1.30	0.10	8.48	23.0	3.33	0.98		0.98	1		1
10/5/2005	LACSD	C2		0.40	0.40	0.10	8.64	18.9	2.46	0.97		0.97	1		
10/11/2005	LACSD	RA		0.90	0.90	0.10	7.68	20.4	14.94	3.76		3.76	1		
10/12/2005	LACSD	C2		0.30	0.30	0.10	8.48	19.5	3.33	1.23		1.23	1		
10/25/2005	LACSD	RD	<	0.10	0.10	0.10	8.89	18.3	1.58	0.68		0.68	1		
10/25/2005	LACSD	RC	<	0.10	0.10	0.10	9.26	19.1	0.92	0.39		0.39	1		
10/25/2005	LACSD	RA		1.00	1.00	0.10	8.22	25.5	5.51	1.28		1.28	1		
10/26/2005	LACSD	C2		0.60	0.60	0.10	7.97	20.8	8.90	2.55		2.55	1		
10/26/2005	LACSD	C1		0.20	0.20	0.10	8.31	14.9	4.62	2.20		2.20	1		
11/1/2005	LACSD	RA		1.30	1.30	0.10	7.97	24.0	8.90	2.07		2.07	1		

APPENDIX O - TABLE O1
SAN JOSE CREEK REACH 1 - AMMONIA

Sample Date	Source	Location	Qualifier	Ammonia (mg/L)	4-Day Ammonia Average (mg/L)	RL (mg/L)	pH	Temp (C)	CMC (mg/L)	SSO Adjusted CCC (mg/L) No ELS	SSO Adjusted CCC (mg/L) with ELS	4-Day Average CCC	Is 4-Day Average Usable? (1=Yes)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed 4-Day CCC (1=Yes)
11/2/2005	LACSD	C2		1.10	1.10	0.10	7.62	24.5	16.49	3.07		3.07	1		
11/8/2005	LACSD	RA		1.10	1.10	0.10	8.41	23.8	3.81	1.05		1.05	1		1
11/9/2005	LACSD	C2		0.80	0.80	0.10	7.79	22.2	12.36	2.94		2.94	1		
11/15/2005	LACSD	RD		0.20	0.20	0.10	9.06	19.8	1.21	0.48		0.48	1		
11/15/2005	LACSD	RC		0.10	0.10	0.10	9.31	21.1	0.86	0.32		0.32	1		
11/15/2005	LACSD	RA		1.90	1.90	0.10	8.32	23.8	4.53	1.22		1.22	1		1
11/16/2005	LACSD	C2		1.00	1.00	0.10	8.09	22.3	7.08	1.94		1.94	1		
11/16/2005	LACSD	C1		0.10	0.10	0.10	8.43	14.1	3.66	1.89		1.89	1		
11/21/2005	LACSD	C2		0.20	0.20	0.10	8.55	14.5	2.91	1.50		1.50	1		
11/21/2005	LACSD	RA		0.50	0.50	0.10	9.37	23.7	0.80	0.25		0.25	1		1
11/29/2005	LACSD	RA		0.10	0.10	0.10	8.46	10.7	3.46	2.24		2.24	1		
11/30/2005	LACSD	C2	<	0.10	0.10	0.10	8.11	13.1	6.82	3.39		3.39	1		
12/6/2005	LACSD	RA		0.70	0.70	0.10	7.79	14.7	12.36	4.77		4.77	1		
12/7/2005	LACSD	C2	<	0.10	0.10	0.10	9.25	14.3	0.93	0.53		0.53	1		
12/13/2005	LACSD	RD	<	0.10	0.10	0.10	9.22	13.7	0.96	0.57		0.57	1		
12/13/2005	LACSD	RC	<	0.10	0.10	0.10	9.00	13.4	1.32	0.79		0.79	1		
12/13/2005	LACSD	RA		0.90	0.90	0.10	7.92	16.1	9.76	3.69		3.69	1		
12/14/2005	LACSD	C2		0.40	0.40	0.10	8.09	14.9	7.08	3.12		3.12	1		
12/20/2005	LACSD	RA		0.40	0.40	0.10	8.74	21.8	2.05	0.68		0.68	1		
12/21/2005	LACSD	C2		0.60	0.60	0.10	7.89	17.8	10.32	3.45		3.45	1		
12/21/2005	LACSD	C1		0.20	0.20	0.10	8.64	13.2	2.46	1.40		1.40	1		
12/28/2005	LACSD	C2		0.60	0.60	0.10	7.76	17.2	13.02	4.21		4.21	1		
1/5/2006	LACSD	C2	<	0.10	0.10	0.10	8.22	13.1	5.51	2.85		2.85	1		
1/11/2006	LACSD	C2		0.60	0.60	0.10	7.65	16.9	15.70	4.87		4.87	1		
1/11/2006	LACSD	C1		0.10	0.10	0.10	8.47	11.4	3.39	2.10		2.10	1		
1/17/2006	LACSD	RD	<	0.10	0.10	0.10	9.02	13.7	1.28	0.75		0.75	1		
1/17/2006	LACSD	RC		0.10	0.10	0.10	8.95	13.2	1.43	0.85		0.85	1		
1/17/2006	LACSD	RA		0.80	0.80	0.10	7.70	21.3	14.44	3.46		3.46	1		
1/18/2006	LACSD	C2	<	0.10	0.10	0.10	8.26	10.6	5.10	3.14		3.14	1		
1/25/2006	LACSD	C2		0.10	0.10	0.10	7.97	10.4	8.90	4.98		4.98	1		
2/1/2006	LACSD	C2		0.60	0.60	0.10	7.30	16.0	26.21	6.93		6.93	1		
2/1/2006	LACSD	C1		0.10	0.10	0.10	8.25	12.7	5.20	2.79		2.79	1		
2/8/2006	LACSD	C2		0.70	0.70	0.10	7.47	14.6	20.79	6.68		6.68	1		
2/15/2006	LACSD	C2		0.50	0.50	0.10	7.73	17.8	13.72	4.21		4.21	1		

APPENDIX O - TABLE O1
SAN JOSE CREEK REACH 1 - AMMONIA

Sample Date	Source	Location	Qualifier	Ammonia (mg/L)	4-Day Ammonia Average (mg/L)	RL (mg/L)	pH	Temp (C)	CMC (mg/L)	SSO Adjusted CCC (mg/L) No ELS	SSO Adjusted CCC (mg/L) with ELS	4-Day Average CCC	Is 4-Day Average Usable? (1=Yes)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed 4-Day CCC (1=Yes)
2/21/2006	LACSD	RD	<	0.10	0.10	0.10	9.11	15.8	1.12	0.58		0.58	1		
2/21/2006	LACSD	RC	<	0.10	0.10	0.10	9.41	12.5	0.77	0.50		0.50	1		
2/21/2006	LACSD	RA		0.90	0.90	0.10	7.98	20.9	8.73	2.49		2.49	1		
2/22/2006	LACSD	C2	<	0.10	0.10	0.10	7.91	10.8	9.95	5.25		5.25	1		
2/27/2006	LACSD	C2		0.40	0.40	0.10	7.76	16.9	13.02	4.30		4.30	1		
3/9/2006	LACSD	C2		1.20	1.20	0.10	7.57	20.3	17.86	4.24		4.24	1		
3/15/2006	LACSD	C2		1.30	1.30	0.10	7.66	19.6	15.44	4.04		4.04	1		
3/15/2006	LACSD	C1		0.20	0.20	0.10	8.23	12.5	5.40	2.92		2.92	1		
3/23/2006	LACSD	C2	<	0.10	*	0.10	9.16	15.8	1.05	0.54		*	*		*
3/23/2006	LACSD	RD	<	0.10	0.10	0.10	9.99	26.4	0.51	0.14		0.14	1		
3/23/2006	LACSD	RC		0.30	0.30	0.10	9.80	24.8	0.56	0.17		0.17	1		1
3/23/2006	LACSD	RA		1.20	1.20	0.10	8.88	24.9	1.61	0.45		0.45	1		1
3/27/2006	LACSD	C2		0.20	0.15	0.10	9.26	16.9	0.92	0.44		0.45	1		
4/3/2006	LACSD	C2		0.17	0.17	0.10	9.00	16.3	1.32		0.52	0.52	1		
4/12/2006	LACSD	C2	<	0.10	0.10	0.10	9.24	16.8	0.94		0.38	0.38	1		
4/18/2006	LACSD	RD		0.11	0.11	0.10	9.33	22.5	0.84		0.29	0.29	1		
4/18/2006	LACSD	RC	<	0.10	0.10	0.10	9.52	18.7	0.69		0.29	0.29	1		
4/18/2006	LACSD	RA		0.62	0.62	0.10	8.65	21.7	2.42		0.80	0.80	1		
4/19/2006	LACSD	C2		0.64	0.64	0.10	7.69	21.5	14.69		3.46	3.46	1		
4/19/2006	LACSD	C1	<	0.10	0.10	0.10	8.32	16.0	4.53		1.59	1.59	1		
4/25/2006	LACSD	RA		0.74	0.74	0.10	8.62	22.5	2.55		0.80	0.80	1		
4/26/2006	LACSD	C2	<	0.10	0.10	0.10	8.94	17.9	1.46		0.57	0.57	1		
5/2/2006	LACSD	RA		0.11	0.11	0.10	9.01	19.1	1.30		0.52	0.52	1		
5/3/2006	LACSD	C2		0.14	0.14	0.10	8.71	20.7	2.16		0.77	0.77	1		
5/9/2006	LACSD	RA	<	0.10	0.10	0.10	9.01	18.1	1.30		0.52	0.52	1		
5/10/2006	LACSD	C2		0.40	0.40	0.10	7.69	23.1	14.69		3.12	3.12	1		
5/17/2006	LACSD	C2		0.44	0.44	0.10	8.02	21.2	8.10		2.31	2.31	1		
5/17/2006	LACSD	C1	<	0.10	0.10	0.10	8.42	20.5	3.74		1.27	1.27	1		
5/25/2006	LACSD	C2		0.17	0.17	0.10	7.94	22.4	9.41		2.39	2.39	1		
5/30/2006	LACSD	RD		0.16	0.16	0.10	9.01	32.2	1.30		0.23	0.23	1		
5/30/2006	LACSD	RC		0.15	0.15	0.10	9.27	23.0	0.90		0.30	0.30	1		
5/30/2006	LACSD	RA		1.10	1.10	0.10	7.88	26.7	10.51		1.96	1.96	1		
5/31/2006	LACSD	C2		0.49	0.49	0.10	7.66	20.5	15.44		3.81	3.81	1		
6/7/2006	LACSD	C2		0.44	0.44	0.10	7.35	24.5	24.58		3.87	3.87	1		

APPENDIX O - TABLE O1
SAN JOSE CREEK REACH 1 - AMMONIA

Sample Date	Source	Location	Qualifier	Ammonia (mg/L)	4-Day Ammonia Average (mg/L)	RL (mg/L)	pH	Temp (C)	CMC (mg/L)	SSO Adjusted CCC (mg/L) No ELS	SSO Adjusted CCC (mg/L) with ELS	4-Day Average CCC	Is 4-Day Average Usable? (1=Yes)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed 4-Day CCC (1=Yes)
6/7/2006	LACSD	C1		1.30	1.30	0.10	8.02	20.5	8.10		2.41	2.41	1		
6/14/2006	LACSD	C2		0.17	0.17	0.10	8.18	16.6	5.95		1.99	1.99	1		
6/20/2006	LACSD	RD		0.14	0.14	0.10	9.60	30.3	0.64		0.13	0.13	1		1
6/20/2006	LACSD	RC		0.15	0.15	0.10	9.39	24.4	0.79		0.24	0.24	1		
6/21/2006	LACSD	C2		0.18	0.18	0.10	8.05	19.0	7.65		2.44	2.44	1		
6/28/2006	LACSD	C2		0.52	0.52	0.10	7.57	23.7	17.86		3.39	3.39	1		
7/5/2006	LACSD	C2		0.76	0.76	0.10	7.62	24.9	16.49		3.00	3.00	1		
7/12/2006	LACSD	C2		0.74	0.74	0.10	7.74	23.6	13.48		2.86	2.86	1		
7/12/2006	LACSD	C1		0.24	0.24	0.10	8.28	32.1	4.90		0.76	0.76	1		
7/18/2006	LACSD	RD	<	0.10	0.10	0.10	9.08	33.7	1.17		0.19	0.19	1		
7/18/2006	LACSD	RC	<	0.10	0.10	0.10	9.11	28.3	1.12		0.26	0.26	1		
7/19/2006	LACSD	C2		1.10	1.10	0.10	7.19	27.7	29.87		3.47	3.47	1		
7/26/2006	LACSD	C2		0.73	0.73	0.10	7.60	26.1	17.03		2.84	2.84	1		
8/2/2006	LACSD	C2		0.74	0.74	0.10	7.76	25.3	13.02		2.50	2.50	1		
8/9/2006	LACSD	C2		0.16	0.16	0.10	7.82	24.5	11.71		2.45	2.45	1		
8/16/2006	LACSD	C2		0.62	0.62	0.10	7.89	23.5	10.32		2.38	2.38	1		
8/16/2006	LACSD	C1		0.12	0.12	0.10	8.65	21.8	2.42		0.79	0.79	1		
8/23/2006	LACSD	C2		0.33	0.33	0.10	7.75	23.9	13.25		2.77	2.77	1		
8/23/2006	LACSD	RD	<	0.10	0.10	0.10	9.61	29.6	0.64		0.14	0.14	1		
8/23/2006	LACSD	RC	<	0.10	0.10	0.10	9.03	23.9	1.26		0.38	0.38	1		
8/30/2006	LACSD	C2		0.42	0.42	0.10	7.87	23.5	10.70		2.45	2.45	1		
9/6/2006	LACSD	C2		0.76	0.76	0.10	7.41	27.8	22.66		2.99	2.99	1		
9/13/2006	LACSD	C2		0.41	0.41	0.10	7.89	25.8	10.32		2.05	2.05	1		
9/13/2006	LACSD	C1		0.93	0.93	0.10	8.27	20.7	5.00		1.62	1.62	1		
9/20/2006	LACSD	C2		0.50	0.50	0.10	8.25	9.7	5.20		1.78	1.78	1		
9/27/2006	LACSD	RD		0.10	0.10	0.10	8.72	25.8	2.13		0.55	0.55	1		
9/27/2006	LACSD	RC	<	0.10	0.10	0.10	8.74	20.9	2.05		0.73	0.73	1		
10/4/2006	LACSD	RD	<	0.10	0.10	0.10	8.87	24.0	1.64	0.48		0.48	1		
10/4/2006	LACSD	RC	<	0.10	0.10	0.10	8.88	21.0	1.61	0.58		0.58	1		
10/11/2006	LACSD	C2		0.74	0.74	0.10	7.68	20.7	14.94	3.68		3.68	1		
10/11/2006	LACSD	C1		0.17	0.17	0.10	8.45	16.7	3.53	1.54		1.54	1		
10/18/2006	LACSD	C2		0.58	0.58	0.10	7.68	22.1	14.94	3.36		3.36	1		
11/1/2006	LACSD	C2		0.40	0.40	0.10	7.55	19.0	18.43	4.69		4.69	1		
11/1/2006	LACSD	RD		0.14	0.14	0.10	9.46	18.7	0.73	0.32		0.32	1		

APPENDIX O - TABLE O1
SAN JOSE CREEK REACH 1 - AMMONIA

Sample Date	Source	Location	Qualifier	Ammonia (mg/L)	4-Day Ammonia Average (mg/L)	RL (mg/L)	pH	Temp (C)	CMC (mg/L)	SSO Adjusted CCC (mg/L) No ELS	SSO Adjusted CCC (mg/L) with ELS	4-Day Average CCC	Is 4-Day Average Usable? (1=Yes)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed 4-Day CCC (1=Yes)
11/1/2006	LACSD	RC		0.12	0.12	0.10	9.25	18.2	0.93	0.41		0.41	1		
11/8/2006	LACSD	C2		0.88	0.88	0.10	7.48	22.8	20.49	3.91		3.91	1		
11/8/2006	LACSD	C1		0.37	0.37	0.10	8.08	15.8	7.22	2.99		2.99	1		
11/15/2006	LACSD	C2		0.32	0.32	0.10	7.62	18.5	16.49	4.52		4.52	1		
11/22/2006	LACSD	C2		0.23	0.23	0.10	7.43	19.7	22.03	4.96		4.96	1		
11/29/2006	LACSD	C2		1.02	1.02	0.10	7.50	20.9	19.89	4.34		4.34	1		
12/6/2006	LACSD	C2		0.29	0.29	0.10	7.71	12.5	14.20	6.05		6.05	1		
12/6/2006	LACSD	RD	<	0.10	0.10	0.10	9.12	15.4	1.11	0.58		0.58	1		
12/6/2006	LACSD	RC	<	0.10	0.10	0.10	8.41	13.8	3.81	2.00		2.00	1		
12/13/2006	LACSD	C2		0.82	0.82	0.10	7.40	21.5	22.97	4.53		4.53	1		
12/13/2006	LACSD	C1		0.20	0.20	0.10	8.03	11.7	7.94	4.19		4.19	1		
12/20/2006	LACSD	C2		1.12	1.12	0.10	7.35	19.3	24.58	5.40		5.40	1		
1/3/2007	LACSD	C2		0.44	0.44	0.10	7.89	13.6	10.32	4.51		4.51	1		
1/3/2007	LACSD	RD	<	0.10	0.10	0.10	9.26	13.8	0.92	0.54		0.54	1		
1/3/2007	LACSD	RC	<	0.10	0.10	0.10	8.85	13.4	1.69	0.99		0.99	1		
1/3/2007	LACSD	RA		0.39	0.39	0.10	8.79	18.6	1.88	0.78		0.78	1		
1/10/2007	LACSD	C1	<	0.10	0.10	0.10	8.86	11.6	1.66	1.09		1.09	1		
1/24/2007	LACSD	C2		1.25	*	0.10	7.23	19.5	28.54	5.77		*	*		*
1/25/2007	LACSD	C2		1.09	1.17	0.10	7.34	19.8	24.90	5.29		5.53	1		
2/7/2007	LACSD	C2		0.86	0.86	0.10	7.34	18.3	24.90	5.82		5.82	1		
2/7/2007	LACSD	RD	<	0.10	0.10	0.10	9.61	18.9	0.64	0.28		0.28	1		
2/7/2007	LACSD	RC	<	0.10	0.10	0.10	9.44	17.4	0.75	0.36		0.36	1		
2/14/2007	LACSD	C1		0.12	0.12	0.10	8.05	11.7	7.65	4.08		4.08	1		
2/21/2007	LACSD	C2		1.59	1.59	0.10	7.21	21.4	29.21	5.16		5.16	1		

LACSD - Sanitation Districts of Los Angeles County
* - Data used in calculation of a 4 day average
** - Not usable - Non-detect with RL greater than the CCC
SSO - Site Specific Objective
ELS - Early Life Stages

14 of 282 4-day averages exceed Site Specific Objective (SSO) Criterion Continuous Concentration (CCC)

0 of 296 samples exceed Criterion Maximum Concentration (CMC)

APPENDIX P - TABLE P1
SANTA CLARA RIVER REACH 5 - AMMONIA

Sample Date	Source	Location	pH	Temperture (C)	Qualifier	Ammonia (mg/L)	4-Day Average Ammonia	CMC (mg/L)	CCC No SSO (mg/L)	4-Day CCC (mg/L)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed 4-Day CCC (1=Yes)
2/11/2004	LACSD	RC	7.96	23.7	<	0.10	0.10	9.06	1.43	1.43		
4/14/2004	LACSD	RC	8.00	23.6	<	0.10	*	8.41	1.35	*		*
4/14/2004	LACSD	RC	8.00	23.6	<	0.10	0.10	8.41	1.35	1.35		
5/12/2004	LACSD	RC	7.99	30.7	<	0.10	0.10	8.57	0.87	0.87		
8/11/2004	LACSD	RC	7.80	24.0	<	0.10	0.10	12.14	1.73	1.73		
9/15/2004	LACSD	RC	7.89	21.2	<	0.10	0.10	10.32	1.84	1.84		
10/13/2004	LACSD	RC	7.80	18.4	<	0.10	0.10	12.14	2.48	2.48		
11/10/2004	LACSD	RC	8.00	20.1	<	0.10	0.10	8.41	1.70	1.70		
12/16/2004	LACSD	RC	7.69	16.9	<	0.10	0.10	14.69	3.11	3.11		
2/2/2005	LACSD	RC	7.89	17.2	<	0.10	0.10	10.32	2.38	2.38		
2/9/2005	LACSD	RC	8.06	18.8	<	0.10	0.10	7.50	1.69	1.69		
4/13/2005	LACSD	RC	8.13	21.9	<	0.10	0.10	6.56	1.25	1.25		
5/18/2005	LACSD	RC	8.02	27.4	<	0.10	0.10	8.10	1.03	1.03		
6/15/2005	LACSD	RC	7.87	28.7	<	0.10	0.10	10.70	1.17	1.17		
7/20/2005	LACSD	RC	8.02	28.1	<	0.10	0.10	8.10	0.98	0.98		
8/17/2005	LACSD	RC	7.94	26.3	<	0.10	0.10	9.41	1.24	1.24		
9/14/2005	LACSD	RC	8.00	23.5	<	0.10	0.10	8.41	1.36	1.36		
10/26/2005	LACSD	RC	7.66	21.1	<	0.10	0.10	15.44	2.44	2.44		
11/30/2005	LACSD	RC	7.95	18.2	<	0.10	0.10	9.23	2.07	2.07		
12/21/2005	LACSD	RC	7.99	18.2	<	0.10	*	8.57	1.94	*		*
12/21/2005	LACSD	RC	7.99	18.2	<	0.10	0.10	8.57	1.94	1.94		
1/18/2006	LACSD	RC	7.66	17.5	<	0.10	0.10	15.44	3.08	3.08		
2/15/2006	LACSD	RC	7.86	18.5	<	0.10	0.10	10.90	2.28	2.28		
3/15/2006	LACSD	RC	7.99	19.8	<	0.10	0.10	8.57	1.76	1.76		
4/19/2006	LACSD	RC	7.83	24.1	<	0.10	0.10	11.51	1.65	1.65		
5/17/2006	LACSD	RC	7.74	27.7	<	0.10	0.10	13.48	1.46	1.46		
6/21/2006	LACSD	RC	8.16	27.4		0.15	0.15	6.19	0.83	0.83		
7/19/2006	LACSD	RC	7.92	28.7	<	0.10	0.10	9.76	1.09	1.09		
8/23/2006	LACSD	RC	7.95	25.2	<	0.10	0.10	9.23	1.31	1.31		
9/13/2006	LACSD	RC	8.04	23.2	<	0.10	0.10	7.79	1.31	1.31		
10/18/2006	LACSD	RC	7.78	19.1		0.14	*	12.58	2.43	*		*
10/18/2006	LACSD	RC	7.78	19.1		0.21	0.18	12.58	2.43	2.43		
11/29/2006	LACSD	RC	7.67	15.7	<	0.10	0.10	15.19	3.43	3.43		

APPENDIX P - TABLE P1
SANTA CLARA RIVER REACH 5 - AMMONIA

Sample Date	Source	Location	pH	Temperture (C)	Qualifier	Ammonia (mg/L)	4-Day Average Ammonia	CMC (mg/L)	CCC No SSO (mg/L)	4-Day CCC (mg/L)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed 4-Day CCC (1=Yes)
12/20/2006	LACSD	RC	7.59	15.4	<	0.10	0.10	17.31	3.78	3.78		
2/14/2007	LACSD	RC	7.77	19.3	<	0.10	0.10	12.80	2.42	2.42		
2/28/2007	LACSD	RC	7.98	18.9		0.20	0.20	8.73	1.88	1.88		
2/11/2004	LACSD	RD	7.70	23.8	<	0.10	0.10	14.44	1.97	1.97		
4/14/2004	LACSD	RD	7.73	28.1		0.80	*	13.72	1.45	*		*
4/14/2004	LACSD	RD	7.73	28.1		0.80	0.80	13.72	1.45	1.45		
5/12/2004	LACSD	RD	7.77	29.9		0.80	0.80	12.80	1.23	1.23		
8/11/2004	LACSD	RD	7.64	27.8		0.70	0.70	15.96	1.62	1.62		
9/15/2004	LACSD	RD	7.67	28.0		0.70	0.70	15.19	1.55	1.55		
10/13/2004	LACSD	RD	7.55	26.1		0.60	0.60	18.43	1.98	1.98		
11/10/2004	LACSD	RD	7.74	24.0		0.60	0.60	13.48	1.86	1.86		
12/16/2004	LACSD	RD	7.52	20.8		0.40	0.40	19.30	2.86	2.86		
2/2/2005	LACSD	RD	7.47	22.2		0.60	0.60	20.79	2.72	2.72		
2/9/2005	LACSD	RD	7.89	19.0		0.10	0.10	10.32	2.12	2.12		
3/2/2005	LACSD	RD	7.96	16.3	<	0.10	0.10	9.06	2.30	2.30		
4/13/2005	LACSD	RD	8.03	21.1	<	0.10	0.10	7.94	1.52	1.52		
5/18/2005	LACSD	RD	7.84	25.3		0.30	0.30	11.30	1.51	1.51		
6/15/2005	LACSD	RD	7.64	26.3		0.10	0.10	15.96	1.79	1.79		
7/20/2005	LACSD	RD	7.78	27.4		0.50	0.50	12.58	1.42	1.42		
8/17/2005	LACSD	RD	7.80	26.8		0.50	0.50	12.14	1.44	1.44		
9/14/2005	LACSD	RD	7.70	25.8		0.40	0.40	14.44	1.73	1.73		
10/26/2005	LACSD	RD	7.57	23.0		0.50	0.50	17.86	2.37	2.37		
11/30/2005	LACSD	RD	7.71	21.7		0.40	0.40	14.20	2.22	2.22		
12/21/2005	LACSD	RD	7.75	21.2		0.40	0.40	13.25	2.20	2.20		
1/18/2006	LACSD	RD	7.18	19.9		0.40	*	30.21	3.85	*		*
1/18/2006	LACSD	RD	7.18	19.9		0.40	0.40	30.21	3.85	3.85		
2/15/2006	LACSD	RD	7.56	21.3		0.30	0.30	18.15	2.67	2.67		
3/15/2006	LACSD	RD	7.80	19.8		0.20	0.20	12.14	2.26	2.26		
4/19/2006	LACSD	RD	7.40	23.5	<	0.10	0.10	22.97	2.65	2.65		
5/17/2006	LACSD	RD	7.64	25.9		0.32	0.32	15.96	1.83	1.83		
6/21/2006	LACSD	RD	7.95	26.4		0.46	0.46	9.23	1.22	1.22		
7/19/2006	LACSD	RD	7.75	27.7		0.32	0.32	13.25	1.44	1.44		
8/23/2006	LACSD	RD	7.80	26.2		0.35	0.35	12.14	1.50	1.50		

APPENDIX P - TABLE P1
SANTA CLARA RIVER REACH 5 - AMMONIA

Sample Date	Source	Location	pH	Temperture (C)	Qualifier	Ammonia (mg/L)	4-Day Average Ammonia	CMC (mg/L)	CCC No SSO (mg/L)	4-Day CCC (mg/L)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed 4-Day CCC (1=Yes)
9/13/2006	LACSD	RD	7.85	26.1		0.34	0.34	11.10	1.42	1.42		
10/18/2006	LACSD	RD	7.61	23.3	<	0.10	0.10	16.76	2.24	2.24		
11/29/2006	LACSD	RD	7.50	21.1		0.37	0.37	19.89	2.85	2.85		
12/20/2006	LACSD	RD	7.42	20.0	<	0.10	0.10	22.34	3.27	3.27		
2/14/2007	LACSD	RD	7.84	20.9		0.29	0.29	11.30	2.00	2.00		
2/28/2007	LACSD	RD	7.85	19.9	<	0.10	0.10	11.10	2.11	2.11		
2/11/2004	LACSD	RE	7.88	15.3	<	0.10	0.10	10.51	2.74	2.74		
4/14/2004	LACSD	RE	8.04	24.9	<	0.10	*	7.79	1.18	*		*
4/14/2004	LACSD	RE	8.04	24.9	<	0.10	0.10	7.79	1.18	1.18		
5/12/2004	LACSD	RE	8.28	27.8	<	0.10	0.10	4.90	0.67	0.67		
8/11/2004	LACSD	RE	8.25	25.9	<	0.10	0.10	5.20	0.79	0.79		
9/15/2004	LACSD	RE	8.02	25.2	<	0.10	0.10	8.10	1.19	1.19		
10/13/2004	LACSD	RE	7.58	22.0	<	0.10	0.10	17.58	2.50	2.50		
11/10/2004	LACSD	RE	8.09	20.9		0.20	0.20	7.08	1.41	1.41		
12/16/2004	LACSD	RE	7.69	17.0	<	0.10	0.10	14.69	3.08	3.08		
2/2/2005	LACSD	RE	7.75	16.7		0.20	0.20	13.25	2.93	2.93		
2/9/2005	LACSD	RE	8.06	18.5		0.10	0.10	7.50	1.72	1.72		
3/2/2005	LACSD	RE	7.49	13.5	<	0.10	0.10	20.19	4.70	4.70		
4/13/2005	LACSD	RE	8.40	16.0	<	0.10	0.10	3.88	1.17	1.17		
5/18/2005	LACSD	RE	8.26	21.8	<	0.10	0.10	5.10	1.02	1.02		
6/15/2005	LACSD	RE	8.20	23.5	<	0.10	0.10	5.73	1.00	1.00		
7/20/2005	LACSD	RE	8.44	27.2	<	0.10	0.10	3.59	0.53	0.53		
8/17/2005	LACSD	RE	8.04	26.1	<	0.10	0.10	7.79	1.09	1.09		
9/14/2005	LACSD	RE	7.99	23.2	<	0.10	0.10	8.57	1.41	1.41		
10/26/2005	LACSD	RE	7.81	20.3		0.20	0.20	11.92	2.17	2.17		
11/30/2005	LACSD	RE	8.08	18.8		0.10	0.10	7.22	1.64	1.64		
12/21/2005	LACSD	RE	8.06	18.2	<	0.10	0.10	7.50	1.76	1.76		
1/18/2006	LACSD	RE	7.50	10.8	<	0.10	0.10	19.89	5.53	5.53		
2/15/2006	LACSD	RE	7.70	13.7		0.10	*	14.44	3.78	*		*
2/15/2006	LACSD	RE	7.70	13.7	<	0.10	0.10	14.44	3.78	3.78		
3/15/2006	LACSD	RE	7.65	14.0	<	0.10	0.10	15.70	3.91	3.91		
4/19/2006	LACSD	RE	7.23	18.8	<	0.10	0.10	28.54	4.03	4.03		
5/17/2006	LACSD	RE	8.29	22.5	<	0.10	0.10	4.81	0.93	0.93		

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APPENDIX P - TABLE P1
SANTA CLARA RIVER REACH 5 - AMMONIA

Sample Date	Source	Location	pH	Temperture (C)	Qualifier	Ammonia (mg/L)	4-Day Average Ammonia	CMC (mg/L)	CCC No SSO (mg/L)	4-Day CCC (mg/L)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed 4-Day CCC (1=Yes)
6/21/2006	LACSD	RE	8.21	25.3		0.24	0.24	5.62	0.88	0.88		
7/19/2006	LACSD	RE	8.03	26.9	<	0.10	0.10	7.94	1.05	1.05		
8/23/2006	LACSD	RE	8.10	25.0	<	0.10	0.10	6.95	1.07	1.07		
9/13/2006	LACSD	RE	8.47	24.7	<	0.10	*	3.39	0.59	*		*
9/13/2006	LACSD	RE	8.47	24.7	<	0.10	0.10	3.39	0.59	0.59		
10/18/2006	LACSD	RE	7.73	21.6		0.20	0.20	13.72	2.19	2.19		
11/15/2006	LACSD	RE	7.29	21.7		0.14	0.14	26.54	3.22	3.22		
12/20/2006	LACSD	RE	7.32	18.0		0.14	0.14	25.56	4.00	4.00		
2/14/2007	LACSD	RE	7.86	20.1		0.13	0.13	10.90	2.06	2.06		
2/28/2007	LACSD	RE	8.03	20.0		0.13	0.13	7.94	1.64	1.64		
5/17/2004	Newhall	NR1	7.80	17.2		0.02	*	12.14	2.67	*		*
5/18/2004	Newhall	NR1	8.10	12.8	<	0.01	*	6.95	2.35	*		*
5/19/2004	Newhall	NR1	7.90	13.9		0.38	*	10.13	2.91	*		*
5/20/2004	Newhall	NR1	8.20	22.2		0.2	*	5.73	1.09	*		*
5/21/2004	Newhall	NR1	7.90	17.2		0.27	0.18	10.13	2.35	2.27		
6/17/2004	Newhall	NR1	7.50	26.7		0.31	0.31	19.89	1.99	1.99		
7/15/2004	Newhall	NR1	8.10	12.8		0.24	0.24	6.95	2.35	2.35		
8/9/2004	Newhall	NR1	7.70	13.9		0.35	*	14.44	3.73	*		*
8/10/2004	Newhall	NR1	7.70	11.1		0.16	*	14.44	4.46	*		*
8/11/2004	Newhall	NR1	7.80	18.9		0.08	*	12.14	2.40	*		*
8/12/2004	Newhall	NR1	7.80	12.8		0.08	*	12.14	3.56	*		*
8/13/2004	Newhall	NR1	7.80	22.8		0.2	0.17	12.14	1.87	3.20		
9/20/2004	Newhall	NR1	7.80	-7.8		0.32	0.32	12.14	5.17	5.17		
10/14/2004	Newhall	NR1	8.00	22.2		0.25	0.25	8.41	1.48	1.48		
11/8/2004	Newhall	NR1	7.50	11.7		0.08	*	19.89	5.24	*		*
11/9/2004	Newhall	NR1	7.60	15.6		0.04	*	17.03	3.72	*		*
11/10/2004	Newhall	NR1	7.70	15.0	<	0.01	*	14.44	3.47	*		*
11/11/2004	Newhall	NR1	7.70	10.0		0.18	*	14.44	4.79	*		*
11/12/2004	Newhall	NR1	0.10	13.9		0.05	0.07	58.40	7.38	4.92		
12/8/2004	Newhall	NR1	7.90	12.8		0.27	0.27	10.13	3.13	3.13		
1/24/2005	Newhall	NR1	7.80	11.7		0.17	0.17	12.14	3.82	3.82		
2/14/2005	Newhall	NR1	7.80	13.9		0.13	*	12.14	3.31	*		*
2/15/2005	Newhall	NR1	7.40	15.6		0.08	*	22.97	4.43	*		*

APPENDIX P - TABLE P1
SANTA CLARA RIVER REACH 5 - AMMONIA

Sample Date	Source	Location	pH	Temperture (C)	Qualifier	Ammonia (mg/L)	4-Day Average Ammonia	CMC (mg/L)	CCC No SSO (mg/L)	4-Day CCC (mg/L)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed 4-Day CCC (1=Yes)
2/16/2005	Newhall	NR1	7.60	10.6		0.06	*	17.03	5.13	*		*
2/17/2005	Newhall	NR1	7.80	12.8		0.34	*	12.14	3.56	*		*
3/9/2005	Newhall	NR1	7.70	8.9		0.07	0.14	14.44	5.14	4.32		
4/13/2005	Newhall	NR1	7.70	14.4		0.09	0.09	14.44	3.60	3.60		
5/9/2005	Newhall	NR1	7.90	20.6	<	0.01	*	10.13	1.90	*		*
5/10/2005	Newhall	NR1	7.80	21.1	<	0.01	*	12.14	2.08	*		*
5/11/2005	Newhall	NR1	7.80	23.3	<	0.01	*	12.14	1.80	*		*
5/12/2005	Newhall	NR1	7.80	14.4	<	0.01	*	12.14	3.20	*		*
5/13/2005	Newhall	NR1	7.80	27.8	<	0.01	0.01	12.14	1.35	2.07		
6/15/2005	Newhall	NR1	8.00	18.9		0.1	0.10	8.41	1.84	1.84		
7/20/2005	Newhall	NR1	7.90	26.7	<	0.01	0.01	10.13	1.28	1.28		
8/8/2005	Newhall	NR1	7.80	27.8		0.04	*	12.14	1.35	*		*
8/9/2005	Newhall	NR1	8.20	12.8	<	0.01	*	5.73	2.01	*		*
8/10/2005	Newhall	NR1	8.00	24.4		0.18	*	8.41	1.28	*		*
8/11/2005	Newhall	NR1	7.70	24.4	<	0.01	*	14.44	1.89	*		*
8/12/2005	Newhall	NR1	8.00	25.6		0.16	0.08	8.41	1.19	1.54		
9/14/2005	Newhall	NR1	8.20	15.6	<	0.01	0.01	5.73	1.68	1.68		
10/12/2005	Newhall	NR1	7.70	20.6		0.2	0.20	14.44	2.42	2.42		
11/7/2005	Newhall	NR1	8.00	20.6		0.08	*	8.41	1.65	*		*
11/8/2005	Newhall	NR1	7.40	17.2	<	0.01	*	22.97	3.98	*		*
11/9/2005	Newhall	NR1	7.60	19.4		0.16	*	17.03	2.89	*		*
11/10/2005	Newhall	NR1	7.80	15.6		0.05	*	12.14	2.98	*		*
11/11/2005	Newhall	NR1	7.70	21.1	<	0.01	0.06	14.44	2.34	2.77		
12/14/2005	Newhall	NR1	8.20	20.6		0.05	0.05	5.73	1.22	1.22		
1/11/2006	Newhall	NR1	7.90	20.6		0.19	0.19	10.13	1.90	1.90		
2/13/2006	Newhall	NR1	8.10	15.0	<	0.01	*	6.95	2.03	*		*
2/14/2006	Newhall	NR1	7.60	16.1		0.16	*	17.03	3.59	*		*
2/15/2006	Newhall	NR1	7.70	14.4	<	0.01	*	14.44	3.60	*		*
2/16/2006	Newhall	NR1	7.60	13.9		0.14	*	17.03	4.14	*		*
2/17/2006	Newhall	NR1	7.60	8.3	<	0.01	0.07	17.03	5.92	3.86		
3/15/2006	Newhall	NR1	7.20	18.3		0.08	0.08	29.54	4.21	4.21		
5/17/2004	Newhall	NR3	8.00	15.0		0.02	*	8.41	2.36	*		*
5/18/2004	Newhall	NR3	8.20	14.4	<	0.01	*	5.73	1.80	*		*

APPENDIX P - TABLE P1
SANTA CLARA RIVER REACH 5 - AMMONIA

Sample Date	Source	Location	pH	Temperture (C)	Qualifier	Ammonia (mg/L)	4-Day Average Ammonia	CMC (mg/L)	CCC No SSO (mg/L)	4-Day CCC (mg/L)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed 4-Day CCC (1=Yes)
5/19/2004	Newhall	NR3	7.90	12.8		0.28	*	10.13	3.13	*		*
5/20/2004	Newhall	NR3	8.10	18.9		0.22	*	6.95	1.58	*		*
5/21/2004	Newhall	NR3	7.90	15.0		0.18	0.14	10.13	2.71	2.32		
6/17/2004	Newhall	NR3	7.80	23.9		0.31	0.31	12.14	1.74	1.74		
7/15/2004	Newhall	NR3	8.00	12.8		0.13	0.13	8.41	2.72	2.72		
8/9/2004	Newhall	NR3	7.80	17.2		0.27	*	12.14	2.67	*		*
8/10/2004	Newhall	NR3	7.80	12.8		0.38	*	12.14	3.56	*		*
8/11/2004	Newhall	NR3	8.00	17.8		0.27	*	8.41	1.97	*		*
8/12/2004	Newhall	NR3	7.90	10.0		0.16	*	10.13	3.74	*		*
8/13/2004	Newhall	NR3	7.70	20.6		0.18	0.25	14.44	2.42	2.87		
9/20/2004	Newhall	NR3	7.80	-7.8		0.38	0.38	12.14	5.17	5.17		
10/14/2004	Newhall	NR3	7.90	17.8		0.11	0.11	10.13	2.27	2.27		
11/8/2004	Newhall	NR3	7.70	6.7		0.21	*	14.44	5.81	*		*
11/9/2004	Newhall	NR3	7.80	15.0		0.23	*	12.14	3.09	*		*
11/10/2004	Newhall	NR3	7.80	13.9	<	0.01	*	12.14	3.31	*		*
11/11/2004	Newhall	NR3	7.90	10.6		0.06	*	10.13	3.61	*		*
11/12/2004	Newhall	NR3	8.40	15.0		0.3	0.16	3.88	1.25	3.41		
12/8/2004	Newhall	NR3	8.00	13.9		0.13	0.13	8.41	2.53	2.53		
1/24/2005	Newhall	NR3	7.80	8.9		0.19	0.19	12.14	4.57	4.57		
2/14/2005	Newhall	NR3	7.80	13.9		0.11	*	12.14	3.31	*		*
2/15/2005	Newhall	NR3	7.70	15.6		0.09	*	14.44	3.35	*		*
2/16/2005	Newhall	NR3	7.80	11.7		0.07	*	12.14	3.82	*		*
2/17/2005	Newhall	NR3	7.70	11.7		0.03	*	14.44	4.30	*		*
2/18/2005	Newhall	NR3	7.90	15.6		0.51	0.16	10.13	2.62	3.48		
3/9/2005	Newhall	NR3	7.60	15.0		0.18	0.18	17.03	3.85	3.85		
4/13/2005	Newhall	NR3	7.90	15.6		0.11	0.11	10.13	2.62	2.62		
5/9/2005	Newhall	NR3	7.90	17.8	<	0.01	*	10.13	2.27	*		*
5/10/2005	Newhall	NR3	7.70	18.9	<	0.01	*	14.44	2.70	*		*
5/11/2005	Newhall	NR3	7.90	18.9	<	0.01	*	10.13	2.11	*		*
5/12/2005	Newhall	NR3	7.80	13.9	<	0.01	*	12.14	3.31	*		*
5/13/2005	Newhall	NR3	8.00	23.3	<	0.01	0.01	8.41	1.38	2.35		
6/15/2005	Newhall	NR3	8.00	19.4		0.08	0.08	8.41	1.77	1.77		
7/20/2005	Newhall	NR3	8.00	20.0	<	0.01	0.01	8.41	1.71	1.71		

APPENDIX P - TABLE P1
SANTA CLARA RIVER REACH 5 - AMMONIA

Sample Date	Source	Location	pH	Temperture (C)	Qualifier	Ammonia (mg/L)	4-Day Average Ammonia	CMC (mg/L)	CCC No SSO (mg/L)	4-Day CCC (mg/L)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed 4-Day CCC (1=Yes)
8/8/2005	Newhall	NR3	7.70	26.7		0.08	*	14.44	1.64	*		*
8/9/2005	Newhall	NR3	8.20	12.8		0.11	*	5.73	2.01	*		*
8/10/2005	Newhall	NR3	8.00	24.4		0.14	*	8.41	1.28	*		*
8/11/2005	Newhall	NR3	7.80	23.9		0.03	*	12.14	1.74	*		*
8/12/2005	Newhall	NR3	8.00	25.6		0.17	0.11	8.41	1.19	1.57		
9/14/2005	Newhall	NR3	8.20	15.6	<	0.01	0.01	5.73	1.68	1.68		
10/12/2005	Newhall	NR3	8.00	22.2		0.14	0.14	8.41	1.48	1.48		
11/7/2005	Newhall	NR3	8.00	18.9		0.15	*	8.41	1.84	*		*
11/8/2005	Newhall	NR3	7.80	17.8	<	0.01	*	12.14	2.58	*		*
11/9/2005	Newhall	NR3	7.90	14.4		0.02	*	10.13	2.81	*		*
11/10/2005	Newhall	NR3	7.80	18.3		0.02	*	12.14	2.49	*		*
11/11/2005	Newhall	NR3	7.90	20.0		0.19	0.08	10.13	1.96	2.34		
12/14/2005	Newhall	NR3	8.00	21.1		0.04	0.04	8.41	1.59	1.59		
1/11/2006	Newhall	NR3	8.00	20.0		0.25	0.25	8.41	1.71	1.71		
2/13/2006	Newhall	NR3	8.30	9.4	<	0.01	*	4.71	2.11	*		*
2/14/2006	Newhall	NR3	7.70	15.0		0.21	*	14.44	3.47	*		*
2/15/2006	Newhall	NR3	7.90	12.2		0.03	*	10.13	3.24	*		*
2/16/2006	Newhall	NR3	7.60	15.0		0.17	*	17.03	3.85	*		*
2/17/2006	Newhall	NR3	7.70	9.4		0.12	0.11	14.44	4.96	3.53		
3/15/2006	Newhall	NR3	7.60	20.0		0.07	0.07	17.03	2.79	2.79		

LACSD - Sanitation Districts of Los Angeles County
Newhall - Newhall Ranch Co.
* - Data used in calculation of a 4 day average

0 of 146 4-day averages exceed Criterion Continuous Concentration (CCC)

0 of 218 samples exceed Criterion Maximum Concentration (CMC)

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APPENDIX Q - TABLE Q1
SANTA CLARA RIVER REACH 5 - NITRATE + NITRITE

Sample Date	Source	Location	Qualifier	Nitrite (mg/L)	Nitrate (mg/L)	Nitrite + Nitrate (mg/L)	Nitrite + Nitrate BPO (mg/L)	Does Sample Exceed BPO (1=Yes)
5/17/2004	Newhall	NR1	<	0.1	3.52	3.62	5.0	
5/17/2004	Newhall	NR3	<	0.1	2.94	3.04	5.0	
5/18/2004	Newhall	NR1	<	0.1	3.06	3.16	5.0	
5/18/2004	Newhall	NR3	<	0.1	2.98	3.08	5.0	
5/19/2004	Newhall	NR1	<	0.1	3.45	3.55	5.0	
5/19/2004	Newhall	NR3	<	0.1	3.69	3.79	5.0	
5/20/2004	Newhall	NR1	<	0.1	3.52	3.62	5.0	
5/20/2004	Newhall	NR3	<	0.1	2.85	2.95	5.0	
5/21/2004	Newhall	NR1	<	0.1	4.01	4.11	5.0	
5/21/2004	Newhall	NR3	<	0.1	4.01	4.11	5.0	
6/9/2004	LACSD	RC		0.028	2.41	2.438	5.0	
6/9/2004	LACSD	RD		0.17	4.86	5.03	5.0	1
6/9/2004	LACSD	RE		0.192	6.09	6.282	5.0	1
6/17/2004	Newhall	NR1	<	0.1	4.56	4.66	5.0	
6/17/2004	Newhall	NR3	<	0.1	4.05	4.15	5.0	
7/15/2004	Newhall	NR1	<	0.1	4.9	5	5.0	
7/15/2004	Newhall	NR3	<	0.1	4.64	4.74	5.0	
7/28/2004	LACSD	RC		0.028	2.06	2.088	5.0	
7/28/2004	LACSD	RD		0.09	5.7	5.79	5.0	1
7/28/2004	LACSD	RE		0.053	4.54	4.593	5.0	
8/9/2004	Newhall	NR1	<	0.1	4.28	4.38	5.0	
8/9/2004	Newhall	NR3	<	0.1	3.75	3.85	5.0	
8/10/2004	Newhall	NR1	<	0.1	4.4	4.5	5.0	
8/10/2004	Newhall	NR3	<	0.1	4.03	4.13	5.0	
8/11/2004	LACSD	RC		0.024	1.93	1.954	5.0	
8/11/2004	LACSD	RD		0.101	4.75	4.851	5.0	
8/11/2004	LACSD	RE		0.06	3.94	4	5.0	
8/11/2004	Newhall	NR1	<	0.1	4.41	4.51	5.0	
8/11/2004	Newhall	NR3	<	0.1	4.24	4.34	5.0	
8/12/2004	Newhall	NR1	<	0.1	4.72	4.82	5.0	
8/12/2004	Newhall	NR3	<	0.1	5.12	5.22	5.0	1
8/13/2004	Newhall	NR1	<	0.1	3.25	3.35	5.0	
8/13/2004	Newhall	NR3	<	0.1	3.63	3.73	5.0	
9/15/2004	LACSD	RC	<	0.02	2.12	2.14	5.0	
9/15/2004	LACSD	RD		0.114	5.31	5.424	5.0	1
9/15/2004	LACSD	RE		0.021	4.36	4.381	5.0	
9/20/2004	Newhall	NR1	<	0.1	2.59	2.69	5.0	
9/20/2004	Newhall	NR3	<	0.1	2.55	2.65	5.0	
10/13/2004	LACSD	RC	<	0.02	2.49	2.51	5.0	
10/13/2004	LACSD	RD		0.12	4.73	4.85	5.0	
10/13/2004	LACSD	RE		0.022	3.74	3.762	5.0	
10/14/2004	Newhall	NR1	<	0.1	3.21	3.31	5.0	
10/14/2004	Newhall	NR3	<	0.1	3	3.1	5.0	
11/8/2004	Newhall	NR1	<	0.1	3.32	3.42	5.0	
11/8/2004	Newhall	NR3		0.167	2.83	2.997	5.0	
11/9/2004	Newhall	NR1		0.102	3.03	3.132	5.0	
11/9/2004	Newhall	NR3	<	0.1	3.31	3.41	5.0	
11/10/2004	LACSD	RC		0.031	2.37	2.401	5.0	
11/10/2004	LACSD	RD		0.041	6.66	6.701	5.0	1
11/10/2004	LACSD	RE		0.065	4.99	5.055	5.0	1
11/10/2004	Newhall	NR1		0.209	3.88	4.089	5.0	
11/10/2004	Newhall	NR3		0.164	4.22	4.384	5.0	

APPENDIX Q - TABLE Q1
SANTA CLARA RIVER REACH 5 - NITRATE + NITRITE

Sample Date	Source	Location	Qualifier	Nitrite (mg/L)	Nitrate (mg/L)	Nitrite + Nitrate (mg/L)	Nitrite + Nitrate BPO (mg/L)	Does Sample Exceed BPO (1=Yes)
11/11/2004	Newhall	NR1		0.14	3.79	3.93	5.0	
11/11/2004	Newhall	NR3		0.135	3.98	4.115	5.0	
11/12/2004	Newhall	NR1		0.169	3.37	3.539	5.0	
11/12/2004	Newhall	NR3		0.154	3.78	3.934	5.0	
12/8/2004	Newhall	NR1	<	0.1	3.49	3.59	5.0	
12/8/2004	Newhall	NR3	<	0.1	3.73	3.83	5.0	
12/16/2004	LACSD	RC		0.05	2.51	2.56	5.0	
12/16/2004	LACSD	RD		0.07	5.16	5.23	5.0	1
12/16/2004	LACSD	RE		0.07	3.99	4.06	5.0	
1/24/2005	Newhall	NR1	<	0.1	2.58	2.68	5.0	
1/24/2005	Newhall	NR3	<	0.1	2.78	2.88	5.0	
2/2/2005	LACSD	RC		0.04	1.77	1.81	5.0	
2/2/2005	LACSD	RD		0.06	6.31	6.37	5.0	1
2/2/2005	LACSD	RE		0.07	3.54	3.61	5.0	
2/9/2005	LACSD	RC	<	0.03	1.91	1.94	5.0	
2/9/2005	LACSD	RD		0.03	3.18	3.21	5.0	
2/9/2005	LACSD	RE		0.05	4.26	4.31	5.0	
2/14/2005	Newhall	NR1	<	0.1	2.18	2.28	5.0	
2/14/2005	Newhall	NR3	<	0.1	2.38	2.48	5.0	
2/15/2005	Newhall	NR1	<	0.1	2.57	2.67	5.0	
2/15/2005	Newhall	NR3	<	0.1	2.58	2.68	5.0	
2/16/2005	Newhall	NR1	<	0.1	2.76	2.86	5.0	
2/16/2005	Newhall	NR3	<	0.1	2.62	2.72	5.0	
2/17/2005	Newhall	NR1	<	0.1	2.52	2.62	5.0	
2/17/2005	Newhall	NR3	<	0.1	2.57	2.67	5.0	
2/18/2005	Newhall	NR3	<	0.1	1.38	1.48	5.0	
3/2/2005	LACSD	RC	<	0.03	2.1	2.13	5.0	
3/2/2005	LACSD	RD	<	0.03	2.06	2.09	5.0	
3/2/2005	LACSD	RE	<	0.03	0.69	0.72	5.0	
3/9/2005	Newhall	NR1	<	0.1	0.97	1.07	5.0	
3/9/2005	Newhall	NR3	<	0.1	1.26	1.36	5.0	
4/13/2005	LACSD	RC	<	0.03	1.42	1.45	5.0	
4/13/2005	LACSD	RD	<	0.03	2.26	2.29	5.0	
4/13/2005	LACSD	RE	<	0.03	0.48	0.51	5.0	
4/13/2005	Newhall	NR1	<	0.1	1.92	2.02	5.0	
4/13/2005	Newhall	NR3	<	0.1	2.42	2.52	5.0	
5/9/2005	Newhall	NR1	<	0.1	1.63	1.73	5.0	
5/9/2005	Newhall	NR3	<	0.1	1.95	2.05	5.0	
5/10/2005	Newhall	NR1	<	0.1	1.86	1.96	5.0	
5/10/2005	Newhall	NR3	<	0.1	2.2	2.3	5.0	
5/11/2005	Newhall	NR1	<	0.1	2.28	2.38	5.0	
5/11/2005	Newhall	NR3	<	0.1	2.79	2.89	5.0	
5/12/2005	Newhall	NR1	<	0.1	2	2.1	5.0	
5/12/2005	Newhall	NR3	<	0.1	2.41	2.51	5.0	
5/13/2005	Newhall	NR1	<	0.1	1.57	1.67	5.0	
5/13/2005	Newhall	NR3	<	0.1	1.9	2	5.0	
5/18/2005	LACSD	RC	<	0.03	1.7	1.73	5.0	
5/18/2005	LACSD	RD	<	0.03	3.79	3.82	5.0	
5/18/2005	LACSD	RE	<	0.03	0.92	0.95	5.0	
6/15/2005	LACSD	RC	<	0.03	1.45	1.48	5.0	
6/15/2005	LACSD	RD	<	0.03	3.02	3.05	5.0	
6/15/2005	LACSD	RE	<	0.03	1.1	1.13	5.0	

APPENDIX Q - TABLE Q1
SANTA CLARA RIVER REACH 5 - NITRATE + NITRITE

Sample Date	Source	Location	Qualifier	Nitrite (mg/L)	Nitrate (mg/L)	Nitrite + Nitrate (mg/L)	Nitrite + Nitrate BPO (mg/L)	Does Sample Exceed BPO (1=Yes)
6/15/2005	Newhall	NR1	<	0.1	1.96	2.06	5.0	
6/15/2005	Newhall	NR3	<	0.1	2.01	2.11	5.0	
7/20/2005	LACSD	RC	<	0.03	1.34	1.37	5.0	
7/20/2005	LACSD	RD		0.06	2.35	2.41	5.0	
7/20/2005	LACSD	RE	<	0.03	0.58	0.61	5.0	
7/20/2005	Newhall	NR1	<	0.1	1.67	1.77	5.0	
7/20/2005	Newhall	NR3	<	0.1	1.75	1.85	5.0	
8/8/2005	Newhall	NR1	<	0.1	1.08	1.18	5.0	
8/8/2005	Newhall	NR3	<	0.1	1.11	1.21	5.0	
8/9/2005	Newhall	NR1	<	0.1	1.22	1.32	5.0	
8/9/2005	Newhall	NR3	<	0.1	1.2	1.3	5.0	
8/10/2005	Newhall	NR1	<	0.1	1.19	1.29	5.0	
8/10/2005	Newhall	NR3	<	0.1	1.41	1.51	5.0	
8/11/2005	Newhall	NR1	<	0.1	1.23	1.33	5.0	
8/11/2005	Newhall	NR3	<	0.1	1.36	1.46	5.0	
8/12/2005	Newhall	NR1	<	0.1	1.3	1.4	5.0	
8/12/2005	Newhall	NR3	<	0.1	1.2	1.3	5.0	
8/17/2005	LACSD	RC	<	0.03	1.61	1.64	5.0	
8/17/2005	LACSD	RD		0.06	3.47	3.53	5.0	
8/17/2005	LACSD	RE		0.06	3.06	3.12	5.0	
9/14/2005	LACSD	RC	<	0.03	1.31	1.34	5.0	
9/14/2005	LACSD	RD		0.06	3.05	3.11	5.0	
9/14/2005	LACSD	RE		0.05	2.73	2.78	5.0	
9/14/2005	Newhall	NR1	<	0.1	3.48	3.58	5.0	
9/14/2005	Newhall	NR3	<	0.1	4.25	4.35	5.0	
10/12/2005	Newhall	NR1	<	0.1	2.58	2.68	5.0	
10/12/2005	Newhall	NR3	<	0.1	3.06	3.16	5.0	
10/26/2005	LACSD	RC	<	0.03	1.67	1.7	5.0	
10/26/2005	LACSD	RD		0.07	3.19	3.26	5.0	
10/26/2005	LACSD	RE		0.09	2.97	3.06	5.0	
11/7/2005	Newhall	NR1	<	0.1	3.22	3.32	5.0	
11/7/2005	Newhall	NR3	<	0.1	3.15	3.25	5.0	
11/8/2005	Newhall	NR1	<	0.1	3.73	3.83	5.0	
11/8/2005	Newhall	NR3	<	0.1	3.56	3.66	5.0	
11/9/2005	Newhall	NR1	<	0.1	3.35	3.45	5.0	
11/9/2005	Newhall	NR3	<	0.1	3.53	3.63	5.0	
11/10/2005	Newhall	NR1	<	0.1	4.78	4.88	5.0	
11/10/2005	Newhall	NR3	<	0.1	2.91	3.01	5.0	
11/11/2005	Newhall	NR1	<	0.1	2.97	3.07	5.0	
11/11/2005	Newhall	NR3	<	0.1	2.95	3.05	5.0	
11/30/2005	LACSD	RC	<	0.03	1.89	1.92	5.0	
11/30/2005	LACSD	RD		0.03	3.46	3.49	5.0	
11/30/2005	LACSD	RE		0.06	3.3	3.36	5.0	
12/14/2005	Newhall	NR1	<	0.1	3.34	3.44	5.0	
12/14/2005	Newhall	NR3	<	0.1	3.56	3.66	5.0	
12/21/2005	LACSD	RC	<	0.03	1.94	1.97	5.0	
12/21/2005	LACSD	RC	<	0.03	1.91	1.94	5.0	
12/21/2005	LACSD	RD		0.06	3.46	3.52	5.0	
12/21/2005	LACSD	RE		0.08	3.54	3.62	5.0	
1/11/2006	Newhall	NR1	<	0.1	1.95	2.05	5.0	
1/11/2006	Newhall	NR3	<	0.1	2.07	2.17	5.0	
1/18/2006	LACSD	RC	<	0.03	1.9	1.93	5.0	

APPENDIX Q - TABLE Q1
SANTA CLARA RIVER REACH 5 - NITRATE + NITRITE

Sample Date	Source	Location	Qualifier	Nitrite (mg/L)	Nitrate (mg/L)	Nitrite + Nitrate (mg/L)	Nitrite + Nitrate BPO (mg/L)	Does Sample Exceed BPO (1=Yes)
1/18/2006	LACSD	RD		0.04	3.34	3.38	5.0	
1/18/2006	LACSD	RD		0.04	3.34	3.38	5.0	
1/18/2006	LACSD	RE	<	0.03	0.12	0.15	5.0	
2/13/2006	Newhall	NR1	<	0.1	1.88	1.98	5.0	
2/13/2006	Newhall	NR3	<	0.1	2.17	2.27	5.0	
2/14/2006	Newhall	NR1	<	0.1	1.88	1.98	5.0	
2/14/2006	Newhall	NR3	<	0.1	2.45	2.55	5.0	
2/15/2006	LACSD	RC		0.04	2.13	2.17	5.0	
2/15/2006	LACSD	RD		0.05	3	3.05	5.0	
2/15/2006	LACSD	RE	<	0.03	0.22	0.25	5.0	
2/15/2006	LACSD	RE	<	0.03	0.22	0.25	5.0	
2/15/2006	Newhall	NR1	<	0.1	2.04	2.14	5.0	
2/15/2006	Newhall	NR3	<	0.1	2.58	2.68	5.0	
2/16/2006	Newhall	NR1	<	0.1	2.29	2.39	5.0	
2/16/2006	Newhall	NR3	<	0.1	2.86	2.96	5.0	
2/17/2006	Newhall	NR1	<	0.1	1.86	1.96	5.0	
2/17/2006	Newhall	NR3	<	0.1	2.27	2.37	5.0	
3/15/2006	LACSD	RC	<	0.03	1.92	1.95	5.0	
3/15/2006	LACSD	RD		0.03	2.56	2.59	5.0	
3/15/2006	LACSD	RE	<	0.03	0.53	0.56	5.0	
3/15/2006	Newhall	NR1		0.114	2.51	2.624	5.0	
3/15/2006	Newhall	NR3		0.105	2.91	3.015	5.0	
4/18/2006	Newhall	NR3	<	0.10	1.72	1.82	5.0	
4/19/2006	LACSD	RC	<	0.03	2.17	2.2	5.0	
4/19/2006	LACSD	RD	<	0.03	2.26	2.29	5.0	
4/19/2006	LACSD	RE	<	0.03	0.34	0.37	5.0	
4/24/2006	Newhall	NR1	<	0.1	1.73	1.83	5.0	
5/15/2006	Newhall	NR1		0.04	1.76	1.796	5.0	
5/15/2006	Newhall	NR3		0.02	1.92	1.944	5.0	
5/16/2006	Newhall	NR1		0.07	1.81	1.88	5.0	
5/16/2006	Newhall	NR3		0.05	1.92	1.97	5.0	
5/17/2006	LACSD	RC	<	0.03	2.18	2.21	5.0	
5/17/2006	LACSD	RD		0.06	3.28	3.34	5.0	
5/17/2006	LACSD	RE		0.05	2.07	2.12	5.0	
5/17/2006	Newhall	NR1		0.059	1.79	1.849	5.0	
5/17/2006	Newhall	NR3		0.05	1.94	1.993	5.0	
5/18/2006	Newhall	NR1		0.06	1.71	1.775	5.0	
5/18/2006	Newhall	NR3		0.06	1.85	1.909	5.0	
5/19/2006	Newhall	NR1		0.06	1.71	1.768	5.0	
5/19/2006	Newhall	NR3		0.05	1.83	1.881	5.0	
6/21/2006	LACSD	RC	<	0.03	2.02	2.05	5.0	
6/21/2006	LACSD	RD		0.06	2.89	2.95	5.0	
6/21/2006	LACSD	RE		0.05	2.8	2.85	5.0	
6/21/2006	Newhall	NR1		0.07	2.38	2.45	5.0	
6/21/2006	Newhall	NR3		0.07	2.51	2.58	5.0	
7/18/2006	Newhall	NR1		0.11	2.04	2.15	5.0	
7/18/2006	Newhall	NR3		0.10	2.06	2.16	5.0	
7/19/2006	LACSD	RC	<	0.03	2.11	2.14	5.0	
7/19/2006	LACSD	RD		0.06	2.97	3.03	5.0	
7/19/2006	LACSD	RE		0.05	2.73	2.78	5.0	
8/21/2006	Newhall	NR1		0.03	1.26	1.29	5.0	
8/21/2006	Newhall	NR3		0.04	1.32	1.36	5.0	

APPENDIX Q - TABLE Q1
SANTA CLARA RIVER REACH 5 - NITRATE + NITRITE

Sample Date	Source	Location	Qualifier	Nitrite (mg/L)	Nitrate (mg/L)	Nitrite + Nitrate (mg/L)	Nitrite + Nitrate BPO (mg/L)	Does Sample Exceed BPO (1=Yes)
8/22/2006	Newhall	NR1		0.04	1.25	1.29	5.0	
8/22/2006	Newhall	NR3		0.03	1.18	1.21	5.0	
8/23/2006	LACSD	RC	<	0.03	1.88	1.91	5.0	
8/23/2006	LACSD	RD		0.04	2.25	2.29	5.0	
8/23/2006	LACSD	RE		0.04	2.17	2.21	5.0	
8/23/2006	Newhall	NR1		0.03	1.66	1.69	5.0	
8/23/2006	Newhall	NR3		0.04	2.26	2.3	5.0	
8/24/2006	Newhall	NR1	<	0.05	1.89	1.94	5.0	
8/24/2006	Newhall	NR3	<	0.05	2.02	2.07	5.0	
8/25/2006	Newhall	NR1	<	0.05	1.89	1.94	5.0	
8/25/2006	Newhall	NR3	<	0.05	1.82	1.87	5.0	
9/13/2006	LACSD	RC	<	0.03	1.65	1.68	5.0	
9/13/2006	LACSD	RD		0.04	2.39	2.43	5.0	
9/13/2006	LACSD	RE		0.04	2.18	2.22	5.0	
9/13/2006	LACSD	RE		0.04	2.16	2.2	5.0	
9/19/2006	Newhall	NR1	<	0.01	1.93	1.94	5.0	
9/19/2006	Newhall	NR3	<	0.01	1.83	1.84	5.0	
10/18/2006	LACSD	RC	<	0.03	2.04	2.07	5.0	
10/18/2006	LACSD	RC	<	0.03	2.03	2.06	5.0	
10/18/2006	LACSD	RD		0.06	2.25	2.31	5.0	
10/18/2006	LACSD	RE		0.06	2.09	2.15	5.0	
10/18/2006	Newhall	NR1	<	0.01	1.97	1.98	5.0	
10/18/2006	Newhall	NR3	<	0.01	2.09	2.1	5.0	
11/15/2006	LACSD	RE		0.04	2.55	2.59	5.0	
11/29/2006	LACSD	RC	<	0.03	2.6	2.63	5.0	
11/29/2006	LACSD	RD		0.06	3.06	3.12	5.0	
12/20/2006	LACSD	RC	<	0.03	2.24	2.27	5.0	
12/20/2006	LACSD	RD		0.04	2.73	2.77	5.0	
12/20/2006	LACSD	RE		0.08	2.77	2.85	5.0	
2/14/2007	LACSD	RC	<	0.03	2.13	2.16	5.0	
2/14/2007	LACSD	RD		0.04	2.89	2.93	5.0	
2/14/2007	LACSD	RE		0.07	2.96	3.03	5.0	
2/28/2007	LACSD	RC		0.03	2.55	2.58	5.0	
2/28/2007	LACSD	RD	<	0.03	2.18	2.21	5.0	
2/28/2007	LACSD	RE		0.06	2.77	2.83	5.0	

LACSD - Sanitation Districts of Los Angeles County
Newhall - Newhall Ranch Sanitation District

9 of 243 samples exceed the Basin Plan Objective (BPO)

APPENDIX R - TABLE R1
SANTA CLARA RIVER REACH 6 - AMMONIA

Sample Date	Source	Location	pH	Temp (C)	Qualifier	Ammonia (mg/L)	4-Day Average Ammonia (mg/L)	CMC (mg/L)	CCC No SSO (mg/L)	4-Day CCC (mg/L)	Does Sample Exceed CMC? (1=Yes)	Does Sample Exceed 4-Day CCC? (1=Yes)
10/15/2003	LACSD	RB	7.34	27.3		3.38	*	24.90	2.17	*		*
10/19/2003	LACSD	RB	7.47	26.5		1.49	2.44	20.79	2.07	2.12		1
10/20/2003	LACSD	RB	7.35	27.2		1.16	1.33	24.58	2.17	2.12		
2/11/2004	LACSD	RB	7.35	27.9		1.50	1.50	24.58	2.07	2.07		
2/11/2004	LACSD	RB01	7.88	22.7	<	0.10	0.10	10.51	1.69	1.69		
4/14/2004	LACSD	RB	7.36	21.6	<	0.10	*	24.25	3.10	*		*
4/14/2004	LACSD	RB	7.36	21.6	<	0.10	0.10	24.25	3.10	3.10		
4/14/2004	LACSD	RB01	7.90	23.7	<	0.10	0.10	10.13	1.55	1.55		
5/12/2004	LACSD	RB	7.35	30.5		0.50	0.50	24.58	1.75	1.75		
5/12/2004	LACSD	RB01	7.94	31.8	<	0.10	0.10	9.41	0.87	0.87		
6/9/2004	LACSD	RB	7.37	32.8	<	0.10	0.10	23.93	1.49	1.49		
8/11/2004	LACSD	RB	7.37	28.6	<	0.10	0.10	23.93	1.95	1.95		
8/11/2004	LACSD	RB01	7.76	23.0	<	0.10	0.10	13.02	1.93	1.93		
9/15/2004	LACSD	RB	7.62	28.7		0.10	0.10	16.49	1.56	1.56		
9/15/2004	LACSD	RB01	7.83	21.0	<	0.10	0.10	11.51	2.02	2.02		
10/13/2004	LACSD	RB	7.74	27.0		0.20	0.20	13.48	1.53	1.53		
10/13/2004	LACSD	RB01	8.00	19.5	<	0.10	0.10	8.41	1.77	1.77		
11/10/2004	LACSD	RB	7.34	24.7		2.60	2.60	24.90	2.56	2.56		1
11/10/2004	LACSD	RB01	7.88	17.7		0.20	0.20	10.51	2.34	2.34		
12/16/2004	LACSD	RB	7.47	23.0	<	0.10	0.10	20.79	2.59	2.59		
12/16/2004	LACSD	RB01	7.73	16.0	<	0.10	0.10	13.72	3.14	3.14		
2/2/2005	LACSD	RB	7.27	21.5		1.60	1.60	27.21	3.30	3.30		
2/2/2005	LACSD	RB01	7.80	17.5	<	0.10	0.10	12.14	2.63	2.63		
2/9/2005	LACSD	RB	7.36	21.6		0.20	0.20	24.25	3.09	3.09		
2/16/2005	LACSD	RB01	8.00	19.9		0.10	0.10	8.41	1.72	1.72		
3/2/2005	LACSD	RB	7.46	21.5		0.90	0.90	21.10	2.88	2.88		
3/10/2005	LACSD	RB01	8.29	22.8	<	0.10	0.10	4.81	0.91	0.91		
4/13/2005	LACSD	RA	8.42	28.9		0.20	0.20	3.74	0.49	0.49		
4/13/2005	LACSD	RB	7.57	22.1		0.20	0.20	17.86	2.51	2.51		
4/13/2005	LACSD	RB01	8.09	22.5	<	0.10	0.10	7.08	1.27	1.27		
5/18/2005	LACSD	RB	7.61	23.6		2.10	2.10	16.76	2.19	2.19		
5/18/2005	LACSD	RB01	7.95	25.9	<	0.10	0.10	9.23	1.26	1.26		
6/15/2005	LACSD	RB	7.47	25.3		0.50	0.50	20.79	2.24	2.24		
6/15/2005	LACSD	RB01	7.89	26.4	<	0.10	0.10	10.32	1.32	1.32		
7/20/2005	LACSD	RB	7.30	26.6		0.80	0.80	26.21	2.33	2.33		
7/20/2005	LACSD	RB01	7.92	26.7	<	0.10	0.10	9.76	1.24	1.24		
8/17/2005	LACSD	RB	7.35	27.1		0.90	0.90	24.58	2.18	2.18		
8/17/2005	LACSD	RB01	7.87	25.4	<	0.10	0.10	10.70	1.44	1.44		
9/14/2005	LACSD	RB	7.32	26.5		1.10	1.10	25.56	2.31	2.31		
9/14/2005	LACSD	RB01	7.91	22.9	<	0.10	0.10	9.95	1.61	1.61		
10/26/2005	LACSD	RB	7.18	25.4	<	0.10	0.10	30.21	2.70	2.70		
10/26/2005	LACSD	RB01	7.61	21.3	<	0.10	0.10	16.76	2.55	2.55		
11/29/2005	LACSD	RB01	7.84	16.8	<	0.10	0.10	11.30	2.62	2.62		
11/30/2005	LACSD	RB	7.44	23.6		0.20	*	21.72	2.55	*		*
11/30/2005	LACSD	RB	7.44	23.6		0.10	0.15	21.72	2.55	2.55		
12/20/2005	LACSD	RB01	7.90	16.7	<	0.10	0.10	10.13	2.44	2.44		
12/21/2005	LACSD	RB	7.41	22.8		0.90	0.90	22.66	2.76	2.76		
1/17/2006	LACSD	RB01	7.86	17.6	<	0.10	0.10	10.90	2.43	2.43		
1/18/2006	LACSD	RA	7.92	17.7		0.10	0.10	9.76	2.21	2.21		
1/18/2006	LACSD	RB	7.27	21.7		1.00	1.00	27.21	3.26	3.26		

APPENDIX R - TABLE R1
SANTA CLARA RIVER REACH 6 - AMMONIA

2/14/2006	LACSD	RB01	7.74	19.2	<	0.10	0.10	13.48	2.53	2.53		
2/15/2006	LACSD	RA	8.18	17.5		0.10	0.10	5.95	1.53	1.53		
2/15/2006	LACSD	RB	7.57	22.2		1.10	1.10	17.86	2.50	2.50		
3/14/2006	LACSD	RB01	7.87	20.6	<	0.10	0.10	10.70	1.97	1.97		
3/14/2006	LACSD	RB01	7.87	20.6	<	0.10	0.10	10.70	1.97	1.97		
3/15/2006	LACSD	RA	8.22	20.6	<	0.10	0.10	5.51	1.17	1.17		
3/15/2006	LACSD	RB	7.44	21.4		1.20	1.20	21.72	2.94	2.94		
4/18/2006	LACSD	RB01	7.82	19.3	<	0.10	0.10	11.71	2.28	2.28		
4/19/2006	LACSD	RA	8.09	24.4	<	0.10	0.10	7.08	1.13	1.13		
4/19/2006	LACSD	RB	7.59	23.1		0.71	0.71	17.31	2.31	2.31		
5/16/2006	LACSD	RB01	7.91	25.0	<	0.10	*	9.95	1.40	*		*
5/16/2006	LACSD	RB01	7.91	25.0	<	0.10	0.10	9.95	1.40	1.40		
5/17/2006	LACSD	RA	8.00	26.8	<	0.10	0.10	8.41	1.10	1.10		
5/17/2006	LACSD	RB	6.88	24.2		0.56	0.56	39.75	3.29	3.29		
6/21/2006	LACSD	RB	7.52	26.7		0.74	0.74	19.30	1.96	1.96		
7/19/2006	LACSD	RA	7.67	18.6	<	0.10	0.10	15.19	2.84	2.84		
7/19/2006	LACSD	RB	7.40	27.5		1.20	1.20	22.97	2.05	2.05		
8/23/2006	LACSD	RA	7.66	19.3	<	0.10	0.10	15.44	2.74	2.74		
8/23/2006	LACSD	RB	7.48	27.9		0.96	*	20.49	1.87	*		*
8/23/2006	LACSD	RB	7.48	27.9		1.10	1.03	20.49	1.87	1.87		
9/13/2006	LACSD	RB	7.57	27.7		0.86	0.86	17.86	1.75	1.75		
10/18/2006	LACSD	RB	7.60	26.2	<	0.10	0.10	17.03	1.88	1.88		
10/18/2006	LACSD	RB01	7.70	18.4		0.13	0.13	14.44	2.78	2.78		
11/15/2006	LACSD	RB	7.03	25.8		1.00	1.00	35.14	2.83	2.83		
11/15/2006	LACSD	RB01	7.22	18.8	<	0.10	0.10	28.87	4.05	4.05		
12/20/2006	LACSD	RB	7.47	23.2	<	0.10	0.10	20.79	2.56	2.56		
2/14/2007	LACSD	RB	7.59	22.3		1.08	1.08	17.31	2.43	2.43		
2/28/2007	LACSD	RB	7.40	22.2		0.98	0.98	22.97	2.88	2.88		

LACSD - Sanitation Districts of Los Angeles County

* - Data used in calculation of a 4 day average

2 of 73 4-day averages exceed Criterion Continuous Concentration (CCC)

0 of 78 samples exceed Criterion Maximum Concentration (CMC)

APPENDIX S - TABLE S1
SANTA CLARA RIVER REACH 5 - POLYCHLORINATED BIPHENYLS (PCBs)

Sample date	Source	Location	Qualifier	PCB sum (ug/L)	Is Sample Usable? (1=Yes)	CCC (ug/L)	Exceeds CCC (1 = Yes)
10/30/2001	SWAMP	Newhall Ranch Blue Cut		0.0675	1	0.014	1
11/13/2001	SWAMP	Newhall Ranch Blue Cut		0.008	1	0.014	
11/13/2001	SWAMP	Castaic Creek		0.0947	*	0.014	*
7/14/2004	LACSD	RC	<	0.3		0.014	
2/9/2005	LACSD	RC	<	0.3		0.014	
7/20/2005	LACSD	RC	<	0.3		0.014	
1/18/2006	LACSD	RC	<	0.5		0.014	
7/19/2006	LACSD	RC	<	0.5		0.014	
2/14/2007	LACSD	RC	<	0.5		0.014	
7/14/2004	LACSD	RD	<	0.3		0.014	
2/9/2005	LACSD	RD	<	0.3		0.014	
7/20/2005	LACSD	RD	<	0.3		0.014	
1/18/2006	LACSD	RD	<	0.5		0.014	
7/19/2006	LACSD	RD	<	0.5		0.014	
2/14/2007	LACSD	RD	<	0.5		0.014	
7/14/2004	LACSD	RE	<	0.3		0.014	
2/9/2005	LACSD	RE	<	0.3		0.014	
7/20/2005	LACSD	RE	<	0.3		0.014	
1/18/2006	LACSD	RE	<	0.5		0.014	
7/19/2006	LACSD	RE	<	0.5		0.014	
2/14/2007	LACSD	RE	<	0.5		0.014	
5/18/2004	Newhall	NR1	<	0.5		0.014	
6/17/2004	Newhall	NR1	<	0.5		0.014	
7/15/2004	Newhall	NR1	<	0.5		0.014	
8/9/2004	Newhall	NR1	<	0.5		0.014	
9/20/2004	Newhall	NR1	<	0.5		0.014	
10/14/2004	Newhall	NR1	<	0.5		0.014	
11/8/2004	Newhall	NR1	<	0.5		0.014	
12/8/2004	Newhall	NR1	<	0.5		0.014	
1/24/2005	Newhall	NR1	<	0.5		0.014	
2/14/2005	Newhall	NR1	<	0.5		0.014	
3/9/2005	Newhall	NR1	<	0.5		0.014	
4/13/2005	Newhall	NR1	<	0.5		0.014	
5/11/2005	Newhall	NR1	<	0.5		0.014	
6/15/2005	Newhall	NR1	<	0.5		0.014	
7/20/2005	Newhall	NR1	<	0.5		0.014	
8/8/2005	Newhall	NR1	<	0.5		0.014	
9/14/2005	Newhall	NR1	<	0.5		0.014	
10/12/2005	Newhall	NR1	<	0.5		0.014	
11/9/2005	Newhall	NR1	<	0.5		0.014	
12/14/2005	Newhall	NR1	<	0.5		0.014	
1/11/2006	Newhall	NR1	<	0.5		0.014	
2/15/2006	Newhall	NR1	<	0.5		0.014	
3/15/2006	Newhall	NR1	<	0.5		0.014	
5/18/2004	Newhall	NR3	<	0.5		0.014	
6/17/2004	Newhall	NR3	<	0.5		0.014	
7/15/2004	Newhall	NR3	<	0.5		0.014	

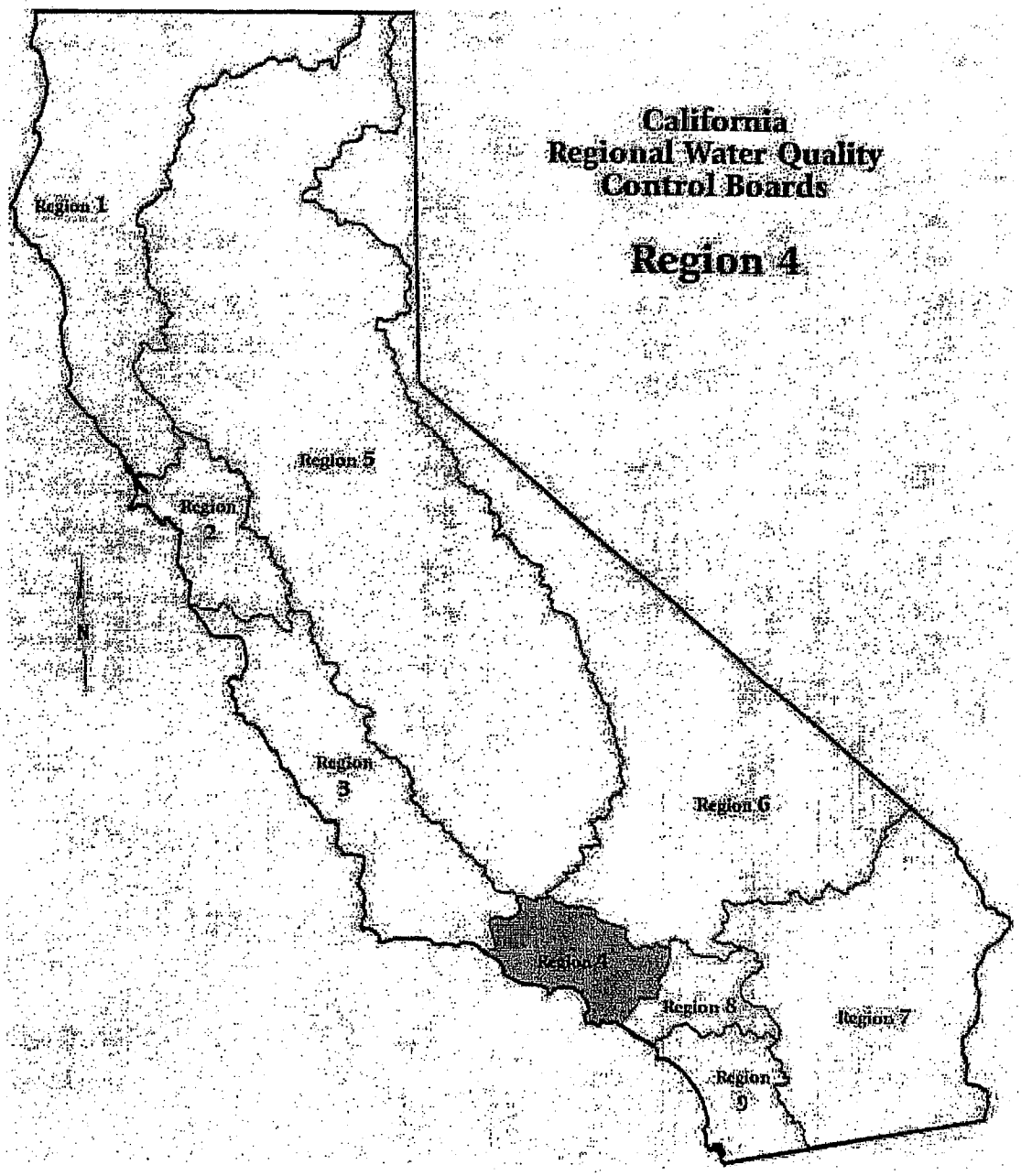
APPENDIX S - TABLE S1
SANTA CLARA RIVER REACH 5 - POLYCHLORINATED BIPHENYLS (PCBs)

Sample date	Source	Location	Qualifier	PCB sum (ug/L)	Is Sample Usable? (1=Yes)	CCC (ug/L)	Exceeds CCC (1 = Yes)
8/9/2004	Newhall	NR3	<	0.5		0.014	
9/20/2004	Newhall	NR3	<	0.5		0.014	
10/14/2004	Newhall	NR3	<	0.5		0.014	
11/8/2004	Newhall	NR3	<	0.5		0.014	
12/8/2004	Newhall	NR3	<	0.5		0.014	
1/24/2005	Newhall	NR3	<	0.5		0.014	
2/14/2005	Newhall	NR3	<	0.5		0.014	
3/9/2005	Newhall	NR3	<	0.5		0.014	
4/13/2005	Newhall	NR3	<	0.5		0.014	
5/11/2005	Newhall	NR3	<	0.5		0.014	
6/15/2005	Newhall	NR3	<	0.5		0.014	
7/20/2005	Newhall	NR3	<	0.5		0.014	
8/8/2005	Newhall	NR3	<	0.5		0.014	
9/14/2005	Newhall	NR3	<	0.5		0.014	
10/12/2005	Newhall	NR3	<	0.5		0.014	
11/9/2005	Newhall	NR3	<	0.5		0.014	
12/14/2005	Newhall	NR3	<	0.5		0.014	
1/11/2006	Newhall	NR3	<	0.5		0.014	
2/15/2006	Newhall	NR3	<	0.5		0.014	
3/15/2006	Newhall	NR3	<	0.5		0.014	

LADPW - Los Angeles Department of Public Works
SWAMP - Surface Water Ambient Monitoring Program
LACSD - Sanitation Districts of Los Angeles County
* = Sample does not meet requirement of Section 6.1.5 of the State's 303(d) Listing Policy

1 of 2 samples exceed Criterion Continuous Concentration (CCC)

Fact Sheets Supporting "Do Not List" Recommendations



November 2006

DOC#1293078 & 1283503

Region 4

Water Segment:	Santa Clara River Reach 5 (Blue Cut gaging station to West Pier Hwy 99 Bridge) (was named Santa Clara River Reach 7 on 2002 303(d) lists)
Pollutant:	Polychlorinated biphenyls
Decision:	Do Not List
Weight of Evidence:	This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status. One line of evidence is available in the administrative record to assess this pollutant. An insufficient number of samples exceed the California Toxics Rule (CTR) fresh water criterion continuous concentration of 0.014 µg/L. Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category. This conclusion is based on the staff findings that: 1.The data used satisfies the data quality requirements of section 6.1.4 of the Policy. 2.The data used does not satisfy the data quantity requirements of section 6.1.5 of the Policy. 3. One of 2 samples exceeded the CTR chronic criterion and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy. 4.Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.
SWRCB Staff Recommendation:	After review of the available data and information, SWRCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list because applicable water quality standards are not exceeded and a pollutant contributes to or causes the problem.

Lines of Evidence:

Numeric Line of Evidence	Pollutant-Water
Beneficial Use:	RA - Rare & Endangered Species, WA - Warm Freshwater Habitat, WI - Wildlife Habitat
Matrix:	Water
Water Quality Objective/ Water Quality Criterion:	California Toxics Rule (CTR) Freshwater Criterion Continuous Concentration 0.014 µg/L (40 CFR Part 131).
Data Used to Assess Water Quality:	Two summations of all PCB congeners with 1 exceeding the CTR (SWAMP, 2004).
Spatial Representation:	SWAMP monitoring site Newhall Ranch Blue Cut (403STCCTC).
Temporal Representation:	Samples were collected in October and November of 2001.

APPENDIX T - TABLE T1
SANTA CLARA RIVER REACH 5 - DDT

Sample date	Source	Location	Qualifier	DDT (ug/L)	Is Sample Usable? (1=Yes)	CCC (ug/L)	Exceeds CCC (1 = Yes)
7/11/2001	LACSD	RC	<	0.01		0.00059	
8/2/2001	LACSD	RC	<	0.01		0.00059	
9/4/2001	LACSD	RC	<	0.01		0.00059	
10/9/2001	LACSD	RC	<	0.01		0.00059	
10/30/2001	SWAMP	Newhall Ranch Blue Cut		0.007	1	0.00059	1
11/1/2001	LACSD	RC	<	0.01		0.00059	
11/13/2001	SWAMP	Castaic Creek		0.006	*	0.00059	*
11/13/2001	SWAMP	Newhall Ranch Blue Cut	<	0.005		0.00059	
12/10/2001	LACSD	RC	<	0.01		0.00059	
1/8/2002	LACSD	RC	<	0.01		0.00059	
1/8/2002	LACSD	RC	<	0.01		0.00059	
2/21/2002	LACSD	RC	<	0.01		0.00059	
3/11/2002	LACSD	RC	<	0.01		0.00059	
4/2/2002	LACSD	RC	<	0.01		0.00059	
5/1/2002	LACSD	RC	<	0.01		0.00059	
6/3/2002	LACSD	RC	<	0.01		0.00059	
7/1/2002	LACSD	RC	<	0.01		0.00059	
8/6/2002	LACSD	RC	<	0.01		0.00059	
9/5/2002	LACSD	RC	<	0.01		0.00059	
10/10/2002	LACSD	RC	<	0.01		0.00059	
11/6/2002	LACSD	RC	<	0.01		0.00059	
12/4/2002	LACSD	RC	<	0.01		0.00059	
1/14/2004	LACSD	RC	<	0.01		0.00059	
1/14/2004	LACSD	RD	<	0.01		0.00059	
1/14/2004	LACSD	RE	<	0.01		0.00059	
5/18/2004	Newhall	NR1	<	0.010		0.00059	
5/18/2004	Newhall	NR3	<	0.010		0.00059	
6/17/2004	Newhall	NR1	<	0.010		0.00059	
6/17/2004	Newhall	NR3	<	0.010		0.00059	
7/14/2004	LACSD	RC	<	0.01		0.00059	
7/14/2004	LACSD	RD	<	0.01		0.00059	
7/14/2004	LACSD	RE	<	0.01		0.00059	
7/15/2004	Newhall	NR1	<	0.010		0.00059	
7/15/2004	Newhall	NR3	<	0.010		0.00059	
8/9/2004	Newhall	NR1	<	0.010		0.00059	
8/9/2004	Newhall	NR3	<	0.010		0.00059	
9/20/2004	Newhall	NR1	<	0.010		0.00059	
9/20/2004	Newhall	NR3	<	0.010		0.00059	
10/14/2004	Newhall	NR1	<	0.010		0.00059	
10/14/2004	Newhall	NR3	<	0.010		0.00059	
11/8/2004	Newhall	NR1	<	0.010		0.00059	
11/8/2004	Newhall	NR3	<	0.010		0.00059	
12/8/2004	Newhall	NR1	<	0.010		0.00059	
12/8/2004	Newhall	NR3	<	0.010		0.00059	
1/24/2005	Newhall	NR1	<	0.010		0.00059	
1/24/2005	Newhall	NR3	<	0.010		0.00059	
2/9/2005	LACSD	RC	<	0.01		0.00059	
2/9/2005	LACSD	RD	<	0.01		0.00059	
2/9/2005	LACSD	RE	<	0.01		0.00059	
2/14/2005	Newhall	NR1	<	0.010		0.00059	
2/14/2005	Newhall	NR3	<	0.010		0.00059	
3/9/2005	Newhall	NR1	<	0.010		0.00059	
3/9/2005	Newhall	NR3	<	0.010		0.00059	
4/13/2005	Newhall	NR1	<	0.010		0.00059	
4/13/2005	Newhall	NR3	<	0.010		0.00059	

APPENDIX T - TABLE T1
SANTA CLARA RIVER REACH 5 - DDT

Sample date	Source	Location	Qualifier	DDT (ug/L)	Is Sample Usable? (1=Yes)	CCC (ug/L)	Exceeds CCC (1 = Yes)
5/11/2005	Newhall	NR1	<	0.010		0.00059	
5/11/2005	Newhall	NR3	<	0.010		0.00059	
6/15/2005	Newhall	NR1	<	0.010		0.00059	
6/15/2005	Newhall	NR3	<	0.010		0.00059	
7/20/2005	LACSD	RC	<	0.01		0.00059	
7/20/2005	LACSD	RD	<	0.01		0.00059	
7/20/2005	LACSD	RE	<	0.01		0.00059	
7/20/2005	Newhall	NR1	<	0.010		0.00059	
7/20/2005	Newhall	NR3	<	0.010		0.00059	
8/8/2005	Newhall	NR1	<	0.010		0.00059	
8/8/2005	Newhall	NR3	<	0.010		0.00059	
9/14/2005	Newhall	NR1	<	0.010		0.00059	
9/14/2005	Newhall	NR3	<	0.010		0.00059	
10/12/2005	Newhall	NR1	<	0.010		0.00059	
10/12/2005	Newhall	NR3	<	0.010		0.00059	
11/9/2005	Newhall	NR1	<	0.010		0.00059	
11/9/2005	Newhall	NR3	<	0.010		0.00059	
12/14/2005	Newhall	NR1	<	0.010		0.00059	
12/14/2005	Newhall	NR3	<	0.010		0.00059	
1/11/2006	Newhall	NR1	<	0.010		0.00059	
1/11/2006	Newhall	NR3	<	0.010		0.00059	
1/18/2006	LACSD	RC	<	0.01		0.00059	
1/18/2006	LACSD	RD	<	0.01		0.00059	
1/18/2006	LACSD	RE	<	0.01		0.00059	
2/15/2006	Newhall	NR1	<	0.010		0.00059	
2/15/2006	Newhall	NR3	<	0.010		0.00059	
3/15/2006	Newhall	NR1	<	0.010		0.00059	
3/15/2006	Newhall	NR3	<	0.010		0.00059	
4/18/2006	Newhall	NR3	<	0.005		0.00059	
4/24/2006	Newhall	NR1	<	0.005		0.00059	
5/17/2006	Newhall	NR1	<	0.005		0.00059	
5/17/2006	Newhall	NR3	<	0.005		0.00059	
6/21/2006	Newhall	NR1	<	0.005		0.00059	
6/21/2006	Newhall	NR3	<	0.005		0.00059	
7/18/2006	Newhall	NR1	<	0.005		0.00059	
7/18/2006	Newhall	NR3	<	0.005		0.00059	
7/19/2006	LACSD	RC	<	0.01		0.00059	
7/19/2006	LACSD	RD	<	0.01		0.00059	
7/19/2006	LACSD	RE	<	0.01		0.00059	
8/23/2006	Newhall	NR1	<	0.005		0.00059	
8/23/2006	Newhall	NR3	<	0.005		0.00059	
9/19/2006	Newhall	NR1	<	0.001		0.00059	
9/19/2006	Newhall	NR3	<	0.001		0.00059	
10/18/2006	Newhall	NR1	<	0.001		0.00059	
10/18/2006	Newhall	NR3	<	0.001		0.00059	
2/14/2007	LACSD	RC	<	0.01		0.00059	
2/14/2007	LACSD	RD	<	0.01		0.00059	
2/14/2007	LACSD	RE	<	0.01		0.00059	

LADPW - Los Angeles Department of Public Works
SWAMP - Surface Water Ambient Monitoring Program
LACSD - Sanitation Districts of Los Angeles County
* = Sample does not meet requirement of Section 6.1.5 of the State's 303(d) Listing Policy

1 of 1 samples exceed Criterion Continuous Concentration (CCC)

APPENDIX U - TABLE U1
SANTA CLARA RIVER REACH 6 - BIS(2-ETHYLHEXYL)PHTHALATE (DEHP)

Sample Date	Source	Location	Qualifier	DEHP (ug/L)	PQL/RL (ug/L)	CCC (ug/L)	Is Sample Usable? (1=Yes)	Exceeds CCC? (1 = Yes)
2/13/02	LACSD	RB	<	5	5	5.9	1	
10/10/02	LACDPW	S29		0	1	5.9	1	
11/8/02	LACDPW	S29		0	1	5.9	1	
12/16/02	LACDPW	S29		0	1	5.9	1	
2/11/03	LACDPW	S29		0	1	5.9	1	
3/15/03	LACDPW	S29		0	1	5.9	1	
4/30/03	LACDPW	S29		0	1	5.9	1	
10/28/03	LACDPW	S29		32.2	1	5.9	*	*
10/31/03	LACDPW	S29		60.4	1	5.9	*	*
12/25/03	LACDPW	S29		21.4	1	5.9	*	*
1/1/04	LACDPW	S29		20.2	1	5.9	*	*
1/13/04	LACDPW	S29		15.8	1	5.9	*	*
1/14/04	LACSD	RB	<	2	2	5.9	1	
7/14/04	LACSD	RB	<	2	2	5.9	1	
10/17/04	LACDPW	S29		ND	1	5.9	1	
10/26/04	LACDPW	S29		ND	1	5.9	1	
1/7/05	LACDPW	S29		ND	1	5.9	1	
2/9/05	LACSD	RB	<	2	2	5.9	1	
3/9/05	LACDPW	S29		ND	1	5.9	1	
7/20/05	LACSD	RB	<	2	2	5.9	1	
10/17/05	LACDPW	S29		0	1	5.9	1	
11/29/05	LACDPW	S29		0	1	5.9	1	
12/31/05	LACDPW	S29		0	1	5.9	1	
1/14/06	LACDPW	S29		0	1	5.9	1	
1/18/06	LACSD	RA	<	2	2	5.9	1	
1/18/06	LACSD	RB	<	2	2	5.9	1	
2/17/06	LACDPW	S29		0	1	5.9	1	
4/25/06	LACDPW	S29		0	1	5.9	1	
7/19/06	LACSD	RA	<	2	2	5.9	1	
7/19/06	LACSD	RB	<	2	2	5.9	1	
10/31/06	LACDPW	S29		0	1	5.9	1	
12/9/06	LACDPW	S29		0	1	5.9	1	
12/16/06	LACDPW	S29		0	1	5.9	1	
1/30/07	LACDPW	S29		0	1	5.9	1	
2/14/07	LACSD	RB	<	2	2	5.9	1	
2/19/07	LACDPW	S29		0	1	5.9	1	
2/22/07	LACDPW	S29		0	1	5.9	1	
4/2/07	LACDPW	S29		0	1	5.9	1	
7/18/07	LACSD	RB	<	2	2	5.9	1	
9/21/07	LACDPW	S29		0	1	5.9	1	
11/25/07	LACDPW	S29		0	1	5.9	1	
11/29/07	LACDPW	S29		0	1	5.9	1	
12/6/07	LACDPW	S29		0	1	5.9	1	
1/16/08	LACSD	RB	<	2	2	5.9	1	
4/9/08	LACDPW	S29		0	1	5.9	1	
7/17/08	LACSD	RB	<	2	2	5.9	1	

0 of 41 samples collected February 2002 to July 2008 exceec Criterion Continuous Concentration (CCC)

LADPW - Los Angeles Department of Public Works
LACSD - Sanitation Districts of Los Angeles County
DEHP - Bis(2-ethylhexyl)phthalate or diethylhexyl phthalate
* = Samples do not meet requirements of Section 6.1.4 of the State's 303(d) Listing Policy

0 of 25 samples exceed collected July 2004 to July 2007 Criterion Continuous Concentration (CCC)

DOC#1293078 & 1283503

APPENDIX V - TABLE V1
WALNUT CREEK - COPPER

Sample Date	Source	Location	Total Copper (ug/L)	Dissolved Copper (ug/L)	4-Day Average Dissolved Copper (ug/L)	PQL/RL (ug/L)	Method	Hardness	Dissolved Copper CMC (ug/L)	Does Sample Exceed CMC (1=Yes)	Dissolved Copper CCC (ug/L)	Is Sample Usable? (1=Yes)	4-Day Average Dissolved Copper CCC (ug/L)	Does Sample Exceed CCC (1=Yes)
10/31/2006	LACDPW	TS13	38.7	7.28	7.28	5.00	EPA200.8	180	23.4		14.8	1	14.8	
12/9/2006	LACDPW	TS13	111.00	19.40	19.40	5.00	EPA200.8	60	8.3	1	5.8	1	5.8	1
2/10/2007	LACDPW	TS13	54.7	7.47	7.47	5.00	EPA200.8	90	12.2		8.2	1	8.2	
2/19/2007	LACDPW	TS13	21.6	6.96	*	5.00	EPA200.8	100	13.4		9.0	1	*	
2/22/2007	LACDPW	TS13	23.5	4.14	5.55	5.00	EPA200.8	180	23.4		14.8	1	11.9	
2/27/2007	LACDPW	TS13	21.1	3.55	3.55	5.00	EPA200.8	100	13.4		9.0	1	9.0	
4/9/2007	LACDPW	TS13	37.9	8.81	8.81	5.00	EPA200.8	170	22.2		14.1	1	14.1	

LACDPW - Los Angeles County Department of Public Works

* - Data is used in calculation of a 4-day average

1 of 6 4-day averages exceed Criterion Continuous Concentration (CCC)

1 of 7 samples exceed Criterion Maximum Concentration (CMC)

APPENDIX W - TABLE W1
SANTA CLARA ESTUARY - ARSENIC

Sample Date	Source	Location	Qualifier	Arsenic (ug/L)	Acute Criteria (ug/L)	Chronic Criteria (ug/L)	Is Sample Usable? (1=Yes)	Sample Exceed Saltwater CMC?	Sample Exceed Saltwater CCC?
2/12/02	CSB	L5	<	2	69	3.6	1		
2/12/02	CSB	R1	<	2	69	36	1		
2/12/02	CSB	R3	<	2	69	36	1		
5/7/02	CSB	L5	<	0.2	69	36	1		
5/7/02	CSB	R1	<	0.2	69	36	1		
5/7/02	CSB	R3	<	0.2	69	36	1		
8/6/02	CSB	L5	<	2	69	36	1		
8/6/02	CSB	R1	<	2	69	36	1		
8/6/02	CSB	R3	<	2	69	36	1		
11/5/02	CSB	L5	<	2	69	36	1		
11/5/02	CSB	R1	<	2	69	36	1		
11/5/02	CSB	R3	<	2	69	36	1		
2/11/03	CSB	L5	<	2	69	36	1		
2/11/03	CSB	R1	<	2	69	36	1		
2/11/03	CSB	R3	<	2	69	36	1		
5/3/03	CSB	L5	<	2	69	36	1		
5/3/03	CSB	R3		81.4	69	36	1	1	1
5/6/03	CSB	R1	<	2	69	36	1		
8/5/03	CSB	L5	<	2	69	36	1		
8/5/03	CSB	R1	<	2	69	36	1		
8/5/03	CSB	R3	<	2	69	36	1		
11/4/03	CSB	L5	<	2	69	36	1		
11/4/03	CSB	R1	<	2	69	36	1		
11/4/03	CSB	R3	<	2	69	36	1		
2/3/04	CSB	L5	<	2	69	36	1		
2/3/04	CSB	R1	<	2	69	36	1		
2/3/04	CSB	R3	<	2	69	36	1		
5/4/04	CSB	L5		8.14	69	36	1		
5/4/04	CSB	R1		9.5	69	36	1		
5/4/04	CSB	R3		81.4	69	36	1	1	1
8/3/04	CSB	L5		5.36	69	36	1		
8/3/04	CSB	R3		2.5	69	36	1		
8/24/04	CSB	R1		9.1	69	36	1		
11/2/04	CSB	L5	<	2	69	36	1		
11/2/04	CSB	R3		6.7	69	36	1		
11/10/04	CSB	R1	<	2	69	36	1		
2/1/05	CSB	L5	<	2	69	36	1		
2/1/05	CSB	R1	<	2	69	36	1		
2/1/05	CSB	R3		2.3	69	36	1		
5/3/05	CSB	L5	<	2	69	36	1		
5/3/05	CSB	R1	<	2	69	36	1		
5/3/05	CSB	R3	<	2	69	36	1		
8/2/05	CSB	R3		5.48	69	36	1		
8/9/05	CSB	L5	<	2	69	36	1		
8/10/05	CSB	R1	<	2	69	36	1		
11/1/05	CSB	R3	<	2	69	36	1		
11/10/05	CSB	L5	<	2	69	36	1		
11/10/05	CSB	R1	<	2	69	36	1		
2/7/06	CSB	R3		12.3	69	36	1		
2/28/06	CSB	L5	<	2	69	36	1		

APPENDIX W - TABLE W1
SANTA CLARA ESTUARY - ARSENIC

Sample Date	Source	Location	Qualifier	Arsenic (ug/L)	Acute Criteria (ug/L)	Chronic Criteria (ug/L)	Is Sample Usable? (1=Yes)	Sample Exceed Saltwater CMC?	Sample Exceed Saltwater CCC?
2/28/06	CSB	R1	<	2	69	36	1		
5/9/06	CSB	L5	<	2	69	36	1		
5/9/06	CSB	R1	<	2	69	36	1		
5/9/06	CSB	R3	<	2	69	36	1		
8/2/06	CSB	L5	<	2	69	36	1		
8/2/06	CSB	R1	<	2	69	36	1		
8/2/06	CSB	R3	<	2	69	36	1		
11/1/06	CSB	L5	<	2	69	36	1		
11/1/06	CSB	R1	<	2	69	36	1		
11/1/06	CSB	R3	<	2	69	36	1		
2/6/07	CSB	R3		16	69	36	1		
2/7/07	CSB	L5	<	2	69	36	1		
2/7/07	CSB	R1	<	2	69	36	1		

CSB - City of San Buenaventura

2 of 63 samples exceed Criterion Continous Concentration (CCC)
2 of 63 samples exceed Criterion Maximum Concentration (CMC)

APPENDIX X - TABLE X1
WALNUT CREEK - LEAD

Sample Date	Source	Location	Total Lead (ug/L)	Dissolved Lead (ug/L)	4-Day Average Dissolved Lead (ug/L)	PQL/RL (ug/L)	Method	Hardness	Dissolved Lead CMC (ug/L)	Does Sample Exceed CMC (1=Yes)	Dissolved Lead CCC (ug/L)	4-Day Average Dissolved Lead CCC (ug/L)	Is Sample Usable? (1=Yes)	Does Sample Exceed CCC (1=Yes)
10/31/2006	LACDPW	TS13	2.31	0.55	0.55	5.00	EPA200.8	180	121.7		4.7	4.7		
12/9/2006	LACDPW	TS13	615.00	1.81	1.81	5.00	EPA200.8	60	36.9		1.4	1.4		
2/10/2007	LACDPW	TS13	20.6	1.48	1.48	5.00	EPA200.8	90	57.6		2.2	2.2		
2/19/2007	LACDPW	TS13	2.85	-99	*	5.00	EPA200.8	100	64.6		2.5	*		
2/22/2007	LACDPW	TS13	4.08	-99	-99	5.00	EPA200.8	180	121.7		4.7	3.6		
2/27/2007	LACDPW	TS13	6.77	0.69	0.69	5.00	EPA200.8	100	64.6		2.5	2.5		
4/9/2007	LACDPW	TS13	1.75	-99	-99	5.00	EPA200.8	170	114.5		4.5	4.5		

LACDPW - Los Angeles County Department of Public Works

* - Data is used in calculation of a 4-day average

0 of 0 4-day averages from October 2006 to April 2007 exceed Criterion Continuous Concentration (CCC)

0 of 7 samples from October 2006 to April 2007 exceed Criterion Maximum Concentration (CMC)