Prepared for

Baldwin Park Operable Unit
Cooperating Respondents

2014 Annual Performance Evaluation Report – Volume 1

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TABLE OF CONTENTS

1. INTRODUCTION 1
1.1 Background 1
1.2 Overview of Remedial Action 5
1.3 Summary of Remedial Action Objectives and Performance Standards 6
1.3.1 Subarea 1 Remedial Objectives 6
1.3.2 Subarea 3 Remedial Objectives 6
1.3.3 Performance Standards 7
1.4 Approach to Performance Monitoring and Evaluation 8
1.5 Content of Performance Evaluation Reports 9

2. STATUS OF REMEDIAL ACTIONS 12
2.1 Subarea 1 Remedial Action Status 12
2.2 Subarea 3 Remedial Action Status 15
2.2.1 La Puente Valley County Water District Subproject Status 15
2.2.2 San Gabriel Valley Water Company B6 Subproject Status 16
2.2.3 San Gabriel Valley Water Company B5 Subproject Status 18
2.2.4 California Domestic Water Company Status 20

3. PERFORMANCE MONITORING ACTIVITIES 22
3.1 Potentiometric Monitoring 22
3.2 Water Quality Monitoring 23
3.3 Groundwater Modeling 24

4. TREATMENT PLANT MONITORING ACTIVITIES 26
4.1 Subarea 1 – Valley County Water District Lante Treatment Plant 26
4.2 Subarea 3 – La Puente Valley County Water District Treatment Plant 27
4.3 Subarea 3 – San Gabriel Valley Water Company B6 Treatment Plant 28
4.4 Subarea 3 – San Gabriel Valley Water Company B5 Treatment Plant 29
4.5 Subarea 3 – California Domestic Water Company Treatment Plant 30

5. PERFORMANCE MONITORING RESULTS 31
5.1 Potentiometric Monitoring Results 31
5.1.1 Water Level Fluctuations 31
5.1.2 Lateral Hydraulic Gradients 32

5.1.3 Vertical Hydraulic Gradients 33
5.2 Groundwater Quality 33
5.2.1 Water-Quality Results 34
5.2.2 Data Validation and Data Quality Assessment 34
5.2.3 Distribution of Selected Chemicals of Concern 36
5.2.4 Temporal Trends 41
5.3 Groundwater Modeling Results 43
5.4 Groundwater Extraction and Chemical Mass Removal 43

6. TREATMENT PLANT PERFORMANCE RESULTS 45
6.1 Subarea 1 – Valley County Water District Lante Subproject 45
6.2 Subarea 3 – La Puente Valley County Water District Subproject 46
6.3 Subarea 3 – San Gabriel Valley Water Company B6 Subproject 48
6.4 Subarea 3 – San Gabriel Valley Water Company B5 Subproject 50
6.5 Subarea 3 – California Domestic Water Company Subproject 51

7. EVALUATION OF REMEDY PERFORMANCE AND TREATMENT PLANT OPERATIONS 53
7.1 Groundwater Extraction System Performance 53
7.1.1 Extraction Well Performance 53
7.1.2 Groundwater Quality Trends 54
7.1.3 Groundwater Extraction and Chemical Mass Removal 55
7.1.4 Assessment of Migration Control 56
7.2 Treatment System Operations 56
7.2.1 Subarea 1 – Valley County Water District Lante Subproject 56
7.2.2 Subarea 3 – La Puente Valley County Water District Subproject 57
7.2.3 Subarea 3 – San Gabriel Valley Water Company B6 Subproject 57
7.2.4 Subarea 3 – San Gabriel Valley Water Company B5 Subproject 58
7.2.5 Subarea 3 – California Domestic Water Company Treatment Plant\ 58

8. SUMMARY AND RECOMMENDATIONS 58

9. REFERENCES 60

LIST OF TABLES

Table 2-1: 2014 Monthly Groundwater Extraction Volumes and Rates

Table 3-1: 2014 Potentiometric Monitoring Network and Measurement Frequency

Table 3-2: Summary of PSEP and DDW Requirements for Source Water and Upgradient Surveillance Monitoring

Table 4-1: 2009-2014 Carbon and Resin Change out Summary

Table 5-1: 2014 Lateral Hydraulic Gradients

Table 5-2: 2014 Vertical Hydraulic Gradients

Table 5-3: 2014 Groundwater Quality Monitoring Results

Table 5-4: Detections of Non-COC Organic Compounds

Table 5-5: Detections of Tentatively Identified Compounds

Table 6-1: 2014 Influent and Effluent Water Quality Data - Valley County Water District Lante Treatment Plant

Table 6-2: 2014 Chemical Mass Removed - Valley County Water District Lante Treatment Plant

Table 6-3: 2014 Influent and Effluent Air Quality Data - Valley County Water District Lante Treatment Plant

Table 6-4: 2014 Air Risk and Hazard Summary - Valley County Water District Lante Treatment Plant

Table 6-5: 2014 Brine Vault Data - Valley County Water District Lante Treatment Plant

Table 6-6: 2014 Influent and Effluent Water Quality Data - La Puente Valley County Water District Treatment Plant:

Table 6-7: 2014 Chemical Mass Removed - La Puente Valley County Water District Treatment Plant

Table 6-8: 2014 Influent and Effluent Air Quality Data - La Puente Valley County Water District Treatment Plant

Table 6-9: 2014 Air Risk and Hazard Summary - La Puente Valley County Water District Treatment Plant

Table 6-10: 2014 Brine Vault Data - La Puente Valley County Water District Treatment Plant

Table 6-11: 2014 Influent and Effluent Water Quality Data - San Gabriel Valley Water Company B6 Treatment Plant

Table 6-12: 2014 Chemical Mass Removed - San Gabriel Valley Water Company B6 Treatment Plant

Table 6-13: **2014 Influent and Effluent Air Quality Data - San Gabriel Valley Water Company B6 Treatment Plant**

Table 6-14: **2014 Air Risk and Hazard Summary - San Gabriel Valley Water Company B6 Treatment Plant**

Table 6-15: **2014 Brine Vault Data - San Gabriel Valley Water Company B6 Treatment Plant**

Table 6-16: **2014 Influent and Effluent Water Quality Data - San Gabriel Valley Water Company B5 Treatment Plant**

Table 6-17: **2014 Chemical Mass Removed - San Gabriel Valley Water Company B5 Treatment Plant**

Table 6-18: **2014 Influent and Effluent Water Quality Data – California Domestic Water Company**

Table 6-19: **2014 Chemical Mass Removed – California Domestic Water Company**

Table 6-20: **2004 – 2014 Total Chemical Mass Removed By Year**

LIST OF FIGURES

Figure 1-1: BPOU Location Map

Figure 1-2: BPOU Extraction Well, Raw Water Pipeline, and Treatment Plant Location Map

Figure 3-1: BPOU Potentiometric Monitoring Network

Figure 3-2: BPOU Groundwater Quality Monitoring Network

Figure 5-1: LACO Key Well Hydrograph

Figure 5-2: MW 5-03 Well Hydrograph

Figure 5-3: MW 5-20 Well Hydrograph

Figure 5-4: Generalized Spring 2014 Potentiometric Surface above -500 feet msl

Figure 5-5: Generalized Spring 2014 Potentiometric Surface below -500 feet msl

Figure 5-6: Generalized Fall 2014 Potentiometric Surface above -500 feet msl

Figure 5-7: Generalized Fall 2014 Potentiometric Surface below -500 feet msl

Figure 5-8: Generalized Distribution of 1,4-Dioxane in Groundwater, 2014

Figure 5-9: Generalized Distribution of Carbon Tetrachloride in Groundwater, 2014

Figure 5-10: Generalized Distribution of N-Nitrosodimethylamine in Groundwater, 2014

Figure 5-11: Generalized Distribution of Perchlorate in Groundwater, 2014

Figure 5-12: Generalized Distribution of Tetrachloroethene in Groundwater, 2014

Figure 5-13: Generalized Distribution of Trichloroethene in Groundwater, 2014

Figure 5-14: Time-Concentration Trends for 1,4-Dioxane in Groundwater, 2014

Figure 5-15: Time-Concentration Trends for Carbon Tetrachloride in Groundwater, 2014

Figure 5-16: Time-Concentration Trends for N-Nitrosodimethylamine in Groundwater, 2014

Figure 5-17: Time-Concentration Trends for Perchlorate in Groundwater, 2014

Figure 5-18: Time-Concentration Trends for Tetrachloroethene in Groundwater, 2014

Figure 5-19: Time-Concentration Trends for Trichloroethene in Groundwater, 2014

Figure 6-1: 1,2-Dichloroethane Concentrations, Raw and Treated Water for Valley County Water District Lante Treatment Plant (2014)

Figure 6-2: 1,4-Dioxane Concentrations, Raw and Treated Water for Valley County Water District Lante Treatment Plant (2014)

Figure 6-3: Carbon Tetrachloride Concentration Concentrations, Raw and Treated Water for Valley County Water District Lante Treatment Plant (2014)

Figure 6-4: N-Nitrosodimethylamine Concentrations, Raw and Treated Water for Valley County Water District Lante Treatment Plant (2014)

Figure 6-5: Perchlorate Concentrations, Raw and Treated Water for Valley County Water District Lante Treatment Plant (2014)

Figure 6-6: Tetrachloroethene Concentrations, Raw and Treated Water for Valley County Water District Lante Treatment Plant (2014)

Figure 6-7: Trichloroethene Concentrations, Raw and Treated Water for Valley County Water District Lante Treatment Plant (2014)

Figure 6-8: Nitrate as NO3 Concentrations, Raw and Treated Water for Valley County Water District Lante Treatment Plant (2014)

Figure 6-9: 1,1-Dichloroethane Concentrations, Raw and Treated Water for Valley County Water District Lante Treatment Plant (2014)

Figure 6-10: 1,1-Dichloroethene Concentrations, Raw and Treated Water for Valley County Water District Lante Treatment Plant (2014)

Figure 6-11: Cis-1,2-Dichloroethene Concentrations, Raw and Treated Water for Valley County Water District Lante Treatment Plant (2014)

Figure 6-12: 1,1,1-Trichloroethane Concentrations, Raw and Treated Water for Valley County Water District Lante Treatment Plant (2014)

Figure 6-13: Sulfate as SO4 Concentrations, Raw and Treated Water for Valley County Water District Lante Treatment Plant (2014)

Figure 6-14: Chloroform Concentrations, Raw and Treated Water for Valley County Water District Lante Treatment Plant (2014)

Figure 6-15: 1,2,3-TCP Concentrations, Raw and Treated Water for Valley County Water District Lante Treatment Plant (2014)

Figure 6-16: 1,2-Dichloroethane Concentrations, Raw and Treated Water for La Puente Valley County Water District Treatment Plant (2014)

Figure 6-17: 1,4-Dioxane Concentrations, Raw and Treated Water for La Puente Valley County Water District Treatment Plant (2014)

Figure 6-18: Carbon Tetrachloride Concentrations, Raw and Treated Water for La Puente Valley County Water District Treatment Plant (2014)

Figure 6-19: N-Nitrosodimethylamine Concentrations, Raw and Treated Water for La Puente Valley County Water District Treatment Plant (2014)

Figure 6-20: Perchlorate Concentrations, Raw and Treated Water for La Puente Valley County Water District Treatment Plant (2014)

Figure 6-21: Tetrachloroethene Concentrations, Raw and Treated Water for La Puente Valley County Water District Treatment Plant (2014)

Figure 6-22: Trichloroethene Concentrations, Raw and Treated Water for La Puente Valley County Water District Treatment Plant (2014)

Figure 6-23: Nitrate as NO3 Concentrations, Raw and Treated Water for La Puente Valley County Water District Treatment Plant (2014)

Figure 6-24: Cis-1,2-Dichloroethene Concentrations, Raw and Treated Water for La Puente Valley County Water District Treatment Plant (2014)

Figure 6-25: Sulfate as SO4 Concentrations, Raw and Treated Water for La Puente Valley County Water District Treatment Plant (2014)

Figure 6-26: Chloroform Concentrations, Raw and Treated Water for La Puente Valley County Water District Treatment Plant (2014)

Figure 6-27: 1,2-Dichloroethane Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B6 Treatment Plant (2014)

Figure 6-28: 1,4-Dioxane Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B6 Treatment Plant (2014)

Figure 6-29: Carbon Tetrachloride Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B6 Treatment Plant (2014)

Figure 6-30: N-Nitrosodimethylamine Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B6 Treatment Plant (2014)

Figure 6-31: Perchlorate Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B6 Treatment Plant (2014)

Figure 6-32: Tetrachloroethene Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B6 Treatment Plant (2014)

Figure 6-33: Trichloroethene Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B6 Treatment Plant (2014)

Figure 6-34: Nitrate as NO3 Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B6 Treatment Plant (2014)

Figure 6-35: 1,1-Dichloroethene Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B6 Treatment Plant (2014)

Figure 6-36: Cis-1,2-Dichloroethene Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B6 Treatment Plant (2014)

Figure 6-37: Sulfate as SO4 Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B6 Treatment Plant (2014)

Figure 6-38: Chloroform Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B6 Treatment Plant (2014):

Figure 6-39: 1,2-Dichloroethane Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B5 Treatment Plant (2014)

Figure 6-40: 1,4-Dioxane Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B5 Treatment Plant (2014)

Figure 6-41: Carbon Tetrachloride Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B5 Treatment Plant (2014)

Figure 6-42: N-Nitrosodimethylamine Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B5 Treatment Plant (2014)

Figure 6-43: Perchlorate Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B5 Treatment Plant (2014)

Figure 6-44: Tetrachloroethene Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B5 Treatment Plant (2014)

Figure 6-45: Trichloroethene Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B5 Treatment Plant (2014)

Figure 6-46: Nitrate as NO3 Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B5 Treatment Plant (2014)

Figure 6-47: Chloroform Concentrations, Raw and Treated Water for San Gabriel Valley Water Company B5 Treatment Plant (2014)

Figure 6-48: 1,2-Dichloroethane Concentrations, Raw and Treated Water for California Domestic Water Company Treatment Plant (2014)

Figure 6-49: Carbon Tetrachloride Concentrations, Raw and Treated Water for California Domestic Water Company Treatment Plant (2014)

Figure 6-50: Trichloroethene Concentrations, Raw and Treated Water for California Domestic Water Company Treatment Plant (2014)

Figure 6-51: Tetrachloroethene Concentrations, Raw and Treated Water for California Domestic Water Company Treatment Plant (2014)

Figure 6-52: N-Nitrosodimethylamine Concentrations, Raw and Treated Water for California Domestic Water Company Treatment Plant (2014)

Figure 6-53: Perchlorate Concentrations, Raw and Treated Water for California Domestic Water Company Treatment Plant (2014)

Figure 6-54: Nitrate as NO3 Concentrations, Raw and Treated Water for California Domestic Water Company Treatment Plant (2014)

LIST OF APPENDICES

Appendix A: **Groundwater Plume Maps and Chemical Cross Sections**

Appendix B: **Time-Concentration Trends in Project Extraction Wells (2008 – 2014)**

LIST OF ACRONYMS AND ABBREVIATIONS

1,1-DCE	1,1-Dichloroethene
1,2-DCA	1,2-Dichloroethane
1,2,3-TCP	1,2,3-Trichloropropane
AAWC	Azusa Agricultural Water Company
AJ	Aerojet
ALR	Azusa Land Reclamation Company, Inc.
AMEC	AMEC Environment and Infrastructure, Inc. (formerly AMEC Geomatrix, Inc.)
ARARs	Applicable or Relevant and Appropriate Requirements
AVWC	Azusa Valley Water Company
bgs	below ground surface
BPOU	Baldwin Park Operable Unit
BPOUSC	Baldwin Park Operable Unit Steering Committee
CC	Conrock Company
CDM	Camp, Dresser, and McKee
CDWC	California Domestic Water Company
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
cis-1,2-dce	Cis-1,2-Dichloroethene
COC	Chemical of Concern
COI	City of Industry
CRs	Cooperating Respondents
DDW	California State Water Resources Control Board, Division of Drinking Water (formerly Department of Health Services [DHS]).
DQO	Data Quality Objectives
EDB	Ethylene Dibromide
EPA	U.S. Environmental Protection Agency
ERM	ERM-West, Inc.
ESD	Explanation of Significant Differences
FSAP	Field Sampling and Analysis Plan for Air and Wastewater Discharges
FSP	Field Sampling Plan for Groundwater

f.k.a	Formerly Known As
GAC	Granular Activated Carbon
gpm	gallons per minute
HLA	Harding Lawson Associates
ISEP	Calgon Ionic Separation Process
IX	Ion Exchange
LACO	Los Angeles County
LACFCD	Los Angeles County Flood Control District
LACDPW	Los Angeles County Department of Public Works
LACSD	Los Angeles County Sanitation Districts
LDC	Laboratory Data Consultants, Inc.
LPGAC	Liquid-Phase Granular Activated Carbon
LPVCWD	La Puente Valley County Water District
MCL	Maximum Contaminant Level
MICR	Maximum Individual Cancer Risk
MS	Matrix spike
MSD	Matrix spike duplicate
msl	Mean Sea Level
NDMA	N-Nitrosodimethylamine
NL	Drinking Water Notification Level
ng/L	Nanograms Per Liter
PCE	Tetrachloroethene
PE	Performance Evaluation
PHG	Public Health Goal
PRP	Potentially Responsible Party
PSEP	Performance Standards Evaluation Plan
PVOU	Puente Valley Operable Unit
QAPP	Quality Assurance Project Plan
QC	Quality Control
RFP	Request for Proposal

RFQ	Request for Qualifications
RI	Remedial Investigation
ROD	Record of Decision
RMSE	Root-mean squared error
RRF	Relative Response Factor
RWQCB	Regional Water Quality Control Board – Los Angeles Region
SA	Subarea
SCAQMD	South Coast Air Quality Management District
SGVWC	San Gabriel Valley Water Company
SOW	Statement of Work
SMR	Self-Monitoring Reports
SVOC	Semi-Volatile Organic Compound
SWS	Suburban Water Systems
TIC	Tentatively Identified Compound
TCE	Trichloroethene
UAO	Unilateral Administrative Order
µg/L	Micrograms Per Liter
UV	Ultraviolet
VCWD	Valley County Water District
VFD	Variable Frequency Drive
VOC	Volatile Organic Compound
VPGAC	Vapor-Phase Granulated Activated Carbon
WE	Water Entity
WY	Water Year

1. INTRODUCTION

This document presents the 2014 Annual Performance Evaluation (PE) Report for the Baldwin Park Operable Unit (BPOU) of the San Gabriel Valley Superfund Sites, located in the San Gabriel Basin, Los Angeles County, California. This report was prepared jointly by Geosyntec Consultants, Inc. (Geosyntec) and ERM-West, Inc. (ERM), on behalf of the BPOU Cooperating Respondents (CRs). The CRs are:

- Aerojet Rocketdyne, Inc. (formerly known as [f.k.a.] Aerojet-General Corporation);
- Azusa Land Reclamation Company, Inc. (ALR);
- Hartwell Corporation;
- Chemical Waste Management, Inc. (as successor to Oil and Solvent Process Company); and
- Winco Enterprises Inc. (f.k.a. Wynn Oil Company).

This report meets the requirements for the Annual PE Report, as required by Unilateral Administrative Order 2000-13 (UAO) and the supporting Statement of Work (SOW), issued by the U.S. Environmental Protection Agency (EPA) Region IX on June 30, 2000, and amended on February 28, 2002.

This PE Report is being submitted without the results of groundwater model simulations of extraction system performance for 2014. The BPOU groundwater model is currently being updated with recharge, pumping, and water level data through the end of WY 2013-14 (July 1, 2013 through June 30, 2014) and recalibrated to improve the match between simulated and observed groundwater levels. A description of the model updates, calibration of simulated water levels with observed water levels, and simulation results evaluating extraction system performance will be submitted to EPA under separate cover in the 3rd quarter of 2015.

1.1 Background

Beginning in 1979, volatile organic compounds (VOCs) were detected in groundwater within the San Gabriel Basin (the Basin). In May 1984, four areas of groundwater contamination were listed as San Gabriel Valley Areas 1-4 on EPA's National Priorities List based on available water quality data. Subsequent investigation by EPA and others revealed widespread VOC contamination in the Basin. As a result, EPA subsequently divided the Basin into seven Remedial Investigation (RI) areas to focus characterization on the extent of contamination and plan remedial actions. EPA later designated some of these RI areas as operable units. RI Area 5 was designated as the BPOU.

Although many of the figures provided in this report depict a generalized boundary to the area of impacted groundwater in the BPOU (Figure 1-1), the precise definition of the boundary of the BPOU has not been developed. The approximate BPOU boundary provides a point of reference on the figures.

Since 1986, EPA, various Potentially Responsible Parties (PRPs), and numerous other entities have compiled and evaluated groundwater quality data from the Basin. Initial field investigations conducted by EPA in the BPOU included the installation and sampling of one multiport monitoring well and the sampling of water-supply wells. In 1990, EPA issued a Basin-wide Technical Plan that described options for remediation of VOC plumes through the Basin. In 1992, EPA published an Interim RI Report for the Basin.

In 1993, EPA issued a Feasibility Study Report for the BPOU. This report evaluated various remedial alternatives for the remediation of groundwater in the BPOU. In 1994, EPA issued a Record of Decision (ROD) for the BPOU interim remedy. The ROD identified 17 chemicals of concern (COCs), all of which were VOCs. EPA's selected remedy consisted of pumping and treating approximately 19,000 gallons per minute (gpm) of contaminated groundwater. In approximately 1995, the Baldwin Park Operable Unit Steering Committee (BPOUSC) began to perform pre-remedial design activities, including additional characterization of the extent of VOC-contaminated groundwater and the development of a groundwater extraction plan. Eight multiport monitoring wells were installed and sampled, and 26 existing water-supply and monitoring wells were sampled to provide additional characterization of the extent of VOC contamination in the BPOU. The results of these pre-remedial design activities were submitted to EPA in the Draft Pre-Remedial Design Report, dated December 1996 (Camp, Dresser, and McKee [CDM], 1996). The groundwater extraction plan was revised on several occasions. Following review and comment by EPA, the Final Draft Pre-Remedial Design Report, dated September 1997 (CDM, 1997), was issued.

In mid-1997, and then again in 1998, certain constituents that were not previously considered as COCs in the ROD, including perchlorate, N-nitrosodimethylamine (NDMA), and 1,4-dioxane were discovered in groundwater within the BPOU. Consequently, EPA requested that the BPOUSC characterize the distribution of these constituents, as well as conduct further characterization of VOCs in groundwater within the BPOU. As a result, the BPOUSC installed and sampled four additional multiport monitoring wells and conducted additional groundwater sampling to evaluate the extent of VOCs, perchlorate, NDMA, and 1,4-dioxane in groundwater in the BPOU.

The results of these investigations and several groundwater extraction plan options were presented to EPA in the Draft Addendum to the Pre-Remedial Design Report, dated January 14, 1999 (Harding Lawson Associates [HLA], 1999). Throughout 1999, these groundwater

extraction plan options were refined, and new options were formulated. These changes were made in response to comments from EPA and the Main San Gabriel Basin Watermaster (Watermaster). This resulted in a range of candidate groundwater extraction plans with total groundwater extraction rates ranging from 19,500 to 21,500 gpm.

In May 1999, EPA issued an Explanation of Significant Differences (ESD) to supplement the 1994 ROD. The ESD depicted an expanded area of the groundwater contamination in the southern portion of the BPOU to reflect the results of the additional investigations related to the characterization of perchlorate, NDMA, and 1,4-dioxane in groundwater. The ESD also added perchlorate, NDMA, and 1,4-dioxane to the list of COCs defined in the ROD. In June 2000, EPA issued the UAO, requiring various PRPs (identified in the UAO as "Respondents"), including but not limited to the CRs, to design, construct, and operate the BPOU interim remedy identified in the ROD, as revised by the ESD. In addition, beginning in the late 1990s, various water agencies, producers, and other water entities (collectively, the "Water Entities" or "WEs") with regulatory oversight and/or financial or other interests in the BPOU groundwater filed lawsuits or asserted claims against the BPOU PRPs for damages allegedly suffered as a result of contamination of the groundwater and water-supply wells in the BPOU area. Thereafter, the CRs entered into negotiations with the WEs, which culminated in March 2002 with the CRs and WEs executing the BPOU Project Agreement to implement the BPOU Project. The BPOU Project Agreement was declared effective as of May 9, 2002.

While the BPOU Project Agreement negotiations were underway, the CRs prepared the Final Remedial Design/Remedial Action Work Plan and the Draft Final Conceptual Design Report for the implementation of the remedy (HLA, 2000a and HLA, 2000b). The Preliminary Design Report was prepared by the WEs and submitted to EPA in April, 2001 (Watermaster, 2001).

In January 2006, EPA's Remedial Project Manager notified the CRs that EPA was concerned about the detection of 1,2,3-trichloropropane (1,2,3-TCP) in certain wells within the BPOU. At that time this compound did not have a federal Maximum Contaminant Level (MCL) but did have a California state Drinking Water Notification Level (NL) of 5 nanograms per liter (ng/L).[1] In response, the CRs funded a further modification of the Valley County Water District (VCWD) Lante Treatment Plant to include Liquid-Phase Granular Activated Carbon (LPGAC) treatment to address EPA's concerns about the presence of 1,2,3-TCP.

In August 2006, EPA requested that the CRs include in the BPOU monitoring program additional sampling for non-COC VOCs and non-target volatile and semi-volatile compounds

[1] In August 2009, the State of California's Office of Environmental Health Hazard Assessment adopted a final Public Health Goal (PHG) for 1,2,3-trichloropropane of 0.7 nanograms per liter, or 0.0007 parts per billion. While DPH considers a PHG in setting a state MCL, to date no final MCL has been established.

(Tentatively Identified Compounds, or TICs) including 1,2,3-TCP (1,2,3-TCP was subsequently added as a COC). In response to EPA's request, the CRs provided a proposal for non-COC groundwater analysis and reporting in a technical memorandum dated August 24, 2006 (Geomatrix, 2006a). This proposal included the following:

- Information on sampling and analysis of 1,2,3-TCP;
- A proposal for reporting results for non-COC VOCs in a subset of multiport monitoring wells located upgradient of each groundwater extraction and treatment facility (i.e., "early warning" wells);
- A proposal for monitoring of non-target VOCs and semi-volatile organic compounds (SVOCs) in a subset of multiport monitoring wells located upgradient of each groundwater extraction and treatment facility (i.e., "early warning" wells); and
- A proposal for periodic analysis of 1,2,3-TCP in selected wells.

EPA approved the August 24, 2006 proposal in a letter dated September 13, 2006, subject to the addition of several wells. The complete requirements for non-COC groundwater analysis and reporting were summarized in a technical memorandum dated September 29, 2006 (ERM, 2006).

On October 3, 2006, EPA provided a letter approving the BPOU Quality Assurance Project Plan (QAPP) and Field Sampling Plan (FSP) subject to submittal of final versions of these documents with the complete requirements for non-COC groundwater analysis and reporting. Final versions of the QAPP and FSP for groundwater were submitted in November 2006 (Geomatrix, 2006b; Stetson, 2006a) and were approved by EPA in a letter dated February 12, 2007. The QAPP (Rev. 5) and FSP (Rev. 7) for groundwater were most recently updated in 2013 at the request of EPA (AMEC, 2013a and AMEC, 2013b). EPA approved the updated QAPP and FSP in a letter dated May 21, 2013.

In the February 12, 2007 letter, EPA also requested that a data management plan be prepared as an addendum to the QAPP. The report, Data Management Plan for the Baldwin Park Operable Unit Performance Standards Evaluation Plan Monitoring Program, was submitted to EPA on May 17, 2007 (Laboratory Data Consultants, Inc. [LDC] 2007).

A separate Field Sampling and Analysis Plan for Off-Gas Air, Waste Brine, and Treated Water (FSAP) was submitted to EPA on August 14, 2006 (Stetson 2006b) and the corresponding QAPP for Air, Brine, and Treated Water was submitted on March 16, 2007 (Geomatrix, 2007a). The CRs submitted a revised QAPP for air and wastewater discharges to the EPA in September of 2012 (AMEC, 2012a) and an updated FSAP was issued in July 2013 (Stetson, 2013b). The CRs submitted an addendum to the QAPP and FSAP for air and wastewater discharges to the EPA

on February 3, 2015 documenting a change in the analytical method for chemical oxygen demand (COD)(Geosyntec, 2015).

Numerous minor modifications have been proposed and approved for the BPOU PSEP monitoring program since 2007. In 2010, the QAPP for Groundwater (AMEC Geomatrix, 2010a), the FSP for Groundwater (AMEC Geomatrix, 2010b), and the Revised Final Performance Standards Evaluation Plan (PSEP) were updated (AMEC Geomatrix, 2010c) to incorporate the modifications that were approved after the previous versions of these documents were issued. An updated version of the PSEP (Rev. 3) was submitted to EPA on April 13, 2012 (AMEC, 2012b) to address comments received from EPA on July 1 and October 12, 2011. EPA provided comments and requested additional modifications to the PSEP in e-mail correspondence dated September 21, 2012, November 28, 2012, February 28, 2013, and March 8, 2013. As a result, a revised version of the PSEP (Rev. 4) was prepared to address EPA comments including the addition of 1,2,3-TCP as a COC, clarification of monitoring and reporting requirements for non-COCs such as ethylene dibromide (EDB), and the modification of remedial action objectives outlined in Sections 2.2.1 and 2.2.2 (AMEC, 2013c). EPA approved the revised PSEP in a letter dated May 21, 2013. Modifications to the various monitoring components of the PSEP are described in detail in Section 3.0 of this report.

1.2 Overview of Remedial Action

The UAO and SOW direct the Respondents to design, construct, and implement the remedy described in the ROD and ESD, and to achieve the Performance Standards in accordance with the UAO. In a letter to the CRs dated February 28, 2002, EPA confirmed that CR funding of the implementation of the BPOU Project Agreement described in Section 1.1 above provided the CRs with a means to satisfy the requirements of the UAO. The WEs (either directly or through contractors) designed the groundwater extraction and treatment facilities (Subprojects), and construction related to the initial design work has been completed. The WEs are now operating the Subprojects which provide for groundwater extraction and treatment in two general areas of the BPOU (Figure 1-2). The treated groundwater is supplied for direct potable use.

In 2000, the EPA approved groundwater extraction plan associated with the various Subprojects consisted of the extraction of a total of 21,000 gpm of groundwater on annualized basis: 6,000 gpm from the northern portion of the plumes (Subarea 1), and 15,000 gpm from the southern portion of the plumes (Subarea 3)(EPA, 2000). During remedial design activities, the groundwater extraction plan was refined to include an additional 750 gpm in Subarea 3 resulting in a total 15,750 gpm. In January 2015, EPA requested that the extraction plan for Subarea 3 be expanded to include an additional 8,000 gpm from the California Domestic Water

Company (CDWC) Bassett Wellfield, increasing the extraction plan for Subarea 3 to 23,750 gpm (EPA, 2015) and total project extraction to 29,750 gpm.

Extracted groundwater is to be treated using a treatment train that is designed to remove all COCs to levels acceptable for direct potable use. The treatment train varies among the treatment plants but generally consists of a series of contaminant treatment processes including air stripping and/or LPGAC to remove VOCs, ion exchange (IX) to remove perchlorate, and ultraviolet (UV)/oxidation to remove 1,4-dioxane and NDMA.

1.3 Summary of Remedial Action Objectives and Performance Standards

Two of the key performance standards are defined in the UAO as follows:

> *The remedial objectives of the Baldwin Park OU are to prevent future increases in, and begin to reduce concentrations of trichloroethene, tetrachloroethene, carbon tetrachloride, and other VOCs, along with perchlorate, N-nitrosodimethylamine, and 1,4-dioxane in groundwater in the Baldwin Park area (hereafter referred to as contaminants or contaminated groundwater) by limiting further migration of contaminated groundwater into clean and less contaminated areas or depths that would benefit most from additional protection and by removing contaminants from the aquifer.*

The BPOU Project involves the design, installation, operation, and maintenance of groundwater extraction systems in two areas of the BPOU. The two areas are designated in the ROD and ESD as Subarea 1 (the upper area) and Subarea 3 (the lower area). Remedial objectives for the two Subareas are described below.

1.3.1 Subarea 1 Remedial Objectives

In Subarea 1, the movement of COCs in groundwater will be limited by groundwater extraction at rates and locations that will establish the necessary groundwater flow field, such that the resultant capture zone limits migration from known or suspected source areas and depths and removes chemical mass. Source areas and depths include locations believed to contain a significant mass of soil contamination (i.e., vadose zone) or a subsurface source of dissolved-phase groundwater contamination. The capture zone is to include all significant depth intervals where COC concentrations exceed MCLs. As part of the groundwater extraction process, chemical mass will be removed from Subarea 1 groundwater.

1.3.2 Subarea 3 Remedial Objectives

In Subarea 3, the movement of COCs in groundwater will be limited by groundwater extraction at rates and locations that will establish the necessary groundwater flow field to reduce the potential for groundwater containing unacceptable concentrations of tetrachloroethene (PCE), trichloroethene (TCE), carbon tetrachloride, perchlorate, NDMA, 1,4-dioxane or other COCs

from moving into areas where these chemicals are not present in unacceptable concentrations. Subarea 3 groundwater extraction is to result in a hydraulic capture zone that includes all significant depth intervals where COC concentrations exceed MCLs. As part of the groundwater extraction process, chemical mass will be removed from Subarea 3 groundwater.

1.3.3 Performance Standards

Two distinct performance standards have been derived from the Remedial Objectives cited above: 1) limit further migration of COCs in groundwater, and 2) remove COCs from groundwater. Achievement of these performance standards will prevent future increases in concentrations, begin to reduce concentrations, and prevent the spread of COCs from more contaminated areas to less contaminated areas. These two performance standards are described in more detail below.

1.3.3.1 Performance Standard 1 - Limit Migration of Chemicals of Concern

The BPOU extraction plan was developed using an EPA-approved three-dimensional finite-element groundwater flow model, DYNFLOW. In 2002, the model was updated using a similar code, FEFLOW. The construction and calibration of this model rely on many years of data collection activities in the BPOU, including water level measurements and water quality sampling. The model was initially calibrated using water level data from a 20-year period (1982 to 2002). Following calibration, the model was run in a forward/predictive manner to select locations and depths of groundwater extraction wells that would allow the remedy to achieve the objectives described above. Review of geophysical logs from exploratory borings at the extraction well locations as well as logs from other wells in the BPOU suggested the presence of relatively thick, fine-grained layers that can be correlated across Subarea 3 but do not extend north to Subarea 1. These layers are present at approximately -200 and -500 feet mean sea level (msl). As a result, the well-screened intervals for new extraction wells in Subarea 3 were designed so that they could capture the entire vertical extent of contaminated groundwater without creating hydraulic connections across these layers. Therefore, shallow extraction wells were screened above the layer at -500 feet msl and deep extraction wells were screened below the layer at -500 feet msl. Aquifer testing in the extraction wells confirmed that the layer at -500 feet msl acts as a confining unit that provides hydraulic separation between the shallow and deep elevation intervals. In 2005, the groundwater flow model was modified to incorporate the confining units in Subarea 3. The groundwater flow model is updated annually with quarterly pumping and recharge data that are compiled from various sources. The CR group will continue to make refinements to the groundwater model to incorporate the results of water-level monitoring and other information to ensure the model adequately simulates observed groundwater conditions in the BPOU. Updates and refinements to the groundwater model are reported in Annual PE Reports as necessary. The calibrated

model is the primary tool that is utilized to assess system performance in terms of limiting the migration of COCs.

1.3.3.2 Performance Standard 2 - Removal of Chemical Mass

This performance standard will be met through extraction and treatment of groundwater from the BPOU plumes. Documentation of the removal of chemical mass will use measured flow rates from groundwater extraction wells and results of water quality sampling and analysis for these same extraction wells. Using these data, the mass removal for selected COCs will be estimated on an annual basis. Cumulative chemical mass removed from the aquifer will also be reported.

1.4 Approach to Performance Monitoring and Evaluation

Performance monitoring and evaluation focuses on the operation of the groundwater extraction system to meet and satisfy the perfomance standards of 1) limiting further migration of groundwater contamination into less contaminated areas, and 2) removing chemical mass from groundwater. As described in the PSEP (AMEC, 2012b), the CRs' approach to performance monitoring relies upon: 1) past and future basin-wide groundwater monitoring activities performed by the Watermaster, 2) performance monitoring data collected by the Water Entities, the CRs, or other agents acting on behalf of the CRs, and 3) the use of an EPA-approved groundwater flow model to predict the effectiveness of the groundwater extraction system. At any time, should EPA determine that Performance Standards related to migration control and mass removal are not being met, the CRs will use these same methods of data collection and modeling to modify operation of the groundwater extraction system such that Performance Standards are achieved.

Watermaster basin-wide monitoring activities have served as the baseline monitoring program from which additional monitoring needs have been defined. The Watermaster has the responsibility to ensure that comprehensive water quality monitoring meets their court-decreed mission of managing Basin water production and quality, provides for predictive vulnerability assessments, and provides for monitoring so that California State Water Resources Control Board, Division of Drinking Water [DDW; formerly the Department of Health Services (DHS)] requirements for public water supplies are met. The Watermaster performs routine basin-wide water level monitoring on a semi-annual basis.

In summary, the approach to performance monitoring and evaluation consists of the following, components:

- Potentiometric head measurements in BPOU piezometers and multiport monitoring wells. These data are used to generate potentiometric surface maps for comparison to model simulation results;

- Groundwater flow modeling and particle tracking to evaluate hydraulic performance of the extraction system as it relates to limiting further migration of groundwater contamination;
- Water quality sampling of production and multiport monitoring wells to provide information on the distribution of (COCs) in BPOU groundwater, specifically to produce plume maps;
- Integration of the results of groundwater modeling with current plume maps and known source locations to determine whether the groundwater extraction systems are appropriately limiting the migration of COCs; and
- Water quality sampling and measurement of extraction well pumping rates and production volumes; and
- Use of flow rate and water quality data from extraction wells to calculate the mass of COCs removed from the aquifer by the extraction and treatment system.

1.5 Content of Performance Evaluation Reports

As outlined in the PSEP, the Annual PE Reports should generally contain the following:

- Potentiometric maps to assist in evaluating changes in groundwater flow patterns in the BPOU;
- Groundwater plume maps and chemical cross sections and an evaluation of any changes in the extent of groundwater contamination within the BPOU;
- Time-concentration plots for selected COCs for selected monitoring wells;
- Contaminant mass removal estimates for each extraction well using average flow rates and water quality sampling results from the extraction wells;
- Results of computer model simulations of extraction system performance and a description of any refinements to groundwater flow models used to evaluate system performance;
- An overall assessment of remedial system performance compared to the Performance Standards related to the remediation of groundwater; and
- Recommendations for changes to the monitoring program described in the PSEP including changes to the monitoring frequency and monitoring locations.

As outlined in the most recent version of the PSEP (Revision 4), EPA has requested that Annual PE Reports also address the performance of the BPOU Project in relation to “Other

Performance Standards" that are not directly related to the remediation of groundwater, but rather relate to the operational performance of, or discharge requirements for, the various Subprojects following construction. These "Other Performance Standards" include the following:

- Achievement of treated-water effluent requirements in accordance with DDW domestic water supply permits, EPA Applicable or Relevant and Appropriate Requirements (ARARs), and other DDW requirements;
- Air-emission monitoring requirements in accordance with EPA ARARs and the risk limits identified in the June 15, 2009 letter from Wayne Praskins, EPA to Scott Goulart, Aerojet as further explicated in EPA's February 3, 2011 letter;
- Monitoring and reporting of brine discharges to the Los Angeles County Sanitation Districts (LACSD) system in accordance with industrial waste discharge permits;
- Demonstration of proper disposal of waste associated with treatment operations. Applicable waste streams include, but are not limited to, spent granular activated carbon (GAC) and spent IX resins. Wastes treated or disposed of offsite must comply with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) offsite rule;
- Compliance with substantive portions of the National Pollutant Discharge Elimination System (NPDES) discharge requirements for any treated water discharged to surface water;
- Compliance with the Los Angeles Regional Water Quality Control Board's Water Quality Control Plan for the Los Angeles River Basin (the "Basin Plan"), which incorporates State Water Resources Control Board Resolution No. 68-16, "Statement of Policy with Respect to Maintaining High Quality of Waters in California," for any discharge to land, including groundwater recharge over a spreading basin or discharge to surface water;
- The installation and operation of treatment systems necessary to ensure that the nitrate concentration in any discharge to land, to a spreading basin, or to a surface water is similar to or lower than the concentration in the receiving water, except for EPA-approved CERCLA Section 104(b) activities that will result in temporary high flow, high volume discharges;
- Compliance with substantive requirements in 22 CCR Sections 66264.601-66264.603 for miscellaneous units and related substantive closure requirements in 22 CCR Sections 66264.111-66264.115 for air strippers or GAC contactors; and

- Compliance with DDW requirements for Emergency Preparedness Plans including Spill/Release Response Plans for the various subprojects.

2. STATUS OF REMEDIAL ACTIONS

This section presents the status of remedial actions undertaken in 2014 to implement the BPOU interim remedy. These actions include operation of the Valley County Water District (VCWD) Lante Subproject in Subarea 1, and operation of the La Puente Valley County Water District (LPVCWD) Subproject, the San Gabriel Valley Water Company (SGVWC) B6 Subproject, the SGVWC B5 Subproject, and the California Domestic Water Company (CDWC) Treatment Plant in Subarea 3. The status of the BPOU Subprojects is also described in the monthly progress reports submitted to EPA pursuant to Paragraph 85, Section XV of the UAO.

2.1 Subarea 1 Remedial Action Status

Subarea 1 remedial actions consist of groundwater extraction from the VCWD SA1-1, SA1-2, and SA1-3 (Lante) wells and treatment at the VCWD Lante Treatment Plant, which is owned and operated by VCWD. The report, “Revised Draft Interim Remedial Action Report” (Stetson, 2005), prepared and submitted to EPA in March 2005, provides a summary of the VCWD Lante Subproject background, construction, and completion activities. Construction of the VCWD Lante Treatment Plant began in 2002 and was completed in 2005. The original construction activities included drilling and equipping two new extraction wells (SA1-1 and SA1-2), re-equipping the SA1-3 (Lante) well, installing associated piezometers, constructing raw and treated water pipelines, and constructing the treatment plant. Additional construction work in 2006 and 2007 included adding LPGAC treatment and replacing the resin-based vapor control system with vapor-phase granular activated carbon (VPGAC). The treatment plant consists of four air-stripping towers and associated VPGAC off-gas treatment units for VOC removal, LPGAC for 1,2,3-TCP removal, two regenerable IX carousels (Calgon Ionic Separation Process [ISEP]) for perchlorate removal, and four UV/oxidation units (UVTerra) for 1,4-dioxane and NDMA removal. Treated water is conveyed via a treated water pipeline to the Suburban Water Systems (SWS) Plant 121; however, a portion of the treated water can be directed to the VCWD distribution system if desired.

On November 11, 2005, DDW issued domestic water supply Permit Amendment 1910009PA 003, authorizing VCWD to operate the VCWD Lante Treatment Plant. In January 2006, 1,2,3-TCP was detected in the VCWD extraction wells and subsequent testing confirmed the presence of 1,2,3-TCP. Beginning on February 21, 2006, VCWD began discharging treated water to Big Dalton Wash while a 1,2,3-TCP treatment technology was selected and constructed. LPGAC was selected as the treatment technology and the design and construction of a LPGAC system was completed in Spring 2007. LPGAC startup testing was completed in May 2007 and on July 18, 2007, DDW issued an amended permit to VCWD to resume delivering potable water.

As a result of operational problems, the resin-based off-gas control system was removed and replaced with VPGAC. A temporary VPGAC system was installed while a permanent system was designed and constructed. The temporary system was operational in June 2007 and the permanent system became fully operational in April 2008. The permanent VPGAC system consists of four 20,000 pound adsorbers with associated heaters operated in parallel.

The air strippers also experienced operational problems with calcium carbonate precipitation in the towers and packing. Tower cleaning was initiated in October 2007 and was completed in February 2008. A study was conducted to evaluate precipitation mitigation alternatives that included anti-scalant dosing, acid cleaning, and packing replacement. Anti-scalant testing began in October 2008 and is on hold pending resolution of potential impacts to downstream treatment processes and final decisions for nitrate management. One air stripper was acid washed in December 2008 to test the efficacy and cost of this alternative. The results of the acid wash testing were summarized in a February 18, 2009 memorandum “Summary and Evaluation Air Stripper No. 4 Acid Cleaning” (Stetson 2009). Based on the pilot testing, the acid washing was not a cost effective method to mitigate calcium carbonate precipitation problems. Air strippers are now routinely inspected and the towers and packing cleaned and replaced as necessary.

The process to replace the ISEP with single pass IX was initiated in 2008. A request for proposal was released in January 2008 and bids were received and evaluated in April and May of 2008. The work was awarded to RC Foster and a notice to proceed was issued in August 2008. California Environmental Quality Act (CEQA) work associated with the single pass IX was completed in September 2008 and design work was completed in early 2009. As part of the ISEP replacement work, nitrate treatment alternatives were also evaluated (Malcolm Pirnie, 2008).

Design and construction of the single pass IX system was completed in 2009. The associated booster pump upgrade was completed in November 2009. Start-up testing of the single pass IX system is on hold until issues regarding nitrate treatment, ISEP by-pass configurations, and ISEP modifications are evaluated and resolved. In October 2010, VCWD and the CRs released a Request for Qualifications (RFQ) requesting process engineering and nitrate management qualifications to selected engineering firms. Qualifications were received, reviewed, and CDM Smith was selected to provide process treatment and nitrate management engineering expertise. CDM Smith began reviewing nitrate management alternatives in 2011 and a report with recommendations was submitted in March of 2012. Per the CRs request, CDM submitted an addendum to their report on nitrate management in November of 2012, summarizing alternatives which include blending using the Lante two million gallon reservoir.

The CRs also submitted an evaluation of extraction system performance for Subarea 1 in August 2012 (CDM Smith, 2012). In a letter dated December 12, 2012, EPA approved the proposed groundwater extraction plan of 5,000 gpm extraction at the SA1-3 location and 1,000 gpm extraction at the SA1-1 well and concluded that this provides adequate hydraulic containment while optimizing mass removal in Subarea 1. VCWD evaluated various options to increase production at the Lante Treatment Plant including a new well, reactivating the Arrow well, and upgrading the Lante well (Civiltec Engineering Inc. [Civiltec] 2013). In 2013 and early 2014, VCWD and the CRs agreed on a plan to implement nitrate management using one ISEP table, ISEP bypass and related work, and the installation of a new well at the Lante Treatment Plant.

On March 13, 2014, the BPOU Project Committee approved the Joint Proposed Conceptual Plan Relative to Nitrate Management and a Notice to Proceed was issued to the engineering contractor to proceed with the modifications at the end of March 2014. VCWD has submitted all design documents to DDW for review and compliance with the Prop 84 grant funding agreement. DDW approved the submittals in the fall of 2014. Modifications are currently in progress. Proposition 84 funding for the nitrate management work was approved in late 2014 and work will be implemented in 2015. In addition, on February 13, 2014, the BPOU Project Committee approved the development and construction of a new extraction well at the treatment plant site. Other VCWD Lante Treatment Plant improvements or evaluations initiated in 2014 included:

- In April, programming changes were made for the acid system upgrade;
- The 7% brine pump, RG pump #1 motor, and chlorine pump were replaced in July;
- Replacement of the SA1-1 VFD fan was performed in October; and
- Repair work on SA1-3 began in November and is anticipated to be completed in early 2015.

Technical performance reports are prepared under Provision 42 of the DDW operating permit and are required to be submitted annually to DDW. The most recent of these reports, “2014 Annual Technical Performance Report for the Lante Plant” (Stetson, 2015b), was submitted in March 2015 and describes the status and performance of the VCWD Lante Treatment Plant for the period January 1, to December 31, 2014. In addition, VCWD submits monthly compliance reports to DDW; these compliance reports are included in the monthly progress reports provided to EPA.

In 2014, VCWD treated 4,294 acre-feet of water with an average flow rate of 2,656 gpm (Table 2-1), primarily from SA1-3. Rehabilitation of Well SA1-2 was completed in January of 2012 and redevelopment performed in March 2012; however, the well has not yet been put back into

service. The average flow rate during 2014 is approximately 44.3 % of the approved extraction rate of 6,000 gpm. Production decreased from the prior year's average flow rate of 2,972 gpm and remained below the EPA-approved extraction rate. On December 12, 2012, EPA approved modifications to the SA1 Extraction plan; the new approved extraction rates are 5,000 gpm from SA1-3 and a new well to be located near the SA1 Treatment Plant, 1,000 gpm from SA1-1, and 0 gpm from SA1-2.

2.2 Subarea 3 Remedial Action Status

Subarea 3 remedial actions consist of the operation of the LPVCWD, SGVWC B6, and SGVWC B5 Subprojects. These Subprojects are to extract and treat an average flow rate of 16,250 gpm (design capacity 18,100 gpm) as discussed below. On January 15, 2015, EPA modified the Subarea 3 extraction plan to include 8,000 gpm of extraction from the CDWC Bassett Wellfield. As a result, the operation of the CDWC Bassett Wellfield and associated treatment facilities are also discussed below in Section 2.2.4.

2.2.1 La Puente Valley County Water District Subproject Status

The LPVCWD Subproject extracts, treats, and delivers water to the public under a DDW permit that was issued on February 15, 2001, and amended as Permit No. 1910060PA-000 issued on May 8, 2002 with subsequent amendments. The LPVCWD Subproject consists of extraction wells LPVCWD 2, LPVCWD 3, LPVCWD 5, two air strippers and associated off-gas treatment for VOC removal, single pass IX (replacing ISEP in July 2010) for perchlorate removal, and UV/oxidation (UVTerra) for 1,4-dioxane and NDMA removal operating at a capacity of up to 2,500 gpm (EPA approved extraction rate is 2,250 gpm). Treated water is conveyed to LPVCWD's distribution system and, when available, a portion of the treated water is also provided to SWS.

To address sanding problems in LPVCWD 2 and 3, a new well, LPVCWD 5, was drilled and installed in 2007. The LPVCWD 5 well was equipped, developed, and tested in 2008. On December 19, 2008, DDW issued an amended permit to allow LPVCWD 5 to be used as a drinking water source. The well became operational in January 2009 and is LPVCWD's primary water supply well, with LPVCWD 2 and 3 used as backup water supply wells. The LPVCWD 5 well installation activities are summarized in "Well No. 5 Well Completion Report" prepared by Stetson and submitted in final on July 2, 2008 (Stetson 2008). DDW issued a permit amendment for the operation of the LPVCWD 5 well on December 19, 2008.

To mitigate perchlorate-bearing brine discharges to the LACSD brine line, the LPVCWD Subproject Committee approved replacing the ISEP with single pass IX equipment. The single pass IX system was designed and construction was completed in 2009. A draft Compliance Test Plan and Operation, Maintenance, and Monitoring Plan for the single pass IX were prepared

and submitted to DDW for review. In June 2009, the EPA issued a letter supporting temporary discharges of water during startup testing of the new single-pass IX system to the Walnut Wash. The Los Angeles County Department of Public Works (LACDPW) issued a discharge permit for LPVCWD on November 17, 2009. The IX system was tested during startup activities in December 2009. The DDW issued an amended permit for the single pass IX system on June 15, 2010 and the system became operational on July 30, 2010.

Technical performance reports are prepared under Provision 33 of the DDW operating permit and are required to be submitted annually to DDW. The most recent of these reports, "Annual Report (2013 – 2014) for the La Puente Valley County Water District Treatment Facility" (Stetson, 2015a), was submitted in March 2015 and describes the status and performance of the LPVCWD facility for the period August 1, 2013 to July 31, 2014. In addition, LPVCWD submits monthly compliance reports to DDW; these compliance reports are included in the monthly progress reports provided to EPA.

Treatment system improvements or evaluations initiated in 2014 included:

- During February and March LPVCWD completed the change out of the packing material of Air Strippers No. 1 and No. 2;
- An inspection of the chemical feed system was performed in May; and
- Repairs of the chlorine feed line were made in October.

In 2014, approximately 3,087 acre-feet of groundwater were extracted and treated equating to an average annual flow rate of 1,911 gpm (Table 2-1). This average annual flow rate was approximately 84.9% of the EPA approved extraction rate of 2,250 gpm. This was below last year's production of 3,536 acre-feet and 2,192 gpm. The reduced production was primarily due to reduced airflow through the vapor phase carbon units. LPVCWD is currently evaluating alternatives to improve the efficiency of the vapor phase carbon units.

2.2.2 San Gabriel Valley Water Company B6 Subproject Status

The SGVWC B6 Subproject remedial action consists of groundwater extraction from the SGVWC B25A, B25B, B26A, and B26B wells (with B6C and B6D included as backup wells) and treatment at the SGVWC B6 Treatment Plant, which is owned and operated by SGVWC. Construction of the SGVWC B6 Subproject began in 2002 and the SGVWC B6 Treatment Plant was completed in 2005. Construction activities included drilling, installing, and equipping the new extraction wells, installing associated piezometers, constructing raw and treated water pipelines, and constructing the treatment plant. The treatment plant consists of four air-stripping towers and associated carbon off-gas treatment units for VOC removal, two ISEP carousels for perchlorate removal, and four UV/oxidation units (UVTerra) for 1,4-dioxane and

NDMA removal. Treated water is conveyed to the SGVWC distribution system. The "Interim Remedial Action Report" (Stetson, 2004) prepared and submitted to EPA in September 2004 provides a summary of SGVWC B6 Subproject background, construction, and completion activities.

On June 8, 2005, DDW issued domestic water supply Permit Amendment No. 1910039PA-002, authorizing SGVWC to operate the SGVWC B6 Treatment Plant using the existing onsite B6C and B6D wells. SGVWC began delivering potable water from the SGVWC B6 Treatment Plant to customers on July 12, 2005. The permit was further amended by DDW with Permit Amendment No. 1910039-004 on February 17, 2006, to incorporate the operation of offsite wells B25A, B25B, B26A, and B26B.

To mitigate perchlorate-bearing brine discharges to the LACSD brine line, the SGVWC B6 Subproject Committee approved replacing the ISEP with single pass IX equipment. The single pass IX design was initiated in June 2008. Since there is limited space at the SGVWC B6 Treatment Plant, the IX equipment was constructed on three properties that were purchased on the north side of Corak Street. Geotechnical work was completed on the properties in July 2008 and existing structures were demolished in the fall of 2008. CEQA work related to the IX project was filed and the public review process closed on October 6, 2008, without any comments received. Construction of the single pass IX system was completed in November 2009. The new IX system was integrated into the treatment system in March and April of 2013 and startup testing was initiated in May 2013. SGVWC received the DDW permit for the single pass IX system on August 25, 2014 and began serving water into their distribution system on September 5, 2014.

On November 1, 2010, SGVWC issued an RFP to selected engineering firms to provide design services for an IX system to treat nitrate. SGVWC awarded the contract to Worley Parsons for the design of additional treatment for nitrates at the B6 treatment plant. The nitrate treatment system design for the B6 treatment plant was submitted to City of Baldwin Park for review in September 2011. WQA received approval for project funding under Proposition 84 in June of 2012 and coordinated with DDW to receive the actual contracts and finalize the funding amounts. In early 2013, SGVWC purchased the remaining parcels that will house the nitrate IX equipment. The CEQA requirements were completed in 2013. SGVWC completed the design of the additional IX treatment system for nitrates at the B6 treatment plant and construction began in October 2014.

Technical performance reports are prepared under Provision 15 of the DDW operating permit and are required to be submitted annually to DDW. The most recent report, "Technical Performance Report (2011-2012) for Plant B6 Water Treatment Facility" (Stetson, 2014a), was submitted in January 2014 and describes the status and performance of the SGVWC B6

Treatment Plant for the period April 1, 2011 to March 31, 2012. Subsequent technical performance reports for the period April 1, 2012 to March 31, 2014 are currently in draft and have not yet been submitted to DDW. SGVWC also submits monthly compliance reports to DDW; these compliance reports are included in the monthly progress reports provided to EPA.

Treatment system improvements or evaluations initiated in 2014 included:

- Pipe disinfection was performed in July; and
- In September, SGVWC inspected, repaired and replaced components of the Air Strippers and the off-gas heaters. However, Air Stripper No. 2 continued to have problems. SGVWC continued to evaluate the off-gas heater failures on Air Stripper No. 2 and develop recommendations to repair or replace the heaters.

The SGVWC B6 treatment plant was put in recirculation mode beginning August 29, 2013 at the request of Los Angeles County Flood Control District (LACFCD) to terminate discharge to the channel due to soft-bottom cleanup in the channel. The SGVWC B6 treatment plant did not resume discharging to Walnut Creek Wash until April 14, 2014.

In 2014, the SGVWC B6 Subproject extracted and treated approximately 6,551 acre-feet of water equating to an average annual flow rate of 4,042 gpm (Table 2-1). This average annual flow rate was 62.2% of the EPA-approved extraction rate of 6,500 gpm. This was an increase from the prior year's annual average flow rate of 2,784 gpm. The 2014 production problems were due primarily to the inability to discharge to the channel until April 2014 and the prolonged DDW review of the water supply permit which was amended to include the new single pass IX system. Additionally, production in December was 78 percent of the 6,500 gpm target flow rate due to the forced reduction of flow from B25A and B26A wells in order to keep nitrate level below 35 mg/L and to the B25A and B25B wells being out of service during the relocation of the 24-inch pipeline to accommodate widening of the freeway.

It is anticipated that production rates will meet the EPA approved extraction rate when the IX treatment system for nitrates is complete.

2.2.3 San Gabriel Valley Water Company B5 Subproject Status

The SGVWC B5 Subproject remedial actions consist of groundwater extraction from the SGVWC B5B, B5E, and City of Industry (COI) 5 wells and treatment at the SGVWC B5 Treatment Plant, which is owned and operated by SGVWC. In addition, the SGVWC B5D well is used as a standby water source. The treatment plant consists of LPGAC for VOC removal, single-pass IX for perchlorate removal, and UV/oxidation units (UVPhox) for 1,4-dioxane and NDMA removal. The "Interim Remedial Action Report" (Stetson, 2006c) prepared and submitted to EPA in

September 2006 provides a summary of SGVWC B5 Subproject background, construction, and completion activities. Construction was largely completed in early 2007.

Startup testing conducted to support permitting was completed in March 2007 and DDW issued amended drinking water permit 1910039PA-008 for the B5 Treatment Plant on April 21, 2008. SGVWC began delivering potable water to its system on July 8, 2008. Prior to delivering potable water, extracted water was treated and discharged to the San Gabriel River. The DDW issued a permit amendment to allow for the addition of the COI 5 well in July 2009. The COI 5 well went online in July 2009.

Technical performance reports are prepared under Provision 53 of the DDW operating permit and are required to be submitted annually to DDW. The annual report, "Technical Performance Report for the San Gabriel Valley Water Company Plant B5 Water Treatment Facility" (Stetson, 2014b), was submitted in January 2014 and describes the status and performance of the SGVWC B5 Treatment Plant for the period July 1, 2011 to June 30, 2012. Subsequent technical performance reports for the period July 1, 2012 to June 30, 2014 are currently in draft and have not yet been submitted to DDW. In addition, SGVWC submits monthly compliance reports to DDW; these compliance reports are included in the monthly progress reports provided to EPA.

Treatment system improvements or evaluations initiated in 2014 included:

- In January, the motor on Well B5B was repaired and placed back into service and a new motor was installed on Well B5E;
- Forty feet of well column, tubing and shaft was added to B5B between March 31 and April 2;
- The UV sleeves were cleaned during the end of April and beginning of May; and
- In July, SGVWC tightened all septa inside resin vessel 800 to repair resin leakage, disinfected the vessel, and collected water quality samples before placing it back online.

In 2014, the SGVWC B5 Subproject extracted and treated approximately 10,550 acre-feet of water equating to an average flow rate of 6,546 gpm (Table 2-1). This was approximately 93.5% of the EPA-approved extraction rate of 7,000 gpm. Production decreased from last year (11,348 acre-feet and 6,546 gpm). The production decrease was due mainly to declining water levels, the pump bowls wearing on Wells B5B and B5E, and back pressure on resin vessels 200 and 400 installed with Purolite gel-type resins.

2.2.4 California Domestic Water Company Status

The CDWC Bassett Wellfield consists of groundwater extraction from six extraction wells (Wells 2, 3, 5A, 6, 8, 14). A seventh well (Well 10) has been installed, but is not yet operational. CDWC supplies water to about 400 domestic connections, a plant nursery, two schools, and three water wholesalers, which include the City of La Habra (La Habra), the City of Brea (Brea), and SWS. The CDWC provides a prescribed entitlement of water from the Main San Gabriel Basin to each of its member agencies who own or lease stock in the company.

Groundwater produced by wells within CDWC Bassett Wellfield require treatment due to presence of VOCs, NDMA and perchlorate. On December 31, 1999, DDW issued Permit No. 04-15-99P-032 to CDWC to operate two air stripping towers to remove VOCs from wells at the Bassett Wellfield. On September 12, 2001, DDW issued Permit Amendment No. 04-15-01-PA-000 to CDWC to operate an UV light/oxidation treatment facility (UVPhox) to remove NDMA from CDWC Well No. 14. On July 17, 2002, DDW issued Permit Amendment No. 1910199PA-001 to CDWC for an IX treatment facility to remove perchlorate from wells at the Bassett Wellfield. On May 30, 2003, DDW issued Permit Amendment No. 1910199-PA-002 to CDWC to expand the VOC treatment facility at the Bassett Wellfield. On April 15, 2005, DDW issued Permit Amendment No. 1910199PA-003 to CDWC to replace the UV light/oxidation treatment facility with a more efficient UV light treatment facility and install an additional 5,000 gpm UV light/oxidation (UVPhox) treatment unit for Well No. 3 for the removal of NDMA.

Wells 3 and 14 receive treatment from the IX system, which removes perchlorate, and the UVPhox system, which removes NDMA. That treated water is then blended in a wet well with water from Wells 5A and 6 and VOCs are removed using air stripping towers. The treated water is then blended with water from Wells 2 and 8, which do not receive treatment, and is chlorinated and delivered to a 5 million gallon (MG) reservoir. The wells are operated such that a lead well is operated full-time and the other wells are added in the following order to provide additional water – Well 3, 5A, 6, 14, 2, then 8. The lead well is currently Well 3. Well 14 was formerly the lead well and was capable of producing up to 4,500 gpm. Well performance was hindered by sanding and it was shutdown in February, 2008. It was rehabilitated and resumed operation at the end of 2010. After rehabilitation, Well 14 is only capable of producing up to 3,400 gpm. However, between October 30, 2012 and November 3, 2012, Well No. 14 was operated when Well No. 3 was temporarily out of service.

The IX system, for perchlorate treatment, consists of five sets of IX vessels, each with two vessels operating in series in a lead-lag configuration, for a total of 10 vessels. The total treatment capacity is 5,000 gpm and each set of IX vessels treats up to 1,000 gpm of flow.

The UVPhox System, installed in 2003 to treat NDMA and 1,4-dioxane, consists of two independent trains. Each train consists of two reactor chambers and each chamber contains

two UV reactors (UVRs). Each UVR contains 72 UV lamps and sleeves. The treatment capacity of each train is 5,000 gpm. The UVPhox is designed to treat NDMA at concentrations as high as 200 ng/L to below the detection level of 2 ng/L. Hydrogen peroxide may be injected into the water from Well No. 3 before entering the UVPhox system in the event 1 ,4-dioxane is detected.

There are three air strippers used for the removal of VOCs that are capable of treating total flows of up to 15,000 gpm.

Technical performance reports for the IX and UVPhox systems are prepared under Provision 36 of Permit Amendment No. 1910199PA-001 and Provisions 59 of the Permit Amendment 191 0199PA-003, respectively, and are required to be submitted annually to DDW. The annual report, “N-Nitrosodimethylamine (NDMA) UVPHOX Treatment Facility Technical Performance Report” (Stetson, 2015c), was submitted in March 2015 and describes the status and performance of the UVPhox treatment system for the calendar year of 2014. The annual report, “Perchlorate Treatment Facility Technical Performance Report (Stetson, 2014c) was submitted in September 2014 and describes the status and performance of the IX treatment system for the period July 1, 2013 to June 30, 2014.

In addition, CDWC submits monthly compliance reports to DDW.

In 2014, the CDWC Subproject extracted and treated approximately 19,352 acre-feet of water equating to an average flow rate of 15,038 gpm (Table 2-1). This is approximately 188% of the minimum extraction rate of 8,000 gpm for the Bassett Wellfield as requested by EPA.

3. PERFORMANCE MONITORING ACTIVITIES

As described in the PSEP, monitoring activities for the assessment of the interim remedy performance consist of two phases. The first phase consisted of baseline potentiometric and water quality monitoring prior to extraction well startup and was completed in April 2005. The second phase involves more frequent potentiometric and water quality monitoring during startup and initial operation of the extraction wells, followed by reduced monitoring frequencies after several years of continuous operation. The second phase of monitoring began in April 2005, although not all of the extraction wells were fully operational at that time. Potentiometric monitoring was performed on an increased frequency, as required, from April 2005 through November 2006.

The FSP and QAPP describe monitoring methods and laboratory analyses of groundwater samples collected in the BPOU and were initially approved by EPA with the modifications to the PSEP in a letter dated February 12, 2007. The FSP and QAPP have been periodically updated to address modifications to the performance monitoring components of the PSEP. The most recent updates to the QAPP (Rev. 5) and the FSP (Rev. 7) were submitted to EPA in April 2013 (AMEC, 2013a and AMEC, 2013b) and approved by EPA in a letter dated May 21, 2013.

As described in Section 1.1, a revised version of the PSEP (Rev. 4) was prepared to address EPA comments received in late 2012 and early 2013. Revisions to the PSEP included the addition of 1,2,3-TCP as a COC, clarification of monitoring and reporting requirements for non-COCs such as ethylene dibromide (EDB), and the modification of remedial action objectives outlined in Sections 2.2.1 and 2.2.2 (AMEC, 2013c). EPA approved the revised PSEP in a letter dated May 21, 2013.

Potentiometric monitoring, water quality monitoring, and groundwater modeling activities that were completed in support of performance evaluation activities during 2014 are discussed in the following sections.

3.1 Potentiometric Monitoring

Potentiometric monitoring of wells included in the PSEP monitoring program continued to be conducted by the Watermaster and CRs throughout 2014. Locations of the wells included in the BPOU potentiometric monitoring program are shown on Figure 3-1 and their monitoring schedules are presented in Table 3-1. Potentiometric monitoring completed for the PSEP monitoring program during 2014 is summarized below.

- Potentiometric data were collected quarterly in 11 extraction wells with the exception of SA1-1 which was not measured in the fourth quarter of 2014;

- Potentiometric data were collected quarterly in 17 piezometer clusters and one inactive production well;
- Potentiometric data were collected semi-annually in 18 multiport monitoring wells; and
- Potentiometric data were collected weekly in one conventional monitoring well, the LACO Key Well, by the Main San Gabriel Basin Watermaster.

3.2 Water Quality Monitoring

Water quality monitoring of existing wells included in the PSEP continued to be conducted by the Watermaster and the CRs throughout 2014. Locations of wells included in the BPOU groundwater quality monitoring program are shown on Figure 3-2 and their monitoring schedules are presented in Table 3-2. Groundwater samples were analyzed for the 21 COCs listed in PSEP Table 2-1 (AMEC, 2013c), including: 1,4-dioxane, NDMA, perchlorate, and VOCs. Groundwater samples were also analyzed for nitrate and sulfate. Groundwater quality monitoring completed for the PSEP monitoring program during 2014 is summarized below.

- Monthly DDW-required groundwater samples collected in 11 extraction wells were used to fulfill the quarterly monitoring requirements for the PSEP with the following exceptions:
    - No groundwater samples were collected from SA1-2 because this well was not operated in 2014;
    - Groundwater samples from wells COI 5, SGVWC B5B and SGVWC B5E were not analyzed for sulfate because these analytes are not required by DDW;
    - Groundwater samples were not collected from SGVCWC B25A, B25B, B26A, and B26B during June 2014 through August 2014. These wells were not operational because SGVWC B6 treatment plant was off-line during this period; and
    - Groundwater samples in extraction wells were not analyzed for acetone and carbon disulfide because these analytes are not required by DDW.
- Annual groundwater samples were collected from all 18 multiport wells and in the MW 5-28 monitoring well cluster. In addition, groundwater samples were collected on a semi-annual basis (spring and fall) from selected ports in 6 multiport wells. The PSEP sampling requirements were achieved with the following exception:

  - The uppermost sampling ports in multiport monitoring wells MW5-03, MW5-17, and WHICO MP-1, respectively, were dry in 2014; therefore, groundwater samples were not collected from these ports.

- Annual groundwater samples were collected from five of the seven conventional monitoring wells required by the PSEP including AJMW-2R, AJMW-6, ALRMW-1R, ALRMW-8, and ALRMW-9. The PSEP sampling requirements were achieved with the following exceptions:
  - Monitoring well AJ MW-4 was dry in 2014; therefore, groundwater samples were not collected from this well; and
  - With approval from EPA, the Los Angeles County Key Well was not sampled in 2014. The Watermaster previously informed EPA that sampling of this well has been discontinued because the collection of groundwater samples results in the disturbance of water level measurements in this well which is used to assess basin water-level conditions.
- Groundwater samples were collected from 12 of the 13 production wells. The PSEP sampling requirements were achieved with the following exceptions:
  - Production well CC E Durbin was not in operation in 2014; as a result a groundwater sample was not collected; and
  - The sample from CIC Baldwin was not analyzed for NDMA.

In addition to groundwater quality monitoring required by the PSEP, other groundwater quality monitoring was performed to supplement the PSEP monitoring program during 2014 including the following:

- Groundwater quality samples for the COCs and chemicals of interest were collected quarterly from the conventional monitoring wells AJ MW-2R and AJ MW-6.

Additional groundwater quality monitoring was performed by the WEs to satisfy the requirements of DDW drinking water permits. The DDW monitoring requirements are summarized along with the PSEP monitoring requirements in Table 3-2. Results of the water quality monitoring performed in 2014 are presented in Section 5.2.

3.3 Groundwater Modeling

As described in Section 5.1 of the PSEP (AMEC, 2013c), the BPOU groundwater model is the primary tool for assessing extraction system performance. Annual simulations of basin-wide groundwater flow conditions consist of the addition of pumping, recharge, and model boundary water level and flux estimates averaged quarterly over the water year (WY). The

BPOU groundwater model is described in the Comprehensive Groundwater Modeling Report, dated July 29, 2005 (Geomatrix, 2005) and the Addendum to the Comprehensive Groundwater Modeling Report, dated September 8, 2006, (Geomatrix, 2006c). The BPOU groundwater model is currently being updated with recharge, pumping, and water level data through the end of WY 2013-14 (July 1, 2013 through June 30, 2014) and recalibrated to improve the match between simulated and observed groundwater levels. A description of the model updates, calibration of simulated water levels with observed water levels, and simulation results evaluating extraction system performance will be submitted to EPA under separate cover in the 3rd quarter of 2015.

4. TREATMENT PLANT MONITORING ACTIVITIES

This section summarizes methods used to monitor treatment plant performance. The performance monitoring program is described in the PSEP (AMEC, 2013c) and the QAPP (AMEC, 2013a). Treatment plant operational results are presented in Section 6.0.

4.1 Subarea 1 – Valley County Water District Lante Treatment Plant

The VCWD Lante Treatment Plant operated on a nearly full-time basis from February to September 2014, experiencing downtime only associated with routine maintenance and unplanned operational interruptions. The plant did not operate during January due primarily to the required replacement of the ISEP resin. ISEP B was not operated the entirety of 2014, and will not be loaded with new resin or operated until it is reconfigured for nitrate treatment. Ongoing ISEP problems and limitations, particularly ISEP B being offline all year, resulted in the total extraction volume for the VCWD system being 44 percent of the EPA approved extraction rate of 6,000 gpm. Repair work on SA1-3, the primary extraction well for the VCWD Lante Subproject, began in October and continued through December of 2014. The BPOU Project Committee approved the development and construction of a new extraction well on February 13, 2014. It is anticipated that the new well will be operational in 2016.

Raw water, partially treated water, and fully treated water were routinely sampled and analyzed for COCs including 1,2,3-TCP, inorganic chemicals, and other diagnostic parameters to evaluate the effectiveness of treatment processes and to monitor the quality of the fully treated water. Treated water was delivered to SWS Plant 121 for delivery in the SWS distribution system. Water quality data, as obtained, are summarized in the DDW compliance reports appended to the monthly progress reports to EPA.

In August 2006, by mutual agreement among EPA, South Coast Air Quality Management District (SCAQMD), and VCWD, air stripper and off gas control system permits with SCAQMD were cancelled and EPA assumed compliance oversight with respect to operations formerly covered by the SCAQMD permits. The air stripper vapor abatement equipment consists of four 20,000-pound carbon adsorption systems equipped with heaters. Air compliance samples were collected according to the revised protocol approved by EPA on February 3, 2011. The revised protocol requires air sampling immediately after a carbon change out, every other month for 6 months, and then monthly thereafter. The CRs submitted a revised QAPP for air and waste water discharges to the EPA in September of 2012 (AMEC, 2012a) and the Field Sampling and Analysis Plan for air and waste water discharges was issued in July 2013 (Stetson 2013b). All air samples were analyzed by EPA Method TO-15.

Twenty thousand pounds of VPGAC was changed out on May 5, 2014 and another 20,000 pounds (lbs) on 11 November 11, 2014. Approximately 1,950 cubic feet of resin was changed

out of ISEP A in February 2014. No LPGAC change outs occurred during 2014. Carbon and resin change outs since 2004 are summarized in Table 4-1. Spent carbon and resin are managed at facilities that are authorized to accept Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) wastes. As they are received, certificates of disposal and reactivation are provided to EPA in the monthly progress reports.

Waste brine and water softener wastes produced by the ISEP system were discharged under Industrial Wastewater Permit No. 016112 from the LACSD, issued on August 5, 2004 and subsequently revised and reissued on March 23, 2010. Brine discharges occurred throughout 2014 while the treatment plant was operating (February to September). Only 3,810 gallons of brine was discharged during the month of January, while the plant was down for ISEP resin replacement. Brine discharge samples were collected and analyzed in accordance with permit requirements. Self-Monitoring Reports (SMRs) were submitted to LACSD and EPA on a semi-annual basis covering January to June and July to December 2014, respectively. The SMRs summarize flow, and brine quality data collected during the reporting period.

4.2 Subarea 3 – La Puente Valley County Water District Treatment Plant

The LPVCWD Treatment Plant operated on a full-time basis in 2014, experiencing periodic downtime associated with routine maintenance and infrequent and unplanned operational interruptions. LPVCWD experienced a number of power outages throughout the year and had a number of downtimes due to a LPVCWD 5 VFD overcurrent issue, the longest of which was 246 hours in August. The 2014 extraction volume for LPVCWD was approximately 85% of the EPA approved extraction rate, due primarily to reduced airflow through the vapor phase carbon units. LPVCWD is currently evaluating alternatives to improve the efficiency of the vapor phase carbon units.

Raw and treated water sampling was performed in accordance with the DDW permit and included weekly sampling for VOCs, perchlorate, 1,4-dioxane, NDMA, 1,2,3-TCP, and various inorganic and physical parameters. The weekly sampling results are included in monthly progress reports submitted to DDW as a requirement of LPVCWD's drinking water permit. These results are also included in the monthly progress reports to EPA.

In August 2006, by mutual agreement among EPA, SCAQMD, and LPVCWD, air strippers and off-gas unit permits were cancelled and EPA assumed compliance oversight with respect to operations formerly covered by the SCAQMD permits. The VOC treatment equipment consists of a 30 foot tall air-stripping tower with a single 7,000 pound VPGAC adsorber and a 41 foot tall air-stripping tower with a single 20,400 pound VPGAC adsorber. Air compliance samples were collected and analyzed by EPA Method TO-15 according to the revised protocol approved by EPA on February 3, 2011. The revised protocol requires air sampling immediately after a

carbon change out and monthly thereafter. In December 2014 the EPA approved revised procedures for air monitoring and carbon change outs, which will be implemented in 2015.

Approximately 27,400 lbs of VPGAC was changed out in July 2014. The VPGAC is managed at facilities approved by EPA to accept CERCLA wastes. Eight hundred and fifty cubic feet of spent resin was changed out in January 2014 and another 425 cubic feet was changed out in March 2014. As they are received, copies of disposal manifests for spent carbon and resin are provided to EPA in the monthly progress reports. Carbon and resin change outs are summarized in Table 4-1.

On December 14, 2014, approximately 500 to 1,000 pounds of vapor phase carbon was blown out of the off-gas carbon vessel on Air Stripper No. 2. The treatment plant was immediately shut down. The carbon was contained on site and collected for disposal. The carbon vessel was repaired and returned to service on December 17. It was determined that the carbon discharge did not exceed any reportable quantities.

Waste brine and water-softener wastes were discharged under temporary Industrial Wastewater Discharge Permit 017128 issued by LACSD. A new permit was issued for the LPVCWD Treatment Facility on August 10, 2011. This new permit reflects the transition of treatment technology from the ISEP to the single-pass IX process on July 30, 2010. As a result of this transition, the continuous discharge of brine to the sewer has stopped. Semi-annual waste water discharge sampling was performed in accordance with permit requirements during 2014. SMRs were prepared and submitted to LACSD and EPA covering the January to June and July to December periods.

4.3 Subarea 3 – San Gabriel Valley Water Company B6 Treatment Plant

The SGVWC B6 Treatment Plant was put in recirculation mode beginning August 29, 2013 at the request of LACFCD to terminate discharge to the channel due to maintenance activities in the channel. The plant remained offline for the first part of 2014 due primarily to the inability to discharge to the channel during DDW review of the revised water supply permit, which included the new single pass IX system. The plant remained offline until April 14, 2014, when it resumed discharge to the channel. SGVWC received the permit approval on the single pass IX system from DDW on August 25, 2014 and began serving water into their distribution system on September 5, 2014.

The SGVWC B6 Treatment Plant experienced continued issues during 2014, including operational problems associated with the off-gas heaters which resulted in problems with the air strippers, and plant down time necessary for integration of the new single pass IX system. The SGVWC B6 Treatment Plant operated at approximately 62.2% of the target extraction rate during 2014. Production was primarily from B26A and B26B, accounting for approximately 70%

of the total production during the year. Wells B25A and B25B also operated from April to December 2014, accounting for approximately 30% of total production. Wells B6C and B6D did not operate during 2014. Standby wells B6C and B6D were infrequently operated during 2014.

Raw and treated water sampling were performed in accordance with the DDW permit and included sampling for COCs, 1,2,3-TCP, inorganic chemicals, and other diagnostic parameters. Water quality data are summarized in monthly reports to DDW and are included in the monthly progress reports to EPA. During preparation for IX startup testing, on April 26, NDMA, 1,2-dichloroethane, chloride, and bromodichloromethane were detected in the treated water being discharged from the plant at concentrations exceeding the RWQCB discharge limits. SGVWC notified the RWQCB, LACDPW, Watermaster, WQA, and the CRs. The cause of the exceedances is believed to be tied to the initial load of IX resin.

In August 2006, by mutual agreement among EPA, SCAQMD, and SGVWC, permits for the four air strippers and off-gas units were cancelled and EPA assumed compliance oversight with respect to operations formerly covered by the SCAQMD permits. Air compliance samples were collected according to the revised protocol approved by EPA on February 3, 2011. The revised protocol requires air sampling immediately after a carbon change out, every other month for 6 months, and then monthly thereafter. The air compliance sampling data were included in the monthly progress reports to EPA.

In May and October VPGAC change outs were performed, with 80,000 lbs and 60,000 lbs, respectively, being changed out during the two events. The VPGAC is managed at facilities approved by EPA to accept CERCLA wastes. Resin change outs were conducted in October and November 2014 and during each event 424 cubic feet of resin was changed out of the new IX system. As they are received, copies of disposal manifests for change out of spent VPGAC and resin are provided to EPA in the monthly progress reports. Carbon and resin change outs are summarized in Table 4-1.

Waste brine and water-softener wastes produced by the ISEP system were discharged under Industrial Wastewater Permit No. 016499 issued on February 17, 2004. The brine discharge permit was terminated in December 2013, so no SMRs were submitted to the LACSD in 2014.

4.4 Subarea 3 – San Gabriel Valley Water Company B5 Treatment Plant

The SGVWC B5 Treatment Plant operated continuously in 2014, experiencing periodic downtime associated with routine maintenance and infrequent unplanned interruptions. Production was primarily from wells B5B, B5E, and COI 5, with average annual production rates of 2,511 gpm, 2,856 gpm, and 1,073 gpm, respectively. B5D is typically used while LPGAC change outs are scheduled.

Raw and treated water sampling was performed in accordance with the DDW permit and included sampling for COCs, 1,2,3-TCP, inorganic chemicals, and other diagnostic parameters. Water quality data are summarized in monthly reports to DDW and are included in the monthly progress reports to EPA.

VOCs are removed using LPGAC and the carbon was replaced in January, February, April, June, July, August, September, October and November 2014. Single pass IX resin used to remove perchlorate was replaced in February, October, November and December 2014. Copies of disposal manifests for change out of spent carbon and resin are provided in monthly progress reports to EPA, as they are received. Carbon and resin change outs are summarized in Table 4-1.

4.5 Subarea 3 – California Domestic Water Company Treatment Plant

The CDWC Treatment Plant operated continuously in 2014, experiencing periodic downtime associated with routine maintenance and infrequent unplanned interruptions. Production was primarily from Well 3 and 5A, accounting for approximately 62% of the 19,352 acre-feet of water produced during 2014. Well 14 did not operate during 2014. Some of the unplanned interruptions during 2014 include:

- The IX system was down from approximately 18 hours from February 6-7 due to a power interruption on Well 3;
- IX was offline for 43.8 hours in November to repair the M-Line;
- The CDWC was down for 47.4 hours from December 1 to 3 while the IX system H-Line was relocated at Plant 3.
- The CDWC was offline from December 18 to 23 for a carbon change out in Tower 2 and replacement of Reservoir Pump 3.

Raw and treated water sampling was performed in accordance with the DDW permit and included sampling for COCs, inorganic chemicals, and other diagnostic parameters. Water quality data are summarized in monthly reports to DDW and are included in the monthly progress reports to EPA.

Approximately 21,000 pounds of the VPGAC was changed out of Tower 1 in January. Forty-thousand pounds of VPGAC was replaced in Tower 3 in June and another 21,000 pounds was replaced in Tower 2 in December. Single pass IX resin used to remove perchlorate was replaced in Vessel 10 in March and in Vessel 2 in July 2014. Copies of disposal manifests for change out of spent carbon and resin are provided in monthly progress reports to EPA, as they are received. Carbon and resin change outs are summarized in Table 4-1.

5. PERFORMANCE MONITORING RESULTS

Potentiometric and groundwater quality monitoring data obtained for the PSEP monitoring program during 2014 were collected in support of performance monitoring during continued construction, testing, and operation of the BPOU remedy. Results of potentiometric monitoring, water quality sampling, and groundwater modeling activities are presented in the following sections.

5.1 Potentiometric Monitoring Results

The primary objective of the potentiometric monitoring described in Section 3.1 is to verify that the BPOU groundwater flow model accurately reflects the observed flow field and to verify that the remedy is limiting further migration of COCs in groundwater. As noted in Section 5.2 of the PSEP, results from potentiometric monitoring are also used to develop potentiometric surface maps to assist in evaluating changes in groundwater flow patterns in the BPOU.

Key components of the assessment of potentiometric data include the following:

- Regional water level fluctuations due to basin-wide recharge and pumping conditions;
- Local-scale water level fluctuations due to ongoing groundwater production and extraction system pumping; and
- Regional and local-scale lateral and vertical hydraulic gradients and flow directions.

Potentiometric monitoring results for 2014 are discussed in the following sections.

5.1.1 Water Level Fluctuations

Long-term regional water level conditions in the BPOU are evaluated using water level data for the LACO Key Well. Figure 5-1 shows the water levels measured in the Key Well from 1982 through 2014. During 2014, groundwater levels in the LACO Key Well decreased from approximately 197 feet above mean sea level (msl) in January 2014 to approximately 180 feet msl in December 2014. Review of 2014 monitoring data suggests that the observed water level decrease in the LACO Key Well occurred in response to groundwater production volumes exceeding groundwater recharge in WY2013-14 and continued drought conditions that have resulted in declining water levels in the San Gabriel Basin over the past three years. This declining water level trend is shown on the hydrograph for the LACO Key Well beginning in early 2012 (Figure 5-1).

Figures 5-2 and 5-3 show water levels in multiport monitoring wells MW 5-03 and MW 5-20. The hydrographs for MW 5-03 and MW 5-20 represent water level conditions in Subarea 1, in the northern portion of the BPOU, and in Subarea 3, in the southern portion of the BPOU,

respectively. As shown on Figures 5-2 and 5-3, water levels in both Subarea 1 and Subarea 3 decreased in 2014 consistent with declining water-level trends observed in the LACO Key Well. Water levels in Subarea 1 (MW5-03) decreased by approximately 16.4 to 16.6 feet between November 2013 and October 2014, while water levels in Subarea 3 (MW5-20) decreased by approximately 12.3 to 15.8 feet during the same period. Water level data depicted on Figures 5-2 and 5-3 indicate that water levels in all ports in MW 5-03 and MW5-20 exhibit similar temporal trends at all depths. As discussed in Section 1.3.3.1, the difference in the observed water level trend between the shallow and deep ports is likely the result of confining units in Subarea 3 that provide hydraulic separation between pumping in different elevation intervals.

5.1.2 Lateral Hydraulic Gradients

Generalized potentiometric surface maps for the shallow and deep elevation intervals were developed based on water level data collected in the multiport monitoring wells to assess observed groundwater flow patterns and hydraulic gradients across the BPOU. Figures 5-4 and 5-5 show observed groundwater flow conditions in the shallow (above -500 feet msl) and deep (below -500 feet msl) elevation intervals in May 2014. Figures 5-6 and 5-7 show observed groundwater flow conditions in the shallow and deep elevation intervals in October 2014. Evaluation of observed groundwater flow patterns on a more detailed scale is limited by spatial variations in hydrostratigraphy and significant short-term water level fluctuations that occur in response to variations in local recharge and pumping.

As shown on Figures 5-4 through 5-7, lateral hydraulic gradients are generally towards the west-southwest. Although it is difficult to generalize groundwater flow directions given the seasonality of pumping and recharge in the San Gabriel Basin, groundwater flow directions in the BPOU are typically more southerly during higher water level conditions and are more westerly during lower water level conditions. Groundwater flow directions based on potentiometric measurements conducted in May and October 2014 were generally consistent despite decreases in groundwater elevations of more than up to approximately 17 feet between the May and October monitoring events.

Regional-scale lateral hydraulic gradients were estimated using water levels measured in MW 5-03 and MW 5-20 during May and October 2014. Estimated lateral hydraulic gradients are summarized in Table 5-1. The following observations are presented based on the results shown in Table 5-1:

- Estimated lateral hydraulic gradients in the shallow elevation interval ranged from 4.4 x 10-4 to 4.5 x 10-4 foot/foot (ft/ft) toward the west-southwest;
- Estimated lateral hydraulic gradients in the deep elevation interval ranged from 8.4 x 10-4 to 8.9 x 10-4 ft/ft toward the west-southwest; and

- Lateral hydraulic gradients were flatter in the deep elevation interval below -500 feet msl than in the shallow elevation interval above -500 feet msl.

5.1.3 Vertical Hydraulic Gradients

Water level measurements in multiport monitoring wells and piezometer clusters installed near extraction wells indicate that vertical hydraulic gradients vary throughout the BPOU. As discussed in Section 5.1.1, hydrographs shown on Figures 5-2 and 5-3 represent water level conditions in Subarea 1 (MW 5-03), in the northern portion of the BPOU, and in Subarea 3 (MW 5-20), in the southern portion of the BPOU, respectively. As shown on Figure 5-2, hydrographs for ports at different depths in MW 5-03 are similar, indicating that there is no significant vertical hydraulic gradient in Subarea 1. However, as shown on Figure 5-3, water levels measured at different depths in MW 5-20 are separated by up to 20 feet, indicating that there are significant downward vertical hydraulic gradients in Subarea 3.

Vertical hydraulic gradients calculated at selected multiport wells and piezometer clusters located in Subarea 1 and Subarea 3 are summarized in Table 5-2. The calculated vertical hydraulic conductivity values are generally two orders of magnitude lower in Subarea 1 than Subarea 3. The estimates summarized in Table 5-2 are based on semi-annual water level conditions in February, May, and October 2014. As shown in Table 5-2, vertical hydraulic gradients continue to be lower in Subarea 1 compared to Subarea 3 with the exception of the gradient observed in PZ1-1B during October 2014. Estimated vertical hydraulic gradients in Subarea 1 were upward during October 2014 ranging from 5.5×10^{-4} ft/ft in MW 5-03 to 4.8×10^{-2} ft/ft in PZ1-1B, and were downward at other Subarea 1 locations ranging from 1.9×10^{-4} ft/ft to 6.0×10^{-4} ft/ft. Estimated vertical hydraulic gradients in Subarea 3 ranged from 2.3×10^{-2} ft/ft to 2.7×10^{-2} ft/ft and are consistently downward.

5.2 Groundwater Quality

Groundwater samples were collected from wells in the PSEP monitoring program to evaluate groundwater quality conditions in the BPOU. As described in Section 3.2, groundwater samples were analyzed for the 21 COCs listed in PSEP Table 2-1 including: 1,4-dioxane, NDMA, perchlorate, and VOCs. Groundwater samples were also analyzed for nitrate and sulfate because of their importance to treatment plant operations and potable use. As described in Section 3.2, groundwater quality monitoring data collected to satisfy DDW permit requirements were used to supplement the PSEP monitoring program during 2014. Groundwater quality monitoring results for 2014 are discussed in the following sections.

5.2.1 Water-Quality Results

Groundwater quality results for the PSEP monitoring program in 2014 are summarized in Table 5-3. This report evaluates the spatial distribution and temporal trends for six selected COCs in groundwater including: 1,4-dioxane, carbon tetrachloride, NDMA, perchlorate, PCE, and TCE. This evaluation relies on depictions of the interpreted current spatial distribution of COCs and COC concentration trends. The interpreted COC plumes are further evaluated in Sections 5.2.3 and 5.2.4 as well as in Section 4.0 of Appendix A.

Results of water quality monitoring that was performed by the WEs to satisfy the requirements of DDW drinking water permits presented in Table 3-2 are summarized below:

- The DDW-required monitoring for the BPOU COCs in the extraction wells fulfills the requirements of the PSEP, and the DDW requirements also include more frequent monitoring (weekly or monthly) than the PSEP (quarterly). Therefore, in some instances Table 5-3 includes additional water quality results for BPOU COCs in the extraction wells than required by DDW;
- Water quality results for 1,2,3-TCP are presented in Table 5-3. Concentrations of 1,2,3-TCP were detected at a level that exceeds the NL [0.005 micrograms per liter (µg/L)] in three wells: SA1-3 Lante, ALR MW-3, and ALR MW-9;
- Detections of non-COC organic compounds, including EDB, for all available 2014 sampling results are presented in Table 5-4. Nine non-COC organic compounds were detected in various wells; and
- Detections of Tentatively Identified Compounds (TICs) for all available 2014 sampling results are presented in Table 5-5. TICs were identified in 41 samples collected from 39 sampling locations inclusive of individual sampling ports in multiport wells.

5.2.2 Data Validation and Data Quality Assessment

Data management activities for the BPOU Project are managed by LDC under contract to the Watermaster. LDC utilizes EDMSi, a web based environmental data management system, for the management of historical data compiled from the EPA San Gabriel Basin database, CRs, WEs, and other relevant sources. New water quality data that are collected for the PSEP monitoring program are reported to LDC by laboratories, validated in ADR.net, and uploaded to EDMSi as part of the real-time automated Tier 1A/1B process and Tier 3 selection. As specified by the QAPP (AMEC, 2013a), Tier 1A/1B validation was performed by LDC on all water quality data collected in support of the PSEP monitoring program and manual Tier 3 validation was performed on approximately five percent for perchlorate and VOCs and ten percent for all other analyses for the PSEP. Results of the data validation are used to evaluate

laboratory performance and ensure that data quality is acceptable to meet BPOU Project objectives.

Data qualifiers that were assigned during the Tier 1A/1B and Tier 3 reviews are shown with the groundwater sampling results summarized in Table 5-3. Based on the data validation efforts and the evaluation of field quality control (QC) samples, all analytical sample results are considered usable to support the BPOU Project Data Quality Objectives (DQOs). Results of the Tier 3 validation are described as follows:

- The result for 1,4-dioxane was qualified J (detect) and UJ (non-detect) for samples collected on May 13, 2014 in MW5-23 Ports 2 through 4 and MW5-25 Ports 4 through 7 due to the analyte exceeding the percent difference criteria in the continuing calibration verification standard;
- The result for nitrate (as N) was qualified U (non-detect) for samples collected on May 13, 2014 in MW5-23 Ports 1, 2, 3, 6 and MW5-25 Ports 6 and 7 due to field blank contamination;
- No results for sulfate or perchlorate were qualified;
- The result for acetone was qualified J (detect) and UJ (non-detect) for samples collected on May 13, 2014 in MW5-23 Port 1 and MW5-25 Ports 3 through 7 due to the analyte exceeding the percent difference criteria in the continuing calibration verification standard;
- The results for VOC compounds were qualified J (detect) for the sample collected on October 30, 2014 in MW5-03 Port 9 due to the surrogate percent recovery exceeding the upper criteria;
- The result for NDMA was qualified J (detect) and UJ (non-detect) for samples collected on April 28, 2014 in MW 5-08 Ports 2 through 4 due to the laboratory control sample percent recovery and relative percent difference exceeding criteria;
- The result for NDMA was qualified J (detect) and UJ (non-detect) for samples collected on May 13, 2014 in MW5-23 Ports 3 and 4 due to the holding time exceeding criteria;
- The result for NDMA was qualified J (detect) and UJ (non-detect) due to the laboratory control sample relative percent difference exceeding criteria for the sample collected on May 13, 2014 in MW5-23 Ports 6;

- The result for NDMA was qualified UJ (non-detect) due to the laboratory control sample relative percent difference exceeding criteria and field blank contamination for the sample collected on May 13, 2014 in MW5-23 Ports 5;

- The result for NDMA was qualified U (non-detect) due to field blank contamination for samples collected on May 13, 2014 in MW5-23 Ports 1 and 2; and

- The result for NDMA was qualified UJ (non-detect) due to the initial calibration verification percent difference exceeding criteria and laboratory and field blank contamination for samples collected on October 30, 2014 in MW 5-03 Ports 5, 6 and 9.

Final Tier 3 validation reports were submitted by LDC to the Watermaster on October 15, 2014 and March 3, 2015 (LDC, 2014 and 2015). The Tier 3 results were submitted by the Watermaster to EPA via e-mail and are also posted on a secure LDC BPOU web portal.

5.2.3 Distribution of Selected Chemicals of Concern

Consistent with previous Annual PE Reports, water quality data from wells screened at selected depths within the aquifer were interpreted using the three-dimensional geospatial modeling software, EarthVision®. A detailed description of the approach used for the development of plume maps and chemical cross sections for the six selected COCs is presented in Appendix A. Isoconcentration contours for these six COCs are shown on the generalized distribution maps on Figures 5-8 through 5-13. The isoconcentration contours shown on these maps represent the composite lateral extent of each individual chemical at all depths in groundwater. The lateral distribution of the selected COCs in three specific elevation intervals is shown in Appendix A. The three elevation intervals are as follows:

- Elevations between the water table (or potentiometric surface) and -200 feet msl;
- Elevations between -200 feet and -500 feet msl; and
- Elevations below -500 feet msl.

The plume maps for the three elevation intervals shown in Appendix A illustrate isoconcentration contours for “composite” elevation intervals for the three elevation intervals listed above. Therefore, these “composite” isoconcentration contours represent the outermost extent of a given COC at any elevation within the elevation intervals.

Given the three-dimensional nature of the plumes, the reader should consider the three-dimensional visualization that is inset in the corner of each figure that provides the appropriate context for reviewing the two-dimensional plume maps and chemical cross sections. It should be noted that the water-quality data used to create the three-dimensional

plume interpretations are posted on the plume maps according to the composite elevation intervals described above. In some instances, the "composite" isoconcentration contours may not appear to correspond to water quality data that are within the elevation interval because of the averaging of data at proximal sampling locations and interpolation between sampling locations performed by the EarthVision® modeling software.

Chemical cross sections showing the vertical distribution of selected COCs along four discrete transects are also shown in Appendix A. Cross section A-A' represents a north-south transect that is aligned generally with the longitudinal axis of the COC plumes. Cross sections B-B', C-C', and D-D' represent east-west or northwest-southeast transects that are aligned generally perpendicular to the dominant groundwater flow direction in the BPOU. Cross sections B-B', C-C', and D-D' show the distribution of the COC plumes in the upgradient, mid-plume, and downgradient areas of the BPOU and include various production wells that are vulnerable to lateral migration of COC plumes towards the west or east.

As with any approach used to interpolate data between known data points, there are uncertainties and limitations to the water quality modeling approach that may result in alternative interpretations of the distribution of COCs in groundwater. These uncertainties and limitations are summarized as follows:

- For clarity, and as requested by EPA, we have depicted the six principal COCs in separate plume maps at three elevations as described above. Plumes for the various COCs overlap (and/or diverge) at various depths throughout the impacted areas;
- The plume maps and chemical cross sections attempt to depict the temporally changing 3D distribution of COCs in groundwater with static 2D images, and they represent interpolated approximations of the distribution of COCs in groundwater based on available data. The exact subsurface distribution of the COCs cannot be completely ascertained given temporal changes in groundwater flow directions and COC concentrations, as well as the data gaps and other limitations described herein. The spatial and temporal spread of the chemical data may not encompass the entire distribution of chemicals in the groundwater. Additional assumptions are necessary as to chemical concentrations in areas that may not be completely represented by data from project wells. As such, control data were used to refine the shape of the isoconcentration contours using professional judgment. Control data were added to the input dataset for each COC to ensure that the position of the discrete and composite isoconcentration contours shown on the plume maps and chemical cross sections is consistent with the posted chemical data. However, given the use of these control data in the model, results of the interpolation should be carefully evaluated in

areas where available data are limited or concentrations change significantly over short distances;

- Alternative interpretations of the distribution of the COC plumes are possible and may differ from the plumes depicted herein. For example, plume maps and chemical cross sections for certain COCs portray discontinuous plumes in areas where the plumes may in fact be continuous;
- As described in Appendix A, the plume interpretations generally incorporate water quality data for the period from April through June 2014. Where data were not available for that time period, data from the next closest date during the January through December 2014 time period were utilized to represent the plumes as accurately as possible. Considering this, there are gaps in the existing data set that limit our ability to define the distribution of COCs in groundwater completely. The EarthVision® software used to create the plume maps and chemical cross sections utilizes certain algorithms to interpolate or "fill in" data gaps in order to provide a more comprehensive picture of the distribution of COCs. Although the EarthVision® software objectively applies the selected interpolation scheme, other software and other interpolation schemes may be applied that may generate reasonable, yet differing, results. This is not a unique limitation of the EarthVision® software, but simply a limitation of any methodology applied to a limited data set. Consequently, the interpretation may result in differences between actual and interpreted concentrations at any given point in the Project area;
- The Duarte Fault is represented as a diffuse zone of faulting on the plume maps and chemical cross sections. However, no faulting was explicitly represented in the 3D grid used to interpolate the plumes. The diffuse fault zone is considered to be a reasonable representation of the uncertainty in the fault's location as it has several fault splays concealed beneath alluvial deposits; and
- The northern-most limits of some COCs depicted on the plume maps are uncertain due to the limited amount of data available to the CR group from other EPA-named PRPs, including the Mobil/Lockheed/Valspar group, as well as other entities that may be PRPs in the northern portions of the BPOU. In consideration of the lack of recent available groundwater data from several PRP facilities and historical detections of several COCs such as TCE and PCE in the area north of the Duarte Fault zone, isoconcentration contours for TCE and PCE are truncated at the downgradient (southern) extent of the Duarte Fault zone.

Evaluation of both the generalized plume maps shown on Figures 5-8 through 5-13 and the detailed elevation-specific plume maps and chemical cross sections that are shown in

Appendix A resulted in the following general observations of the spatial distribution of COCs in the BPOU:

- The longitudinal extent of the COC plumes extends from the Duarte Fault zone in Subarea 1, approximately 7.5 miles towards the southwest, where the plumes terminate near the confluence of Avocado Creek and the San Gabriel River;
- The maximum lateral extent of the COC plumes generally overlap throughout their extent, with the exception of the perchlorate plume, which extends slightly farther to the east and west in the mid-plume area and southern plume area in comparison to other COC plumes; and
- The vertical extent of the various COC plumes ranges from depths of approximately 850 feet below ground surface (bgs) to the north of Arrow Highway (PCE plume), in Subarea 1, to approximately 1,000 feet bgs in Subarea 3 (perchlorate plume).

In addition to the general observations described above, minor changes in the COC concentrations in various wells resulted in slightly different interpretations of the extent of the COC plumes (corresponding to the MCL [or NL]) compared to the previous year. In general, the extent of COC concentrations above the MCL (or NL) is very similar to 2013. The interpreted changes in the extent of the COC plumes as compared to 2013 are summarized below:

- In Subarea 3, the interpreted extent of 1,4-dioxane concentrations above the NL of 1.0 µg/L in the elevation interval between -200 and -500 feet msl is slightly smaller in the eastern portion of Subarea 3 than in 2013 (Appendix A - Figure A-3);
- Carbon tetrachloride was detected above the MCL at a concentration of 0.62 µg/L In well MW5-24, located south of the Subarea 1 extraction system and screened below -500 feet msl (Appendix A - Figure A-11), resulting in a slight increase in the extent of carbon tetrachloride within this interval;
- The extent of carbon tetrachloride concentrations above 5 µg/L is slightly smaller in the southern part of Subarea 3 within the interval between -200 and -500 feet msl (Appendix A - Figure A-10) as compared to the previous year;
- In the northern part of Subarea 1 in the vicinity of wells ALR MW-9 and AJ MW-2R , the extent of NDMA concentrations exceeding 100 ng/L above -200 feet msl increased slightly compared to 2013 (Appendix A - Figure A-16);
- In Subarea 1, the extent of NDMA concentrations exceeding 10 ng/L above -200 feet msl appears to have been reduced from 2013 in the vicinity of the Subarea 1 extraction system and well MW5-24 (Appendix A - Figures A-16 and A-19);

- In the northern part of Subarea 1, the extent of perchlorate concentrations in groundwater above -200 feet msl exceeding 100 µg/L decreased from 2013 due to significant decreases in the perchlorate concentration in wells AJ MW-2R and AJ MW-6. Similarly, the extent of perchlorate concentrations exceeding the MCL of 6 µg/L decreased from 2013 due to a decreases in the perchlorate concentration in wells MW5-13 and WHICO MP-1 (Appendix A - Figures A-23 and A-26);
- In Subarea 3, the small area of perchlorate concentrations above the MCL of 6 µg/L associated with the perchlorate detected in SWS 139W6 in the elevation interval below -500 feet msl, which was observed during 2013, is no longer present. However, the extent of perchlorate above the MCL increased to the west due to detections above the MCL in SGVWC B25B and MW5-23 (Appendix A - Figure A-25 and A-29);
- In Subarea 3, the small area of PCE and TCE concentrations above the MCL of 5 µg/L in the elevation interval above -200 feet msl at the East Durbin well observed during 2013 is not shown on the plume map for 2014 due to the lack of sampling results for 2014. This well was not operated for the majority of 2014 and groundwater samples were not collected. Closer coordination of well operations with the sampling schedule will be conducted in an attempt to ensure that the well is sampled in 2014 to allow continued monitoring of concentration trends in this well;
- In the northern part of Subarea 1, the extent of PCE and TCE concentrations exceeding 100 µg/L above -200 feet msl decreased compared to 2013 due to significant concentration reductions in ALR MW-9 (Appendix A –Figures A-30 and A-37);
- The PCE concentration in MW 5-24, screened within the -200 to -500 feet msl elevation interval, increased to 130 µg/L in 2014, causing the extent of PCE concentrations greater than 100 µg/L within this interval to increase (Appendix A – Figures A-31 and A-34);
- In Subarea 3, PCE was detected in the elevation interval below -500 feet msl in SGVWC B6D (7 µg/L) and in SGVWC B25B (6.6 µg/L) (Appendix A - Figure A-32), whereas PCE was not detected within this elevation interval in 2013;
- In Subarea 1 above -200 feet msl, TCE was detected in monitoring well ALR MW-10R at 6.1 µg/L. This well was not sampled in 2013 (Appendix A – Figure A-37);
- In Subarea 3, the southern extent of the TCE plume exceeding 5 µg/L above -200 feet msl decreased due to a decrease in TCE concentration in MW5-19 compared to 2013 (Appendix A – Figure A-37); and

- In Subarea 3, the area of TCE concentrations above the MCL of 5 µg/L is interpreted in the elevation interval below -500 feet msl to extend farther to the west than in 2013 due to observed concentrations of 23 µg/L in the SGVWC B25B and 11 µg/L in MW5-23, respectively (Appendix A – Figures A-39 and A-43). The TCE concentration in SWS 140W5 (7.7 µg/L) decreased from 2013 (10 µg/L). Concurrently, the concentrations of NDMA and perchlorate in this well were stable or decreased from 2013. COC concentration trends in this well will continue to be evaluated in 2015.

When reviewing the evaluation presented above, apparent changes in the interpreted distribution of a particular COC plume from year to year should be evaluated with caution. Chemical concentrations have varied seasonally and from year to year as basin water levels fluctuate. In some instances, very slight differences in measured concentrations at or above the RL, or use of concentrations that are qualified (J-flagged) may result in apparent changes in the interpreted extent of a particular COC plume. Short-term changes should not be considered as representative of longer-term (multi-year) trends until such observations can be confirmed over several years. This is particularly important for wells located along the perimeter of the COC plumes where minor changes in COC concentrations can result in changes in the interpreted extent of a particular COC plume.

5.2.4 Temporal Trends

Temporal trends in chemical concentrations for the six selected COCs were evaluated by updating time-concentration graphs for select multiport wells in the PSEP water quality monitoring network as presented on Figures 5-14 through 5-19. The time-concentration graphs were updated to include data from 2005 through December 2014 to evaluate long-term temporal concentration trends. The graphs include data that were collected for BPOU performance monitoring activities as well as DDW and other regulatory agency monitoring requirements. Concentrations of chemicals detected in groundwater samples are plotted using closed circles; chemicals not detected in groundwater samples were plotted at the RL using open circles. Time-concentration trends for multiport monitoring wells are grouped on the time-concentration graphs according to the measurement port elevations in three elevation intervals as follows: between the water table and -200 feet msl, between -200 and -500 feet msl, and below -500 feet msl.

Based on a review of the time-concentration graphs shown on Figures 5-14 through 5-19, the following observations were made:

- Monitoring wells MW5-11, MW5-13, and MW5-18 are located in the upgradient area of the COC plumes, north of Arrow Highway in the Subarea 1 portion of the BPOU. These wells are considered to be general indicators of the quality of groundwater that

is flowing toward downgradient extraction wells installed for the VCWD Lante Subproject. Concentrations of most COCs in these wells were generally consistent in 2014 in comparison to the previous year with the exception of increases in 1,4-dioxane concentrations in Port 3 of wells MW5-11 and MW5-13 and a decrease in perchlorate concentration in Port 3 of MW5-11. Since 2005, the concentrations of most COCs in these wells have been stable or decreasing and are consistently slightly above or below MCLs or NLs. The concentration of 1,4-dioxane in Port 3 of wells MW5-11 and MW5-13 has been increasing since 2011 and 2010, respectively;

- Monitoring wells MW5-24 and MW5-25 are located to the south of Arrow Highway downgradient of the Subarea 1 extraction wells. These wells are considered to be general indicators of the quality of groundwater that is flowing downgradient away from the Subarea 1 extraction wells. Monitoring results for these wells were generally consistent with previous years' concentrations with the exception of slight increases in 1,4-dioxane in Port 7 of multiport well MW5-24 located approximately 2,500 feet downgradient of the VCWD SA1-3 (Lante) extraction well, and a slight increase in perchlorate in Ports 3 and 4 of MW5-25 located downgradient of the VCWD SA1-1 extraction well. Since 2005, the concentrations of all COCs in these wells have been stable or decreasing and are consistently slightly above or below the MCLs or NLs in most wells;
- Monitoring wells MW5-05, MW5-08, and MW5-15 are located in the mid-plume area of the COC plumes, downgradient of Subarea 1 and upgradient of Subarea 3. These wells are considered to be general indicators of the quality of groundwater that is flowing downgradient toward the SGVWC B5, SGVWC B6, and LPVCWD Subproject extraction wells. Concentrations of COCs in MW5-15 were generally consistent in 2014 in comparison to the previous year. With the exception of perchlorate, COC concentrations increased slightly in Ports 1 and 2 of MW5-05. MW5-08 showed a decrease in 1,4-dioxane concentration in 2014; however, concentrations of most other COCs increased in all ports of MW5-08. Since 2005, the concentrations of all COCs in well MW5-15 have been stable or decreasing and most are consistently slightly above or below MCLs or NLs. The concentrations of COCs in wells MW5-05 and MW5-08 have been stable or increasing since 2005. Slightly increasing trends are observed for carbon tetrachloride, TCE, 1,4-dioxane, NDMA (Port 1), and perchlorate in MW5-05 and for perchlorate in MW5-08;
- Monitoring wells MW5-19 and MW5-23 are located within Subarea 3, upgradient of the SGVWC B5 Subproject extraction wells and the CDWC Bassett Wellfield. These wells are considered to be general indicators of groundwater quality in the southern portion of the BPOU and representative of the quality of groundwater that is flowing

downgradient toward the SGVWC B5 Subproject extraction wells and CDWC Bassett Wellfield. Concentrations of COCs remain generally unchanged in MW5-23 compared to the previous year. However, concentrations of all COCs excluding carbon tetrachloride increased in Port 4 of multiport well MW5-19. With the exception of select COCs in monitoring well ports within the -200 and -500 feet msl depth interval, COC concentrations in MW5-19 and MW5-23 have generally been stable or decreasing since 2005. One exception is Port 3 of MW5-23 which shows increasing concentrations of 1,4-dioxane, NDMA, perchlorate, PCE, and TCE concentrations. Another exception is Port 4 of MW5-19 which shows similar increasing trends for these COCs, although 1,4-dioxane concentrations appear to be stable; and

- Monitoring wells MW5-26 and MW5-27 are located within Subarea 3, downgradient of the SGVWC B5 Subproject extraction wells and the CDWC Bassett Wellfield. These wells are considered to be general indicators of groundwater quality downgradient from the SGVWC B5 Subproject extraction wells and CDWC Bassett Wellfield. Monitoring results for these wells were generally consistent with previous years with all detectable concentrations in 2014 below applicable MCLs or NLs. Since 2005, COC concentrations in these wells have generally been below laboratory reporting limits with the exception of infrequent and inconsistent detections of various COCs. These detections are typically at concentrations that are below MCLs or NLs.

Observed increases or decreases in the concentration of a particular COC during a single sampling event should not be considered as a significant change in the overall trend of chemical concentrations at a particular well. Historical variations in chemical concentrations have been observed seasonally and from year to year as basin water levels vary.

5.3 Groundwater Modeling Results

As described in Section 3.3, the BPOU groundwater model is currently being updated with recharge, pumping, and water level data through the end of WY 2013-14 (July 1, 2013 through June 30, 2014) and recalibrated to improve the match between simulated and observed groundwater levels. A description of the model updates, calibration of simulated water levels with observed water levels, and simulation results evaluating extraction system performance will be submitted to EPA under separate cover in the 3rd quarter of 2015.

5.4 Groundwater Extraction and Chemical Mass Removal

Monthly groundwater extraction volumes for 2014 were compiled from monthly reports submitted to DDW and EPA in monthly progress reports. Groundwater extraction volumes for all extraction wells that were operational in 2014 are shown in Table 2-1. Average monthly and average annual extraction rates are also provided in Table 2-1 together with design extraction

rates for each extraction well, target operational extraction rates, and EPA-approved extraction rates for each well. Design extraction rates are based on the peak design capacity of the treatment plants whereas target operational extraction rates generally assume ten percent downtime for each well for treatment plant maintenance. The EPA-approved extraction rates shown in Table 2-1 are based on groundwater flow model simulations performed in support of extraction system design in 2000 and 2001 and updated in 2012 and 2013. These average extraction rates are necessary to achieve the remedial action objectives inclusive of the addition of 8,000 gpm groundwater extraction from the CDWC Bassett Wellfield as requested by EPA in January 2015.

Estimates of chemical mass removed from extracted groundwater in 2014 for the VCWD Lante, LPVCWD, SGVWC B6, SGVWC B5, and CDWC Subprojects are presented in Section 6.0.

6. TREATMENT PLANT PERFORMANCE RESULTS

This section presents a summary of the 2014 operational performance results for the BPOU Subproject treatment plants.

6.1 Subarea 1 – Valley County Water District Lante Subproject

As described earlier in this report, the VCWD Lante Treatment Plant did not operate for much of January due primarily to required replacement of the ISEP resin. During 2014 approximately 4,300 acre-feet of groundwater were extracted and treated from the production wells equating to an average annual production rate of approximately 2,656 gpm.

Water quality data collected from the individual production wells and from the fully treated water are summarized in Table 6-1, which also includes the design concentrations and expected average influent concentrations for the VCWD Lante Treatment Plant together with applicable MCLs and NLs for the COCs. No samples were collected from SA1-2 during 2014 because the well was offline all year. SA1-1 was sampled monthly from October to December; the well was offline prior to October and therefore was not sampled in this period. SA1-3 was sampled monthly from March to September. Periods where sampling did not occur was because the well was not operational due to repair work. Raw water concentrations for the compounds reported in Table 6-1 did not exceed design concentrations. No COCs were detected at concentrations exceeding MCLs or NLs in the fully treated water. Figures 6-1 to 6-15 illustrate raw and treated water 2014 concentration trends relative to the applicable MCL or NL. With the exception of perchlorate and nitrate, the raw water concentrations from well SA1-1 were below their respective MCLs and NLs, often below the laboratory reporting limit. Concentrations of 1,4-dioxane, perchlorate, PCE, TCE, and 1,2,3-TCP typically exceeded their respective MCLs and NLs in extraction well SA1-3. With the exception of nitrate and sulfate, SA1-3 consistently showed higher concentrations of the COCs than SA1-1. In general, COC concentrations appeared to be relatively constant or slightly decreasing in the two production wells. PCE, TCE, and 1,1-DCE concentrations in SA1-3 display clear decreasing trends during 2014 with the exception of one anomalous point in the PCE data (May 2014).

Treated water COC concentrations remained below the MCLs/NLs. COC concentrations in the treated water were generally below detection limits, except for nitrate (as NO_3), where concentrations in treated water remained constant at around 8 mg/L during 2014. The highest nitrate detection in the fully treated water was 10 mg/L, well below the MCL of 45 mg/L. Average concentrations for the raw water influent to the treatment plant are summarized in Table 6-2.

Historical (2008 to 2014) trends for indicator COCs in the VCWD extraction wells are presented in Figures B-1 to B-7 (Appendix B). Most COCs show strong decreasing trends over time;

decreasing trends were most pronounced in Well SA1-3. COC concentrations in SA1-3 have shown a decreasing trend since 2008, with the exception of perchlorate which displays a stable or slightly decreasing trend. COC concentrations in SA1-1 are typically stable or show slight decreasing trends since 2008. Concentrations of 1,4-dioxane in SA1-1 were above the NL until the end of November 2012, and remained below the NL for all of 2014. With the exception of a period from March 2011 to February 2012, perchlorate concentrations in SA1-1 have typically been above the MCL. Since February 2012 perchlorate concentrations in SA1-1 have shown a slightly increasing trend.

Mass removed during 2014 was calculated by using the average raw water concentration for each COC from each of the three production wells and multiplying that result by the volume of water treated, with the appropriate dimensional conversion. In these calculations, concentrations below the detection limit were treated as zero. For the compounds considered, approximately 1,269 pounds of chemical mass were removed by the VCWD Lante Treatment Plant in 2014. This is approximately 76 percent of the 1,675 pounds of mass removed in 2013. The decrease in total mass removed is largely due to the decrease in the volume of groundwater extracted and treated during 2014. Similar to 2013, 1,4-dioxane, perchlorate, TCE, PCE, 1,1-DCE and cis-1,2-DCE represents most of the total mass removed. PCE alone accounted for 63 percent of the mass removed, with TCE accounting for an additional 21 percent.

Inlet and exhaust air quality data for 2014 are summarized in Table 6-3 for the four air strippers and carbon off-gas abatement systems. As expected from water quality data, PCE, TCE, 1,1-DCE, and cis-1,2-DCE were the primary VOCs detected in the vapor phase. Table 6-4 provides a summary of air risk and hazard calculated from compounds detected in the air exhaust. Risk was calculated using SCAQMD Tier 4 procedures and compared against ARARs. Calculated risk and hazard values were below ARARs for the MICR, acute hazard, chronic hazard, and cancer burden.

In 2014, the VCWD Treatment Plant discharged 27,327,758 gallons of waste brine to the LACSD sewer with an annual average discharge rate of approximately 54 gpm, which was less than the 93 gpm averaged in 2013. The decrease in brine discharged compared to 2013 was primarily due to one ISEP unit being offline for the majority of 2014. Discharges met permit requirements. Per LACSD discharge permit revision, continuous pH monitoring is no longer required. Brine flow data are summarized in Table 6-5.

6.2 Subarea 3 – La Puente Valley County Water District Subproject

In 2014, the average annual flow rate at the LPVCWD Treatment Plant was 1,911 gpm, which was below the EPA-approved extraction rate of 2,250 gpm. Approximately 3,087 acre-feet of groundwater were extracted during 2014. LPVCWD 5 extracted the majority of water treated

during 2014. Approximately 2,251 acre-feet of water was extracted from LPVCWD 5, as compared to 836 acre-feet from LPVCWD 2 and LPVCWD 3 combined. Water quality data are summarized in Table 6-6. Figures 6-16 to 6-26 illustrate raw and treated water concentration trends relative to the applicable MCL or NL for selected COCs. All treated water concentrations were below the MCLs and NLs. With the exception of nitrate and sulfate, COC concentrations in LPVCWD 2 were greater than those observed in LPVCWD 3 and LPVCWD 5. All three extraction wells contained perchlorate concentrations exceeding the MCL, and LPVCWD 2 and LPVCWD 5 contained NDMA, carbon tetrachloride, and TCE at concentrations greater than the MCL. Concentrations of all COCs in LPVCWD 2 displayed a steady or slightly increasing trend during 2014. Concentrations of all constituents in LPVCWD 5 displayed an overall stable trend with slight fluctuations throughout 2014, with increasing concentrations in early spring and summer followed by decreasing concentrations in the fall and winter seasons. Perchlorate, PCE, TCE, and chloroform concentrations in LPVCWD 5 also showed an abrupt decease in concentrations from September to December 2014. Constituent concentrations in LPVCWD 3 were relatively stable throughout the year with the exception of nitrate and sulfate, which displayed slightly decreasing trends during May and July 2014. The remaining nitrate and sulfate concentrations remained stable in in the extraction wells throughout the year. There were no instances during 2014 where COC concentrations in the fully treated water exceeded an MCL or NL.

Historical (2008 to 2014) trends for indicator COCs in the LPVCWD extraction wells are presented in Figures B-8 to B-16 (Appendix B). Similarly to the 2013 observation, COC concentrations in LPVCWD 2 are typically greater than those in LPVCWD 3 and LPVCWD 5. Most COCs in LPVCWD 2 show decreasing trends, but high variation accompanies the overall decreasing trends. The historic fluctuation does not seem to coincide with the trend observed during 2014, with lower concentrations in the summer months and higher concentrations in the winter months. Historically, COC concentrations in LPVCWD 3 are relatively stable to slightly decreasing, near or below the MCL/NL. One exception to this is PCE, which has displayed a steady decline in LPVCWD 3 since 2008. LPVCWD 5 experienced steep declines in COC concentrations during the first six months of operation (January to June 2009), since then it has remained fairly stable to slightly decreasing, with some fluctuations.

Average chemical concentrations for the treatment plant raw water influent are summarized in Table 6-7 together with the volume of water treated and the total mass removed per chemical. In these calculations, concentrations below the detection limit were treated as zero. For the COCs considered, approximately 336.5 pounds of chemical mass were removed from groundwater. This is less than the 359 pounds removed in 2013.

Air quality data collected weekly from the Small Tower and Large Tower inlet and outlet are summarized in Table 6-8. A summary of the air risk and hazard associated with the off-gas GAC

systems is provided in Table 6-9. The MICR, acute hazard, chronic hazard, and cancer burden ARARs were not exceeded in 2014.

Because brine discharges from the ISEP were eliminated when perchlorate treatment changed to single pass IX, only about 65,405 gallons of waste water was discharged to the LACSD sewer in 2014. Waste water flows are summarized in Table 6-10. Discharges met permit requirements.

6.3 Subarea 3 – San Gabriel Valley Water Company B6 Subproject

In 2014, the average annual flow rate at the SGVWC B6 Treatment Plant was 4,042 gpm, which was below the EPA-approved extraction rate of 6,500 gpm. As discussed previously, this plant was offline for the first part of 2014 due primarily to the inability to discharge to the channel during DDW review of the revised water supply permit, which included the new single pass IX system. Approximately 6,551 acre-feet of groundwater were extracted and treated in 2014.

SGVWC B6 Treatment Plant raw water quality data are typically collected monthly and treated water data are collected weekly (Table 6-11). However, the extraction wells are only sampled during the months they operate regularly and due to the numerous down times and operating in recirculation mode the extraction wells were sampled infrequently in 2014. Table 6-11 also includes the design and expected average influent concentrations for the SGVWC B6 Treatment Plant together with applicable MCLs and NLs for the COCs. During 2014, there were a few instances where raw water concentrations exceeded design concentrations:

- 1,4-dioxane concentrations exceeded design concentrations in the 5 November sample collected from B25A. There was no 1,4-dioxane exceedance present in the treated water sample;
- Cis-1,2-dichloroethene concentrations exceeded design concentrations in the October sample collected from B25A. There was no cis-1,2-dichloroethene exceedance present in the treated water sample;
- Carbon tetrachloride concentrations exceeded design concentrations in samples collected on 5 September, 1 October, 30 October, and 5 November 2014 from B25B and B26B. There were no carbon tetrachloride exceedances present in any treated water sample; and
- TCE concentrations exceeded design concentrations in the 5 September, 1 October, 30 October, and 5 November samples collected from B26B and the 14 August, 30 October, and 12 November samples from B6D. There were no TCE exceedances present in any treated water sample.

Figures 6-27 to 6-38 illustrate raw and treated water concentration trends relative to the applicable MCL or NL. Extraction wells B25A, B25B, B26A, and B26B were sampled in April, May, and from September to November of 2014. Water quality data are summarized in Table 6-6. All treated water concentrations were below the MCLs and NLs. Concentrations for nitrate, 1,1-DCE, cis-1,2-DCE, sulfate, and chloroform were below their respective MCLs and NLs in raw water samples, whereas concentrations for TCE, PCE, perchlorate, NDMA, and carbon tetrachloride exceeded their associated MCL in raw water samples collected from all extraction wells. In general, trends for COC concentrations in raw water samples were stable or slightly increasing through 2014. This trend can be seen in perchlorate samples collected from all extraction wells (Figure 6-31). Certain COCs in raw water samples lacked clear trends and instead displayed varying concentrations, including carbon tetrachloride, PCE, TCE, cis-1,2-DCE, and chloroform.

Extraction wells B6C and B6D were only sampled three times (August, October, and November) during 2014. The majority of COCs in B6C were not detected above their MDLs, with the exception of perchlorate, sulfate, and nitrate. Perchlorate concentrations ranged from 23 to 27 µg/L and sulfate concentrations ranged from 67 to 70 µg/L; all values were below their respective design concentrations and regulatory limits. Nitrate (as NO_3) concentrations in B6C ranged from 93 to 94 mg/L, which exceeded its MCL of 45 mg/L. Concentrations of 1,2-DCA, 1,4-dioxane, carbon tetrachloride, NDMA, perchlorate, PCE, and TCE typically exceeded their respective MCLs and NLs in extraction well B6D. With the exception of nitrate and sulfate, B6D consistently showed higher concentrations of COCs than B6C. Although the data are limited, COC concentrations appeared to be relatively constant or slightly decreasing in the two extraction wells.

Historical (2008 to 2014) trends for indicator COCs in the B6 extraction wells are presented in Figures B-15 to B-21 (Appendix B). Most of the COCs in the extraction wells display relatively stable or slightly decreasing trends, with some notable exceptions discussed below. Concentrations of 1,2-DCA, 1,4-dioxane, perchlorate, and TCE in B26B display increasing trends since 2008. PCE concentrations in B26B appear to be stable or slightly increasing. The same constituents in well B6D show a decreasing trend since 2008. NDMA concentrations in all of the extraction wells display a decreasing or stable trend, with B6C having both the highest concentrations and the steepest decrease since 2008.

Average chemical concentrations for raw influent to the treatment plant are summarized in Table 6-12, together with the volume of water treated and the total mass removed per chemical. In these calculations, concentrations below the detection limit were treated as zero. For the compounds considered, approximately 1,640 pounds of chemical mass were removed from the aquifer, which represents an increase from 2013 (757 pounds removed). Carbon

tetrachloride, perchlorate, PCE, and TCE represented about 91 percent of the mass removed, with TCE and perchlorate alone accounting for 72 percent of the mass removed.

SGVWC B6 Treatment Plant air quality data are summarized in Table 6-13. Table 6-14 provides summary of air risk and hazard calculated from compounds detected in the air exhaust. Risk was calculated using SCAQMD Tier 4 procedures and compared against ARARs. The annual 52-week average rolling MICR ARAR of 1×10^{-6} was not exceeded in 2014. The acute hazard, chronic hazard and cancer burden ARARs were also not exceeded in 2014.

The SGVWC B6 Treatment Plant discharged approximately 791,500 gallons of waste brine to the LACSD sewer in 2014 equating to an average flow rate of 1.5 gpm. Brine flows are summarized in Table 6-15.

6.4 Subarea 3 – San Gabriel Valley Water Company B5 Subproject

The average annual extraction rate for the SGVWC B5 Subproject was about 6,546 gpm, which was below the EPA-approved extraction rate of 7,000 gpm. Approximately 10,550 acre-feet of water were extracted and treated.

Raw and treated water quality data for the SGVWC B5 Treatment Plant are provided in Table 6-16, which also includes the design and expected average influent concentrations for the SGVWC B5 Treatment Plant and applicable MCLs and NLs for the COCs. All raw water concentrations were below design concentrations in the production wells throughout 2014. Figures 6-39 to 6-47 show raw and treated water concentration trends relative to the applicable MCL or NL. COC concentrations in B5E tended to be higher than the other extraction wells, with the exception of PCE. B5E was the only extraction well where 1,2-DCA, and TCE concentrations exceeded the respective MCLs. PCE concentrations in COI 5, B5E, and B5B were consistently above the respective MCLs, while the concentrations of this constituent remained below its MCL in B5D. Concentrations in wells B5E and B5D exceeded the carbon tetrachloride MCL, and perchlorate concentrations in B5E and B5B both exceeded the MCL throughout 2014. COC concentrations in the raw water were relatively constant during 2014, with the following exceptions. A slight increase in PCE concentrations was observed in many of the extraction wells during 2014. Carbon tetrachloride concentrations displayed the greatest variation throughout 2014, with concentrations in B5E ranging from 1.75 to 3.75 μg/L, and concentrations in B5D ranging from approximately 0.25 to 1.25 μg/L.

Historical (2008 to 2014) trends for COCs in the B5 extraction wells are presented in Figures B-22 to B-28 (Appendix B). With the exception of 1,4-dioxane, all of the COCs have shown increasing trends in well B5E. In addition, PCE concentrations in COI 5 have displayed a steady increase from less than 1 μg/L in 2009 to an average of 7.8 μg/L in 2014. With these

exceptions, most of the COCs in the extraction wells display relatively stable or slightly decreasing trends.

Average chemical concentrations for the raw influent to the treatment plant are summarized in Table 6-17, together with the volume of water treated and the total mass removed per chemical. In these calculations, concentrations below the detection limit were treated as zero. For the compounds considered, approximately 426 pounds of chemical mass were removed from groundwater, compared to 770 pounds in 2013. Perchlorate accounted for nearly 57 percent of the mass removed. Perchlorate, PCE, and TCE combined represented approximately 95 percent of the mass removed.

6.5 Subarea 3 – California Domestic Water Company Subproject

The average annual extraction rate for the CDWC was 15,038 gpm. Approximately 19,352 acre-feet of groundwater were extracted and treated. Approximately 11,974 acre-feet (62%) was extracted from Wells 3 and 5A with the remainder extracted from Wells 2, 6, and 8.

Raw and treated water quality data for the CDWC Treatment Plant are provided in Table 6-18, which also includes the design and expected average influent concentrations and applicable MCLs and NLs for the COCs. Figures 6-48 to 6-54 show raw and treated water concentration trends relative to the applicable MCL or NL. COC concentrations in Well 3 tended to be higher than the other extraction wells, with the exception of nitrate, PCE, and TCE. Well 6 had similar or greater nitrate, PCE, and TCE concentrations when compared to Well 3. In general, Well 3 concentrations showed a stable to slightly increasing trend. Concentrations of NDMA in Well 3 fluctuated slightly above the MCL for NDMA throughout the year. All COC concentrations reported in Well 5A were below their respective MCL or NL except for PCE and TCE, where concentrations during early 2014 were slightly greater than the MCL but showed a decreasing trend as the year progressed. Concentrations of TCE and PCE in Well 6 displayed a U-shaped trend in 2014, decreasing during the beginning of the year, leveling off from March to May, and then increasing throughout the remainder of 2014. Concentrations of perchlorate in Well 6 initially started below the MCL but increased throughout the year, resulting in concentrations fluctuating around the MCL from July to December 2014. Concentrations for all COCs in Well 8 were below their MCLs and displayed a relatively stable trend. Lastly, Well 10 was sampled once on 9 April 2014, and reported concentrations below applicable MCLs for all COCs except TCE, PCE, NDMA, and perchlorate.

Treated water COC concentrations remained below the MCLs/NLs throughout 2014. COC concentrations in the treated water were generally below detection limits, except for nitrate, TCE, and PCE, where concentrations in treated water remained constant at around 17 mg/L for nitrate (as NO_3) and around 2 μg/L for TCE and PCE during 2014. Perchlorate concentrations were initially below detection limits but increased to around 3 μg/L from May to mid-

December 2014, at which time they decreased back below detection limits. The highest nitrate (as NO_3) concentration in the fully treated water was 19 mg/L, well below the MCL of 45 mg/L. Average concentrations for the raw water influent to the treatment plant are summarized in Table 6-19.

Mass removed during 2014 was calculated by using the average raw water concentration for each COC from each of the five production wells and multiplying that result by the volume of water treated, with the appropriate dimensional conversion. In these calculations, concentrations below the detection limit were treated as zero. For the compounds considered, approximately 1,930 pounds of chemical mass were removed by the CDWC Treatment Plant in 2014. PCE, TCE, and perchlorate combined represented approximately 98 percent of the mass removed.

7. EVALUATION OF REMEDY PERFORMANCE AND TREATMENT PLANT OPERATIONS

7.1 Groundwater Extraction System Performance

As described in the PSEP and Section 3.0 of this report, the evaluation of remedy performance involves both short-term and long-term evaluation of groundwater extraction system performance. Annual PE Reports evaluate the short-term performance of the groundwater extraction system using groundwater modeling and empirical data to assess whether extraction well operation is limiting further migration of groundwater contamination into less contaminated areas.

The CRs recently completed detailed evaluations of groundwater extraction system performance in both Subareas 1 and 3. The CRs submitted an evaluation of extraction system performance for Subarea 1 in August 2012 (CDM Smith, 2012) and for Subarea 3 in March 2013 (CDM Smith, 2013). Groundwater extraction system performance is discussed in the following sections.

7.1.1 Extraction Well Performance

The VCWD Lante, LPVCWD, SGVWC B6, and SGVWC B5 Subproject wells are capable of achieving the design extraction rates according to the BPOU extraction plan. In addition, the CDWC wells in the Bassett Wellfield have demonstrated through many years of operation that they are capable of achieving the 8,000 gpm of groundwater extraction requested by EPA in January 2015. Further, VCWD and the CRs have agreed to install a new well at the Lante Treatment Plant location to increase mass removal and lower nitrate influent concentrations to supplement the three existing and permitted wells in the VCWD Lante Subproject (SA1-1, SA1-2, and SA1-3). Rehabilitation of Well SA1-2 was completed in January of 2012 and redevelopment performed in March 2012 and the well remains on standby status due to elevated nitrate concentrations. In 2014, the VCWD SA1-1 and SA1-3 extraction wells did not operate for much of January and February due to ISEP repairs and resin replacement in ISEP A. In early 2009, LPVCWD 5 became the primary extraction well for the LPVCWD Subproject with additional extraction supplemented from wells LPVCWD 2 and 3. In 2014, the majority of water extracted at LPVCWD came from LPVCWD 5. In 2014, the SGVWC implemented flow balancing and blending among the four extraction wells B25A/B and B26A/B for the SGVWC B6 Subproject for nitrate management during permitting and construction of the new IX treatment system for nitrate removal. During 2014, the SGVWC B6 extraction wells did not operate until April due to discharge limitations to the LACFD. The SGVWC B5 plant operated close to its target extraction rate during 2014, with the majority of the raw water coming from

wells B5B, B5D, B5E and COI 5. During 2014, the CDWC Bassett wells operated at an average flow rate of 15,038 gpm, exceeding the 8,000 gpm extraction rate requested by EPA.

7.1.2 Groundwater Quality Trends

Short-term spatial and temporal trends in groundwater quality in the BPOU as observed during 2014 are described in Sections 5.2.3 and 5.2.4. Short-term changes in groundwater quality are observed seasonally and from year-to-year. These short-term changes occur primarily in response to variations in both local and regional groundwater flow conditions throughout the Basin. Long-term trends in groundwater quality are difficult to discern at specific locations within the COC plumes due to seasonal changes in groundwater levels and flow directions and the localized influences of groundwater pumping from various production and extraction wells. As a result, the PSEP outlines an approach for evaluating short-term changes in groundwater quality and extraction system performance in Annual Performance Evaluation reports. Longer-term trends in groundwater quality and extraction system performance are to be evaluated in Five-Year Review Reports much like those completed for Subarea 1 and Subarea 3 in 2012 and 2013, respectively (CDM Smith, 2012 and 2013). As a result, the evaluation of groundwater quality trends and extraction system performance presented in this annual report should not be used to develop conclusions regarding overall remedy performance. However, to satisfy EPA's request for an expanded discussion of long-term trends in groundwater quality over the past 5 – 10 years, the following general BPOU-wide observations are provided:

- The overall extent of COC plumes in the BPOU has been relatively stable since the implementation of the PSEP monitoring and reporting program in 2004, and concentrations of most COCs within the plumes have been decreasing. Mass discharge (flux) calculations were performed by CDM Smith to quantify the COC plume strength upgradient of the Subarea 1 and 3 extraction wells in 2012 and 2013 respectively (CDM Smith, 2012 and 2013). Analysis of estimated COC mass discharge indicates that between 2004 and 2010, the amount of mass migrating towards the Subarea 1 and 3 groundwater extraction wells has decreased by approximately 80 and 60 percent, respectively;
- With the exception of the SGVWC B5 Subproject and SGVWC well B26B, mass removal rates determined for influent groundwater to the Subproject treatment systems have generally declined since 2010 (Table 6-20 and Appendix B);
- COC concentrations appear to be decreasing downgradient of the VCWD Subproject extraction system as demonstrated by decreasing concentrations observed in Ports 4, 5, and 6 of multiport well MW-24 located approximately 2,500 feet downgradient of the VCWD SA1-3 (Lante) extraction well;

- Annual Performance Evaluation reports, prepared by the CRs since 2004 demonstrate that COC concentrations have been generally stable or declining near the southern terminus of the BPOU plume as indicated by stable or declining COC concentrations in most Subarea 3 extraction wells with the exception of the SGVWC B26B well mentioned above; and
- Measured COC concentrations in multiport monitoring wells MW5-26 and MW5-27 located downgradient (southwest) of Subarea 3 extraction wells have been below MCLs or NLs at these wells since 2009, indicating that there has been no significant migration of COC mass southwest of the Subarea 3 extraction wells and CDWC wells. In addition, with the exception of PCE in COI 5, COC concentrations in COI 5 and CDWC, near the terminus of the BPOU plume, are relatively stable.

7.1.3 Groundwater Extraction and Chemical Mass Removal

The VCWD, LPVCWD, SGVWC B6, SGVWC B5, and CDWC Treatment Plants were all operational in 2014.

- The VCWD Treatment Plant operated at 2,656 gpm, or about 44.2% of the EPA approved average annual extraction rate of 6,000 gpm. Production remained below the EPA-approved extraction rate mainly due to routine maintenance, unplanned operational interruptions, and ISEP problems and limitations, which caused the plant to be down for much of January and September to December;
- The LPVCWD Treatment Plant achieved an annual average extraction rate of 1,911 gpm, which is 84.9% the EPA-approved extraction rate of 2,250 gpm. LPVCWD operated using LPVCWD 5 as the primary well, with production supplemented by LPVCWD 2 and 3 when LPVCWD 5 was offline;
- The SGVWC B6 Treatment Plant operated at an annual average flow rate of 4,042 gpm, which is approximately 62.2% of the EPA-approved extraction rate of 6,500 gpm. The reduced extraction rate was due primarily to the inability to discharge to the channel during DDW review of the revised water supply permit, which included the new single pass IX system. The plant remained offline until April 14, 2014, when it resumed discharge to the channel. On September 5, 2014, the SGVWC B6 Subproject returned to serving treated water through their distribution system;
- The SGVWC B5 Treatment Plant operated at an annual average flow rate of 6,546 gpm, which is 93.5% of the EPA-approved extraction rate of 7,000 gpm;

- The CDWC Treatment Plant operated at an annual average flow rate of 15,038 gpm, which is 188% of the minimum extraction rate of 8,000 gpm for the Bassett Wellfield requested by EPA; and
- Overall, BPOU extraction from the combined four primary treatment facilities averaged 15,154 gpm on an annual basis, compared to the EPA-approved extraction rate of 21,750 gpm, or approximately 64.9% of the target operational rate of 23,350 gpm. An additional 15,038 gpm was extracted and treated by the CDWC in 2014.

The chemical mass removed at the VCWD Lante, LPVCWD, SGVWC B6, SGVWC B5, and CDWC Treatment Plants were 1,269 pounds, 336.5 pounds, 1640 pounds, 426 pounds, and 1,930 pounds, respectively (Table 6-20). The BPOU project-wide total mass removed in 2014 was 5,602 pounds. VCWD Lante, LPVCWD, SGVWC B6, and SGVWC B5 removed 3,673 pounds, which was greater than last year's total of 3,561 pounds. Since 2004, the cumulative chemical mass removed is 67,823 pounds (Table 6-20).

Table 6-20 also presents a summary of the mass removal rate in terms of pounds of COCs removed per 1,000 gpm of groundwater extracted as an indicator of mass removal efficiency. The flow-weighted mass removal rate (mass removed/groundwater extracted) in 2014 was 188 lbs/1,000 gpm compared to the 2013 mass removal rate of 238 lbs/1,000 gpm. Mass removal rates for VCWD and LPVCWD peaked in the time period 2009 – 2011 and have decreased since that time, while trends in B6 and B5 rates are less definitive. Project-wide, mass removal rates peaked in 2009-2011 and have declined since then, largely reflecting reductions in COC concentrations in groundwater particularly within Subarea 1.

7.1.4 Assessment of Migration Control

Consistent with previous annual reports, the BPOU groundwater model will be used to assess extraction system performance relative to migration control in 2014. This assessment will be submitted under separate cover following the completion of current efforts to update and recalibrate the BPOU groundwater model.

7.2 Treatment System Operations

The treatment plant operations that were described in detail earlier in this report are summarized below.

7.2.1 Subarea 1 – Valley County Water District Lante Subproject

The VCWD Lante Treatment Plant operated under its DDW drinking water permit and delivered fully treated water to SWS. The VCWD Subproject extracted and treated groundwater at an annual rate of about 2,656 gpm, which was 44.3% of the extraction target.

This was largely the result of ongoing ISEP problems and limitations, particularly ISEP B being offline all year. The treatment plant reliably treated extracted groundwater to drinking water standards. Treatment plant modifications and other operational improvements, as well as operational problems and other issues that impacted operations and performance in 2014, are described in Section 2.1. Future operational improvements include:

- The VCWD will proceed with design and construction of the VCWD ISEP bypass piping, ISEP modifications, and a new well at the treatment plant location;
- VCWD will coordinate with DDW on the testing and permitting for the single pass IX, ISEP reconfiguration, ISEP bypass piping, UV optimization, and the installation of a new well; and

VCWD will work with RWQCB and LACDPW to obtain discharge permits for construction, development, and testing of a new well, IX testing, and UV performance testing.

7.2.2 Subarea 3 – La Puente Valley County Water District Subproject

The LPVCWD Subproject extracted and treated groundwater at an annual rate of about 1,911 gpm, which was 84.9% of the extraction target. The plant reliably treated raw water to drinking water standards for all COCs.

Treatment plant modifications and other operational improvements, as well as operational problems and other issues that impacted operations and performance in 2014, are described in Section 2.2.1. Future operational improvements include:

- LPVCWD will rehabilitate and redevelop Well 3;
- LPVCWD will prepare an evaluation on disposal methods for the salt contained in one of the two salt tanks from the ISEP facility;
- LPVCWD will perform Phase 1 of a study to evaluate reconfiguring the treatment train and prepare a treatment train reconfiguration report; and
- LPVCWD will evaluate the use of off-gas heaters to improve the efficiency of vapor phase carbon adsorption from the air strippers.

7.2.3 Subarea 3 – San Gabriel Valley Water Company B6 Subproject

The SGVWC B6 Treatment Plant was offline for the first part of 2014 due primarily to the inability to discharge to the channel during DDW review of the revised water supply permit, which included the new single pass IX system. The permit approval for the single pass IX system was provided in August 2014 and the SGVWC B6 Subproject returned to serving water into their distribution system on September 5, 2014. As a result of the extended downtime the

SGVWC B6 Treatment Plant extracted and treated water at an annual rate of 4,042 gpm, which was 62.2% of the extraction target. The plant reliably treated raw water to drinking water standards for all COCs.

Treatment plant modifications and other operational improvements, as well as operational problems and other issues that impacted operations and performance in 2014, are described in Section 2.2.2. Future operational improvements include:

- Construction of the new nitrate IX system will be completed in 2015; and
- SGVWC will proceed with obtaining a Los Angeles County Sanitation District sewer connection permit for the discharge of backwash water generated by the perchlorate specific single-pass IX system.

7.2.4 Subarea 3 – San Gabriel Valley Water Company B5 Subproject

The SGVWC B5 Treatment Plant operated at an average annual flow rate of 6,656 gpm. The plant reliably treated raw water to drinking water standards for all COCs.

Operational improvements, as well as operational problems and other issues that impacted operations and performance in 2014, are described in Section 2.2.3. There are currently no planned future operational improvements.

7.2.5 Subarea 3 – California Domestic Water Company Treatment Plant\

The CDWC Treatment Plant operated at an average annual flow rate of 15,038 gpm. The plant reliably treated raw water to drinking water standards for all COCs.

Treatment plant modifications and other operational improvements, as well as operational problems and other issues that impacted operations and performance in 2014, are described in Section 2.2.4. In late 2014 CDWC approved an effort to design a fourth air stripper and related modifications to the CDWC treatment facility.

8. SUMMARY AND RECOMMENDATIONS

Although two of the four operating treatment facilities (VCWD Lante and SGVWC B6) experienced significant operational interruptions for portions of 2014, operation of project extraction wells, as supplemented by production wells and treatment facilities in the CDWC Bassett Wellfield, continued to limit the migration of COCs in groundwater and removed chemical mass consistent with the remedial objectives established in the UAO.

Recommendations and operational issues to be addressed for the BPOU treatment plants in 2015 include:

- Implement the agreed-upon nitrate-related management plan for the VCWD Lante Treatment facility;
- Implement single pass IX treatment at the VCWD Lante Treatment facility;
- Implement the EPA approved modified extraction scheme in Subarea 1 (5,000 gpm of extraction in the vicinity of well SA1-3 and 1,000 gpm from SA1-1) by constructing a new well at the Lante Treatment Plant site;
- Install nitrate IX treatment for the SGVWC B6 Subproject;
- Continue to track carbon and resin change outs and provide disposal certificates to EPA in the monthly progress reports;
- Continue inspection and maintenance of the VCWD Lante, LPVCWD, and SGVWC B6 air strippers; and
- Continue to evaluate and improve operational efficiency of the LPVCWD, VCWD Lante, SGVWC B6, SGVWC B5, and CDWC Subprojects.

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TABLES

TABLE 2-1
2014 GROUNDWATER EXTRACTION VOLUMES AND RATES
Baldwin Park Operable Unit
San Gabriel Valley, California

Extraction Well	Design Extraction Rates (gpm)	Target Operational Extraction Rates (gpm)	EPA Approved Extraction Rates (gpm)	January 2014 Well Production (acre-feet)	January 2014 Average Production Rate[1] (gpm)	February 2014 Well Production (acre-feet)	February 2014 Average Production Rate[1] (gpm)	March 2014 Well Production (acre-feet)	March 2014 Average Production Rate[1] (gpm)	April 2014 Well Production (acre-feet)	April 2014 Average Production Rate[1] (gpm)	May 2014 Well Production (acre-feet)	May 2014 Average Production Rate[1] (gpm)	June 2014 Well Production (acre-feet)	June 2014 Average Production Rate[1] (gpm)	July 2014 Well Production (acre-feet)	July 2014 Average Production Rate[1] (gpm)	August 2014 Well Production (acre-feet)	August 2014 Average Production Rate[1] (gpm)	September 2014 Well Production (acre-feet)	September 2014 Average Production Rate[1] (gpm)	October 2014 Well Production (acre-feet)	October 2014 Average Production Rate[1] (gpm)	November 2014 Well Production (acre-feet)	November 2014 Average Production Rate[1] (gpm)	December 2014 Well Production (acre-feet)	December 2014 Average Production Rate[1] (gpm)	Total Annual Production (acre-feet)	Average Annual Production Rate (gpm)	Percentage of EPA-Approved Extraction Rate (%)
Subarea 1																														
VCWD SA-1 Subproject																														
SA1-1	3,400	3,000	1,000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	155.132	1,132	408.489	3,081	173.634	1,267	**737**	**457**	
SA1-2	2,400	2,200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	**0**	**0**	
SA1-3 (VCWD Lante)	2,000	1,800	5,000	0.000	0	130.776	1,057	447.835	3,269	436.563	3,293	452.380	3,302	434.383	3,276	449.602	3,282	436.196	3,184	437.046	3,297	88.447	646	0.000	0	244.015	1,781	**3,557**	**2,199**	
Subtotal	**7,800**	**7,000**	**6,000**	**0.000**	**0**	**130.776**	**1,057**	**447.835**	**3,269**	**436.563**	**3,293**	**452.380**	**3,302**	**434.383**	**3,276**	**449.602**	**3,282**	**436.196**	**3,184**	**437.046**	**3,297**	**243.579**	**1,778**	**408.489**	**3,081**	**417.649**	**3,049**	**4,294**	**2,656**	**44.3**
Subarea 3																														
LPVCWD Subproject																														
LPVCWD 2	Standby	Standby	Standby	8.780	64	0.006	0	4.069	30	2.716	20	28.642	209	103.118	778	39.441	288	0.000	0	146.033	1,102	96.535	705	0.000	0	12.426	91	**442**	**274**	
LPVCWD 3	Standby	Standby	Standby	15.802	115	94.368	763	38.002	277	16.188	122	43.449	317	135.473	1,022	50.517	369	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	**394**	**249**	
LPVCWD 5	2,500	2,250	2,250	266.063	1,942	100.755	814	218.247	1,593	265.98	2,006	215.777	1,575	34.881	263	174.647	1,275	232.910	1,700	9.943	75	155.350	1,134	296.593	2,237	279.846	2,043	**2,251**	**1,388**	
Subtotal	**2,500**	**2,250**	**2,250**	**290.645**	**2,122**	**195.129**	**1,577**	**260.318**	**1,900**	**284.884**	**2,149**	**287.868**	**2,101**	**273.472**	**2,063**	**264.605**	**1,931**	**232.910**	**1,700**	**155.976**	**1,177**	**251.885**	**1,839**	**296.593**	**2,237**	**292.272**	**2,133**	**3,087**	**1,911**	**84.9**
SGVWC B6 Subproject																														
B6C	-	-	-	0.000	0	0.000	0	0.000	0	0.000	0	0.051	0	0.000	0	0.000	0	0.039	0	0.000	0	0.005	0	0.023	0	0.000	0	**0**	**0**	
B6D	-	-	-	0.000	0	0.000	0	0.000	0	0.000	0	0.064	0	0.000	0	0.000	0	0.103	1	0.000	0	0.057	0	0.041	0	0.000	0	**0**	**0**	
B25A (SA3-1S)	2,800	2,500	2,500	0.000	0	0.000	0	0.000	0	121.791	919	257.766	1,881	242.743	1,831	213.928	1,562	191.230	1,396	215.188	1,623	199.378	1,455	224.006	1,690	178.124	1,300	**1,844**	**1,138**	
B25B (SA3-1D)	2,800	2,500	2,500	0.000	0	0.000	0	0.000	0	201.410	1,519	348.000	2,540	333.958	2,519	314.148	2,293	291.364	2,127	351.499	2,651	324.589	2,369	334.940	2,526	279.291	2,039	**2,779**	**1,715**	
B26A (SA3-2S)	1,100	1,000	750	0.000	0	0.000	0	0.000	0	45.087	340	83.402	609	88.193	665	78.981	577	74.745	546	69.337	523	70.946	518	64.233	484	70.069	511	**645**	**398**	
B26B (SA3-2D)	1,100	1,000	750	0.000	0	0.000	0	0.168	1	84.518	638	150.698	1,100	142.865	1,078	136.706	998	137.385	1,003	157.493	1,188	162.452	1,186	147.213	1,110	163.207	1,191	**1,283**	**791**	
Subtotal	**7,800**	**7,000**	**6,500**	**0.000**	**0**	**0.000**	**0**	**0.168**	**1**	**452.806**	**3,415**	**839.981**	**6,130**	**807.759**	**6,092**	**743.763**	**5,429**	**694.867**	**5,072**	**793.517**	**5,985**	**757.427**	**5,528**	**770.456**	**5,811**	**690.691**	**5,041**	**6,551**	**4,042**	**62.2**
SGVWC B5 Subproject																														
B5B	3,300	3,000	3,000	330.404	2,412	363.830	2,940	399.463	2,916	339.272	2,559	366.492	2,675	365.898	2,760	360.914	2,635	365.808	2,670	340.526	2,568	357.043	2,606	339.862	2,563	112.886	824	**4,042**	**2,511**	
B5E	3,300	3,000	3,000	341.364	2,492	368.634	2,979	411.710	3,005	402.697	3,037	417.068	3,044	389.174	2,935	387.236	2,826	389.332	2,842	368.910	2,782	377.686	2,757	368.466	2,779	382.128	2,789	**4,604**	**2,856**	
B5D	Standby	Standby	Standby	113.464	828	3.322	27	2.078	15	25.569	193	0.891	7	0.849	6	3.177	23	0.686	5	1.233	9	5.094	37	5.395	41	12.064	88	**174**	**107**	
COI 5	1,200	1,000	1,000	149.883	1,094	138.694	1,121	143.992	1,051	146.612	1,106	147.146	1,074	145.691	1,099	141.986	1,036	145.191	1,060	133.999	1,011	142.080	1,037	139.070	1,049	155.117	1,132	**1,729**	**1,073**	
Subtotal	**7,800**	**7,000**	**7,000**	**935.115**	**6,826**	**874.480**	**7,067**	**957.243**	**6,987**	**914.151**	**6,895**	**931.598**	**6,800**	**901.612**	**6,800**	**893.313**	**6,520**	**901.017**	**6,577**	**844.668**	**6,371**	**881.903**	**6,437**	**852.793**	**6,432**	**662.195**	**4,833**	**10,550**	**6,546**	**93.5**
CDWC Project																														
2				0.337	3,054	111.552	2,986	96.534	2,847	134.640	2,765	219.933	2,706	175.930	2,639	209.084	2,529	192.780	2,503	146.208	2,439	74.066	2,376	73.287	2,543	8.726	2,405	**1,443**	**2,649**	
3	NA	NA	--	564.986	4,124	511.311	4,132	595.971	4,350	557.309	4,204	536.389	3,915	542.736	3,982	537.546	3,925	466.866	3,951	580.257	3,967	540.459	3,951	429.529	4,028	580.606	3,864	**6,444**	**4,033**	
5A	NA	NA	--	504.906	3,686	414.830	3,352	449.812	3,283	491.127	3,704	474.268	3,462	484.500	3,565	475.062	3,491	418.967	3,477	499.059	3,451	472.238	3,468	366.974	3,448	478.131	3,182	**5,530**	**3,464**	
6	NA	NA	--	45.643	333	39.949	323	11.449	84	33.650	254	258.003	1,883	368.551	3,801	472.844	3,758	369.029	3,721	447.360	3,690	321.331	3,679	300.976	3,671	103.795	691	**2,773**	**2,157**	
8				287.828	3,090	65.340	3,091	221.079	3,071	292.365	3,005	315.048	2,667	335.923	2,604	317.707	2,544	292.553	2,515	331.084	2,504	335.964	2,466	219.421	2,518	148.593	2,735	**3,163**	**2,734**	
Subtotal	**NA**		**8,000**	**1,404**	**14,287**	**1,143**	**13,885**	**1,375**	**13,635**	**1,509**	**13,932**	**1,804**	**14,633**	**1,908**	**16,592**	**2,012**	**16,247**	**1,740**	**16,167**	**2,004**	**16,051**	**1,744**	**15,940**	**1,390**	**16,208**	**1,320**	**12,877**	**19,352**	**15,038**	**188.0**
Total	**25,900**	**23,250**	**21,750 ****	**2,629**	**23,234**	**2,343**	**23,586**	**3,040**	**25,793**	**3,597**	**29,685**	**4,315**	**32,967**	**4,325**	**34,823**	**4,364**	**33,410**	**4,005**	**32,700**	**4,235**	**32,880**	**3,879**	**31,522**	**3,719**	**33,770**	**3,383**	**27,933**	**43,835**	**30,192**	**69.7 ****

Notes:
[1] - Average production rates estimated by dividing the total monthly well production by the number of minutes in each month.
gpm - gallons per minute.
1 acre-foot = 325,851 gallons.
* - There is a discrepancy between production figures reported by La Puente and San Gabriel for well COI #5. La Puente reported 157.47 AF. The San Gabriel value is reported.
** - Values exclude CDWC; including CDWC results in extraction >100% of the overall extraction target.
NA - Not Applicable.

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TABLE 3-1
2014 POTENTIOMETRIC MONITORING NETWORK AND MEASUREMENT FREQUENCY

Baldwin Park Operable Unit
San Gabriel Valley, California

Well Name	Site ID	Measurement Frequency		
		Weekly	Quarterly	Semi-Annual
Extraction Wells				
COI 5	08000097		x	
LPVCWD 05	08000209		x	
SA1-1	08000185		x	
SA1-2	08000186		x	
SA1-3 (LANTE)	08000060		x	
SGVWC B25A	08000187		x	
SGVWC B25B	08000188		x	
SGVWC B26A	08000189		x	
SGVWC B26B	08000190		x	
SGVWC B5B	61900719		x	
SGVWC B5E	08000205		x	
Piezometers				
PZ1-1AD	PZ1-1AD		x	
PZ1-1AS	PZ1-1AS		x	
PZ1-1BD	PZ1-1BD		x	
PZ1-1BS	PZ1-1BS		x	
PZ1-2AD	PZ1-2AD		x	
PZ1-2AS	PZ1-2AS		x	
PZ1-2BD	PZ1-2BD		x	
PZ1-2BS	PZ1-2BS		x	
PZ1-3AD	PZ1-3AD		x	
PZ1-3AS	PZ1-3AS		x	
PZ1-3BD	PZ1-3BD		x	
PZ1-3BS	PZ1-3BS		x	
PZ3-1AD	PZ3-1AD		x	
PZ3-1AS	PZ3-1AS		x	
PZ3-1BD	PZ3-1BD		x	
PZ3-1BS	PZ3-1BS		x	
PZ3-2AD	PZ3-2AD		x	
PZ3-2AS	PZ3-2AS		x	
PZ3-2BD	PZ3-2BD		x	
PZ3-2BS	PZ3-2BS		x	
PZ3-5EAD	PZ3-5EAD		x	
PZ3-5EAS	PZ3-5EAS		x	
PZ3-5EBD	PZ3-5EBD		x	
PZ3-5EBS	PZ3-5EBS		x	
PZ3-CI5AD	PZ3-CI5AD		x	
PZ3-CI5AS	PZ3-CI5AS		x	
PZ3-CI5BD	PZ3-CI5BD		x	
PZ3-CI5BS	PZ3-CI5BS		x	

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TABLE 3-1
2014 POTENTIOMETRIC MONITORING NETWORK AND MEASUREMENT FREQUENCY

Baldwin Park Operable Unit
San Gabriel Valley, California

Well Name	Site ID	Measurement Frequency		
		Weekly	Quarterly	Semi-Annual
PZ3-LP3AD	PZ3-LP3AD		x	
PZ3-LP3AS	PZ3-LP3AS		x	
PZ3-LP3BD	PZ3-LP3BD		x	
PZ3-LP3BS	PZ3-LP3BS		x	
PZ3-5BA	PZ3-5BAS		x	
PZ3-5BB	PZ3-5BBS		x	
SGVWC B5A	61900718		x	
Multiport Monitoring Wells				
MW 5-01	EPAW51			x
MW 5-03	BPW503			x
MW 5-05	BPW505			x
MW 5-08	BPW508			x
MW 5-11	BPW511			x
MW 5-13	BPW513			x
MW 5-15	BPW515			x
MW 5-17	BPW517			x
MW 5-18	BPW518			x
MW 5-19	BPW519			x
MW 5-20	BPW520			x
MW 5-22	BPW522			x
MW 5-23	BPW523			x
MW 5-24	BPW524			x
MW 5-25	BPW525			x
MW 5-26	BPW526			x
MW 5-27	BPW527			x
WHICO MP-1	W10WHMP1			x
Other Monitoring Wells				
LACO KEY	Z1000006	x		

TABLE 3-2
SUMMARY OF PSEP AND DDW REQUIREMENTS FOR SOURCE WATER AND UPGRADIENT SURVEILLANCE MONITORING
Baldwin Park Operable Unit
San Gabriel Valley, California

Well Name	Site ID	Port or Sampling Depth (ft bgs)	PSEP Requirements: Analytes and Sampling Frequency [a]						DDW Requirements									
									EPA Method 524.2	EPA Method 1625C (MOD)	EPA Method 521	EPA Method 314.0	EPA Method 300.0	EPA Method 353.2	EPA Method 8270C (MOD)	EPA Method 525.2 or 625 or 8270C	EPA Method 524.2 SIM (MOD)	Various Methods
			VOCs	123-TCP	1,4-Dioxane	NDMA	Perchlorate	Nitrate, Sulfate	VOCs including TICs	NDMA	Nitrosamines	Perchlorate	NO_3	SO_4	1,4-Dioxane	SVOCs including TICs	123-TCP	Title 22 Non-Volatile SOCs[d]
Extraction Wells																		
COI 5[b]	08000097		Q	Q		Q	Q	Q	M[c]	M	M	M	M		M	A	M	
LPVCWD 05[b]	08000209		Q	A	Q	Q	Q	Q	M[c]	M		M	M	M	M	A	A	
SA1-1[b]	08000185		Q	Q	Q	Q	Q	Q	M[c]	M		M	M	M	M	A	M	
SA1-2[b]	08000186		Q	Q	Q	Q	Q	Q	M[c]	M		M	M	M	M	A	M	
SA1-3 (Lante)[b]	08000060		Q	Q	Q	Q	Q	Q	M[c]	M		M	M	M	M	A	M	
SGVWC B25A[b]	08000187		Q	Q	Q	Q	Q	Q	M[c]	M		M	M	M	M	A		
SGVWC B25B[b]	08000188		Q	Q	Q	Q	Q	Q	M[c]	M		M	M	M	M	A		
SGVWC B26A[b]	08000189		Q	Q	Q	Q	Q	Q	M[c]	M		M	M	M	M	A		
SGVWC B26B[b]	08000190		Q	Q	Q	Q	Q	Q	M[c]	M		M	M	M	M	A		
SGVWC B5B[b]	61900719		Q	Q		Q	Q	Q	M[c]	M	M	M	M		M	A	M	
SGVWC B5E[b]	08000205		Q	Q		Q	Q	Q	M[c]	M	M	M	M		M	A	M	
Multiport Monitoring Wells																		
MW5-01	BPW501	Port 13	A		A	A	A	A										
		Port 12	A		A	A	A	A										
		Port 11	A		A	A	A	A										
		Port 10	A		A	A	A	A										
		Port 9	A		A	A	A	A										
		Port 8	A			A	A	A										
		Port 7	A			A	A	A										
		Port 6	A			A	A	A										
		Port 5	A			A	A	A										
		Port 4	A			A	A	A										
		Port 3	A			A	A	A										
		Port 2	A			A	A	A										
		Port 1	A			A	A	A										
MW5-03[b]	BPW503	Port 10	SA	A	SA	SA	SA	SA	A[c]	A	A	A	A		A	A	A	
		Port 9	SA	A	SA	SA	SA	SA	A[c]	A	A	A	A		A	A	A	A
		Port 8	SA	A	SA	SA	SA	SA	A[c]	A	A	A	A		A	A	A	
		Port 7	SA	A	SA	SA	SA	SA	A[c]	A	A	A	A		A	A	A	
		Port 6	SA	A	SA	SA	SA	SA	A[c]	A	A	A	A		A	A	A	A
		Port 5	SA	A		SA	SA	SA	A[c]	A	A	A	A		A	A	A	
		Port 4	A	A		A	A	A	A[c]	A	A	A	A		A	A	A	

TABLE 3-2
SUMMARY OF PSEP AND DDW REQUIREMENTS FOR SOURCE WATER AND UPGRADIENT SURVEILLANCE MONITORING
Baldwin Park Operable Unit
San Gabriel Valley, California

			PSEP Requirements						DDW Requirements									
			Analytes and Sampling Frequency [a]						EPA Method 524.2	EPA Method 1625C (MOD)	EPA Method 521	EPA Method 314.0	EPA Method 300.0	EPA Method 353.2	EPA Method 8270C (MOD)	EPA Method 525.2 or 625 or 8270C	EPA Method 524.2 SIM (MOD)	Various Methods
Well Name	**Site ID**	**Port or Sampling Depth (ft bgs)**	VOCs	123-TCP	1,4-Dioxane	NDMA	Perchlorate	Nitrate, Sulfate	VOCs including TICs	NDMA	Nitrosamines	Perchlorate	NO_3	SO_4	1,4-Dioxane	SVOCs including TICs	123-TCP	Title 22 Non-Volatile SOCs[d]
		Port 3	A	A		A	A	A	A[c]	A	A	A	A		A	A	A	
		Port 2	A	A		A	A	A	A[c]	A	A	A	A		A	A	A	
		Port 1	A	A		A	A	A	A[c]	A	A	A	A		A	A	A	
MW5-05[b]	BPW505	Port 4	A		A	A	A	A	A[c]	A		A	A		A	A		
		Port 3	A		A	A	A	A	A[c]	A		A	A		A	A		
		Port 2	A		A	A	A	A	A[c]	A		A	A		A	A		
		Port 1	A		A	A	A	A	A[c]	A		A	A		A	A		
MW5-08[b]	BPW508	Port 4	A		A	A	A	A	A[c]	A		A	A		A	A		
		Port 3	A		A	A	A	A	A[c]	A		A	A		A	A		
		Port 2	A		A	A	A	A	A[c]	A		A	A		A	A		
		Port 1	A			A	A	A	A[c]	A		A	A		A	A		
MW5-11[b]	BPW511	Port 3	A	A	A	A	A	A	A[c]	A	A	A	A		A	A	A	A
		Port 2	A	A	A	A	A	A	A[c]	A	A	A	A		A	A	A	A
		Port 1	A	A	A	A	A	A	A[c]	A	A	A	A		A	A	A	
MW5-13[b]	BPW513	Port 3	A	BIE	A	A	A	A	BIE[c]	BIE	BIE	BIE	BIE		BIE	BIE	BIE	BIE
		Port 2	A	BIE	A	A	A	A	BIE[c]	BIE	BIE	BIE	BIE		BIE	BIE	BIE	BIE
		Port 1	A	BIE	A	A	A	A	BIE[c]	BIE	BIE	BIE	BIE		BIE	BIE	BIE	
MW5-15[b]	BPW515	Port 3	A		A	A	A	A	A[c]	A		A	A		A	A		
		Port 2	A		A	A	A	A	A[c]	A		A	A		A	A		
		Port 1	A		A	A	A	A	A[c]	A		A	A		A	A		
MW5-17[b]	BPW517	Port 3	A	BIE	A	A	A	A	BIE[c]	BIE	BIE	BIE	BIE		BIE	BIE	BIE	BIE
		Port 2	A	BIE	A	A	A	A	BIE[c]	BIE	BIE	BIE	BIE		BIE	BIE	BIE	BIE
		Port 1	A	BIE	A	A	A	A	BIE[c]	BIE	BIE	BIE	BIE		BIE	BIE	BIE	
MW5-18[b]	BPW518	Port 3	A	A	A	A	A	A	A[c]	A	A	A			A	A	A	A
		Port 2	A	A	A	A	A	A	A[c]	A	A	A			A	A	A	A
		Port 1	A	A		A	A	A	A[c]	A	A	A			A	A	A	
MW5-19	BPW519	Port 6	A		A	A	A	A										
		Port 5	SA		SA	SA	SA	SA										
		Port 4	SA		SA	SA	SA	SA										
		Port 3	SA			SA	SA	SA										
		Port 2	A			A	A	A										
		Port 1	A			A	A	A										
MW5-20	BPW520	Port 7	A			A	A	A										

TABLE 3-2
SUMMARY OF PSEP AND DDW REQUIREMENTS FOR SOURCE WATER AND UPGRADIENT SURVEILLANCE MONITORING
Baldwin Park Operable Unit
San Gabriel Valley, California

			PSEP Requirements						DDW Requirements									
			Analytes and Sampling Frequency [a]						EPA Method 524.2	EPA Method 1625C (MOD)	EPA Method 521	EPA Method 314.0	EPA Method 300.0	EPA Method 353.2	EPA Method 8270C (MOD)	EPA Method 525.2 or 625 or 8270C	EPA Method 524.2 SIM (MOD)	Various Methods
Well Name	**Site ID**	**Port or Sampling Depth (ft bgs)**	VOCs	123-TCP	1,4-Dioxane	NDMA	Perchlorate	Nitrate, Sulfate	VOCs including TICs	NDMA	Nitrosamines	Perchlorate	NO_3	SO_4	1,4-Dioxane	SVOCs including TICs	123-TCP	Title 22 Non-Volatile SOCs[d]
		Port 6	A			A	A	A										
		Port 5	A		A	A	A	A										
		Port 4	A		A	A	A	A										
		Port 3	A		A	A	A	A										
		Port 2	A		A	A	A	A										
		Port 1	A			A	A	A										
MW5-22[b]	BPW522	Port 6	A	A		A	A	A	A[c]	A		A	A		A	A	A	
		Port 5	A	A		A	A	A	A[c]	A		A	A		A	A	A	
		Port 4	A	A		A	A	A	A[c]	A		A	A		A	A	A	
		Port 3	A	A		A	A	A	A[c]	A		A	A		A	A	A	
		Port 2	A	A		A	A	A	A[c]	A		A	A		A	A	A	
		Port 1	A	A		A	A	A	A[c]	A		A	A		A	A	A	
MW5-23	BPW523	Port 6	A			A	A	A										
		Port 5	A		A	A	A	A										
		Port 4	A		A	A	A	A										
		Port 3	A		A	A	A	A										
		Port 2	A		A	A	A	A										
		Port 1	A			A	A	A										
MW5-24	BPW524	Port 7	SA		SA	SA	SA	SA										
		Port 6	SA		SA	SA	SA	SA										
		Port 5	SA		SA	SA	SA	SA										
		Port 4	SA		SA	SA	SA	SA										
		Port 3	SA		SA	SA	SA	SA										
		Port 2	SA		SA	SA	SA	SA										
		Port 1	SA		SA	SA	SA	SA										
MW5-25	BPW525	Port 7	SA			SA	SA	SA										
		Port 6	SA			SA	SA	SA										
		Port 5	SA		SA	SA	SA	SA										
		Port 4	SA		SA	SA	SA	SA										
		Port 3	SA		SA	SA	SA	SA										
		Port 2	SA		SA	SA	SA	SA										
		Port 1	SA		SA	SA	SA	SA										
MW5-26	BPW526	Port 7	SA			SA	SA	SA										

TABLE 3-2
SUMMARY OF PSEP AND DDW REQUIREMENTS FOR SOURCE WATER AND UPGRADIENT SURVEILLANCE MONITORING
Baldwin Park Operable Unit
San Gabriel Valley, California

Well Name	Site ID	Port or Sampling Depth (ft bgs)	PSEP Requirements: Analytes and Sampling Frequency [a]						DDW Requirements									
									EPA Method 524.2	EPA Method 1625C (MOD)	EPA Method 521	EPA Method 314.0	EPA Method 300.0	EPA Method 353.2	EPA Method 8270C (MOD)	EPA Method 525.2 or 625 or 8270C	EPA Method 524.2 SIM (MOD)	Various Methods
			VOCs	123-TCP	1,4-Dioxane	NDMA	Perchlorate	Nitrate, Sulfate	VOCs including TICs	NDMA	Nitrosamines	Perchlorate	NO_3	SO_4	1,4-Dioxane	SVOCs including TICs	123-TCP	Title 22 Non-Volatile SOCs[d]
		Port 6	SA			SA	SA	SA										
		Port 5	SA			SA	SA	SA										
		Port 4	SA			SA	SA	SA										
		Port 3	SA			SA	SA	SA										
		Port 2	SA			SA	SA	SA										
		Port 1	SA			SA	SA	SA										
MW5-27	BPW527	Port 7	SA			SA	SA	SA										
		Port 6	SA			SA	SA	SA										
		Port 5	SA			SA	SA	SA										
		Port 4	SA			SA	SA	SA										
		Port 3	SA			SA	SA	SA										
		Port 2	SA			SA	SA	SA										
		Port 1	SA			SA	SA	SA										
WHICO MP-1	W10WHMP1	Port 6	A		A	A	A	A										
		Port 5	A		A	A	A	A										
		Port 4	A		A	A	A	A										
		Port 3	A		A	A	A	A										
		Port 2	A		A	A	A	A										
		Port 1	A		A	A	A	A										
Monitoring Wells																		
AJMW-2R	W11AJMW2R		A		A	A	A	A										
AJMW-4	W11AJMW4		A		A	A	A	A										
AJMW-6	W11AJMW6		A		A	A	A	A										
ALR MW-1R	W11AZW01R		A		A	A	A	A										
ALR MW-8	W11AZW08		A		A	A	A	A										
ALR MW-9	W11AZW09		A		A	A	A	A										
LACO Key	Z1000006		A		A	A	A	A										
Monitoring Well Cluster																		
MW 5-28D	BPW528D		A		A	A	A	A										
MW 5-28I	BPW528I		A		A	A	A	A										
MW 5-28S	BPW528S		A		A	A	A	A										
Production Wells																		
CC E Durbin	01902920		A			A	A	A										

TABLE 3-2
SUMMARY OF PSEP AND DDW REQUIREMENTS FOR SOURCE WATER AND UPGRADIENT SURVEILLANCE MONITORING
Baldwin Park Operable Unit
San Gabriel Valley, California

			PSEP Requirements						DDW Requirements									
			Analytes and Sampling Frequency [a]						EPA Method 524.2	EPA Method 1625C (MOD)	EPA Method 521	EPA Method 314.0	EPA Method 300.0	EPA Method 353.2	EPA Method 8270C (MOD)	EPA Method 525.2 or 625 or 8270C	EPA Method 524.2 SIM (MOD)	Various Methods
Well Name	**Site ID**	**Port or Sampling Depth (ft bgs)**	VOCs	123-TCP	1,4-Dioxane	NDMA	Perchlorate	Nitrate, Sulfate	VOCs including TICs	NDMA	Nitrosamines	Perchlorate	NO_3	SO_4	1,4-Dioxane	SVOCs including TICs	123-TCP	Title 22 Non-Volatile SOCs[d]
CDWC 03	01903057		A			A	A	A										
CIC Baldwin 1	01900885		A			A	A	A										
LACO SF1	08000070		A		A	A	A	A										
SGVWC B6D	08000098		A		A	A	A	A										
SWS 139W2	01901599	285	A			A	A	A										
		370	A			A	A	A										
SWS 139W6	08000152	975	A			A	A	A										
SWS 140W5	08000145		A			A	A	A										
VCWD Big Dalton[b]	01900035	275	A		A	A	A	A	A[c]	A		A	A		A	A		
		410	A		A	A	A	A										
VCWD E Maine	01900027		A			A	A	A										
VCWD Morada	01900029	430	A		A	A	A	A										
		510	A		A	A	A	A										
VCWD Paddy Lane[b]	01900031	340	A		A	A	A	A	A[c]	A		A	A		A	A		
		460	A		A	A	A	A										
VCWD W Maine	01900028		A			A	A	A										

[a] Sampling freqency:
BIE (Biennial)
A (Annual)
SA (Semi-annual)
Q (Quarterly)
M (Monthly
BIW (Biweekly)

[b] DDW required monitoring
[c] TIC analysis annually
[d] Non-volatile synthetic organic chemicals - includes Ethylene Bromide

TABLE 4-1
CARBON AND RESIN CHANGE OUT SUMMARY 2009 - 2014
Baldwin Park Operable Unit
Los Angeles County, California

Plant	Date	Resin or Carbon	Volume	Certificates Received
VCWD	23 to 30-Mar-09	Liquid Phase Carbon	80,000 lbs	Yes
	Apr-09	Liquid Phase Carbon	120,000 lbs	Yes
	29-Jun-09	Vapor Phase Carbon	20,000 lbs	Yes
	13-Jul-09	Vapor Phase Carbon	20,000 lbs	Yes
	21 & 28-Oct-09	Vapor Phase Carbon	40,000 lbs	Yes
	Feb-10	Liquid Phase Carbon	200,000 lbs	Yes
	23, 24 & 28-Sept-10	Liquid Phase Carbon	100,000 lbs	Yes
	1, 5 & 7-Oct-10	Liquid Phase Carbon	100,000 lbs	Yes
	14 & 18-Oct-10	Vapor Phase Carbon	40,000 lbs	Yes
	25 & 26-Jan-11	Vapor Phase Carbon	20,000 lbs	Yes
	10, 13, 16, 20, 23-June-11	Liquid Phase Carbon	200,000 lbs	Yes
	18-Aug-11	Vapor Phase Carbon	20,000 lbs	Yes
	2-Feb-12	Vapor Phase Carbon	20,000 lbs	Yes
	8 to 23-March-12	Liquid Phase Carbon	200,000 lbs	Yes
	23-Mar-12	Vapor Phase Carbon	20,000 lbs	Yes
	6-Apr-12	Vapor Phase Carbon	20,000 lbs	Yes
	21, 22, 23, 24, 25-Oct-12	Liquid Phase Carbon	160,000 lbs	No
	18-Dec-12	Liquid Phase Carbon	20,000 lbs	No
	5 to 19-Sept-13	Liquid Phase Carbon	200,000 lbs	Yes
	Feb-14	ISEP Resin	1,950 cubic feet	No
	5-May-14	Vapor Phase Carbon	20,000 lbs	Yes
	11-Nov-14	Vapor Phase Carbon	20,000 lbs	No
LPVCWD	9-Mar-09	Vapor Phase Carbon	27,400 lbs	Yes
	15-May-09	Vapor Phase Carbon	27,400 lbs	Yes
	23-Jul-09	Vapor Phase Carbon	27,400 lbs	Yes
	1-Oct-09	Vapor Phase Carbon	27,400 lbs	Yes
	10-Dec-09	Vapor Phase Carbon	27,400 lbs	Yes
	28-Apr-10	Vapor Phase Carbon	27,400 lbs	Yes
	7-Jul-10	Vapor Phase Carbon	27,400 lbs	Yes
	14-Sep-10	Vapor Phase Carbon	27,400 lbs	Yes
	23-Nov-10	Vapor Phase Carbon	27,400 lbs	Yes
	1-Feb-11	Vapor Phase Carbon	27,400 lbs	Yes
	11-Apr-11	Vapor Phase Carbon	27,400 lbs	Yes
	17, 18, 19-May-11	Resin	850 cubic feet	Yes
	3-Nov-11	Vapor Phase Carbon	27,400 lbs	Yes
	19, 20-Dec-11	Resin	850 cubic feet	Yes
	4, 5-June-12	Resin	850 cubic feet	Yes
	2-Jul-12	Vapor Phase Carbon	27,400 lbs	No
	3-Jan-13	Resin	425 cubic feet	No
	2-Jul-13	Vapor Phase Carbon	27,400 lbs	No
	8, 28-Aug-13	Resin	850 cubic feet	No
	15-Jan-14	Resin	425 cubic feet	No
	17-Mar-14	Resin	425 cubic feet	No
	25-Jul-14	Vapor Phase Carbon	27,400 lbs	No
B5	5-Feb-09	Liquid Phase Carbon	320,000 lbs	Yes
	13-Mar-09	Resin	Unclear	Yes
	23-Mar-09	Resin	Unclear	Yes
	27 & 29-May-09	Liquid Phase Carbon	40,000 lbs	Yes
	2, 4, 9, 11, 16, 18, 23, 25, & 30-Jun-09	Liquid Phase Carbon	200,000 lbs	Yes
	2 & 14-Jul-09	Liquid Phase Carbon	40,000 lbs	Yes
	16-Oct-09	Liquid Phase Carbon	40,000 lbs	Yes
	3, 6, 12, 16, 20, 23, & 25-Nov-09	Liquid Phase Carbon	140,000 lbs	Yes
	10, 11, & 18-Dec-09	Resin	1272 cubic feet	Yes
	5, 12 & 17-Feb-10	Liquid Phase Carbon	120,000 lbs	Yes
	26-Feb-10	Liquid Phase Carbon	40,000 lbs	Yes
	6-Apr-10	Resin	1275 cubic feet	Yes
	3, 7, 15, 18, 25-Jun-10	Liquid Phase Carbon	240,000 lbs	Yes
	29-Jun-10	Resin	848 cubic feet	Yes
	2, 12, 17, 24-Aug-10	Liquid Phase Carbon	160,000 lbs	Yes
	9, 16, 23, 29-Nov-10	Liquid Phase Carbon	160,000 lbs	Yes
	1, 8, 15, 22-Feb-11	Liquid Phase Carbon	140,000 lbs	Yes
	8-Mar-11	Liquid Phase Carbon	20,000 lbs	Yes
	15-Mar-11	Resin	850 cubic feet	No
	3-May-11	Resin	848 cubic feet	No
	24-May-11	Liquid Phase Carbon	40,000 lbs	Yes
	1-Jun-11	Liquid Phase Carbon	40,000 lbs	Yes
	9, 14-June -11	Liquid Phase Carbon	80,000 lbs	Yes
	10, 16, 23, 29-Aug -11	Liquid Phase Carbon	160,000 lbs	Yes
	20, 26-Jan -12	Liquid Phase Carbon	80,000 lbs	Yes
	20, 26-Jan -12	Liquid Phase Carbon	80,000 lbs	Yes
	2, 9-Feb -12	Liquid Phase Carbon	80,000 lbs	Yes
	22, 28-Mar -12	Liquid Phase Carbon	80,000 lbs	No
	3, 10-Apr-12	Liquid Phase Carbon	80,000 lbs	No
	21, 30-May -12	Liquid Phase Carbon	80,000 lbs	Yes
	22-May-12	Resin	850 cubic feet	No
	5, 12-June -12	Liquid Phase Carbon	80,000 lbs	Yes

TABLE 4-1
CARBON AND RESIN CHANGE OUT SUMMARY 2009 - 2014
Baldwin Park Operable Unit
Los Angeles County, California

Plant	Date	Resin or Carbon	Volume	Certificates Received
	3, 10, 18, 25-July -12	Liquid Phase Carbon	160,000 lbs	Yes
	6, 24, 26-July -12	Resin	2,550 cubic feet	No
	4, 11, 18, 25-Sept -12	Liquid Phase Carbon	160,000 lbs	No
	5, 13, 16, 30-Nov -12	Liquid Phase Carbon	160,000 lbs	No
	5, 13, 16, 30-Nov -12	Liquid Phase Carbon	160,000 lbs	Yes
	9, 12, 18, 23-Jan -13	Liquid Phase Carbon	160,000 lbs	Yes
	15, 21, 28-Feb -13	Liquid Phase Carbon	160,000 lbs	Yes
	19-Feb-13	Resin	850 cubic feet	No
	5-May-13	Resin	425 cubic feet	No
	8-Mar-13	Liquid Phase Carbon	40,000 lbs	Yes
	Apr-13	Liquid Phase Carbon	320,000 lbs	Yes
	5, 24-Apr-13	Resin	1,275 cubic feet	No
	3, 16, 23, 30 -July-13	Liquid Phase Carbon	160,000 lbs	Yes
	13, 20, 27-Aug-13	Liquid Phase Carbon	160,000 lbs	Yes
	1, 4, 10, 17-Oct-13	Liquid Phase Carbon	140,000 lbs	No
	9, 16, 23, 30-Dec-13	Liquid Phase Carbon	160,000 lbs	No
	17, 19, 20-Dec-13	Resin	2,120 cubic feet	No
	24-Jan-14	Liquid Phase Carbon	40,000 lbs	Yes
	6, 11, 18-Feb-14	Liquid Phase Carbon	120,000 lbs	Yes
	27-Feb-14	Resin	424 cubic feet	No
	4, 9, 15, 22, 24-Apr-14	Liquid Phase Carbon	200,000 lbs	No
	June-14	Liquid Phase Carbon	80,000 lbs	No
	1-Jul-14	Liquid Phase Carbon	40,000 lbs	No
	7-Aug-14	Liquid Phase Carbon	40,000 lbs	No
	2, 9, 11-Sep-14	Liquid Phase Carbon	120,000 lbs	No
	23-Oct-14	Liquid Phase Carbon	40,000 lbs	Yes
	30-Oct-14	Resin	424 cubic feet	No
	6-Nov-14	Resin	424 cubic feet	No
	Nov-14	Liquid Phase Carbon	120,000 lbs	Yes
	3,4-Dec-14	Resin	848 cubic feet	No
	19-Dec-14	Resin	848 cubic feet	No
B6	9-Jan-09	Vapor Phase Carbon	20,000 lbs	Yes
	30-Jan-09	Vapor Phase Carbon	20,000 lbs	Yes
	20-Feb-09	Vapor Phase Carbon	20,000 lbs	Yes
	23-Feb-09	Vapor Phase Carbon	20,000 lbs	Yes
	4-Nov-09	Vapor Phase Carbon	20,000 lbs	Yes
	4-Dec-09	Vapor Phase Carbon	20,000 lbs	Yes
	2-Mar-10	Vapor Phase Carbon	40,000 lbs	Yes
	4-Nov-10	Vapor Phase Carbon	20,000 lbs	Yes
	1-Mar-11	Vapor Phase Carbon	60,000 lbs	Yes
	1-Dec-11	Vapor Phase Carbon	40,000 lbs	Yes
	27-Dec-11	Vapor Phase Carbon	40,000 lbs	Yes
	24-May-12	Vapor Phase Carbon	20,000 lbs	Yes
	26-May-12	Vapor Phase Carbon	20,000 lbs	Yes
	5-Apr-13	Vapor Phase Carbon	40,000 lbs	No
	21-Jun-13	Vapor Phase Carbon	20,000 lbs	No
	8, 9-May -14	Vapor Phase Carbon	80,000 lbs	Yes
	7, 11-Oct -14	Vapor Phase Carbon	60,000 lbs	No
	16-Oct-14	Resin	424 cubic feet	No
	12-Nov-14	Resin	424 cubic feet	No
CDWC				

Geosyntec consultants

TABLE 5-1
2014 LATERAL HYDRAULIC GRADIENTS
Baldwin Park Operable Unit
San Gabriel Valley, California

May 2014

Elevation Interval (ft msl)	Groundwater Elevation[a] MW 5-03 (ft msl)	Groundwater Elevation[a] MW 5-20 (ft msl)	Estimated Lateral Hydraulic Gradient[b] (ft/ft)
Above -500	196.15	186.73	4.4E-04
Below -500	195.79	176.70	8.9E-04

October 2014

Elevation Interval (ft msl)	Groundwater Elevation[a] MW 5-03 (ft msl)	Groundwater Elevation[a] MW 5-20 (ft msl)	Estimated Lateral Hydraulic Gradient[b] (ft/ft)
Above -500	186.67	177.00	4.5E-04
Below -500	186.69	168.61	8.4E-04

Notes:

a. Average of groundwater elevations measured at ports screened in the elevation interval
Groundwater elevations obtained from the LDC database

b. Distance between MW 5-03 and MW 5-20 estimated at 21,450 ft

ft msl - feet above mean sea level

ft/ft - feet per foot

Geosyntec consultants

TABLE 5-2
2014 VERTICAL HYDRAULIC GRADIENTS
Baldwin Park Operable Unit
San Gabriel Valley, California

Subarea 1

Date	Groundwater Elevation (ft msl)[a] PZ1-1BS	PZ1-1BD	Vertical Distance between Mid-Screens (ft)	Estimated Vertical Hydraulic Gradient (ft/ft)[b,c]
2/19/2014	207.06	206.85	350.14	6.0E-04
10/27/2014	172.76	189.44		-4.8E-02

Date	Groundwater Elevation (ft msl)[a] MW 5-03 Port 9[d]	MW 5-03 Port 1	Vertical Distance between Mid-Screens (ft)	Estimated Vertical Hydraulic Gradient (ft/ft)[b,c]
5/27/2014	196.24	196.08	850.00	1.9E-04
10/30/2014	186.57	187.04		-5.5E-04

Subarea 3

Date	Groundwater Elevation (ft msl)[a] PZ3-1BS	PZ3-1BD	Vertical Distance between Mid-Screens (ft)	Estimated Vertical Hydraulic Gradient (ft/ft)[b,c]
2/19/2014	175.61	166.00	425.02	2.3E-02
10/27/2014	Dry	163.5		NC

Date	Groundwater Elevation (ft msl)[a] MW 5-20 Port 7	MW 5-20 Port 1	Vertical Distance between Mid-Screens (ft)	Estimated Vertical Hydraulic Gradient (ft/ft)[b,c]
5/27/2014	195.53	176.67	720.00	2.6E-02
10/29/2014	187.76	168.65		2.7E-02

Notes:

a. Groundwater elevations obtained from the LDC database
b. Differences in mid-screen depth used for all calculations.
c. Negative vertical gradients indicate upward gradient.
d. MW 5-03 Port 10 was dry during 2014--Port 9 used for gradient calculation.
ft msl - feet above mean sea level
ft/ft - feet per feet
NC - not calculable; PZ3-1BS was dry during October 2014 measurement event.

TABLE 5-3
2013 GROUNDWATER QUALITY MONITORING RESULTS
Baldwin Park Operable Unit
San Gabriel Valley, California

Well Name	Site ID	Port [a]	Sample Date	1,1,1-Trichloroethane (µg/L)	1,1-Dichloroethane (µg/L)	1,1-Dichloroethene (µg/L)	1,2,3-Trichloropropane [b] (µg/L)	1,2-Dichloroethane (µg/L)	1,4-Dioxane (µg/L)	Acetone (µg/L)	Benzene (µg/L)	Carbon Disulfide (µg/L)	Carbon Tetrachloride (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloroethene (µg/L)	Ethylbenzene (µg/L)	Methylene Chloride (µg/L)	NDMA (ng/L)	Perchlorate (µg/L)	Tetrachloroethene (µg/L)	Toluene (µg/L)	trans-1,2-Dichloroethene (µg/L)	Trichloroethene (µg/L)	Xylenes, Total [c] (µg/L)	Nitrate as N [d] (mg/L)	Sulfate (mg/L)
Federal or California State MCL (NL) [SMCL] [e]				**200**	**5**	**6**	**0.005**	**0.5**	**(1)**	**--**	**1**	**160**	**0.5**	**80**	**6**	**300**	**5**	**(10)**	**6**	**5**	**150**	**10**	**5**	**1750**	**10**	**[250]**
Extraction Wells																										
COI 5	8000097		1/6/2014	0.50 U	0.50 U	1.3	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2 U	4.3	**7**	0.50 U	0.50 U	2.9	1.0 U	**28**	--
			2/4/2014	0.50 U	0.50 U	1.4	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2 U	3.9	**6.7**	0.50 U	0.50 U	3.1	1.0 U	**27**	--
			2/10/2014	0.50 U	0.50 U	1.3	0.50 U	0.50 U	--	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1000 U	--	**6.2**	0.50 U	0.50 U	2.8	1.0 U	--	--
			3/4/2014	0.50 U	0.50 U	1.4	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2 U	3.7	**6.6**	0.50 U	0.50 U	2.9	1.0 U	**27**	--
			4/1/2014	0.50 U	0.50 U	1.3	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2 U	4.5	**5.6**	0.50 U	0.50 U	2.7	1.0 U	**26**	--
			5/5/2014	0.50 U	0.50 U	1.6	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2 U	4.2	**8.3**	0.50 U	0.50 U	3.2	1.0 U	**29**	--
			6/2/2014	0.50 U	0.50 U	1.4	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2 U	3.9	**7.9**	0.50 U	0.50 U	3.2	1.0 U	**29**	--
			7/2/2014	0.50 U	0.50 U	1.6	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2 U	4.5	**9.1**	0.50 U	0.50 U	3.5	1.0 U	6	--
			8/4/2014	0.50 U	0.50 U	1.7	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2 U	3.4	**8.9**	0.50 U	0.50 U	3.5	1.0 U	6	--
			9/4/2014	0.50 U	0.50 U	1.6	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2 U	4	**7.9**	0.50 U	0.50 U	3.6	1.0 U	6	--
			10/1/2014	0.50 U	0.50 U	1.8	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2 U	3.7	**9.8**	0.50 U	0.50 U	3.8	1.0 U	6	--
			11/4/2014	0.50 U	0.50 U	1.6	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2 U	5.1	**7.5**	0.50 U	0.50 U	3.7	1.0 U	7	--
			11/12/2014	0.50 U	0.50 U	1.9	0.50 U	0.50 U	--	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1000 U	--	**8.6**	0.50 U	0.50 U	3.5	1.0 U	--	--
			12/3/2014	0.50 U	0.50 U	1.6	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2 U	3.9	**8**	0.50 U	0.50 U	3.3	1.0 U	7	--
LPVCWD 2	01901460		1/29/2014	0.50 U	0.66	0.50 U	0.50 U	**1.9**	**1.3**	--	0.50 U	--	**2.6**	2.1	1.8	0.50 U	0.50 U	**160**	**56**	3.3	0.50 U	0.50 U	**70**	1.0 U	6	42
			February 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3/13/2014	0.50 U	0.50 U	0.50 U	0.50 U	**1.9**	**1.1**	--	0.50 U	--	**2**	1.6	1	0.50 U	0.50 U	**96**	**45**	2.8	0.50 U	0.50 U	**52**	1.0 U	7	49
			April 2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5/22/2014	0.50 U	0.51	0.50 U	0.50 U	0.50 U	**1.5**	--	0.50 U	--	**3.2**	1.8	1.2	0.50 U	0.50 U	**140**	**51**	3.2	0.50 U	0.50 U	**67**	1.0 U	6	45
			June 2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			7/7/2014	0.5 U	0.49 J	0.24 J	0.5 U	**2.2**	**1.5**	--	0.5 U	--	**2.9**	1.8	1.2	0.5 U	0.5 U	**150**	**48**	3.2	0.5 U	0.5 U	**61**	1 U	7	38
			August 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			9/3/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.4	**8.6**	0.88	0.50 U	0.50 U	3.8	1.0 U	7	56
			10/7/2014	0.50 U	0.52	0.50 U	0.50 U	**2.2**	**1.6**	--	0.50 U	--	**3.2**	1.8	1.2	0.50 U	0.50 U	**130**	**52**	3.3	0.50 U	0.50 U	**67**	1.0 U	6	42
			November 2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			12/2/2014	0.50 U	0.64	0.50 U	0.50 U	**2.5**	**1.8**	--	0.50 U	--	**3.8**	2.2	1.5	0.50 U	0.50 U	**200**	**58**	3.9	0.50 U	0.50 U	**82**	1.0 U	6	42
LPVCWD 3	01902859		1/29/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	3.9 J	**8.6**	0.50 U	0.50 U	0.50 U	1.4	1.0 U	8	38
			February 2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3/13/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.5	**9.2**	0.50 U	0.50 U	0.50 U	2	1.0 U	8	41
			April 2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5/22/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2 U	**9**	0.50 U	0.50 U	0.50 U	1.4	1.0 U	8	40
			June 2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			7/7/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	7.7	**11**	0.68	0.50 U	0.50 U	4.8	1.0 U	7	38
			August 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			September 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			October 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			November 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LPVCWD 5	08000209		1/7/2014	0.50 U	0.50 U	0.50 U	0.50 U	**0.61**	0.50 U	--	0.50 U	--	**0.6**	0.62	0.52	0.50 U	0.50 U	**25**	**20**	1.6	0.50 U	0.50 U	**16**	1.0 U	6	44
			2/3/2014	0.50 U	0.50 U	0.50 U	0.50 U	**0.52**	0.50 U	--	0.50 U	--	**0.92**	0.81 J	0.75	0.50 U	0.50 U	**53**	**20**	1.6	0.50 U	0.50 U	**15**	1.0 U	6	43
			3/10/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.5	--	0.50 U	--	**0.75**	0.65	0.55	0.50 U	0.50 U	**44**	**20**	2	0.50 U	0.50 U	**16**	1.0 U	7	48
			4/8/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	--	**0.65**	0.65	0.54	0.50 U	0.50 U	**28**	**20**	1.6	0.50 U	0.50 U	**16**	1.0 U	7	47
			5/5/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	--	**0.66**	0.54	0.50 U	0.50 U	0.50 U	**33**	**19**	1.5	0.50 U	0.50 U	**13**	1.0 U	7	47
			6/10/2014	0.50 U	0.50 U	0.50 U	0.50 U	**0.73**	0.56	--	0.50 U	--	**0.78**	0.63	0.56	0.50 U	0.50 U	**43**	**21**	1.6	0.50 U	0.50 U	**16**	1.0 U	7	46
			7/15/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.5	--	0.50 U	--	**0.85**	0.75	0.61	0.50 U	0.50 U	**42**	**21**	2	0.50 U	0.50 U	**18**	1.0 U	7	44
			8/11/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	--	**0.52**	0.5	0.50 U	0.50 U	0.50 U	**28**	**17**	1.1	0.50 U	0.50 U	**11**	1.0 U	7	45
			September 2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			10/15/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**13**	**12**	0.50	0.50 U	0.50 U	3.9	1.0 U	7	39
			10/23/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	--	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1000 U	--	1.0	0.50 U	0.50 U	**11**	1.0 U	--	--
			11/4/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**35**	**16**	0.94	0.50 U	0.50 U	**11**	1.0 U	7	45
			11/10/2014	--	--	--	0.0050 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			12/2/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	--	**0.55**	0.51	0.50 U	0.50 U	0.50 U	**27**	**16**	1.1	0.50 U	0.50 U	**12**	1.0 U	7	45
SA1-1	08000185		10/24/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.95	0.50 U	0.50 U	0.50 U	2 U	**8.7**	1.2	0.50 U	0.50 U	0.50 U	1.0 U	**17**	58
			11/19/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	1.1	0.50 U	0.50 U	0.50 U	2 U	**8.8**	1.5	0.50 U	0.50 U	0.50 U	1.0 U	**18**	59
			12/1/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.79	0.50 U	0.50 U	0.50 U	2 U	**8.7**	1.1	0.50 U	0.50 U	0.50 U	1.0 U	**17**	59
SA1-2	08000186		Not in operation - no sampling results rep	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SA1-3 (LANTE)	08000060		January 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			2/24/2014	0.50 U	0.50 U	**6.5**	**0.013**	0.50 U	**2.3**	--	0.50 U	--	0.50 U	1.6	2.3	0.50 U	0.50 U	6.1	**10**	**77**	0.50 U	0.50 U	**29**	1.0 U	7	50
			3/19/2014	0.50 U	0.50 U	5.7	**0.013**	0.50 U	**2**	--	0.50 U	--	0.50 U	1.4	2.3	0.50 U	0.50 U	4.5	**9.8**	**84**	0.50 U	0.50 U	**34**	1.0 U	8	52
			4/16/2014	0.50 U	0.50 U	5.1	**0.012**	0.50 U	**2.1**	--	0.50 U	--	0.50 U	1.3	2.2	0.50 U	0.50 U	2.9	**9.8**	**78**	0.50 U	0.50 U	**31**	1.0 U	9	54
			5/13/2014	0.50 U	0.50 U	5.1	**0.011**	0.50 U	**2.1**	--	0.50 U	--	0.50 U	1.3	2.6	0.50 U	0.50 U	3.7	**9.1**	**180**	0.50 U	0.50 U	**34**	1.0 U	9	53
			6/11/2014	0.50 U	0.50 U	3.7	**0.012**	0.50 U	**2**	--	0.50 U	--	0.50 U	1.1	1.6	0.50 U	0.50 U	2.5	**8.7**	**72**	0.50 U	0.50 U	**27**	1.0 U	9	53
			7/23/2014	0.50 U	0.50 U	3.6	**0.0097**	0.50 U	**1.8**	--	0.50 U	--	0.50 U	1.1	1.8	0.50 U	0.50 U	2.3 J	**8.8**	**67**	0.50 U	0.50 U	**25**	1.0 U	9	48
			8/19/2014	0.50 U	0.50 U	3.7	**0.010**	0.50 U	**1.8**	--	0.50 U	--	0.50 U	1.3	1.5	0.50 U	0.50 U	2 U	**8.4**	**55**	0.50 U	0.50 U	**24**	1.0 U	9	51
			9/10/2014	0.50 U	0.50 U	3.1	**0.010**	0.50 U	**1.8**	--	0.50 U	--	0.50 U	1.1	1.4	0.50 U	0.50 U	2 U	**8.5**	**42**	0.50 U	0.50 U	**21**	1.0 U	9	54
			October 2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			November 2014 -not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			December 2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SGVWC B25A	08000187		January 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			February 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			March 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			4/24/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**14**	--
			4/29/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**14**	--
			5/19/2014	--	--	--	--	--	**1.7**	--	--	--	--	--	--	--	--	**59**	**36**	--	--	--	--	--	**14**	54
			5/19/2014	--	--	--	--	--	**1.6**	--	--	--	--	--	--	--	--	**64**	**35**	--	--	--	--	--	**14**	54
			5/19/2014	--	--	--	--	--	**1.6**	--	--	--	--	--	--	--	--	**56**	**37**	--	--	--	--	--	**14**	52
			5/20/2014	--	--	--	--	--	**1.6**	--	--	--	--	--	--	--	--	**64**	**36**	--	--	--	--	--	**14**	54
			5/20/2014	--	--	--	--	--	**1.6**	--	--	--	--	--	--	--	--	**69**	**36**	--	--	--	--	--	**14**	53
			5/20/2014	--	--	--	--	--	**1.6**	--	--	--	--	--	--	--	--	**65**	**36**	--	--	--	--	--	**14**	54
			5/22/2014	--	--	--	--	--	**1.3**	--	--	--	--	--	--	--	--	**44**	**11**	--	--	--	--	--	**15**	55
			5/22/2014	--	--	--	--	--	**1.1**	--	--	--	--	--	--	--	--	**15**	**23**	--	--	--	--	--	**15**	56
			June 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			July 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			August 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			9/5/2014	0.50 U	0.50 U	4.1	0.0050 U	**0.93**	**1.7**	--	0.50 U	--	**1.5**	1.6	4.1	0.50 U	0.50 U	**61**	**38**	**26**	0.50 U	0.50 U	**46**	1.0 U	**12**	--
			10/1/2014	0.50 U	0.54	5	0.0050 U	**1.2**	**1.9**	--	0.50 U	--	**2**	2	5.3	0.50 U	0.50 U	**72**	**38**	**32**	0.50 U	0.50 U	**40**	1.0 U	**13**	--
			10/30/2014	0.50 U	0.50 U	4.2	0.50 U	**1.1**	--	--	0.50 U	--	**1.6**	1.7	4.4	0.50 U	0.50 U	1000 U	--	**23**	0.50 U	0.50 U	**37**	1.0 U	--	--
			11/5/2014	0.50 U	0.50 U	4.2	0.0050 U	**1.1**	**5.2**	--	0.50 U	--	**1.3**	1.8	4.2	0.50 U	0.50 U	**82**	**39**	**25**	0.50 U	0.50 U	**44**	1.0 U	**14**	--
			12/1/2014	0.50 U	0.50 U	3.7	0.0050 U	**0.96**	**1.8**	--	0.50 U	--	**1.8**	1.7	4.1	0.50 U	0.50 U	**75**	**40**	**24**	0.50 U	0.50 U	**47**	1.0 U	**14**	--
SGVWC B25B	08000188		January 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			February 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			March 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			4/7/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	--
			4/24/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	--
			4/29/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	--
			5/19/2014	--	--	--	--	--	0.66	--	--	--	--	--	--	--	--	9.1	**10**	--	--	--	--	--	1.8	44
			5/19/2014	--	--	--	--	--	0.66	--	--	--	--	--	--	--	--	**11**	**10**	--	--	--	--	--	1.8	43
			5/19/2014	--	--	--	--	--	0.66	--	--	--	--	--	--	--	--	**10**	**11**	--	--	--	--	--	2	43
			5/20/2014	--	--	--	--	--	0.68	--	--	--	--	--	--	--	--	**10**	**11**	--	--	--	--	--	1.8	44
			5/20/2014	--	--	--	--	--	0.64	--	--	--	--	--	--	--	--	9	**10**	--	--	--	--	--	1.7	43

TABLE 5-3
2013 GROUNDWATER QUALITY MONITORING RESULTS
Baldwin Park Operable Unit
San Gabriel Valley, California

Well Name	Site ID	Port [a]	Sample Date	1,1,1-Trichloroethane (µg/L)	1,1-Dichloroethane (µg/L)	1,1-Dichloroethene (µg/L)	1,2,3-Trichloropropane [b] (µg/L)	1,2-Dichloroethane (µg/L)	1,4-Dioxane (µg/L)	Acetone (µg/L)	Benzene (µg/L)	Carbon Disulfide (µg/L)	Carbon Tetrachloride (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloroethene (µg/L)	Ethylbenzene (µg/L)	Methylene Chloride (µg/L)	NDMA (ng/L)	Perchlorate (µg/L)	Tetrachloroethene (µg/L)	Toluene (µg/L)	trans-1,2-Dichloroethene (µg/L)	Trichloroethene (µg/L)	Xylenes, Total [c] (µg/L)	Nitrate as N [d] (mg/L)	Sulfate (mg/L)
Federal or California State MCL (NL) [SMCL] [e]				**200**	**5**	**6**	**0.005**	**0.5**	**(1)**	**--**	**1**	**160**	**0.5**	**80**	**6**	**300**	**5**	**(10)**	**6**	**5**	**150**	**10**	**5**	**1750**	**10**	**[250]**
			5/20/2014	--	--	--	--	--	0.64	--	--	--	--	--	--	--	--	**10**	**10**	--	--	--	--	--	1.8	43
			5/22/2014	--	--	--	--	--	0.68	--	--	--	--	--	--	--	--	8.7	**28**	--	--	--	--	--	1.7	**44**
			5/22/2014	--	--	--	--	--	0.68	--	--	--	--	--	--	--	--	8.5	**10**	--	--	--	--	--	1.7	**44**
			June 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			July 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			August 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			9/5/2014	0.50 U	0.50 U	1.8	0.0050 U	0.50 U	0.75	--	0.50 U	--	**5.8**	0.6	1.9	0.50 U	0.50 U	**12**	**12**	**6.6**	0.50 U	0.50 U	**23**	1.0 U	1.8	--
			10/1/2014	0.50 U	0.50 U	2.4	0.0050 U	0.50 U	0.81	--	0.50 U	--	**7.5**	0.85	2.8	0.50 U	0.50 U	**15**	**13**	**10**	0.50 U	0.50 U	**22**	1.0 U	1.8	--
			10/30/2014	0.50 U	0.50 U	2.2	0.50 U	0.50 U	--	--	0.50 U	--	6.1	0.64	2.0	0.50 U	0.50 U	1000 U	--	**7.6**	0.50 U	0.50 U	**25**	1.0 U	--	--
			11/5/2014	0.50 U	0.50 U	1.8	0.0050 U	0.50 U	0.8	--	0.50 U	--	**6.7**	0.88	2.0	0.50 U	0.50 U	**18**	**14**	**7.0**	0.50 U	0.50 U	**26**	1.0 U	1.9	--
			12/1/2014	0.50 U	0.50 U	2.0	0.0050 U	0.50 U	0.77	--	0.50 U	--	**6.5**	0.72	2.3	0.50 U	0.50 U	**17**	**14**	**7.4**	0.50 U	0.50 U	**25**	1.0 U	2.0	--
SGVWC B26A	08000189		January 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			February 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			March 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			4/24/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**17**	--
			4/29/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**17**	--
			5/19/2014	--	--	--	--	--	0.81	--	--	--	--	--	--	--	--	**81**	**33**	--	--	--	--	--	**16**	58
			5/19/2014	--	--	--	--	--	0.76	--	--	--	--	--	--	--	--	**84**	**32**	--	--	--	--	--	**16**	56
			5/19/2014	--	--	--	--	--	0.84	--	--	--	--	--	--	--	--	**84**	**33**	--	--	--	--	--	**15**	56
			5/20/2014	--	--	--	--	--	0.81	--	--	--	--	--	--	--	--	**88**	**32**	--	--	--	--	--	**15**	57
			5/20/2014	--	--	--	--	--	0.79	--	--	--	--	--	--	--	--	**84**	**32**	--	--	--	--	--	**15**	56
			5/20/2014	--	--	--	--	--	0.78	--	--	--	--	--	--	--	--	2 U	**32**	--	--	--	--	--	**16**	58
			5/22/2014	--	--	--	--	--	0.50 U	--	--	--	--	--	--	--	--	**42**	**25**	--	--	--	--	--	**18**	60
			5/22/2014	--	--	--	--	--	0.50 U	--	--	--	--	--	--	--	--	**35**	**24**	--	--	--	--	--	**18**	59
			June 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			July 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			August 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			9/5/2014	0.50 U	0.50 U	0.50 U	0.0050 U	**1.3**	**1**	--	0.50 U	--	**0.91**	1.3	0.83	0.50 U	0.50 U	**80**	**36**	1.9	0.50 U	0.50 U	**19**	1.0 U	**14**	--
			10/1/2014	0.50 U	0.50 U	0.50 U	0.0050 U	**1.4**	**1.1**	--	0.50 U	--	**1.1**	1.5	1.0	0.50 U	0.50 U	**140**	**37**	2.4	0.50 U	0.50 U	**28**	1.0 U	**13**	--
			10/30/2014	0.50 U	0.50 U	0.50 U	0.50 U	**1.4**	--	--	0.50 U	--	**0.97**	1.3	0.90	0.50 U	0.50 U	1000 U	--	1.8	0.50 U	0.50 U	**15**	1.0 U	--	--
			11/5/2014	0.50 U	0.50 U	0.50 U	0.0050 U	**1.5**	**1.1**	--	0.50 U	--	**1.4**	1.4	0.89	0.50 U	0.50 U	**110**	**38**	1.9	0.50 U	0.50 U	**28**	1.0 U	**14**	--
			12/1/2014	0.50 U	0.50 U	0.50 U	0.0050 U	**1.4**	**1.1**	--	0.50 U	--	**1.2**	1.3	0.91	0.50 U	0.50 U	**130**	**39**	2.2	0.50 U	0.50 U	**27**	1.0 U	**14**	--
SGVWC B26B	08000190		January 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			February 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			March 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			4/7/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	--
			4/24/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	--
			4/29/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	--
			5/19/2014	--	--	--	--	--	**2.4**	--	--	--	--	--	--	--	--	**82**	**57**	--	--	--	--	--	3	46
			5/19/2014	--	--	--	--	--	**2.4**	--	--	--	--	--	--	--	--	**91**	**53**	--	--	--	--	--	3	46
			5/19/2014	--	--	--	--	--	**2.4**	--	--	--	--	--	--	--	--	**72**	**54**	--	--	--	--	--	3	45
			5/20/2014	--	--	--	--	--	**2.6**	--	--	--	--	--	--	--	--	**84**	**57**	--	--	--	--	--	3	46
			5/20/2014	--	--	--	--	--	**2.4**	--	--	--	--	--	--	--	--	**90**	**53**	--	--	--	--	--	3	45
			5/20/2014	--	--	--	--	--	**2.4**	--	--	--	--	--	--	--	--	**81**	**53**	--	--	--	--	--	**16**	58
			5/22/2014	--	--	--	--	--	**2.5**	--	--	--	--	--	--	--	--	**74**	**54**	--	--	--	--	--	3	46
			5/22/2014	--	--	--	--	--	**2.4**	--	--	--	--	--	--	--	--	**68**	**57**	--	--	--	--	--	3	45
			June 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			July 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			August 2014 - not operational	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			9/5/2014	0.50 U	0.50 U	0.50 U	0.0050 U	**2.1**	**2.5**	--	0.50 U	--	**11**	1.9	1.1	0.50 U	0.50 U	**83**	**57**	1.6	0.50 U	0.50 U	**58**	1.0 U	3	--
			10/1/2014	0.50 U	0.50 U	0.50 U	0.0050 U	**2.1**	**2.5**	--	0.50 U	--	**12**	1.9	1.1	0.50 U	0.50 U	**78**	**57**	2.0	0.50 U	0.50 U	**55**	1.0 U	3	--
			10/30/2014	0.50 U	0.50 U	0.50 U	0.50 U	**3.4**	--	--	0.50 U	--	**16**	2.7	1.6	0.50 U	0.50 U	1000 U	--	2.2	0.50 U	0.50 U	**58**	1.0 U	--	--
			11/5/2014	0.50 U	0.50 U	0.50 U	0.0050 U	**2.3**	**2.4**	--	0.50 U	--	**16**	2.1	1.1	0.50 U	0.50 U	**87**	**58**	1.7	0.50 U	0.50 U	**62**	1.0 U	3	--
			12/1/2014	0.50 U	0.50 U	0.50 U	0.0050 U	**2.0**	**2.4**	--	0.50 U	--	**12**	1.9	1.1	0.50 U	0.50 U	**85**	**56**	1.7	0.50 U	0.50 U	**54**	1.0 U	3	--
SGVWC B5B	61900719		1/13/2014	0.5 U	0.5 U	0.39 J	0.0050 U	0.20 J	0.50 U	--	0.5 U	--	0.25 J	0.82	0.5 U	0.5 U	0.5 U	**11**	**8.6**	2.9	0.5 U	0.5 U	3.2	1 U	**12**	--
			2/4/2014	0.5 U	0.5 U	0.53	0.0050 U	0.18 J	0.50 U	--	0.5 U	--	0.25 J	0.91	0.5 U	0.5 U	0.5 U	**9.9**	**9.4**	2.2	0.5 U	0.5 U	2.9	1 U	**11**	--
			3/4/2014	0.5 U	0.5 U	0.37 J	0.0050 U	0.21 J	0.68	--	0.5 U	--	0.29 J	0.89	0.5 U	0.5 U	0.5 U	**14**	**9.8**	2.4	0.5 U	0.5 U	3.1	1 U	**11**	--
			4/10/2014	0.5 U	0.5 U	0.31 J	0.0050 U	0.21 J	0.50 U	--	0.5 U	--	0.5 U	0.67	0.5 U	0.5 U	0.5 U	**14**	**9.8**	2	0.5 U	0.5 U	3	1 U	**12**	--
			5/5/2014	0.5 U	0.5 U	0.34 J	0.0050 U	0.5 U	0.50 U	--	0.5 U	--	0.37 J	0.65	0.5 U	0.5 U	0.5 U	**18**	**9.6**	2.4	0.5 U	0.5 U	2.9	1 U	--	--
			5/12/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	--	0.50 U	--	0.50 U	0.76	0.50 U	0.50 U	0.50 U	1000 U	--	2.7	0.50 U	0.50 U	3.2	1.0 U	**12**	--
			6/2/2014	0.5 U	0.5 U	0.30 J	0.0050 U	0.5 U	0.50 U	--	0.5 U	--	0.21 J	0.63	0.5 U	0.5 U	0.5 U	**10**	**9.2**	2.4	0.5 U	0.5 U	2.8	1 U	**12**	--
			7/2/2014	0.50 U	0.50 U	0.37 J	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.43 J	0.81	0.50 U	0.50 U	0.50 U	8.8	**8.9**	3.1	0.50 U	0.50 U	3.7	1.0 U	**11**	--
			8/4/2014	0.50 U	0.50 U	0.35 J	0.0050 U	0.21 J	0.50 U	--	0.50 U	--	0.17 J	0.68	0.50 U	0.50 U	0.50 U	9.1	**9.7**	2.6	0.50 U	0.50 U	3.1	1.0 U	**11**	--
			9/4/2014	0.50 U	0.50 U	0.40 J	0.0050 U	0.20 J	0.50 U	--	0.50 U	--	0.33 J	0.88	0.50 U	0.50 U	0.50 U	7.3	**9.2**	2.7	0.50 U	0.50 U	3	1.0 U	**11**	--
			10/1/2014	0.50 U	0.50 U	0.35 J	0.0050 U	0.18 J	0.50 U	--	0.50 U	--	0.28 J	0.68	0.50 U	0.50 U	0.50 U	9.7	**9.4**	2.4	0.50 U	0.50 U	3.2	1.0 U	**11**	--
			11/4/2014	0.5 U	0.5 U	0.25 J	0.0050 U	0.5 U	0.50 U	--	0.5 U	--	0.5 U	0.65	0.5 U	0.5 U	0.5 U	9.8	**9**	1.7	0.5 U	0.5 U	2.9	1 U	**12**	--
			12/3/2014	0.5 U	0.5 U	0.28 J	0.0050 U	0.20 J	0.50 U	--	0.5 U	--	0.24 J	0.68	0.5 U	0.5 U	0.5 U	6.7	**9.2**	2.0	0.5 U	0.5 U	2.9	1.0 U	**11**	--
SGVWC B5D	1910039		1/6/2014	0.5 U	0.5 U	0.5 U	0.0050 U	0.5 U	0.50 U	--	0.5 U	--	**0.54**	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.8	--
			2/4/2014	0.5 U	0.5 U	0.5 U	0.0050 U	0.5 U	0.50 U	--	0.5 U	--	**0.9**	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.9	--
			3/4/2014	0.5 U	0.5 U	0.5 U	0.0050 U	0.5 U	0.50 U	--	0.5 U	--	**0.83**	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.9	--
			4/1/2014	0.5 U	0.5 U	0.5 U	0.0050 U	0.5 U	0.50 U	--	0.5 U	--	0.36 J	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.7	--
			5/5/2014	0.5 U	0.5 U	0.5 U	0.0050 U	0.5 U	0.50 U	--	0.5 U	--	**0.89**	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.8	--
			5/12/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	--	0.50 U	--	**0.96**	0.50 U	0.50 U	0.50 U	0.50 U	1000 U	--	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	--	--
			6/2/2014	0.5 U	0.5 U	0.5 U	0.0050 U	0.5 U	0.50 U	--	0.5 U	--	**0.68**	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.9	--
			7/2/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	**0.9**	0.50 U	0.50 U	0.50 U	0.50 U	2 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.8	--
			8/4/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	**0.63**	0.50 U	0.50 U	0.50 U	0.50 U	2 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.9	--
			9/4/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	**1.1**	0.50 U	0.50 U	0.50 U	0.50 U	2 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.8	--
			10/1/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	**1.1**	0.50 U	0.50 U	0.50 U	0.50 U	2 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.9	--
			11/4/2014	0.5 U	0.5 U	0.5 U	0.0050 U	0.5 U	0.50 U	--	0.5 U	--	**0.80**	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1.0	--
			12/3/2014	0.5 U	0.5 U	0.5 U	0.0050 U	0.5 U	0.50 U	--	0.5 U	--	**0.79**	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.9	--
SGVWC B5E	08000205		1/6/2014	0.5 U	0.5 U	0.86	0.0050 U	**0.84**	0.50 U	--	0.5 U	--	**2.2**	0.78	0.99	0.5 U	0.5 U	**130**	**17**	3.4	0.5 U	0.5 U	**16**	1 U	4.3	--
			2/4/2014	0.5 U	0.16 J	1.4	0.0050 U	**0.71**	0.50 U	--	0.5 U	--	**3.6**	1.0	1.5	0.5 U	0.5 U	**67**	**17**	3.1	0.5 U	0.5 U	**16**	1 U	4.1	--
			3/4/2014	0.5 U	0.14 J	0.99	0.0050 U	**0.89**	0.54	--	0.5 U	--	**3.8**	0.97	1.2	0.5 U	0.5 U	**120**	**17**	3.3	0.5 U	0.5 U	**17**	1 U	4.3	--
			4/1/2014	0.5 U	0.5 U	0.75	0.0050 U	0.5 U	0.50 U	--	0.5 U	--	**2.0**	0.66	0.88	0.5 U	0.5 U	**120**	**19**	3.2	0.5 U	0.5 U	**15**	1 U	3.8	--
			5/5/2014	0.5 U	0.13 J	0.99	0.0050 U	0.5 U	0.56	--	0.5 U	--	**2.8**	0.84	1.1	0.5 U	0.5 U	**90**	**18**	3.8	0.5 U	0.5 U	**18**	1 U	4.5	--
			5/12/2014	0.50 U	0.50 U	0.83	0.50 U	0.50 U	--	--	0.50 U	--	**2.7**	0.8	1.1	0.50 U	0.50 U	1000 U	--	3.6	0.50 U	0.50 U	**17**	1.0 U	--	--
			6/2/2014	0.5 U	0.5 U	0.74	0.0050 U	0.5 U	0.50 U	--	0.5 U	--	**2.0**	0.69	0.87	0.5 U	0.5 U	**100**	**17**	3.2	0.5 U	0.5 U	**15**	1 U	4.5	--
			7/2/2014	0.50 U	0.50 U	0.83	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	**2.5**	0.74	0.93	0.50 U	0.50 U	**160**	**17**	3.6	0.50 U	0.50 U	**18**	1.0 U	4.3	--
			8/4/2014	0.50 U	0.50 U	0.83	0.0050 U	**0.82**	0.5	--	0.50 U	--	**1.8**	0.72	1.0	0.50 U	0.50 U	**99**	**18**	3.3	0.50 U	0.50 U	**16**	1.0 U	4.1	--
			9/4/2014	0.50 U	0.16 J	1.1	0.0050 U	**0.98**	0.51	--	0.50 U	--	**3.1**	1.0	1.5	0.50 U	0.50 U	**100**	**18**	3.6	0.50 U	0.50 U	**18**	1.0 U	4.1	--
			10/1/2014	0.50 U	0.16 J	1.1	0.0050 U	**1.1**	0.54	--	0.50 U	--	**2.8**	0.97	1.4	0.50 U	0.50 U	**77**	**18**	3.9	0.50 U	0.50 U	**21**	1.0 U	4.1	--
			11/4/2014	0.5 U	0.5 U	0.67	0.0050 U	**0.96**	0.59	--	0.5 U	--	**2.3**	0.81	0.95	0.5 U	0.5 U	**110**	**18**	2.5	0.5 U	0.5 U	**17**	1 U	4.5	--
			12/3/2014	0.5 U	0.12 J	0.88	0.0050 U	**0.85**	0.59	--	0.5 U	--	**2.5**	0.83	1.1	0.5 U	0.5 U	**88**	**18**	3.0	0.5 U	0.5 U	**17**	1 U	4	--
Multiport Monitoring Wells				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EPA MW 5-01	EPAW51	Port 13	5/9/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	4.2	1 U	1 U	1 U	1 U	1 U	0.10 J	31
		Port 12	5/9/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.17	34
		Port 11	5/9/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.2	29
		Port 10	5/9/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	0.50 J	1 U	1.4	38
		Port 9	5/9/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	1.6 J	1 U	1 U	1 U	1.5	1 U	2.9	40
		Port 8	5/9/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 UJ	**7.3**	1 U	1 U	1 U	0.78 J	1 U	**10**	53
		Port 7	5/9/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2.0 UJ	5.9	1 U	1 U	1 U	1.4	1 U	5.8	75

TABLE 5-3
2013 GROUNDWATER QUALITY MONITORING RESULTS
Baldwin Park Operable Unit
San Gabriel Valley, California

Well Name	Site ID	Port [a]	Sample Date	1,1,1-Trichloroethane (µg/L)	1,1-Dichloroethane (µg/L)	1,1-Dichloroethene (µg/L)	1,2,3-Trichloropropane [b] (µg/L)	1,2-Dichloroethane (µg/L)	1,4-Dioxane (µg/L)	Acetone (µg/L)	Benzene (µg/L)	Carbon Disulfide (µg/L)	Carbon Tetrachloride (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloroethene (µg/L)	Ethylbenzene (µg/L)	Methylene Chloride (µg/L)	NDMA (ng/L)	Perchlorate (µg/L)	Tetrachloroethene (µg/L)	Toluene (µg/L)	trans-1,2-Dichloroethene (µg/L)	Trichloroethene (µg/L)	Xylenes, Total [c] (µg/L)	Nitrate as N [d] (mg/L)	Sulfate (mg/L)
Federal or California State MCL (NL) [SMCL] [e]				**200**	**5**	**6**	**0.005**	**0.5**	**(1)**	**--**	**1**	**160**	**0.5**	**80**	**6**	**300**	**5**	**(10)**	**6**	**5**	**150**	**10**	**5**	**1750**	**10**	**[250]**
		Port 6	5/8/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**6.2**	1 U	1 U	1 U	1 U	1 U	5.9	80
		Port 5	5/8/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**13**	1 U	1 U	1 U	1 U	1 U	**11**	36
		Port 4	5/8/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1.1	1 U	0.022 J	28
		Port 3	5/8/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.021 J	32
		Port 2	5/9/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2.8 UJ	2 U	1 U	1 U	1 U	1 U	1 U	0.043 J	29
		Port 1	5/8/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.31	38
MW 5-03	BPW503	Port 10	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Port 10	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Port 9	5/27/2014	1 U	0.57 J	3.8	--	0.5 U	**14**	5 U	1 U	1 U	0.5 U	1 U	0.67 J	1 U	1 U	2 U	2 U	1.1	1 U	1 U	**5.7**	1 U	2.9 J	58
		Port 9	10/30/2014	1 U	0.66 J	4.0 J	--	0.5 U	**16**	5 U	1 U	1 U	0.5 U	1 U	1.0 J	1 U	1 U	2 U	2 U	1.4 J	1 U	1 U	**6.8 J**	1 U	2.2	57
		Port 9	12/9/2014	0.50 U	0.63	4.2	0.0050 U	0.50 U	--	--	0.50 U	--	0.50 U	0.50 U	0.80	0.50 U	0.50 U	2 U	2 U	1.0	0.50 U	0.50 U	**6.9**	1 U	--	--
		Port 8	5/27/2014	1 U	1 U	4.9	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	0.57 J	1 U	1 U	1 U	2 U	1.7 J	0.95 J	1 U	1 U	4.6	1 U	8.8 J	55
		Port 8	10/30/2014	1 U	1 U	3.8	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	1.7 J	0.79 J	1 U	1 U	3	1 U	9.1	53
		Port 8	12/9/2014	0.50 U	0.50 U	**8.8**	0.0050 U	0.50 U	--	--	0.50 U	--	0.50 U	0.75	0.50 U	0.50 U	0.50 U	1 U	--	1.1	0.50 U	0.50 U	**5.4**	1 U	--	--
		Port 7	5/27/2014	1 U	1 U	0.96 J	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	0.53 J	1 U	1 U	1 U	2 U	2.5	1.6	1 U	1 U	1.1	1 U	**18 J**	63
		Port 7	10/30/2014	1 U	1 U	0.64 J	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	3.3	1.4	1 U	1 U	0.79 J	1 U	**20**	64
		Port 7	12/9/2014	0.50 U	0.50 U	0.65	0.0050 U	0.50 U	--	--	0.50 U	--	0.50 U	0.55	0.50 U	0.50 U	0.50 U	1 U	--	1.2	0.50 U	0.50 U	0.66	1 U	--	--
		Port 6	5/27/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	3.4	1.9	1 U	1 U	1 U	1 U	**21 J**	59
		Port 6	10/30/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	3.4	1.6	1 U	1 U	1 U	1 U	**22**	58
		Port 6	12/8/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	--	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	--	1.9	0.50 U	0.50 U	0.50 U	1 U	--	--
		Port 5	5/27/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	0.57 J	1 U	1 U	2 U	**10**	1.1	1 U	1 U	1 U	1 U	**21 J**	49
		Port 5 (Field Duplicate)	10/30/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	0.75 J	1 U	1 U	2 U	**10**	1.7	1 U	1 U	0.55 J	1 U	**21**	46
		Port 5	10/30/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	0.79 J	1 U	1 U	2 U	**9.8**	1.7	1 U	1 U	0.57 J	1 U	**21**	46
		Port 5	12/8/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	--	1.4	0.50 U	0.50 U	0.50 U	1 U	--	--
		Port 4	5/27/2014	1 U	1 U	1 U	--	0.5 U	--	1.2 J	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2.5 U	**8.2**	1 U	1 U	1 U	1 U	1 U	7.8 J	45
		Port 4	12/8/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	--	0.50 U	0.50 U	0.50 U	0.50 U	1 U	--	--
		Port 3	5/27/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**13**	1 U	1 U	1 U	1 U	1 U	**14 J**	35
		Port 3	12/10/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	--	0.50 U	0.50 U	0.50 U	0.50 U	1 U	--	--
		Port 2	5/27/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	1.2 J	0.50 J	1 U	1 U	1 U	1 U	0.59 J	30
		Port 2	12/10/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	--	0.50 U	0.50 U	0.50 U	0.50 U	1 U	--	--
		Port 1	5/27/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	0.84 J	1 U	0.11 U	30
		Port 1	12/10/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	--	0.50 U	0.50 U	0.50 U	1.2	1 U	--	--
MW 5-05	BPW505	Port 4	3/22/2014	0.50 U	0.50 U	3.2	0.50 U	0.50 U	--	--	0.50 U	--	0.50 U	1.4	4.2	0.50 U	0.50 U	1000 U	--	**15**	0.50 U	0.50 U	**37**	1.0 U	--	--
		Port 4	4/29/2014	1 U	1 U	3.3	--	0.5 U	**1.2**	5 U	1 U	1 U	0.5 U	1.6	4.6	1 U	1 U	2 U	**15**	**14**	1 U	1 U	**36**	1 U	**11**	50
		Port 3	3/22/2014	0.50 U	**5.5**	**32**	0.50 U	0.50 U	--	--	0.50 U	--	**1.1**	6.6	**31**	0.50 U	0.50 U	1000 U	--	**120**	0.50 U	0.50 U	**160**	1.0 U	--	--
		Port 3	4/29/2014	0.48 J	**7.3**	**35**	--	**2**	**13**	5 U	1 U	1 U	**1.9**	8.8	**35**	1 U	1 U	**92**	**65**	**190**	1 U	1 U	**220**	1 U	5.4	45
		Port 2	3/22/2014	0.8	3.3	**43**	0.50 U	0.50 U	--	--	0.50 U	--	**2.3**	8.4	**34**	0.50 U	0.50 U	1000 U	--	**350**	0.50 U	0.50 U	**270**	1.0 U	--	--
		Port 2	4/29/2014	1.1	4.2	**46**	--	**3.6**	**14**	5 U	1 U	1 U	**3.4**	11	**37**	1 U	1 U	**300**	**87**	**410**	1 U	1 U	**340**	1 U	4.5	45
		Port 1	3/22/2014	0.50 U	2	**16**	0.50 U	0.50 U	--	--	0.50 U	--	**10**	13	**13**	0.50 U	0.50 U	1000 U	--	**76**	0.50 U	0.50 U	**280**	1.0 U	--	--
		Port 1	4/29/2014	1 U	2.6	**15**	--	**6.1**	**8**	5 U	1 U	1 U	**9.8**	15	**14**	1 U	1 U	**740**	**230**	**97**	1 U	1 U	**360**	1 U	4.9	48
MW 5-08	BPW508	Port 4	4/28/2014	1 U	0.71 J	**19**	--	**0.51**	**3.1**	5 U	1 U	1 U	0.5 U	11	**12**	1 U	1 U	1.7 J	**20**	**99**	1 U	1 U	**160**	1 U	**12**	52
		Port 3	4/28/2014	1 U	1 U	1.5	--	0.5 U	0.5 U	5 U	1 U	1 U	**1**	1 U	0.62 J	1 U	1 U	2 UJ	**13**	**7.8**	1 U	1 U	**7.8**	1 U	1.5	31
		Port 2	4/28/2014	1 U	1 U	1.1	--	0.5 U	0.5 U	5 U	1 U	1 U	**0.98**	1 U	0.49 J	1 U	1 U	2.1 J	**9.8**	**6.6**	1 U	1 U	**5.9**	1 U	1.7	38
		Port 1	4/28/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**56**	0.80 J	1 U	1 U	0.61 J	1 U	1.1	40
MW 5-11	BPW511	Port 3	4/29/2014	1 U	1 U	**8**	--	0.5 U	**6.2**	5 U	1 U	1 U	0.5 U	1 U	0.46 J	1 U	1 U	2 U	**25**	**7.6**	1 U	1 U	**13**	1 U	3	49
		Port 3	11/20/2014	0.86	1.2	**34**	0.0050 U	0.50 U	--	--	0.50 U	--	0.50 U	0.72	1.2	0.50 U	0.50 U	2 U	--	**7.3**	0.50 U	0.50 U	**50**	1 U	--	--
		Port 2	4/29/2014	1 U	1 U	0.52 J	--	0.5 U	0.15 J	5 U	1 U	1 U	0.5 U	2.6	2.8	1 U	1 U	0.79 J	2.6	**53**	1 U	1 U	**34**	1 U	4.2	48
		Port 2	11/19/2014	0.50 U	0.50 U	0.50 U	**0.0051**	0.50 U	--	--	0.50 U	--	0.50 U	2.3	1.4	0.50 U	0.50 U	1000 U	--	**27**	0.50 U	0.50 U	**13**	1.0 U	--	--
		Port 1	4/29/2014	1 U	1 U	2.9	--	0.5 U	0.28 J	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	4.4	**18**	1 U	1 U	3.1	1 U	8.4	51
		Port 1	11/19/2014	0.50 U	0.50 U	1.1	**0.012**	0.50 U	--	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1000 U	--	**8.1**	0.50 U	0.50 U	1.1	1.0 U	--	--
MW 5-13	BPW513	Port 3	4/29/2014	1 U	1 U	1 U	--	0.5 U	**7**	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	5.3	1.8	1 U	1 U	1.3	1 U	0.55	27
		Port 2	4/29/2014	1 U	1 U	1 U	--	0.5 U	0.37 J	5 U	1 U	1 U	0.5 U	1.5	2.1	1 U	1 U	4	3.8	**45**	1 U	1 U	**47**	1 U	3.5	46
		Port 1	4/29/2014	1 U	1 U	1 U	--	0.5 U	0.16 J	5 U	1 U	1 U	0.5 U	0.89 J	1 U	1 U	1 U	0.68 J	3.2	**5.3**	1 U	1 U	1.4	1 U	1.8	52
MW 5-15	BPW515	Port 3	4/30/2014	1 U	1 U	0.58 J	--	0.5 U	0.96	5 U	1 U	1 U	0.5 U	1 U	1.5	1 U	1 U	2 U	**15**	2.5	1 U	1 U	**5.6**	1 U	5.4	58
		Port 2	4/30/2014	1 U	**8.9**	**28**	--	0.5 U	**6.3**	5 U	1 U	1 U	0.5 U	1.1	**6.6**	1 U	1 U	7	**11**	**29**	1 U	1 U	**32**	1 U	5.1	55
		Port 1	4/30/2014	1 U	1	0.80 J	--	**2**	**1.9**	5 U	1 U	1 U	**1.6**	3.8	2.2	1 U	1 U	**81**	**45**	**9**	1 U	1 U	**72**	1 U	5.2	63
MW 5-17	BPW517	Port 3	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Port 2	4/30/2014	1 U	1 U	1 U	--	0.5 U	0.33 J	5 U	1 U	1 U	0.5 U	1 U	1	1 U	1 U	2 U	1.5 J	**25**	1 U	1 U	**33**	1 U	**45**	4.1
		Port 1	4/30/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	0.62 J	1 U	1 U	1 U	2 U	5.2	3.3	1 U	1 U	1.1	1 U	**44**	0.58
MW 5-18	BPW518	Port 3	4/30/2014	1 U	1 U	3	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1.8	1 U	1 U	1 U	2 U	2.2	2.5	1 U	1 U	3.6	1 U	**12**	59
		Port 3	11/25/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	--	1.0	0.50 U	0.50 U	0.50 U	1 U	--	--
		Port 2	4/30/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.73 J	3.6	1.7	1 U	1 U	1 U	1 U	**22**	64
		Port 2	11/24/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	--	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	--	2.5	0.50 U	0.50 U	0.50 U	1 U	--	--
		Port 1	4/30/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	**0.64 J**	1 U	1 U	2 U	**4**	1.1	1 U	1 U	1 U	1 U	**24**	60
		Port 1	11/24/2014	0.50 U	0.50 U	2.2	0.0050 U	0.50 U	--	--	0.50 U	--	0.50 U	1.3	0.50 U	0.50 U	0.50 U	1 U	--	1.5	0.50 U	0.50 U	2.6	1 U	--	--
MW 5-19	BPW519	Port 6	5/1/2014	1 U	1 U	1 U	--	0.5 U	0.22 J	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	3.4	1 U	1 U	1 U	1 U	1 U	3.8	100
		Port 5	5/1/2014	1 U	1 U	1 U	--	0.5 U	0.43 J	1.9 J	1 U	1 U	0.5 U	0.46 J	1 U	1 U	1 U	5.2	**19**	2.6	1 U	1 U	3.9	1 U	**17**	71
		Port 5	10/29/2014	1 U	1 U	1 U	--	0.5 U	0.50 U	5 U	1 U	1 U	**0.84**	1 U	1 U	1 U	1 U	4.6	**19**	4	1 U	1 U	**6.6**	1 U	17 U	72
		Port 4	5/1/2014	1 U	0.45 J	3.1	--	0.83	**1.5**	5 U	1 U	1 U	**1.9**	1.1	3.6	1 U	1 U	**150**	**36**	**13**	1 U	1 U	**34**	1 U	5.9	34
		Port 4	10/29/2014	1 U	1 U	**8.1**	--	1.5	**1.9**	5 U	1 U	1 U	**5.3**	1 U	6	1 U	1 U	**210**	**39**	**38**	1 U	1 U	**93**	1 U	5.9 U	33
		Port 3	5/1/2014	1 U	1 U	2.6	--	0.5 U	--	5 U	1 U	1 U	**9**	0.65 J	2.1	1 U	1 U	11	**11**	**8.9**	1 U	1 U	**24**	1 U	4.9	37
		Port 3	10/29/2014	1 U	1 U	1 U	--	0.5 U	--	1.3 J	1 U	1 U	**5.6**	1 U	1 U	1 U	1 U	12	**10**	4.3	1 U	1 U	**14**	1 U	4.5 U	36
		Port 2	5/1/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.46 J	1 U	1 U	1 U	1 U	2 U	**2 U**	1 U	1 U	1 U	1 U	1 U	0.87	28
		Port 1	5/1/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**2 U**	1 U	1 U	1 U	1 U	1 U	0.69	24
MW 5-20	BPW520	Port 7	5/2/2014	1 U	1 U	1.1	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**9**	3.1	1 U	1 U	**5.9**	1 U	**110**	14
		Port 6	5/2/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**14**	0.56 J	1 U	1 U	1	1 U	**57**	17
		Port 5	5/2/2014	1 U	1 U	1 U	--	**1.3**	0.67	5 U	1 U	1 U	**0.61**	0.72 J	1 U	1 U	1 U	**180**	**22**	0.74 J	1 U	1 U	**13**	1 U	**22**	1.7
		Port 4	5/2/2014	1 U	1.1	0.93 J	--	**3.6**	**3.1**	5 U	1 U	1 U	**1.7**	3	3.2	1 U	1 U	**420**	**68**	**5.4**	1 U	1 U	**59**	1 U	**44**	6.4
		Port 3	5/2/2014	1 U	3.1	4.6	--	**5**	**5.1**	5 U	1 U	1 U	**6.9**	5.8	**9.7**	1 U	1 U	**440**	**140**	**19**	1 U	1 U	**170**	1 U	**44**	5.7
		Port 2	5/1/2014	1 U	1 U	1 U	--	0.5 U	0.37 J	5 U	1 U	1 U	**2.4**	1 U	0.74 J	1 U	1 U	**33**	**12**	1.4	1 U	1 U	**8.9**	1 U	**29**	1.5
		Port 1	5/1/2014	1 U	1 U	1 U	--	**1**	--	5 U	1 U	1 U	**6.9**	1.1	1 U	1 U	1 U	**25**	**39**	1 U	1 U	1 U	**30**	1 U	**39**	2.7
MW 5-22	BPW522	Port 6	5/29/2014	1 U	1 U	2	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1.1	1 U	1 U	1 U	2 U	3.9	2.2	1 U	1 U	1.2	1 U	13	160
		Port 6	9/23/2014	0.50 U	0.50 U	2.9	0.0050 U	0.50 U	0.57	--	0.50 U	--	0.50 U	1.4	0.50 U	0.50 U	0.50 U	1000 U	--	4.2	0.50 U	0.50 U	1.7	1.0 U	--	--
		Port 5	5/29/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	5.5	1 U	1 U	1 U	0.49 J	1 U	6.2	35
		Port 5	9/23/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1000 U	--	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	--	--
		Port 4	5/29/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1.7 J	3.2	1 U	1 U	1 U	2	1 U	1.2	20
		Port 4	9/23/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1000 U	--	0.50 U	0.50 U	0.50 U	1.8	1.0 U	--	--
		Port 3	5/29/2014	1 U	0.56 J	3.5	--	**5.2**	--	5 U	1 U	1 U	**5.3**	3.6	4.6	1 U	1 U	**660 J**	**110**	**9.2**	1 U	1 U	**75**	1 U	5.3	36
		Port 3	9/24/2014	0.50 U	0.54	4.1	0.0050 U	**5.4**	**3.4**	--	0.50 U	--	**6.6**	3.7	5.5	0.50 U	0.50 U	1 U	--	**11**	0.50 U	0.50 U	**63**	1 U	--	--
		Port 2	5/28/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	**4.4**	1 U	1 U	1 U	1 U	1.6 J	**6.8**	0.77 J	1 U	1 U	4.6	1 U	1.9	26
		Port 2	9/24/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	**5.6**	0.50 U	0.50 U	0.50 U	0.50 U	1 U	--	0.75	0.50 U	0.50 U	**5.7**	1 U	--	--
		Port 1	5/28/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	**1.2**	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1.1	31
		Port 1	9/24/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	**2.3**	0.50 U	0.50 U	0.50 U	0.50 U	1 U	--	0.50 U	0.50 U	0.50 U	0.50 U	1 U	--	--
MW 5-23	BPW523	Port 6	5/13/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 UJ	2 U	1 U	1 U	1 U	1 U	1 U	0.45 U	120
		Port 5	5/13/2014	1 U	1 U	1 U	--	0.5 U	0.12 J	5 U	1 U	1 U	0.5 U	0.58 J	1 U	1 U	1 U	2 UJ	**15**	3.3	1 U	1 U	2.8	1 U	**20**	74
		Port 4	5/13/2014	1 U	1 U	1 U	--	**5.2**	**2.0 J**	5 U	1 U	1 U	**2**	3	0.77 J	1 U	1 U	**750 J**	**56**	2.1	1 U	1 U	**31**	1 U	**9.6**	42
		Port 3	5/13/2014	1 U	2.4	4.6	--	**4.3**	**4.7 J**	5 U	1 U	1 U	**2.4**	5.6	**10**	1 U	1 U	**540 J**	**110**	**18**	1 U	1 U	**100**	1 U	5.5 U	43
		Port 2	5/13/2014	1 U	1 U	0.47 J	--	0.5 U	0.5 UJ	5 U	1 U	1 U	**7**	0.64 J	0.57 J	1 U	1 U	2.3 U	4	1.3	1 U	1 U	4.9	1 U	2.9 U	35
		Port 1	5/13/2014	1 U	1 U	0.93 J	--	0.5 U	--	5 UJ	1 U	1 U	**6.2**	0.93 J	1.2	1 U	1 U	8.8 U	**8.8**	2.8	1 U	1 U	**11**	1 U	2.0 U	37
MW 5-24	BPW524	Port 7	5/12/2014	1 U	1	4	--	0.48 J	**4**	5 U	1 U	1 U	0.5 U	1.7	**3.5**	1 U	1 U	2 U	**10**	**46**	1 U	1 U	**23**	1 U	**13**	48
		Port 7	11/3/2014	1 U	1	3.2	--	0.5 U	**5**	5 U	1 U	1 U	0.5 U	0.82 J	**2.3**	1 U	1 U	2 U	**13**	**22**	1 U	1 U	**13**	1 U	8.7	51

TABLE 5-3
2013 GROUNDWATER QUALITY MONITORING RESULTS
Baldwin Park Operable Unit
San Gabriel Valley, California

Well Name	Site ID	Port [a]	Sample Date	1,1,1-Trichloroethane (µg/L)	1,1-Dichloroethane (µg/L)	1,1-Dichloroethene (µg/L)	1,2,3-Trichloropropane [b] (µg/L)	1,2-Dichloroethane (µg/L)	1,4-Dioxane (µg/L)	Acetone (µg/L)	Benzene (µg/L)	Carbon Disulfide (µg/L)	Carbon Tetrachloride (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloroethene (µg/L)	Ethylbenzene (µg/L)	Methylene Chloride (µg/L)	NDMA (ng/L)	Perchlorate (µg/L)	Tetrachloroethene (µg/L)	Toluene (µg/L)	trans-1,2-Dichloroethene (µg/L)	Trichloroethene (µg/L)	Xylenes, Total [c] (µg/L)	Nitrate as N [d] (mg/L)	Sulfate (mg/L)
Federal or California State MCL (NL) [SMCL] [e]				**200**	**5**	**6**	**0.005**	**0.5**	**(1)**	**--**	**1**	**160**	**0.5**	**80**	**6**	**300**	**5**	**(10)**	**6**	**5**	**150**	**10**	**5**	**1750**	**10**	**[250]**
		Port 6	5/12/2014	1 U	3.1	**21**	--	**1.4**	**1.8**	5 U	1 U	1 U	**2.5**	3.3	**14**	1 U	1 U	23 U	**24**	**290**	1 U	1 U	**160**	1 U	6.4	52
		Port 6	11/3/2014	1 U	2.6	**38**	--	**0.66**	**1.8**	5 U	1 U	1 U	**1.2**	1 U	**7.2**	1 U	1 U	15	**17**	**160**	1 U	1 U	**110**	1 U	**16**	50
		Port 5	5/12/2014	1 U	1 U	1.8	--	**0.93**	0.63	5 U	1 U	1 U	**0.76**	2.3	**18**	1 U	1 U	2.9 U	**8.2**	**410**	1 U	1 U	**200**	1 U	3.7	51
		Port 5	11/3/2014	1 U	1 U	1.2	--	0.5 U	0.59	5 U	1 U	1 U	**0.76**	1.2	**11**	1 U	1 U	2.4 U	**8.8**	**260**	1 U	1 U	**160**	1 U	4.7	48
		Port 4	5/12/2014	1 U	1 U	1.3	--	0.5 U	0.65	5 U	1 U	1 U	**1.1**	0.89 J	3.8	1 U	1 U	2 U	2.7	**130**	1 U	1 U	**190**	1 U	4.7	45
		Port 4	11/3/2014	1 U	1 U	1.5	--	0.5 U	0.58	5 U	1 U	1 U	**1**	1 U	2.3	1 U	1 U	2 U	3.1	**150**	1 U	1 U	**170**	1 U	5.4	41
		Port 3	5/12/2014	1 U	1 U	1 U	--	0.5 U	0.19 J	5 U	1 U	1 U	0.45 J	1 U	1 U	1 U	1 U	2 U	0.98 J	**6.2**	1 U	1 U	**11**	1 U	5.1	49
		Port 3	11/3/2014	1 U	1 U	1 U	--	0.5 U	0.19 J	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	1.5 J	3.1	1 U	1 U	**6.9**	1 U	5.6	46
		Port 2	5/12/2014	1 U	1 U	1 U	--	0.5 U	**9.2**	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	2.8	66
		Port 2	11/3/2014	1 U	1 U	1 U	--	0.5 U	**8.4**	5 U	1 U	1 U	**0.95**	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	2.6	62
		Port 1	5/12/2014	1 U	1 U	1 U	--	0.5 U	**10**	5 U	1 U	1 U	**0.62**	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1.7 U	58
		Port 1	11/3/2014	1 U	1 U	1 U	--	0.5 U	**9.6**	5 U	1 U	1 U	**0.81**	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1.5	56
MW 5-25	BPW525	Port 7	5/13/2014	1 U	1 U	1 U	--	0.5 U	0.5 UJ	5 UJ	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2.3	1 U	1 U	1 U	1 U	1 U	3.7 U	38
		Port 7	10/31/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**5.6**	1 U	1 U	1 U	1 U	1 U	4	35
		Port 7	10/31/2014 (Field Duplicate)	1 U	1 U	1 U	--	0.5 U	0.33 J	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.11 U	0.5 U
		Port 6	10/31/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2.1	1 U	1 U	1 U	1 U	1 U	3.9	31
		Port 6	5/13/2014 (Field Duplicate)	1 U	1 U	1 U	--	0.5 U	0.5 UJ	1.9 J	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	4.3	2 U	1 U	1 U	1 U	1 U	1 U	1.8	0.5 U
		Port 6	5/13/2014	1 U	1 U	1 U	--	0.5 U	0.5 UJ	5 UJ	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2.3	1 U	1 U	1 U	1 U	1 U	3.7 U	37
		Port 5	10/31/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**12**	1 U	1 U	1 U	1 U	1 U	**16**	62
		Port 5	5/13/2014	1 U	1 U	1 U	--	0.5 U	0.5 UJ	5 UJ	1 U	1 U	0.5 U	0.55 J	1 U	1 U	1 U	2 U	**14**	0.96 J	1 U	1 U	1 U	1 U	**19**	69
		Port 4	10/31/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**22**	1.2	1 U	1 U	1 U	1 U	**23**	69
		Port 4	5/13/2014	1 U	1 U	1 U	--	0.5 U	0.5 UJ	5 UJ	1 U	1 U	0.5 U	0.56 J	1 U	1 U	1 U	2 U	**21**	2.5	1 U	1 U	0.58 J	1 U	**23**	73
		Port 3	10/31/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**22**	1.3	1 U	1 U	1 U	1 U	**22**	46
		Port 3	5/13/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 UJ	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**21**	2.2	1 U	1 U	1 U	1 U	**22**	46
		Port 2	10/31/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**6.1**	1 U	1 U	1 U	1 U	1 U	5.1	23
		Port 2	5/12/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	**0.76**	1 U	1 U	1 U	1 U	2 U	**5.9**	1 U	1 U	1 U	1 U	1 U	5.3	23
		Port 1	10/30/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	**2.2**	1 U	1 U	1 U	1 U	2 U	1.3 J	1 U	1 U	1 U	1 U	1 U	1.3	30
		Port 1	5/12/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	**2.2**	1 U	1 U	1 U	1 U	2 U	1.4 J	1.9	1 U	1 U	0.70 J	1 U	1.4 U	31
MW 5-26	BPW526	Port 7	5/28/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	4	40
		Port 7	11/4/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	4.2	39
		Port 6	5/28/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3	30
		Port 6	11/4/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	0.79 J	1 U	1 U	1 U	1 U	3.2	35
		Port 5	5/28/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1.7	37
		Port 5	11/4/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	2.1	40
		Port 4	5/28/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.47	26
		Port 4	11/4/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.54	26
		Port 3	5/28/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.41	25
		Port 3	11/4/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.48	25
		Port 2	5/28/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.41	32
		Port 2	11/4/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.47	31
		Port 1	5/28/2014	1 U	1 U	1 U	--	0.5 U	--	5 UJ	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.33	34
		Port 1	11/4/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.42	33
MW 5-27	BPW527	Port 7	5/22/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	1.8 J	1 U	1 U	1 U	1 U	1 U	1.3 U	49
		Port 7	11/5/2014	1 U	1 U	1 U	--	0.5 UJ	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.35	65
		Port 6	5/22/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	1.3 J	0.51 J	1 U	1 U	1 U	1 U	1.4 U	45
		Port 6	11/5/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	1.3 J	1 U	1 U	1 U	1 U	1 U	1.7	45
		Port 5	5/22/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.75 U	22
		Port 5	11/5/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.88	22
		Port 4	5/22/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.71 U	23
		Port 4	11/5/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1	25
		Port 3	5/22/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.27 U	20
		Port 3	11/5/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.29	20
		Port 2	5/22/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.34 U	20
		Port 2	11/5/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.43	20
		Port 1	5/22/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.15 U	19
		Port 1	11/5/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.63 J	2 U	1 U	1 U	1 U	1 U	1 U	0.18	19
WHICO MP-1	W10WHMP1	Port 6	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Port 5	5/30/2014	1 U	1 U	1 U	--	0.5 U	0.43 J	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2.9	**11**	1 U	1 U	3.6	1 U	0.46	37
		Port 4	5/30/2014	1 U	1 U	1 U	--	0.5 U	**1.7**	5 U	1 U	1 U	0.5 U	1.5	**7.7**	1 U	1 U	**13**	3.1	**200**	1 U	0.65 J	**110**	1 U	2.3	40
		Port 3	5/30/2014	1 U	1 U	1 U	--	0.5 U	0.19 J	12	1 U	1 U	0.5 U	0.56 J	0.80 J	1 U	1 U	2 U	2 U	**36**	1 U	1 U	**35**	1 U	0.11 U	40
		Port 2	5/30/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	0.65 J	1 U	1 U	1 U	2 U	1.1 J	**6.5**	1 U	1 U	**14**	1 U	3.3	50
		Port 1	5/30/2014	1 U	1 U	1 U	--	0.5 U	0.16 J	5 U	1 U	1 U	0.5 U	0.80 J	1 U	1 U	1 U	2 U	2 U	**6.6**	1 U	1 U	1.7	1 U	0.11 U	55
Other Monitoring Wells				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AJ MW-2R	W11AJMW2R		2/26/2014	--	0.5 U	0.78	--	**0.75**	**5.0**	--	--	--	**0.74**	3.7	**7.3**	--	--	**770**	**21**	**19**	--	0.5 U	**91**	--	6.6	**41**
			5/29/2014	--	0.5 U	0.5 U	--	**0.60**	**6.1**	--	--	--	0.5 U	6.4	**6.0**	--	--	**830**	**25**	2.2	--	0.92	**28**	--	6.1	43
			8/27/2014	--	0.5 U	0.5 U	--	**0.60**	**6.8**	--	--	--	0.5 U	8.6	**8.1**	--	--	**630**	**12**	**73**	--	1.5	**58**	--	6.0	43
			12/10/2014	--	0.5 U	0.52	--	**0.51**	**8.5**	--	--	--	0.5 U	6.4	**9.5**	--	--	**64**	5.8	**13**	--	0.5 U	**22**	--	5.2	42
AJMW-4			DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AJ MW-6	W11AJMW6		2/26/2014	--	0.5 U	0.5 U	--	0.5 U	1.0 U	--	--	--	0.5 U	1.9	0.85	--	--	2 U	**46**	1.5	--	0.5 U	**21**	--	6.8	33
			2/26/2014 (Field Duplicate)	--	0.5 U	0.5 U	--	0.5 U	1.0 U	--	--	--	0.5 U	1.9	0.92	--	--	2 U	**47**	1.5	--	0.5 U	**22**	--	6.8	33
			5/29/2014	--	0.5 U	0.52	--	0.5 U	1.1	--	--	--	**0.55**	3.0	1.7	--	--	2 U	**33**	**17**	--	0.5 U	**77**	--	6.4	35
			5/29/2014 (Field Duplicate)	--	0.5 U	0.66	--	0.5 U	1.4	--	--	--	**0.58**	2.8	1.8	--	--	2 U	**33**	**16**	--	0.5 U	**75**	--	6.3	35
			8/27/2014	--	0.5 U	0.5 U	--	0.5 U	1.1	--	--	--	0.5 U	1.9	2.8	--	--	1.9 U	3.4	3.7	--	0.5 U	**22**	--	5.0	36
			8/27/2014 (Field Duplicate)	--	0.5 U	0.5 U	--	0.5 U	1.0 U	--	--	--	0.5 U	1.8	2.7	--	--	1.9 U	3.5	3.5	--	0.5 U	**22**	--	5.0	36
			12/10/2014	--	0.5 U	0.5 U	--	0.5 U	**1.4**	--	--	--	0.5 U	4.2	5.9	--	--	1.9 U	2.3	**8.4**	--	0.84	**38**	--	4.5	37
			12/10/2014 (Field Duplicate)	--	0.5 U	0.5 U	--	0.5 U	**1.0**	--	--	--	0.5 U	4.2	5.5	--	--	1.9 U	2.2	**8.0**	--	0.92	**36**	--	4.6	37
ALR MW-1R	W11AZW1R		4/23/2014	0.43 J	0.56	**14**	0.020 U	0.50 U	0.90 J	10 U	0.50 U	1.0 U	0.50 U	0.38 J	0.93	0.50 U	1.0 U	2 U	1.1 J	0.72	0.50 U	0.50 U	**14**	1.0 U	7.3	49
			10/21/2014	1.6	1	**35**	0.020 U	**0.77**	**1.8**	10 U	0.50 U	1.0 U	0.50 U	0.82	0.41 J	0.50 U	1.0 U	2 U	4.0 U	3.3	0.50 U	0.50 U	**37**	1.0 U	6.2	46
ALR MW-2R	W11AZW2R		4/23/2014	0.50 U	0.50 U	0.50 U	0.020 U	0.50 U	1.0 U	10 U	0.50 U	1.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	2 U	1.9 J	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	**10**	61
			10/21/2014	0.50 U	0.50 U	0.51	0.020 U	0.50 U	1.0 U	10 U	0.50 U	1.0 U	0.50 U	0.77	0.50 U	0.50 U	1.0 U	2 U	2.2 J	0.55	0.50 U	0.50 U	0.30 J	1.0 U	**11**	50
ALR MW-3	W11AZW3		4/24/2014	0.64 U	0.88 U	0.92 U	0.020 U	0.52 U	**1.6**	10 U	0.64 U	1.8 U	**1.1**	2.5	4.9	0.64 U	1.3 U	5.7	**220**	**34**	0.68 U	0.60 U	**87**	1.0 U	6	25
			4/24/2014 (Field Duplicate)	0.64 U	0.88 U	0.92 U	0.020 U	0.52 U	**1.4**	10 U	0.64 U	1.8 U	**1.1**	2.5	4.5	0.64 U	1.3 U	5.8	**230**	**33**	0.68 U	0.60 U	**83**	1.0 U	6	25
			10/21/2014	0.64 U	0.88 U	0.92 U	**0.0084 J**	0.52 U	**1.1**	10 U	0.64 U	1.8 U	**1.6**	2.8	2.8	0.64 U	1.3 U	**17**	**72**	**75**	0.68 U	0.60 U	**120**	1.0 U	3.8	28
ALR MW-8	W11AZW08		4/23/2014	0.50 U	0.50 U	0.50 U	0.020 U	0.50 U	1.0 U	10 U	0.50 U	1.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	2 U	1.9 J	0.50 U	0.50 U	0.50 U	0.28 J	1.0 U	**12**	64
			10/20/2014	0.36 J	0.50 U	3.7	0.020 U	0.50 U	1.0 U	10 U	0.50 U	1.0 U	0.50 U	0.59	0.50 U	0.50 U	1.0 U	2 U	1.6 J	0.74	0.50 U	0.50 U	2.4	1.0 U	8.8	59
			10/20/2014 (Field Duplicate)	0.34 J	0.50 U	3.2	0.020 U	0.50 U	1.0 U	10 U	0.50 U	1.0 U	0.50 U	0.55	0.50 U	0.50 U	1.0 U	2 U	1.6 J	0.66	0.50 U	0.50 U	2.2	1.0 U	8.8	58
ALR MW-9	W11AZW09		4/24/2014	0.50 U	0.50 U	2.1	**0.0075 J**	0.50 U	0.74 J	10 U	0.50 U	1.0 U	0.50 U	2	1.4	0.50 U	1.0 U	**1200**	**15**	**26**	0.50 U	0.50 U	4.4	1.0 U	2.9	36
			10/21/2014	0.50 U	0.50 U	5.4	0.020 U	0.50 U	1.0 U	3.9 J	0.50 U	1.0 U	0.50 U	1.7	0.79	0.50 U	1.0 U	**19**	1.9 J	**13**	0.50 U	0.50 U	2.9	1.0 U	4.5	34
ALR MW-10R	W11AZW10R		4/23/2014	3.9	0.50 U	**16**	0.020 U	0.50 U	1.0 U	10 U	0.50 U	1.0 U	0.50 U	1.1	0.50 U	0.50 U	1.0 U	2 U	1.9 J	2	0.50 U	0.50 U	**6.1**	1.0 U	9	59
			10/20/2014	0.66	0.50 U	3.7	0.020 U	0.50 U	1.0 U	10 U	0.50 U	1.0 U	0.50 U	1.1	0.50 U	0.50 U	1.0 U	2 U	1.9 J	0.71	0.50 U	0.50 U	1	1.0 U	8.8	57
LACO KEY	Z1000006		Not sampled	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Monitoring Well Cluster				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW 5-28D	BPW528D		2/18/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.8	25
			5/6/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.66	29

TABLE 5-3
2013 GROUNDWATER QUALITY MONITORING RESULTS
Baldwin Park Operable Unit
San Gabriel Valley, California

Well Name	Site ID	Port [a]	Sample Date	1,1,1-Trichloroethane (µg/L)	1,1-Dichloroethane (µg/L)	1,1-Dichloroethene (µg/L)	1,2,3-Trichloropropane [b] (µg/L)	1,2-Dichloroethane (µg/L)	1,4-Dioxane (µg/L)	Acetone (µg/L)	Benzene (µg/L)	Carbon Disulfide (µg/L)	Carbon Tetrachloride (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloroethene (µg/L)	Ethylbenzene (µg/L)	Methylene Chloride (µg/L)	NDMA (ng/L)	Perchlorate (µg/L)	Tetrachloroethene (µg/L)	Toluene (µg/L)	trans-1,2-Dichloroethene (µg/L)	Trichloroethene (µg/L)	Xylenes, Total [c] (µg/L)	Nitrate as N [d] (mg/L)	Sulfate (mg/L)
Federal or California State MCL (NL) [SMCL] [e]				**200**	**5**	**6**	**0.005**	**0.5**	**(1)**	**--**	**1**	**160**	**0.5**	**80**	**6**	**300**	**5**	**(10)**	**6**	**5**	**150**	**10**	**5**	**1750**	**10**	**[250]**
			8/12/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.50 U	28
			10/27/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.48	23
MW 5-28I	BPW528I		2/18/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 UJ	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	3	1 U	1 U	1 U	1 U	1 U	2.4	22
			5/6/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2.3	1 U	1 U	1 U	1 U	1 U	2.4	26
			5/6/2014 (Field Duplicate)	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2.5	1 U	1 U	1 U	1 U	1 U	2.2	23
			8/12/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	2.0 J	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.11 U	4.4
			10/27/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2.8	1 U	1 U	1 U	1 U	1 U	2.3	22
			10/27/2014 (Field Duplicate)	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2.9	1 U	1 U	1 U	1 U	1 U	2.3	23
MW 5-28S	BPW528S		2/18/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	**47**	**9.9**	1 U	1 U	1 U	1 U	1 U	9.3	29
			2/18/2014 (Field Duplicate)	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**10**	1 U	1 U	1 U	1 U	1 U	9.5	29
			5/6/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**9.7**	1 U	1 U	1 U	1 U	1 U	9.2	32
			8/12/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	3.7 J	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**9.2**	1 U	1 U	1 U	1 U	1 U	1.6 U	31
			8/12/2014 (Field Duplicate)	1 U	1 U	1 U	--	0.5 U	0.5 U	3.5 J	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**10**	1 U	1 U	1 U	1 U	1 U	3	31
			10/27/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**11**	1 U	1 U	1 U	1 U	1 U	9.6	31
			10/27/2014 (Field Duplicate)	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	**11**	1 U	1 U	1 U	1 U	1 U	9.6	31
CC E DURBIN	1902920		Not in operation - no sampling results rep	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CDWC 2			1/6/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2 U	0.85	--	--	0.68	--	3.4	--
			2/3/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2 U	0.9	--	--	0.69	--	2.7	--
			3/3/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2.3	0.85	--	--	0.58	--	4.3	--
			4/7/2014	0.50 U	0.50 U	0.50 U	--	0.50 U	--	--	0.50 U	--	0.50 U	1.0 U	0.50 U	0.50 U	0.50 U	2 U	2.5	1.2	0.50 U	0.50 U	1.1	0.50 U	4.1	40
			5/5/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	3	1.3	--	--	1.5	--	4.5	--
			6/2/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2.000 U	3.4	1.6	--	--	1.4	--	4.5	--
			7/7/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	3.6	1.7	--	--	2	--	5.2	--
			8/4/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 UJ	4	1.6	--	--	1.7	--	5.6	--
			9/2/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	4.8	1.8	--	--	2	--	5.6	--
			10/6/2014	0.50 U	0.50 U	0.50 U	--	0.50 U	--	--	0.50 U	--	0.50 U	1.0 U	0.50 U	0.50 U	0.50 U	2 U	2.7	1.1	0.50 U	0.50 U	0.89	0.50 U	4.5	39
			11/3/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2.1	1	--	--	0.6	--	3.6	--
			12/1/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2.2	0.99	--	--	0.74	--	4.1	--
CDWC 3	01903057		1/6/2014	--	--	--	--	0.50 U	--	--	--	--	**1.7**	--	--	--	--	**14**	**11**	**22**	--	--	**30**	--	5	--
			2/3/2014	--	--	--	--	0.50 U	--	--	--	--	**2.7**	--	--	--	--	**13**	**11**	**30**	--	--	**43**	--	5	--
			3/3/2014	--	--	--	--	0.50 U	--	--	--	--	**1.5**	--	--	--	--	**13**	**11**	**24**	--	--	**28**	--	5	--
			4/7/2014	0.50 U	0.50 U	**4.4**	--	0.50 U	--	--	0.50 U	--	**2**	1.0 U	3.2	0.50 U	0.50 U	**12**	**11**	**21**	0.50 U	4.4	**28**	0.50 U	5	36
			5/5/2014	--	--	--	--	0.50 U	--	--	--	--	**2.4**	--	--	--	--	**14**	**11**	**24**	--	--	**36**	--	5	--
			5/9/2014	1 U	1 U	5.1	--	0.5 U	--	5 U	1 U	1 U	**2**	0.96 J	3	1 U	1 U	**15**	**11**	**30**	1 U	1 U	**39**	1 U	1	42
			6/2/2014	--	--	--	--	0.50 U	--	--	--	--	**1.7**	--	--	--	--	**14**	**11**	**32**	--	--	**37**	--	5	--
			7/7/2014	--	--	--	--	0.50 U	--	--	--	--	**2.3**	--	--	--	--	**18**	**12**	**27**	--	--	**39**	--	5	--
			8/4/2014	--	--	--	--	0.50 U	--	--	--	--	**1.7**	--	--	--	--	**16 J**	**11**	**25**	--	--	**31**	--	5	--
			9/2/2014	--	--	--	--	0.50 U	--	--	--	--	**2**	--	--	--	--	**13**	**12**	**26**	--	--	**36**	--	5	--
			10/6/2014	0.50 U	0.50 U	4.2	--	0.50 U	--	--	0.50 U	--	**1.5**	1.0 U	2.9	0.50 U	**0.50 U**	**13**	**11**	**21**	0.50 U	0.50 U	**26**	0.50 U	5	38
			11/3/2014	--	--	--	--	0.50 U	--	--	--	--	**2.1**	--	--	--	--	**14**	**13**	**25**	--	--	**31**	--	5	--
			12/1/2014	--	--	--	--	0.50 U	--	--	--	--	**1.7**	--	--	--	--	**16**	**12**	**21**	--	--	**32**	--	5	--
CDWC 5A			1/6/2014	--	--	--	--	0.50 U	--	--	--	--	**0.71**	--	--	--	--	2 U	2 U	**8.9**	--	--	**10**	--	3	--
			2/3/2014	--	--	--	--	0.50 U	--	--	--	--	**0.93**	--	--	--	--	2 U	2 U	**11**	--	--	**13**	--	2	--
			3/3/2014	--	--	--	--	0.50 U	--	--	--	--	**0.58**	--	--	--	--	2 U	2 U	**8.1**	--	--	**7.2**	--	2	--
			4/7/2014	0.50 U	0.50 U	1.6	--	0.50 U	--	--	0.50 U	--	**0.7**	1.0 U	0.96	0.50 U	0.50 U	2 U	2 U	**7.8**	0.50 U	1.6	**8.5**	0.50 U	2	30
			5/5/2014	--	--	--	--	0.50 U	--	--	--	--	**0.81**	--	--	--	--	2 U	2 U	**7.5**	--	--	**9.7**	--	2	--
			6/2/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2.000 U	2 U	**8.4**	--	--	**7.6**	--	2.2	--
			7/7/2014	--	--	--	--	0.50 U	--	--	--	--	**0.54**	--	--	--	--	2 U	2 U	**6.2**	--	--	**6.8**	--	2	--
			8/4/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 UJ	2.000 U	**5.6**	--	--	**5.9**	--	2.2	--
			9/2/2014	--	--	--	--	0.50 U	--	--	--	--	**0.5**	--	--	--	--	2 U	2 U	**5.6**	--	--	**6.2**	--	2.2	--
			10/6/2014	0.50 U	0.50 U	1.1	--	0.50 U	--	--	0.50 U	--	0.50 U	1.0 U	0.66	0.50 U	0.50 U	2 U	2 U	**5.7**	0.50 U	0.50 U	**5**	0.50 U	2.2	29
			11/3/2014	--	--	--	--	0.50 U	--	--	--	--	**0.55**	--	--	--	--	2 U	2 U	**7.6**	--	--	**7.4**	--	2.2	--
			12/1/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2 U	**6.5**	--	--	**7.1**	--	2.2	--
CDWC 6			1/6/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2 U	5.9	--	--	--	--	--	7	--
			1/8/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	--	--	**24**	--	--	**24**	--	--	--
			2/3/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	4.9	**28**	--	--	**29**	--	7	--
			3/3/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	5	**17**	--	--	**15**	--	7	--
			4/7/2014	0.50 U	0.50 U	2.8	--	0.50 U	--	--	0.50 U	--	0.50 U	1.0 U	1.9	0.50 U	0.50 U	2 U	4.6	**14**	0.50 U	2.8	**15**	0.50 U	7	59
			5/5/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	4.2	**12**	--	--	**14**	--	6	--
			6/2/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	5.2	**28**	--	--	**24**	--	6	--
			7/7/2014	--	--	--	--	0.50 U	--	--	--	--	**1.6**	--	--	--	--	2 U	**6.3**	**29**	--	--	**33**	--	5	--
			8/4/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 UJ	4.6	**22**	--	--	**22**	--	7	--
			9/2/2014	--	--	--	--	0.50 U	--	--	--	--	**1.7**	--	--	--	--	3	**7**	**26**	--	--	**32**	--	5	--
			10/6/2014	0.50 U	0.50 U	4.3	--	0.50 U	--	--	0.50 U	--	0.83	1.0 U	3	0.50 U	**0.50 U**	2.4	5.8	**25**	0.50 U	0.50 U	**24**	0.50 U	5	44
			11/3/2014	--	--	--	--	0.50 U	--	--	--	--	**1.3**	--	--	--	--	2.8	**7.5**	**30**	--	--	**31**	--	5	--
			12/1/2014	--	--	--	--	0.50 U	--	--	--	--	**1.1**	--	--	--	--	2.7	**6.2**	**31**	--	--	**36**	--	6	--
CDWC 8			1/6/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2 U	1.6	--	--	0.83	--	3	--
			2/3/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2 U	1.8	--	--	0.50 U	--	3	--
			3/3/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2 U	2.9	--	--	0.50 U	--	3	--
			4/7/2014	0.50 U	0.50 U	0.50 U	--	0.50 U	--	--	0.50 U	--	0.50 U	1.0 U	0.50 U	0.50 U	0.50 U	2 U	2 U	2.1	0.50 U	0.50 U	0.50 U	0.50 U	3	50
			5/5/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2 U	1.2	--	--	0.50 U	--	2	--
			6/2/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2 U	1.4	--	--	0.50 U	--	2	--
			7/7/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2 U	1.6	--	--	0.51	--	3	--
			8/4/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 UJ	2 U	1.2	--	--	0.50 U	--	3	--
			9/2/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2 U	1.4	--	--	0.50 U	--	3	--
			10/6/2014	0.50 U	0.50 U	0.50 U	--	0.50 U	--	--	0.50 U	--	0.50 U	1.0 U	0.50 U	0.50 U	0.50 U	2 U	2 U	1.3	0.50 U	0.50 U	0.50 U	0.50 U	5	39
			11/3/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2.7	1.7	--	--	0.61	--	3	--
			12/1/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2.3	1.7	--	--	0.52	--	3	--
CDWC 14	08000174		2/3/2014	--	--	--	--	0.50 U	--	--	--	--	**0.53**	--	--	--	--	2.6	**17**	**7.2**	--	--	**8.7**	--	17	--
			3/3/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2	**18**	4.5	--	--	4.3	0.50 U	15	--
			4/7/2014	0.50 U	0.50 U	0.55	--	0.50 U	--	--	0.50 U	--	0.50 U	1.0 U	0.50 U	0.50 U	0.50 U	2.9	**17**	4.9	0.50 U	0.54	**5.6**	1.0 U	16	55
			5/5/2014	--	--	--	--	0.50 U	--	--	--	--	**0.53**	--	--	--	--	2.9	**17**	**5**	--	--	**7.3**	1 U	14	--
			5/9/2014	1 U	1 U	0.72 J	--	0.5 U	--	5 U	1 U	1 U	0.5 U	0.72 J	0.56 J	1 U	1 U	4.3	**18**	**6.4**	1 U	1 U	**7.9**	1 U	16 J	62
			6/2/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	3.6	**16**	**6.8**	--	--	**7.3**	--	13	--
			7/7/2014	--	--	--	--	0.50 U	--	--	--	--	**0.63**	--	--	--	--	5	**19**	**6.5**	--	--	**9.4**	--	16	--
			8/4/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	3.8	**15**	**5.5**	--	--	**6.7**	--	14	--
			12/15/2014	0.50 U	0.50 U	0.53	--	0.50 U	--	--	0.50 U	--	**0.54**	1.0 U	0.50 U	0.50 U	0.50 U	4.4	**18**	4.7	0.50 U	0.50 U	**5.5**	0.50 U	17	61
CIC BALDWIN 1	01900885		5/9/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	--	2 U	1 U	1 U	1 U	1 U	1 U	0.86	27
			5/9/2014 (Field Duplicate)	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	--	2 U	1 U	1 U	1 U	1 U	1 U	0.83	27
LACO SANTA FE	08000070		5/7/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1.7	37
			5/7/2014 (Field Duplicate)	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1.7	32
SGVWC B6C		SGVWC Well B6C	5/30/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	--	0.50 U	--	0.50 U	0.75	0.50 U	0.50 U	0.50 U	1000 U	--	0.50 U	0.50 U	0.50 U	3	1.0 U	--	--
			8/14/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.64	0.50 U	0.50 U	0.50 U	9.3	**23**	0.50 U	0.50 U	0.50 U	2.1	1.0 U	**21**	67
		Well B6C 1910039-026	10/30/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1000 U	--	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	--	--
			11/12/2014	0.50 U	0.50 U	0.50 U	0.0050 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	0.83	0.50 U	0.50 U	0.50 U	2.7	**27**	0.50 U	0.50 U	0.50 U	2	1.0 U	**21**	70
SGVWC B6D	78000098		5/9/2014	1 U	1.4	1 U	--	**2.4**	**2.0**	5 U	1 U	1 U	**2.5**	2.9	2.1	1 U	1 U	**150 J**	**61**	**7.0**	1 U	1 U	**77**	1 U	5.2	45
			8/14/2014	0.50 U	1.0	0.77	0.0050 U	**2.0**	**2.0**	--	0.50 U	--	**2.0**	2.3	2.5	0.50 U	0.50 U	**100**	**57**	**5.4**	0.50 U	0.50 U	**56**	1.0 U	5.2	46
			10/30/2014	0.50 U	0.87	0.52	0.50 U	**1.8**	--	--	0.50 U	--	**1.7**	2.2	2.2	0.50 U	0.50 U	1000 U	--	**4.5**	0.50 U	0.50 U	**54**	1 U	--	--
			11/12/2014	0.50 U	1.0	0.78	0.0050 U	**2.0**	**1.4**	--	0.50 U	--	**2.1**	2.6	2.5	0.50 U	0.50 U	**65**	**48**	**4.9**	0.50 U	0.50 U	**52**	1.0 U	5.2	49
SWS 121W1			1/13/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	4.2	0.50 U	--	--	0.50 U	--	--	--
			2/11/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	4.2	0.50 U	--	--	0.50 U	--	--	--

TABLE 5-3
2013 GROUNDWATER QUALITY MONITORING RESULTS
Baldwin Park Operable Unit
San Gabriel Valley, California

Well Name	Site ID	Port [a]	Sample Date	1,1,1-Trichloroethane (µg/L)	1,1-Dichloroethane (µg/L)	1,1-Dichloroethene (µg/L)	1,2,3-Trichloropropane [b] (µg/L)	1,2-Dichloroethane (µg/L)	1,4-Dioxane (µg/L)	Acetone (µg/L)	Benzene (µg/L)	Carbon Disulfide (µg/L)	Carbon Tetrachloride (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloroethene (µg/L)	Ethylbenzene (µg/L)	Methylene Chloride (µg/L)	NDMA (ng/L)	Perchlorate (µg/L)	Tetrachloroethene (µg/L)	Toluene (µg/L)	trans-1,2-Dichloroethene (µg/L)	Trichloroethene (µg/L)	Xylenes, Total [c] (µg/L)	Nitrate as N [d] (mg/L)	Sulfate (mg/L)
Federal or California State MCL (NL) [SMCL] [e]				**200**	**5**	**6**	**0.005**	**0.5**	**(1)**	**--**	**1**	**160**	**0.5**	**80**	**6**	**300**	**5**	**(10)**	**6**	**5**	**150**	**10**	**5**	**1750**	**10**	**[250]**
			3/11/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	4.4	0.50 U	--	--	0.50 U	--	--	--
			4/15/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	4.3	0.50 U	--	--	0.50 U	--	--	--
			5/13/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	4.6	0.50 U	--	--	0.50 U	--	--	--
			6/9/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	3.9	0.50 U	--	--	0.50 U	--	--	--
			7/10/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	4	0.50 U	--	--	0.50 U	--	--	--
			8/11/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	4.6	0.50 U	--	--	0.50 U	--	--	--
			9/17/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 UJ	4.2	0.50 U	--	--	0.50 U	--	--	--
			10/15/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	4.3	0.50 U	--	--	0.50 U	--	--	--
			11/21/2014	--	--	--	--	0.50 U	--	--	--	--	--	--	--	--	--	2 U	4.4	0.50 U	--	--	0.50 U	--	--	--
			12/22/2014	--	--	--	--	0.50 U	--	--	--	--	--	--	--	--	--	2 U	**8.5**	0.50 U	--	--	0.50 U	--	--	--
SWS 139W2	01901599	285	5/6/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	0.95 J	1 U	1 U	1 U	2 U	**25**	1 U	1 U	1 U	1 U	1 U	**24**	91
		370	5/6/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1	1 U	1 U	1 U	2 U	**25**	1 U	1 U	1 U	1 U	1 U	**24**	89
SWS 139W6	08000152		5/6/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	5.4	1 U	1 U	1 U	1 U	1 U	5.9	57
			5/6/2014 (Field Duplicate)	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	4.3	1 U	1 U	1 U	1 U	1 U	5.2	55
SWS 140W5			1/2/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10	--	--	--	--	--	--	--
			1/6/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
			1/10/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	17 J	12	0.50 U	--	--	8.8	--	--	--
			2/19/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2.1	12	0.50 U	--	--	0.61	--	--	--
			2/24/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.5	--	--	--	--	--	--	--
			3/11/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2.7	9	0.50 U	--	--	0.50 U	--	--	--
			3/14/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.8	--	--	--	--	--	--	--
			3/18/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
			3/20/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
			3/24/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
			4/7/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10	--	--	--	--	--	--	--
			4/14/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
			4/15/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	15	11	0.50 U	--	--	7.6	--	--	--
			4/21/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
			4/28/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8	--	--	--	--	--	--	--
			5/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12	--	--	--	--	--	--	--
			5/12/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
			5/13/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	15	11	0.50 U	--	--	8.3	--	--	--
			5/19/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12	--	--	--	--	--	--	--
			5/21/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
			5/27/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10	--	--	--	--	--	--	--
			6/2/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
			6/9/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	14	10	0.50 U	--	--	7.7	--	--	--
			6/16/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
			6/23/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
			7/7/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
			7/10/2014	--	--	--	--	0.50 U	--	--	--	--	0.51	--	--	--	--	14	11	0.50 U	--	--	8.6	--	--	--
			7/14/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
			7/21/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
			7/28/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12	--	--	--	--	--	--	--
			8/6/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
			8/11/2014	--	--	--	--	0.50 U	--	--	--	--	0.63	--	--	--	--	18	12	0.52	--	--	9.8	--	--	--
			8/18/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
			8/26/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.1	--	--	--	--	--	--	--
			9/2/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10	--	--	--	--	--	--	--
			9/8/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10	--	--	--	--	--	--	--
			9/10/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	16	9.9	0.50 U	--	--	7.7	--	--	--
			9/15/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.8	--	--	--	--	--	--	--
			9/22/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.7	--	--	--	--	--	--	--
			9/29/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10	--	--	--	--	--	--	--
			10/6/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12	--	--	--	--	--	--	--
			10/17/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	9.3	0.50 U	--	--	0.50 U	--	--	--
			10/23/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.5	--	--	--	--	--	--	--
			10/27/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10	--	--	--	--	--	--	--
			11/21/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	16	11	0.50 U	0.50 U	0.50 U	9.1	1.0 U	--	--
			12/22/2014	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	--	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.1	9.8	0.50 U	0.50 U	0.50 U	0.55	1.0 U	--	--
SWS 142W2			1/13/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	3.3	0.50 U	--	--	0.50 U	--	--	--
			2/11/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	3	0.50 U	--	--	0.50 U	--	--	--
			3/12/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	3.8	0.50 U	--	--	0.50 U	--	--	--
			4/15/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	3.1	0.50 U	--	--	0.50 U	--	--	--
			5/13/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	3.1	0.50 U	--	--	0.50 U	--	--	--
			6/9/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2.9	0.50 U	--	--	0.50 U	--	--	--
			7/10/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	3.1	0.50 U	--	--	0.50 U	--	--	--
			8/11/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	3.5	0.50 U	--	--	0.50 U	--	--	--
			9/17/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 UJ	3.2	0.50 U	--	--	0.50 U	--	--	--
			10/15/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	3.2	0.50 U	--	--	0.50 U	--	--	--
			11/21/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	3.3	0.50 U	--	--	0.50 U	--	--	--
SWS 151W2			1/13/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2.2	0.50 U	--	--	1.3	--	--	--
			2/11/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	1.6 J	0.50 U	--	--	1.5	--	--	--
			3/12/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2.4	0.50 U	--	--	1.3	--	--	--
			4/15/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2.6	0.50 U	--	--	1.5	--	--	--
			5/13/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	3	0.50 U	--	--	1.7	--	--	--
			6/9/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2.5	0.50 U	--	--	1.2	--	--	--
			7/10/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2.8	0.50 U	--	--	1.7	--	--	--
			8/11/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	3	0.50 U	--	--	1.7	--	--	--
			9/17/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 UJ	2.8	0.50 U	--	--	1.8	--	--	--
			10/15/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	2.9	0.50 U	--	--	2.1	--	--	--
			11/21/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	3	0.50 U	--	--	1.9	--	--	--
			12/15/2014	--	--	--	--	0.50 U	--	--	--	--	0.50 U	--	--	--	--	2 U	3	0.50 U	--	--	2.1	--	--	--
VCWD BIG DALTON	01900035	275	5/7/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2.1	**14**	1 U	1 U	1 U	1 U	1 U	**15**	68
		275	5/7/2014 (Field Duplicate)	1 U	1 U	1 U	--	0.5 U	0.11 J	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	3.6	**15**	1 U	1 U	1 U	1 U	1 U	**16**	70
		410	5/7/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2	**16**	1 U	1 U	1 U	1 U	1 U	**16**	69
VCWD E MAINE	01900027		5/9/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	0.69 J	1 U	1 U	1 U	1 U	1.9	28
			5/9/2014 (Field Duplicate)	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	0.60 J	1 U	1 U	1 U	1 U	1.9	27
VCWD MORADA	01900029	430	5/7/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1.7	1 U	1 U	1 U	2 U	**8**	0.95 J	1 U	1 U	1 U	1 U	**17**	65
		510	5/7/2014	1 U	1 U	1 U	--	0.5 U	0.5 U	5 U	1 U	1 U	0.5 U	1.7	1 U	1 U	1 U	2 U	**8.1**	1	1 U	1 U	1 U	1 U	**17**	65
VCWD PADDY LN	01900031	340	5/7/2014	1 U	1 U	0.92 J	--	1.8	**2.1**	5 U	1 U	1 U	**0.6**	1.6	1.3	1 U	1 U	**72**	**44**	2	1 U	1 U	**18**	1 U	**12**	51
		460	5/7/2014	1 U	1 U	0.59 J	--	1.6	**1.5**	5 U	1 U	1 U	0.47 J	1.3	0.81 J	1 U	1 U	**170**	**36**	1.5	1 U	1 U	**13**	1 U	**14**	56
VCWD W MAINE	01900028		5/9/2014	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1.6	1 U	1 U	0.86 J	1 U	1.9	28
			5/9/2014 (Field Duplicate	1 U	1 U	1 U	--	0.5 U	--	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2 U	2 U	1.4	1 U	1 U	0.73 J	1 U	1.9	28

Notes:

a. For inactive production wells, depth (feet) of discrete low-flow sampl

b. In some instances, samples are submitted for 1,2,3-Trichloropropane (1,2,3-TCP) analysis for both the standard EPA Method 524.2, which has a reporting limit of 0.50 µg/L, and the modified low-level Sanitation and Radiation Laboratories (SRL) modified Method 524.2, which has a reporting limit of 0.005 µg/L. Where available, this table shows the results associated with the low-level SRL m

c. Total xylenes calculated as sum of xylene isomers if total xylene results not reported by laborato

d. Nitrate samples reported by laboratory as nitrate as NO3 calculated to equivalent nitrate as N when nitrate as N results not reporte

e. Federal or California State Maximum Contaminiant Level (MCL), Notification Level (NL) or Secondary MCL (SMC

-- Sample not collected, or sample not analyzed

TABLE 5-3
2013 GROUNDWATER QUALITY MONITORING RESULTS
Baldwin Park Operable Unit
San Gabriel Valley, California

Well Name	Site ID	Port [a]	Sample Date	1,1,1-Trichloroethane (µg/L)	1,1-Dichloroethane (µg/L)	1,1-Dichloroethene (µg/L)	1,2,3-Trichloropropane [b] (µg/L)	1,2-Dichloroethane (µg/L)	1,4-Dioxane (µg/L)	Acetone (µg/L)	Benzene (µg/L)	Carbon Disulfide (µg/L)	Carbon Tetrachloride (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloroethene (µg/L)	Ethylbenzene (µg/L)	Methylene Chloride (µg/L)	NDMA (ng/L)	Perchlorate (µg/L)	Tetrachloroethene (µg/L)	Toluene (µg/L)	trans-1,2-Dichloroethene (µg/L)	Trichloroethene (µg/L)	Xylenes, Total [c] (µg/L)	Nitrate as N [d] (mg/L)	Sulfate (mg/L)
Federal or California State MCL (NL) [SMCL] [e]				**200**	**5**	**6**	**0.005**	**0.5**	**(1)**	**--**	**1**	**160**	**0.5**	**80**	**6**	**300**	**5**	**(10)**	**6**	**5**	**150**	**10**	**5**	**1750**	**10**	**[250]**
U - Analyte not detected at the reported quantitation limit shown in the resul																										
J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the samp																										
UJ - Analyte not detected at the reported quantitation limit shown in the result; the reported qunatitation limit is estimate																										
NDMA = N-Nitrosodimethylamine																										
Results in bold indicate MCL, NL, or SMCL exceedec																										

TABLE 5-4
DETECTIONS OF NON-COC ORGANIC COMPOUNDS
Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Well Name	Sample Collection Date	Analytical Method	Analyte Name	Analyte ID	Result	Data Qualifier	Reporting Limit	Detection Limit	Units	California MCL	California NL
CDWC 10	4/9/2014	EPA METHOD 524.2	Total Trihalomethanes (THM'S / TTHM	THM	1.4		1.0	0.0	UG/L	80	--
COI 5	11/12/2014	EPA METHOD 8270C	BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	11		5.0	2.3	UG/L	4	--
LPVCWD 2	1/29/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	4.1		0.50	0.12	UG/L	--	1,000
LPVCWD 2	3/13/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	3.4		0.50	0.12	UG/L	--	1,000
LPVCWD 2	3/13/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	3.4		0.50	0.12	UG/L	--	1,000
LPVCWD 2	5/22/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	4.9		0.50	0.12	UG/L	--	1,000
LPVCWD 2	7/7/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	4.1		0.50	0.12	UG/L	--	1,000
LPVCWD 2	7/7/2014	EPA METHOD 524.2	TRICHLOROFLUOROMETHANE	75-69-4	0.20	J	0.50	0.18	UG/L	150	--
LPVCWD 2	9/3/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.86		0.50	0.12	UG/L	--	1,000
LPVCWD 2	10/7/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	4.4		0.50	0.12	UG/L	--	1,000
LPVCWD 2	12/2/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	5.1		0.50	0.12	UG/L	--	1,000
LPVCWD 3	7/7/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.50		0.50	0.12	UG/L	--	1,000
LPVCWD 5	1/7/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.5		0.50	0.12	UG/L	--	1,000
LPVCWD 5	2/3/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.4		0.50	0.12	UG/L	--	1,000
LPVCWD 5	3/10/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.3		0.50	0.12	UG/L	--	1,000
LPVCWD 5	4/8/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.4		0.50	0.12	UG/L	--	1,000
LPVCWD 5	5/5/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.3		0.50	0.12	UG/L	--	1,000
LPVCWD 5	6/10/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.3		0.50	0.12	UG/L	--	1,000
LPVCWD 5	7/15/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.9		0.50	0.12	UG/L	--	1,000
LPVCWD 5	8/11/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.98		0.50	0.12	UG/L	--	1,000
LPVCWD 5	10/23/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.3		0.50	0.12	UG/L	--	1,000
LPVCWD 5	11/4/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.90		0.50	0.12	UG/L	--	1,000
LPVCWD 5	12/2/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.1		0.50	0.12	UG/L	--	1,000
MW5-03 Port 04	12/8/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.3		0.50	0.12	UG/L	--	1,000
MW5-03 Port 05	12/8/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.71		0.50	0.12	UG/L	--	1,000
MW5-03 Port 06	12/8/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	3.7		0.50	0.12	UG/L	--	1,000
MW5-03 Port 07	12/9/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.71		0.50	0.12	UG/L	--	1,000
MW5-03 Port 09	12/9/2014	EPA METHOD 524.2	TRICHLOROFLUOROMETHANE	75-69-4	4.1		0.50	0.18	UG/L	150	--
MW5-05 Port 01	3/22/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.8		0.50	0.12	UG/L	--	1,000
MW5-05 Port 02	3/22/2014	EPA METHOD 524.2	TRICHLOROFLUOROMETHANE	75-69-4	0.60		0.50	0.18	UG/L	150	--
MW5-05 Port 03	3/22/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.3		0.50	0.12	UG/L	--	1,000
MW5-05 Port 03	3/22/2014	EPA METHOD 524.2	TRICHLOROFLUOROMETHANE	75-69-4	0.55		0.50	0.18	UG/L	150	--
MW5-05 Port 04	3/22/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.80		0.50	0.12	UG/L	--	1,000
MW5-11 Port 01	11/19/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	4.1		0.50	0.12	UG/L	--	1,000
MW5-11 Port 02	11/19/2014	EPA METHOD 524.2	BROMODICHLOROMETHANE	75-27-4	1.4		0.50	0.090	UG/L	80 [1]	--
MW5-11 Port 02	11/19/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.81		0.50	0.12	UG/L	--	1,000
MW5-11 Port 03	11/20/2014	EPA METHOD 521	N-NITROSOMORPHOLINE	59-89-2	0.039		0.0020	0.00047	UG/L	--	--
MW5-18 Port 01	11/24/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	19		0.50	0.12	UG/L	--	1,000
MW5-18 Port 02	11/24/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	12		0.50	0.12	UG/L	--	1,000
MW5-18 Port 02	11/24/2014	EPA METHOD 524.2	Methyl tert-butyl ether	1634-04-4	3.2		2.0	0.19	UG/L	13	--
MW5-18 Port 03	11/25/2014	EPA METHOD 524.2	BROMODICHLOROMETHANE	75-27-4	0.94		0.50	0.090	UG/L	80 [1]	--
MW5-18 Port 03	11/25/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	2.6		0.50	0.12	UG/L	--	--
MW5-22 Port 03	9/24/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	2.2		0.50	0.12	UG/L	--	--
SGVWC B25A	9/5/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.2		0.50	0.12	UG/L	--	--
SGVWC B25A	10/1/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.5		0.50	0.12	UG/L	--	--
SGVWC B25A	10/30/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.2		0.50	0.12	UG/L	--	--
SGVWC B25A	11/5/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.7		0.50	0.12	UG/L	--	--
SGVWC B25B	9/5/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.99		0.50	0.12	UG/L	--	--
SGVWC B25B	10/1/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.4		0.50	0.12	UG/L	--	--
SGVWC B25B	10/30/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.3		0.50	0.12	UG/L	--	--
SGVWC B25B	11/5/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.4		0.50	0.12	UG/L	--	--
SGVWC B25B	12/1/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.2		0.50	0.12	UG/L	--	--
SGVWC B26A	9/5/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.78		0.50	0.12	UG/L	--	--
SGVWC B26A	10/1/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.95		0.50	0.12	UG/L	--	--
SGVWC B26A	10/30/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.81		0.50	0.12	UG/L	--	--
SGVWC B26A	11/5/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.1		0.50	0.12	UG/L	--	--

TABLE 5-4
DETECTIONS OF NON-COC ORGANIC COMPOUNDS
Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Well Name	Sample Collection Date	Analytical Method	Analyte Name	Analyte ID	Result	Data Qualifier	Reporting Limit	Detection Limit	Units	California MCL	California NL
SGVWC B26B	9/5/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.7		0.50	0.12	UG/L	--	--
SGVWC B26B	10/1/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	2.0		0.50	0.12	UG/L	--	--
SGVWC B26B	10/30/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	2.6		0.50	0.12	UG/L	--	--
SGVWC B26B	11/5/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	2.3		0.50	0.12	UG/L	--	--
SGVWC B26B	12/1/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	1.9		0.50	0.12	UG/L	--	--
SGVWC B5B	4/10/2014	EPA METHOD 521	N-NITROSOMORPHOLINE	59-89-2	0.0023		0.0020	0.00047	UG/L	--	--
SGVWC B5B	4/10/2014	EPA METHOD 524.2	2-BUTANONE	78-93-3	1.6	J	5.0	0.72	UG/L	--	--
SGVWC B5B	7/2/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.12	J	0.50	0.12	UG/L	--	--
SGVWC B5B	9/4/2014	EPA METHOD 521	N-NITROSOMORPHOLINE	59-89-2	0.0021		0.0020	0.00047	UG/L	--	--
SGVWC B5B	11/4/2014	EPA METHOD 521	N-NITROSOMORPHOLINE	59-89-2	0.0022		0.0020	0.00047	UG/L	--	--
SGVWC B5C	10/30/2014	EPA METHOD 8270C	DIETHYL PHTHALATE	84-66-2	14		1.0	0.15	UG/L		--
SGVWC B5E	1/6/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.44	J	0.50	0.12	UG/L	--	--
SGVWC B5E	2/4/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.41	J	0.50	0.12	UG/L	--	--
SGVWC B5E	3/4/2014	EPA METHOD 521	N-NITROSOMORPHOLINE	59-89-2	0.0024		0.0020	0.00047	UG/L	--	--
SGVWC B5E	3/4/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.36	J	0.50	0.12	UG/L	--	--
SGVWC B5E	4/1/2014	EPA METHOD 521	N-NITROSOMORPHOLINE	59-89-2	0.0020		0.0020	0.00047	UG/L	--	--
SGVWC B5E	4/1/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.30	J	0.50	0.12	UG/L	--	--
SGVWC B5E	5/5/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.49	J	0.50	0.12	UG/L	--	--
SGVWC B5E	5/12/2014	EPA METHOD 8270C	BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	44		5.0	2.3	UG/L	4	--
SGVWC B5E	6/2/2014	EPA METHOD 521	N-NITROSOMORPHOLINE	59-89-2	0.0020		0.0020	0.00047	UG/L	--	--
SGVWC B5E	6/2/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.37	J	0.50	0.12	UG/L	--	--
SGVWC B5E	7/2/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.46	J	0.50	0.12	UG/L	--	--
SGVWC B5E	8/4/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.49	J	0.50	0.12	UG/L	--	--
SGVWC B5E	9/4/2014	EPA METHOD 521	N-NITROSOMORPHOLINE	59-89-2	0.0025		0.0020	0.00047	UG/L	--	--
SGVWC B5E	9/4/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.60		0.50	0.12	UG/L	--	--
SGVWC B5E	10/1/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.51		0.50	0.12	UG/L	--	--
SGVWC B5E	11/4/2014	EPA METHOD 521	N-NITROSOMORPHOLINE	59-89-2	0.0026		0.0020	0.00047	UG/L	--	--
SGVWC B5E	12/3/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.47	J	0.50	0.12	UG/L	--	--
SGVWC B6D	8/14/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	5.2		0.50	0.12	UG/L	--	--
SGVWC B6D	10/30/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	3.9		0.50	0.12	UG/L	--	--
SGVWC B6D	11/12/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	5.5		0.50	0.12	UG/L	--	--
SWS 121W1	7/10/2014	EPA METHOD 524.2	2-BUTANONE	78-93-3	7.6		5.0	0.72	UG/L	--	--
SWS 140W5	1/10/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.53		0.50	0.12	UG/L	--	--
SWS 140W5	7/10/2014	EPA METHOD 524.2	2-BUTANONE	78-93-3	5.1		5.0	0.72	UG/L	--	--
SWS 140W5	7/10/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.65		0.50	0.12	UG/L	--	--
SWS 142W2	7/10/2014	EPA METHOD 524.2	2-BUTANONE	78-93-3	5.9		5.0	0.72	UG/L	--	--
VCWD SA1-3 - Lante	2/24/2014	EPA METHOD 524.2	BROMODICHLOROMETHANE	75-27-4	0.59		0.50	0.090	UG/L	80 [1]	--
VCWD SA1-3 - Lante	2/24/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.56		0.50	0.12	UG/L	--	--
VCWD SA1-3 - Lante	2/24/2014	EPA METHOD 524.2	TRICHLOROFLUOROMETHANE	75-69-4	2.4		0.50	0.18	UG/L	150	--
VCWD SA1-3 - Lante	3/19/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.53		0.50	0.12	UG/L	--	--
VCWD SA1-3 - Lante	3/19/2014	EPA METHOD 524.2	TRICHLOROFLUOROMETHANE	75-69-4	2.6		0.50	0.18	UG/L	150	--
VCWD SA1-3 - Lante	4/16/2014	EPA METHOD 524.2	BROMODICHLOROMETHANE	75-27-4	0.58		0.50	0.090	UG/L	80 [1]	--
VCWD SA1-3 - Lante	4/16/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.56		0.50	0.12	UG/L	--	1,000
VCWD SA1-3 - Lante	4/16/2014	EPA METHOD 524.2	TRICHLOROFLUOROMETHANE	75-69-4	2.4		0.50	0.18	UG/L	150	--
VCWD SA1-3 - Lante	5/13/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.50		0.50	0.12	UG/L	--	1,000
VCWD SA1-3 - Lante	5/13/2014	EPA METHOD 524.2	TRICHLOROFLUOROMETHANE	75-69-4	2.5		0.50	0.18	UG/L	150	--
VCWD SA1-3 - Lante	6/11/2014	EPA METHOD 524.2	TRICHLOROFLUOROMETHANE	75-69-4	2.0		0.50	0.18	UG/L	150	--
VCWD SA1-3 - Lante	7/23/2014	EPA METHOD 524.2	TRICHLOROFLUOROMETHANE	75-69-4	1.9		0.50	0.18	UG/L	150	--
VCWD SA1-3 - Lante	8/19/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.61		0.50	0.12	UG/L	--	1,000
VCWD SA1-3 - Lante	8/19/2014	EPA METHOD 524.2	TRICHLOROFLUOROMETHANE	75-69-4	2.2		0.50	0.18	UG/L	150	--
VCWD SA1-3 - Lante	9/10/2014	EPA METHOD 524.2	Dichlorodifluoromethane (Freon 12)	75-71-8	0.51		0.50	0.12	UG/L	--	1,000
VCWD SA1-3 - Lante	9/10/2014	EPA METHOD 524.2	TRICHLOROFLUOROMETHANE	75-69-4	1.7		0.50	0.18	UG/L	150	--

Notes:
1) There is no MCL for bromodichloromethane, a trihalomethane compound. The MCL for total trihalomethanes is 80 ug/L.
"--" indicates the respective MCL or NL is not available or has not been established for this chemical

Abbreviations:
MCL = Maximum Contaminant Level
NL = Notification Level
UG/L = micrograms per liter

TABLE 5-5
DETECTIONS OF TENTATIVELY IDENTIFIED COMPOUNDS
Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Well Name	Sample Collection Date	Analytical Method	Analyte Name	Analyte ID	Result	Units
COI 5	2/10/2014	EPA METHOD 524.2	Tentatively Identified Compounds	TIC-ND	0.0	UG/L
COI 5	2/10/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	4.5	UG/L
COI 5	5/12/2014	EPA METHOD 524.2	Tentatively Identified Compounds	TIC-ND	0.00	UG/L
COI 5	5/12/2014	EPA METHOD 8270C	TETRACHLOROETHENE	127-18-4	2.6	UG/L
COI 5	11/12/2014	EPA METHOD 8270C	TETRACHLOROETHENE	127-18-4	4.0	UG/L
LPVCWD 5	10/23/2014	EPA METHOD 8270C	Unknown #1 (possible column bleeding)	TIC-00000111	2.5	UG/L
LPVCWD 5	10/23/2014	EPA METHOD 8270C	unknown #2	TIC-00000123	28	UG/L
LPVCWD Well 2	3/13/2014	EPA METHOD 524.2	Tentatively Identified Compounds	TIC-ND	0.0	UG/L
LPVCWD Well 2	3/13/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	2.0	UG/L
LPVCWD Well 3	3/13/2014	EPA METHOD 524.2	Tentatively Identified Compounds	TIC-ND	0.0	UG/L
LPVCWD Well 3	3/13/2014	EPA METHOD 8270C	Tentatively Identified Compounds	TIC-ND	0.0	UG/L
MW-22 Port 04	9/23/2014	EPA METHOD 8270C	Unknown 1	TIC-00000132	4.4	UG/L
MW-22 Port 05	9/23/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	3.7	UG/L
MW-22 Port 05	9/23/2014	EPA METHOD 8270C	Unknown#2 (possible column bleeding)	TIC-00000113	3.8	UG/L
MW-22 Port 06	9/23/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	2.7	UG/L
MW5-03 Port 01	12/10/2014	EPA METHOD 524.2	Trimethylsilyl fluoride	420-56-4	0.59	UG/L
MW5-03 Port 01	12/10/2014	EPA METHOD 524.2	Unknown 1	TIC-00000132	5.1	UG/L
MW5-03 Port 01	12/10/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	3.7	UG/L
MW5-03 Port 01	12/10/2014	EPA METHOD 8270C	unknown #2	TIC-00000123	6.7	UG/L
MW5-03 Port 02	12/10/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	2.2	UG/L
MW5-03 Port 02	12/10/2014	EPA METHOD 8270C	unknown #2	TIC-00000123	21	UG/L
MW5-03 Port 02	12/10/2014	EPA METHOD 8270C	Unknown 3	TIC-00000121	2.4	UG/L
MW5-03 Port 03	12/10/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	2.0	UG/L
MW5-03 Port 03	12/10/2014	EPA METHOD 8270C	unknown #2	TIC-00000123	2.3	UG/L
MW5-03 Port 05	12/8/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	5.4	UG/L
MW5-03 Port 05	12/8/2014	EPA METHOD 8270C	unknown #2	TIC-00000123	5.6	UG/L
MW5-03 Port 05	12/8/2014	EPA METHOD 8270C	Unknown 3	TIC-00000121	3.8	UG/L
MW5-03 Port 05	12/8/2014	EPA METHOD 8270C	unknown 4	TIC-00000122	3.2	UG/L
MW5-03 Port 05	12/8/2014	EPA METHOD 8270C	Unknown 5	TIC-00000137	3.1	UG/L
MW5-03 Port 06	12/8/2014	EPA METHOD 8270C	9-octadecenamide, (z)	301-02-0	2.5	UG/L
MW5-03 Port 06	12/8/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	7.8	UG/L
MW5-03 Port 06	12/8/2014	EPA METHOD 8270C	unknown #2	TIC-00000123	3.1	UG/L
MW5-03 Port 06	12/8/2014	EPA METHOD 8270C	Unknown 3	TIC-00000121	3.3	UG/L
MW5-03 Port 07	12/9/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	9.0	UG/L
MW5-03 Port 08	12/9/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	7.8	UG/L
MW5-03 Port 08	12/9/2014	EPA METHOD 8270C	unknown #2	TIC-00000123	2.5	UG/L
MW5-03 Port 08	12/9/2014	EPA METHOD 8270C	Unknown 3	TIC-00000121	2.3	UG/L
MW5-03 Port 09	12/9/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	11	UG/L
MW5-03 Port 09	12/9/2014	EPA METHOD 8270C	unknown #2	TIC-00000123	3.6	UG/L
MW5-03 Port 09	12/9/2014	EPA METHOD 8270C	Unknown 3	TIC-00000121	3.1	UG/L
MW5-03 Port 09	12/9/2014	EPA METHOD 8270C	unknown 4	TIC-00000122	3.6	UG/L

TABLE 5-5
DETECTIONS OF TENTATIVELY IDENTIFIED COMPOUNDS
Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Well Name	Sample Collection Date	Analytical Method	Analyte Name	Analyte ID	Result	Units
MW5-04 Port 04	12/8/2014	EPA METHOD 8270C	2-Fluoro-6-nitrophenol	TIC-00000262	2.8	UG/L
MW5-04 Port 04	12/8/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	6.7	UG/L
MW5-04 Port 04	12/8/2014	EPA METHOD 8270C	unknown #2	TIC-00000123	2.2	UG/L
MW5-04 Port 04	12/8/2014	EPA METHOD 8270C	unknown #6	TIC-00000148	3.9	UG/L
MW5-04 Port 04	12/8/2014	EPA METHOD 8270C	unknown 10	TIC-00000140	2.2	UG/L
MW5-04 Port 04	12/8/2014	EPA METHOD 8270C	Unknown 3	TIC-00000121	6.4	UG/L
MW5-04 Port 04	12/8/2014	EPA METHOD 8270C	unknown 4	TIC-00000122	23	UG/L
MW5-04 Port 04	12/8/2014	EPA METHOD 8270C	Unknown 5	TIC-00000137	35	UG/L
MW5-04 Port 04	12/8/2014	EPA METHOD 8270C	unknown 7	TIC-00000108	3.8	UG/L
MW5-04 Port 04	12/8/2014	EPA METHOD 8270C	unknown 8	TIC-00000161	3.1	UG/L
MW5-04 Port 04	12/8/2014	EPA METHOD 8270C	unknown 9	TIC-00000145	2.8	UG/L
MW5-05 Port 01	3/22/2014	EPA METHOD 8270C	N-butyl-benzenesulfonamide	TIC-00000124	2.9	UG/L
MW5-05 Port 01	3/22/2014	EPA METHOD 8270C	TETRACHLOROETHENE	127-18-4	34	UG/L
MW5-05 Port 01	3/22/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	9.6	UG/L
MW5-05 Port 02	3/22/2014	EPA METHOD 524.2	Tentatively Identified Compounds	TIC-ND	0.0	UG/L
MW5-05 Port 02	3/22/2014	EPA METHOD 8270C	N-butyl-benzenesulfonamide	TIC-00000124	2.3	UG/L
MW5-05 Port 02	3/22/2014	EPA METHOD 8270C	TETRACHLOROETHENE	127-18-4	120	UG/L
MW5-05 Port 02	3/22/2014	EPA METHOD 8270C	Tetradecane	629-59-4	3.0	UG/L
MW5-05 Port 02	3/22/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	3.3	UG/L
MW5-05 Port 02	3/22/2014	EPA METHOD 8270C	unknown #2	TIC-00000123	2.8	UG/L
MW5-05 Port 03	3/22/2014	EPA METHOD 524.2	Tentatively Identified Compounds	TIC-ND	0.0	UG/L
MW5-05 Port 03	3/22/2014	EPA METHOD 8270C	N-butyl-benzenesulfonamide	TIC-00000124	6.3	UG/L
MW5-05 Port 03	3/22/2014	EPA METHOD 8270C	TETRACHLOROETHENE	127-18-4	47	UG/L
MW5-05 Port 03	3/22/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	3.8	UG/L
MW5-05 Port 03	3/22/2014	EPA METHOD 8270C	unknown #2	TIC-00000123	6.1	UG/L
MW5-05 Port 04	3/22/2014	EPA METHOD 524.2	Tentatively Identified Compounds	TIC-ND	0.0	UG/L
MW5-05 Port 04	3/22/2014	EPA METHOD 8270C	TETRACHLOROETHENE	127-18-4	3.2	UG/L
MW5-11 Port 01	11/19/2014	EPA METHOD 524.2	Unknown 1	TIC-00000132	0.82	UG/L
MW5-11 Port 01	11/19/2014	EPA METHOD 8270C	9-octadecenamide, (z)-	301-02-0	2.7	UG/L
MW5-11 Port 01	11/19/2014	EPA METHOD 8270C	TETRACHLOROETHENE	127-18-4	4.2	UG/L
MW5-11 Port 01	11/19/2014	EPA METHOD 8270C	Unknown #10	TIC-00000140	2.8	UG/L
MW5-11 Port 01	11/19/2014	EPA METHOD 8270C	unknown #2	TIC-00000123	12	UG/L
MW5-11 Port 01	11/19/2014	EPA METHOD 8270C	Unknown #3	TIC-00000121	7.9	UG/L
MW5-11 Port 01	11/19/2014	EPA METHOD 8270C	Unknown #4	TIC-00000122	2.3	UG/L
MW5-11 Port 01	11/19/2014	EPA METHOD 8270C	Unknown #5	TIC-00000137	2.1	UG/L
MW5-11 Port 01	11/19/2014	EPA METHOD 8270C	unknown #6	TIC-00000148	2.0	UG/L
MW5-11 Port 01	11/19/2014	EPA METHOD 8270C	Unknown #7	TIC-00000108	2.8	UG/L
MW5-11 Port 01	11/19/2014	EPA METHOD 8270C	Unknown #8	TIC-00000161	2.6	UG/L
MW5-11 Port 01	11/19/2014	EPA METHOD 8270C	Unknown #9	TIC-00000145	2.2	UG/L
MW5-11 Port 02	11/19/2014	EPA METHOD 8270C	TETRACHLOROETHENE	127-18-4	11	UG/L
MW5-11 Port 02	11/19/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	3.5	UG/L

TABLE 5-5
DETECTIONS OF TENTATIVELY IDENTIFIED COMPOUNDS
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San Gabriel Valley, California

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Well Name	Sample Collection Date	Analytical Method	Analyte Name	Analyte ID	Result	Units
MW5-11 Port 02	11/19/2014	EPA METHOD 8270C	unknown #2	TIC-00000123	2.7	UG/L
MW5-11 Port 02	11/19/2014	EPA METHOD 8270C	Unknown #3	TIC-00000121	2.2	UG/L
MW5-11 Port 03	11/20/2014	EPA METHOD 8270C	9-octadecenamide, (z)-	301-02-0	2.0	UG/L
MW5-11 Port 03	11/20/2014	EPA METHOD 8270C	TETRACHLOROETHENE	127-18-4	3.5	UG/L
MW5-11 Port 03	11/20/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	3.7	UG/L
MW5-11 Port 03	11/20/2014	EPA METHOD 8270C	Unknown #11	TIC-00000141	2.5	UG/L
MW5-11 Port 03	11/20/2014	EPA METHOD 8270C	unknown #2	TIC-00000123	16	UG/L
MW5-11 Port 03	11/20/2014	EPA METHOD 8270C	unknown #6	TIC-00000148	2.8	UG/L
MW5-11 Port 03	11/20/2014	EPA METHOD 8270C	unknown 10	TIC-00000140	3.3	UG/L
MW5-11 Port 03	11/20/2014	EPA METHOD 8270C	unknown 4	TIC-00000122	2.4	UG/L
MW5-11 Port 03	11/20/2014	EPA METHOD 8270C	Unknown 5	TIC-00000137	2.9	UG/L
MW5-11 Port 03	11/20/2014	EPA METHOD 8270C	unknown 7	TIC-00000108	8.4	UG/L
MW5-11 Port 03	11/20/2014	EPA METHOD 8270C	unknown 8	TIC-00000161	3.1	UG/L
MW5-11 Port 03	11/20/2014	EPA METHOD 8270C	unknown 9	TIC-00000145	2.4	UG/L
MW5-18 Port 01	11/24/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	20	UG/L
MW5-18 Port 01	11/24/2014	EPA METHOD 8270C	unknown #2	TIC-00000123	2.6	UG/L
MW5-18 Port 02	11/24/2014	EPA METHOD 8270C	9-octadecenamide, (z)-	301-02-0	2.1	UG/L
MW5-18 Port 02	11/24/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	18	UG/L
MW5-18 Port 03	11/25/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	20	UG/L
MW5-18 Port 03	11/25/2014	EPA METHOD 8270C	unknown #2	TIC-00000123	3.0	UG/L
MW5-18 Port 03	11/25/2014	EPA METHOD 8270C	Unknown #3	TIC-00000121	2.0	UG/L
MW5-18 Port 03	11/25/2014	EPA METHOD 8270C	unknown #4	TIC-00000122	2.1	UG/L
MW5-22 Port 01	9/24/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	14	UG/L
MW5-22 Port 02	9/24/2014	EPA METHOD 8270C	2-Pyrrolidinone, 1-methyl-	872-50-4	2.3	UG/L
MW5-22 Port 02	9/24/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	4.3	UG/L
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	TETRACHLOROETHENE	127-18-4	3.0	UG/L
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	Unknown #1 (possible column bleeding)	TIC-00000111	5.5	UG/L
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	unknown #10 (possible column bleeding)	TIC-00000112	21	UG/L
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	unknown #11 (possible column bleeding)	TIC-00000226	32	UG/L
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	unknown #12 (possible column bleeding)	TIC-00000227	25	UG/L
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	Unknown #13 (possible column bleeding)	TIC-00000143	20	UG/L
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	Unknown #14 (possible column bleeding)	TIC-00000232	14	UG/L
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	Unknown #15 (possible column bleeding)	TIC-00000221	9.6	UG/L
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	Unknown #16 (possible column bleeding)	TIC-00000236	5.5	UG/L
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	Unknown #17 (possible column bleeding)	TIC-00000222	3.8	UG/L
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	Unknown #2 (possible column bleeding)	TIC-00000113	17	UG/L
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	Unknown #3 (possible column bleeding)	TIC-00000114	18	UG/L
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	Unknown #4 (possible column bleeding)	TIC-00000115	17	UG/L
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	Unknown #5 (possible column bleeding)	TIC-00000116	16	UG/L
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	Unknown #6 (possible column bleeding)	TIC-00000117	13	UG/L
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	Unknown #7	TIC-00000108	3.6	UG/L

TABLE 5-5
DETECTIONS OF TENTATIVELY IDENTIFIED COMPOUNDS
Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Well Name	Sample Collection Date	Analytical Method	Analyte Name	Analyte ID	Result	Units
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	unknown #8 (possible column bleeding)	TIC-00000119	18	UG/L
MW5-22 Port 03	9/24/2014	EPA METHOD 8270C	unknown #9 (possible column bleeding)	TIC-00000120	19	UG/L
SGVWC B5B	5/12/2014	EPA METHOD 524.2	Tentatively Identified Compounds	TIC-ND	0.00	UG/L
SGVWC B5B	5/12/2014	EPA METHOD 8270C	Tentatively Identified Compounds	TIC-ND	0.00	UG/L
SGVWC B5D	5/12/2014	EPA METHOD 524.2	Tentatively Identified Compounds	TIC-ND	0.00	UG/L
SGVWC B5D	5/12/2014	EPA METHOD 8270C	Tentatively Identified Compounds	TIC-ND	0.00	UG/L
SGVWC B5E	5/12/2014	EPA METHOD 524.2	Tentatively Identified Compounds	TIC-ND	0.00	UG/L
SGVWC B5E	5/12/2014	EPA METHOD 8270C	Tentatively Identified Compounds	TIC-ND	0.00	UG/L
SGVWC B6C	5/30/2014	EPA METHOD 524.2	Tentatively Identified Compounds	TIC-ND	0.00	UG/L
SGVWC B6C	5/30/2014	EPA METHOD 8270C	Tentatively Identified Compounds	TIC-ND	0.00	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	TOLUENE	108-88-3	17	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	Unknown #1 (possible column bleeding)	TIC-00000111	14	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	unknown #10 (possible column bleeding)	TIC-00000112	26	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	unknown #11 (possible column bleeding)	TIC-00000226	26	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	unknown #12 (possible column bleeding)	TIC-00000227	30	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	unknown #13 (possible column bleeding)	TIC-00000143	26	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	Unknown #14 (possible column bleeding)	TIC-00000232	20	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	unknown #15 (possible column bleeding)	TIC-00000221	15	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	unknown #16 (possible column bleeding)	TIC-00000236	10	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	unknown #17 (possible column bleeding)	TIC-00000222	7.4	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	unknown #18 (possible column bleeding)	TIC-00000252	3.8	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	unknown #2 (possible column bleeding)	TIC-00000113	26	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	Unknown #3 (possible column bleeding)	TIC-00000114	32	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	Unknown #4 (possible column bleeding)	TIC-00000115	29	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	Unknown #5 (possible column bleeding)	TIC-00000116	24	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	Unknown #6 (possible column bleeding)	TIC-00000117	22	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	unknown #7 (possible column bleeding)	TIC-00000118	21	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	unknown #8 (possible column bleeding)	TIC-00000119	23	UG/L
SGVWC B6C	10/30/2014	EPA METHOD 8270C	unknown #9 (possible column bleeding)	TIC-00000120	24	UG/L
SGVWC B6D	10/30/2014	EPA METHOD 8270C	Unknown #1 (possible column bleeding)	TIC-00000111	2.0	UG/L
SGVWC B6D	10/30/2014	EPA METHOD 8270C	Unknown #2 (possible column bleeding)	TIC-00000113	3.0	UG/L
SGVWC B6D	10/30/2014	EPA METHOD 8270C	Unknown #3 (possible column bleeding)	TIC-00000114	2.1	UG/L
SGVWC B6D	10/30/2014	EPA METHOD 8270C	Unknown #4 (possible column bleeding)	TIC-00000115	2.8	UG/L
SGVWC B6D	10/30/2014	EPA METHOD 8270C	Unknown #5 (possible column bleeding)	TIC-00000116	5.3	UG/L
SGVWC B6D	10/30/2014	EPA METHOD 8270C	Unknown #6 (possible column bleeding)	TIC-00000117	3.0	UG/L
SGVWC B25A	10/30/2014	EPA METHOD 8270C	1,4-DIOXANE	123-91-1	3.4	UG/L
SGVWC B25A	10/30/2014	EPA METHOD 8270C	TETRACHLOROETHENE	127-18-4	7.3	UG/L
SGVWC B25A	10/30/2014	EPA METHOD 8270C	Unknown #1 (possible column bleeding)	TIC-00000111	2.2	UG/L
SGVWC B25B	10/30/2014	EPA METHOD 8270C	TETRACHLOROETHENE	127-18-4	3.0	UG/L
SGVWC B25B	10/30/2014	EPA METHOD 8270C	Unknown #1 (possible column bleeding)	TIC-00000111	2.1	UG/L
SGVWC B25B	10/30/2014	EPA METHOD 8270C	Unknown #2 (possible column bleeding)	TIC-00000113	3.2	UG/L

TABLE 5-5
DETECTIONS OF TENTATIVELY IDENTIFIED COMPOUNDS
Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Well Name	Sample Collection Date	Analytical Method	Analyte Name	Analyte ID	Result	Units
SGVWC B25B	10/30/2014	EPA METHOD 8270C	Unknown #3 (possible column bleeding)	TIC-00000114	2.3	UG/L
SGVWC B26B	10/30/2014	EPA METHOD 8270C	unknown #1	TIC-00000132	5.9	UG/L
SGVWC B26B	10/30/2014	EPA METHOD 8270C	unknown #2	TIC-00000123	3.5	UG/L
VCWD SA1-1	12/1/2014	EPA METHOD 524.2	Unknown 1	TIC-00000132	0.65	UG/L

Notes:
J = The analyte was positively identified at a concentration below the established laboratory reporting limit; the reported concentration should be considered as an estimate of the concentration in the sample.
UG/L = micrograms per liter

TABLE 6-1
VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT 2014 CHEMICAL CONCENTRATIONS
Baldwin Park Operable Unit
San Gabriel Valley, California

Analyte Name	Ethyl benzene	1,2-Dichloro ethane	Toluene	1,4-Dioxane	Tetra chloro ethene	Perchlorate	Sulfate As SO4	Cis-1,2-Dichloro ethene	Trans-1,2-Dichloro ethene	Carbon Tetra chloride	NDMA	Chloroform	Benzene	1,1,1-Trichloro ethane	Methylene Chloride	1,1-Dichloro ethane	1,1-Dichloro ethene	Tri chloro ethene	1,2,3-Trichloro propane	Nitrate As NO3	Xylenes (Total)
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	UG/L
Regulatory Limits																					
MCL/NL*/SMCL**	700	0.5	150	1*	5	6	200**	6	10	0.5	0.01*	100	1	200	5	5	6	5	0.005*	45	1750
Design Concentrations - Combined Treatment Plant Influent																					
Maximum	5	5	5	5	50	200	--	5	5	5	0.9	5	5	5	5	5	5	50	--	--	5
Expected Average	0.49	3.37	0.65	2.12	2.58	79.83	--	1.03	0.37	2.86	0.59	1.91	0.26	0.32	0.51	0.48	0.45	26.74	--	--	0.83
SA1-1																					
10/24/2014	<0.50	<0.50	<0.50	<0.50	1.2	8.7	58	<0.50	<0.50	<0.50	<0.0020	0.95	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	74	<1.0
11/19/2014	<0.50	<0.50	<0.50	<0.50	1.5	8.8	59	<0.50	<0.50	<0.50	<0.0020	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	78	<1.0
12/01/2014	<0.50	<0.50	<0.50	<0.50	1.1	8.7	59	<0.50	<0.50	<0.50	<0.0020	0.79	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	75	<1.0
SA1-2																					
SA1-2 WAS OUT OF SERVICE FOR ALL OF 2014																					
SA1-3																					
03/19/2014	<0.50	<0.50	<0.50	2.0	84	9.8	52	2.3	<0.50	<0.50	0.0045	1.4	<0.50	<0.50	<0.50	<0.50	5.7	34	0.013	35	<1.0
04/16/2014	<0.50	<0.50	<0.50	2.1	78	9.8	54	2.2	<0.50	<0.50	0.0029	1.3	<0.50	<0.50	<0.50	<0.50	5.1	31	0.012	39	<1.0
05/13/2014	<0.50	<0.50	<0.50	2.1	180	9.1	53	2.6	<0.50	<0.50	0.0037	1.3	<0.50	<0.50	<0.50	<0.50	5.1	34	0.011	39	<1.0
06/11/2014	<0.50	<0.50	<0.50	2.0	72	8.7	53	1.6	<0.50	<0.50	0.0025	1.1	<0.50	<0.50	<0.50	<0.50	3.7	27	0.012	39	<1.0
07/23/2014	<0.50	<0.50	<0.50	1.8	67	8.8	48	1.8	<0.50	<0.50	0.0023 J	1.1	<0.50	<0.50	<0.50	<0.50	3.6	25	0.0097	39	<1.0
08/19/2014	<0.50	<0.50	<0.50	1.8	55	8.4	51	1.5	<0.50	<0.50	<0.0020	1.3	<0.50	<0.50	<0.50	<0.50	3.7	24	0.01	41	<1.0
09/10/2014	<0.50	<0.50	<0.50	1.8	42	8.5	54	1.4	<0.50	<0.50	<0.0020	1.1	<0.50	<0.50	<0.50	<0.50	3.1	21	0.01	40	<1.0
Treated Water																					
02/20/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5.5	<1.0
02/24/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	5.5	<1.0
03/03/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	6.5	<1.0
03/11/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	6	<1.0
03/19/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	7	<1.0
03/25/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	6.9	<1.0
04/02/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020 J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	6.7	<1.0
04/08/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	7.8	<1.0
04/16/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.5	<1.0
04/23/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020 J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.5	<1.0
04/30/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.5	<1.0
05/07/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	7.8	<1.0
05/13/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.9	<1.0
05/20/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.8	<1.0
05/27/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.6	<1.0
06/04/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.1	<1.0
06/11/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	9.1	<1.0
06/18/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.7	<1.0
06/24/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.8	<1.0
06/30/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.8	<1.0
07/08/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.9	<1.0

TABLE 6-1
VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT 2014 CHEMICAL CONCENTRATIONS
Baldwin Park Operable Unit
San Gabriel Valley, California

Analyte Name	Ethyl benzene	1,2-Dichloro ethane	Toluene	1,4-Dioxane	Tetra chloro ethene	Perchlorate	Sulfate As SO4	Cis-1,2-Dichloro ethene	Trans-1,2-Dichloro ethene	Carbon Tetra chloride	NDMA	Chloroform	Benzene	1,1,1-Trichloro ethane	Methylene Chloride	1,1-Dichloro ethane	1,1-Dichloro ethene	Tri chloro ethene	1,2,3-Trichloro propane	Nitrate As NO3	Xylenes (Total)
07/16/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.9	<1.0
07/23/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.7	<1.0
07/29/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020 J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.5	<1.0
08/06/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	9.2	<1.0
08/11/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	9.6	<1.0
08/19/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.7	<1.0
08/28/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.9	<1.0
09/03/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	9.5	<1.0
09/10/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	9.7	<1.0
09/16/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.7	<1.0
09/22/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	9.3	<1.0
09/30/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	10	<1.0
10/16/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	1.9	<1.0
10/24/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	7.9	<1.0
10/28/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	8.2	<1.0
11/05/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	6.8	<1.0
11/10/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	7.3	<1.0
11/19/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	7.6	<1.0
11/25/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	6.6	<1.0
12/01/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.0020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	6.5	<1.0

Notes:

MCL - Maximum contaminant level.
SMCL - Secondary maximum contaminant level.
Chloroform MCL based on MCL for trihalomethanes.
NL - Notification Level.
NA - Not analyzed or data not available.
U - Not detected (Detection limit reported).
J - Reported value is the approximate concentration of the analyte in the sample.
* - Analysis by EPA Method 8270C.
NDMA = N-Nitrosodimethylamine.

TABLE 6-2
VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT 2014 CHEMICAL MASS REMOVED
Baldwin Park Operable Unit
San Gabriel Valley, California

	2014 Average Concentrations (µg/L)[1]			Chemical Mass Removed[2] (kg)			Total Mass Removed	
Compound	**Well SA1-1**	**Well SA1-2**	**Well SA1-3**	**Well SA1-1**	**Well SA1-2[3]**	**Well SA1-3**	(kg)	(lb)
1,2-Dichloroethane	0.0	OUT OF SERVICE	0.0	0.0	OUT OF SERVICE	0.0	0.0	0.0
1,4-Dioxane	0.0		1.9	0.0		8.5	8.5	18.8
Carbon tetrachloride	0.0		0.0	0.0		0.0	0.0	0.0
N-Nitrosodimethylamine	0.0		0.0	0.0		0.0	0.0	0.0
Perchlorate	8.7		9.0	7.9		39.5	47.5	104.7
Tetrachloroethene	1.3		82.6	1.2		362.2	363.4	801.1
Trichloroethene	0.0		28.0	0.0		122.8	122.8	270.8
1,1-Dichloroethane	0.0		0.0	0.0		0.0	0.0	0.0
1,1-Dichloroethene	0.0		4.3	0.0		18.8	18.8	41.4
cis-1,2-Dichloroethene	0.0		1.9	0.0		8.4	8.4	18.5
1,1,1-Trichloroethane	0.0		0.0	0.0		0.0	0.0	0.0
1,2,3-Trichloropropane	0.0		0.0	0.0		0.0	0.0	0.0
Chloroform	0.9		1.2	0.9		5.4	6.3	13.8
Total				**10.0**		**565.7**	**575.7**	**1,269.2**

Notes:

[1] - Average concentrations calculated using 0 ug/L for non-detects.

[2] - Chemical mass removed calculated by multiplying the average concentration from each extraction well by the total volume of water pumped from each well.

TABLE 6-3
AIR QUALITY DATA FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014)
Baldwin Park Operable Unit
San Gabriel Valley, California

Cas Num	Toluene 108-88-3 (ppbV)	PCE 127-18-4 (ppbV)	Cis-1,2-DCE 156-59-2 (ppbV)	Methyl tert-butyl ether 1634-04-4 (ppbV)	Carbon Tetrachloride 56-23-5 (ppbV)	2-Hexanone 591-78-6 (ppbV)	Ethanol 64-17-5 (ppbV)	Isopropyl Alcohol 67-63-0 (ppbV)	Acetone 67-64-1 (ppbV)	Chloroform 67-66-3 (ppbV)	Chloromethane 74-87-3 (ppbV)	Benzene 71-43-2 (ppbV)	Chloromethane 74-87-3 (ppbV)	Carbon Disulfide 75-15-0 (ppbV)	Bromodichloromethane 75-27-4 (ppbV)	1,1-DCA 75-34-3 (ppbV)	1,1-DCE 75-35-4 (ppbV)	Freon-11 75-69-4 (ppbV)	Freon-12 75-71-8 (ppbV)	Chlorofluorocarbon 76-13-1 (ppbV)	MEK 78-93-3 (ppbV)	TCE 79-01-6 (ppbV)	O-Xylene 95-47-6 (ppbV)	1,2,4-Trimethylbenzene 95-63-6 (ppbV)
Tower 1 Fluidized Bed/ GAC Adsorber Exhaust																								
02/20/2014	<2.2	14	4.3	<2.2	<2.2	<2.2	<11	<11	<11	<2.2	<2.2	<2.2	<2.2	27	<2.2	<2.2	6.9	<2.2	<2.2	<2.2	<2.2	180	<2.2	<2.2
03/12/2014	<2.1	20	4.3	<2.1	<2.1	<2.1	<11	<11	<11	<2.1	<2.1	<2.1	<2.1	15	<2.1	<2.1	15	4.1	<2.1	<2.1	<2.1	150	<2.1	<2.1
04/16/2014	<2.2	22	4.9	<2.2	<2.2	<2.2	<11	<11	<11	<2.2	<2.2	<2.2	<2.2	15	<2.2	<2.2	13	4.6	<2.2	<2.2	<2.2	120	<2.2	<2.2
05/07/2014	<2	21	4.8	<2	<2	2.4	190	43	<10	2.2	<2	<2	<2	110	<2	<2	7.9	2.6	<2	<2	32	99	<2	<2
06/04/2014	<2.1	37	5.1	<2.1	<2.1	<2.1	<10	<10	<10	3	<2.1	<2.1	<2.1	<10	<2.1	<2.1	9.8	4.1	<2.1	<2.1	<2.1	150	<2.1	<2.1
07/23/2014	<2	35	4.2	<2	<2	<2	<10	<10	<10	2.1	<2	<2	<2	<10	<2	<2	7.9	2.9	<2	<2	<2	100	<2	<2
08/13/2014	<2.2	41	3.6	<2.2	<2.2	<2.2	<11	<11	<11	<2.2	<2.2	<2.2	<2.2	<11	<2.2	<2.2	7.4	3.1	<2.2	<2.2	<2.2	110	<2.2	<2.2
09/11/2014	<2.3	50	3.8	<2.3	<2.3	<2.3	<11	<11	<11	2.5	<2.3	<2.5	<2.3	<11	<2.3	<2.3	8.6	3.7	<2.3	<2.3	<2.3	98	<2.3	<2.3
09/11/2014	2.3	52	3.5	<2.5	<0.62	<1.8	<6.2	<6.2	<2.5	2.4	0.69	0.87	0.69	<2.5	<0.62	<0.62	9.1	3.9	1.2	<1.8	<1.8	110	<0.62	<1.8
10/24/2014	<2.3	49	3.6	<2.3	<2.3	<2.3	<11	<11	<11	2.3	<2.3	<2.3	<2.3	<11	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	87	<2.3	<2.3
Tower 2 Fluidized Bed/ GAC Adsorber Exhaust																								
02/20/2014	<2.2	<2.2	2.4	<2.2	<2.2	<2.2	<11	<11	<11	<2.2	<2.2	<2.2	<2.2	41	<2.2	<2.2	5.5	<2.2	<2.2	<2.2	<2.2	37	<2.2	<2.2
03/27/2014	<2.2	17	5.4	<2.2	<2.2	<2.2	<11	<11	<11	2.6	<2.2	<2.2	<2.2	<11	<2.2	<2.2	12	3.8	<2.2	2.2	<2.2	110	<2.2	<2.2
04/16/2014	<2.1	24	5.3	<2.1	<2.1	<2.1	<11	<11	<11	3	<2.1	<2.1	<2.1	<11	<2.1	<2.1	12	4.6	<2.1	2.5	<2.1	100	<2.1	<2.1
05/07/2014	<2.2	35	4.3	<2.2	<2.2	<2.2	18	<11	<11	<2.2	<2.2	<2.2	<2.2	<11	<2.2	<2.2	8.7	2.9	<2.2	<2.2	3.7	82	8.5	2.8
06/04/2014	<2	48	4.3	<2	<2	<2	<10	<10	<10	2.5	<2	<2	<2	<10	<2	<2	9.2	3.8	<2	<2	<2	93	<2	<2
06/04/2014	<0.52	57	5.3	<2.1	<0.52	<1.6	<5.2	<5.2	<2.1	2.7	0.67	<0.52	0.67	<2.1	0.71	0.64	10	3.8	1.3	2.1	<1.6	84	<0.52	<1.6
07/23/2014	<2.2	64	4.2	<2.2	<2.2	<2.2	<11	<11	<11	2.3	<2.2	<2.2	<2.2	<11	<2.2	<2.2	8.4	3	<2.2	<2.2	<2.2	72	<2.2	<2.2
08/13/2014	<2.1	78	4.1	<2.1	<2.1	<2.1	<11	<11	<11	2.3	<2.1	<2.1	<2.1	<11	<2.1	<2.1	8.2	3.3	<2.1	<2.1	<2.1	80	<2.1	<2.1
09/11/2014	<2.2	92	4.3	<2.2	<2.2	<2.2	<11	<11	<11	3.1	<2.2	<2.3	<2.2	<11	<2.2	<2.2	10	4.3	<2.2	<2.2	<2.2	71	<2.2	<2.2
10/24/2014	<2.4	31	<2.4	<2.4	<2.4	<2.4	<12	<12	<12	<2.4	<2.4	<2.4	<2.4	<12	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	33	<2.4	<2.4
11/12/2014	<2.2	19	<2.2	<2.2	<2.2	<2.2	79	<11	<11	<2.2	<2.2	<2.2	<2.2	<11	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	19	<2.2	<2.2
12/03/2014	<2.1	52	<2.1	<2.1	<2.1	<2.1	<11	<11	<11	<2.1	<2.1	<2.1	<2.1	<11	<2.1	<2.1	4.7	5.3	<2.1	<2.1	<2.1	35	<2.1	<2.1
12/03/2014	<0.5	54	<0.5	<2	<0.5	<1.5	<5	<5	<2	1.6	0.62	<0.5	0.62	<2	<0.5	<0.5	4.4	3.8	1.2	<1.5	<1.5	37	<0.5	<1.5
Tower 3 Fluidized Bed/ GAC Adsorber Exhaust																								
02/20/2014	<2.1	4.6	5.1	<2.1	<2.1	<2.1	<10	<10	<10	2.6	<2.1	<2.1	<2.1	<10	<2.1	<2.1	9.4	2.8	<2.1	<2.1	<2.1	74	<2.1	<2.1
02/20/2014	<0.61	4.9	5.2	<2.4	0.64	<1.8	<6.1	<6.1	4.4	2.6	<0.61	<0.61	<0.61	<2.4	<0.61	<0.61	14	3.5	1.4	<1.8	<1.8	72	<0.61	<1.8
03/12/2014	<1.9	87	8.9	2.9	<1.9	<1.9	<9.7	<9.7	<9.7	5.1	<1.9	<1.9	<1.9	<9.7	<1.9	<1.9	17	4.3	<1.9	5.5	<1.9	350	<1.9	<1.9
03/27/2014	<2.1	160	7.2	2.2	<2.1	<2.1	<11	<11	<11	3.7	<2.1	<2.1	<2.1	<11	<2.1	<2.1	14	4.4	<2.1	3.1	<2.1	270	<2.1	<2.1
05/14/2014	<2	<2	<2	<2	<2	<2	<44	<10	<10	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
11/12/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	<11	<2.2	<2.2	<2.2	<2.2	<11	<2.2	<2.2	12	3.4	<2.2	<2.2	3.1	<2.2	<2.2	<2.2
12/03/2014	<2.1	<2.1	2.7	<2.1	<2.1	<2.1	<11	<11	<11	<2.1	<2.1	<2.1	<2.1	<11	<2.1	<2.1	3.4	4.1	<2.1	<2.1	3	<2.1	<2.1	<2.1
Tower 4 Fluidized Bed/ GAC Adsorber Exhaust																								
03/12/2014	<2.1	9.4	8.6	<2.1	<2.1	<2.1	<11	<11	11	3.1	<2.1	<2.1	<2.1	<11	<2.1	<2.1	9.4	<2.1	<2.1	3.9	<2.1	120	<2.1	<2.1
04/16/2014	<2.2	10	6.5	<2.2	<2.2	<2.2	<11	<11	<12	3.6	<2.2	<2.2	<2.2	<11	<2.2	<2.2	13	5	<2.2	4.3	<2.2	150	<2.2	<2.2
05/07/2014	<2.2	7.6	4.7	<2.2	<2.2	<2.2	18	<11	<11	2.3	<2.2	<2.2	<2.2	<11	<2.2	<2.2	9.1	3	<2.2	2.4	2.5	110	<2.2	<2.2
07/23/2014	<2.1	11	4.1	<2.1	<2.1	<2.1	<11	<11	<11	<2.1	<2.1	<2.1	<2.1	<11	<2.1	<2.1	8.1	3.1	<2.1	<2.1	<2.1	170	<2.1	<2.1
08/13/2014	<2.1	12	3.9	<2.1	<2.1	<2.1	<11	<11	<11	2.1	<2.1	<2.1	<2.1	<11	<2.1	<2.1	7.4	3.2	<2.1	<2.1	<2.1	170	<2.1	<2.1
09/11/2014	<2.2	16	4	<2.2	<2.2	<2.2	<11	<11	<11	2.7	<2.2	<2.2	<2.2	<11	<2.2	<2.2	9.2	4.2	<2.2	<2.2	<2.2	150	<2.2	<2.2
10/24/2014	<2.3	17	3.8	<2.3	<2.3	<2.3	<11	<11	<11	2.4	<2.3	<2.3	<2.3	<11	<2.3	<2.3	<2.3	<2.3	2.4	<2.3	<2.3	120	<2.3	<2.3
11/12/2014	<2.2	15	<2.2	<2.2	<2.2	<2.2	<11	<11	<11	<2.2	<2.2	<2.2	<2.2	<11	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	91	<2.2	<2.2
12/03/2014	<2	16	<2	<2	<2	<2	<10	<10	<10	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	2.1	83	<2	<2

Notes:

ppbV = parts per billion by volume.
All samples analyzed by method TO-15.
DCA = Dichloroethane.
PCE = Tetrachloroethane.
DCE = Dichloroethene.
MEK = Methyl ethyl Ketone.
TCE = Trichloroethene.
The following compounds were not detected in any of the sampling events:

Ethyl Benzene	Allyl Chloride	Hexane	Heptane	Bromomethane	1,1,2,2-Tetrachloroethane
Styrene	1,2-Dichloroethane	Cyclohexane	Trans-1,2-Dichloroethene	Chloroethane	Hexachlorobutadiene
Benzyl Chloride	Acrylonitrile	Propylene	2,2,4-Trimethylpentane	Vinyl Chloride	Naphthalene
Cis-1,3-Dichloropropene	Vinyl Acetate	1,2,4-Trichlorobenzene	1,3-Dichlorobenzene	Dichloromethane	1,2-Dichlorobenzene
Trans-1,3-Dichloropropene	4-Methyl-2-Pentanone	1,4-Dioxane	Vinyl Bromide	Bromoform	1,2-Dibromo-3-Chloropropane
1,4-Dichlorobenzene	1,3,5-Trimethylbenzene	Chlorodibromomethane	4-Ethyltoluene	1,2-Dichloro-1,1,2,2-Tetrafluoroethane	1,2,3-Trichloropropane
1,2-Dibromoethane	Chlorobenzene	m,p-Xylene	Methanol	1,2-Dichloropropane	
1,3-Butadiene	Tetrahydrofuran	Ethyl Acetate	1,1,1-Trichloroethane	1,1,2-Trichloroethane	

TABLE 6-4
AIR RISK AND HAZARD SUMMARY FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014)
Baldwin Park Operable Unit
San Gabriel Valley, California

Date	MICR		Acute Hazard Index		Chronic Hazard Index		Cancer Burden	
ARAR	1.0 x 10-6		1.0		1.0		0.5	
	Estimated Annual Average[1]	Actual 52 Week Annual Rolling Maximum[2]	Estimated Annual Average[1]	Actual 52 Week Annual Rolling Maximum[3]	Estimated Annual Average[1]	Actual 52 Week Annual Rolling Maximum[2]	Estimated Annual Average[1]	Actual 52 Week Annual Rolling Maximum
January	NS	4.20E-07	NS	9.37E-04	NS	3.97E-02	--	--
February[2]	6.40E-07	4.10E-07	2.25E-04	9.37E-04	6.59E-02	3.91E-02	--	--
March	1.91E-06	5.20E-07	6.90E-04	9.37E-04	1.28E-01	4.65E-02	8.77E-04	--
April	1.00E-06	5.30E-07	4.31E-04	6.90E-04	8.72E-02	4.74E-02	--	--
May	5.90E-07	5.50E-07	2.12E-04	6.90E-04	4.28E-02	4.77E-02	--	--
June	8.40E-07	6.10E-07	3.35E-04	6.90E-04	5.64E-02	5.07E-02	--	--
July	1.10E-06	6.30E-07	2.97E-04	6.90E-04	7.72E-02	5.00E-02	0.00	--
August	1.21E-06	6.70E-07	3.26E-04	6.90E-04	8.15E-02	5.08E-02	1.06E-07	--
September	1.33E-06	7.60E-07	5.64E-04	6.90E-04	7.58E-02	5.50E-02	2.63E-05	--
October	8.80E-07	8.00E-07	3.09E-04	6.90E-04	5.61E-02	5.75E-02	--	--
November	3.30E-07	8.20E-07	2.12E-05	6.90E-04	2.44E-02	5.95E-02	--	--
December	4.80E-07	8.60E-07	4.22E-05	6.90E-04	2.65E-02	6.08E-02	--	--

Notes:
MICR - Maximum individual cancer risk.
ARAR - Applicable or relevant and appropriate requirements.
1. Estimated Annual Average is based on the most recent value.
2. Actual 52-Week Rolling Average MICR and Chronic Hazard Index are based on air sampling results collected over the previous 12 months.
3. Actual 52-Week Rolling Maximum Acute Hazard Index is based on the maximum value over the previous 12 months.
- - Not calculated because the MICR was less than 1 in 1 million.
NS - No Sampling - Site shutdown during month of January.

TABLE 6-5
VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT
2014 BRINE VAULT DATA
Baldwin Park Operable Unit
San Gabriel Valley, California

Date	Total Discharge (gallons)	Average Flowrate (gpm)	Max Flowrate (gpm)
January	3,810	0.1	2.5
February	1,194,629	29.6	144.8
March	2,895,556	64.9	157.8
April	2,322,083	53.8	79.5
May	2,351,841	52.7	79.6
June	2,325,168	53.8	79.6
July	2,411,346	54.0	80.4
August	2,363,471	52.9	88.9
September	2,511,905	58.1	88.0
October	2,149,220	48.1	117.2
November	4,375,270	101.3	150.7
December	2,423,459	76.7	265.2

Notes:
Total annual discharge is 27,327,758 gallons.
gpm - Gallons per minute.

TABLE 6-6
LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT PLANT 2014 CHEMICAL CONCENTRATIONS
Baldwin Park Operable Unit
San Gabriel Valley, California

Analyte Name	Ethyl benzene	1,2-Dichloro ethane	Toluene	1,4-Dioxane	Tetra chloro ethene	Perchlorate	Sulfate As SO_4*	Cis-1,2-Dichloro ethene	Trans-1,2-Dichloro ethene	Carbon Tetra chloride	NDMA	Chloroform	Benzene	1,1,1-Trichloro ethane	Methylene Chloride	1,1-Dichloro ethane	1,1-Dichloro ethene	Tri chloro ethene	Nitrate As NO_3*	Xylenes (Total)	1,2,3-Trichloro propane
Units	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**MG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**MG/L**	**UG/L**	**UG/L**
Regulatory Limits																					
MCL/NL*/SMCL**	700	0.5	150	1*	5	6	200**	6	10	0.5	0.01*	100	1	200	5	5	6	5	45	1750	0.005*
Design Concentrations - Combined Treatment Plant Influent																					
Maximum	5	5	5	5	50	200	--	5	5	5	0.9	5	5	5	5	5	5	50	--	5	--
Expected Average	0.49	3.37	0.65	2.12	2.58	79.83	--	1.03	0.37	2.86	0.59183	1.91	0.26	0.32	0.51	0.48	0.45	26.74	--	0.83	--
Well #2																					
01/29/2014	<0.5	1.9	<0.5	1.3	3.3	56	42	1.8	<0.5	2.6	0.16	2.1	<0.5	<0.5	<0.5	0.66	<0.5	70	27	<1	<0.5
03/13/2014	<0.5	1.9	<0.5	1.1	2.8	45	49	1	<0.5	2	0.096	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	52	30 J	<1	<0.5
05/22/2014	<0.5	<0.5	<0.5	1.5	3.2	51	45	1.2	<0.5	3.2	0.14	1.8	<0.5	<0.5	<0.5	0.51	<0.5	67	28	<1	<0.5
07/07/2014	<0.5	2.2	<0.5	1.5	3.2	48	38	1.2	<0.5	2.9	0.15	1.8	<0.5	<0.5	<0.5	0.49 J	0.24 J	61	31	<1	<0.5
09/03/2014	<0.5	<0.5	<0.5	<0.5	0.88	8.6	56	<0.5	<0.5	<0.5	0.0024	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.8	33	<1	<0.5
10/07/2014	<0.5	2.2	<0.5	1.6	3.3	52	42	1.2	<0.5	3.2	0.13	1.8	<0.5	<0.5	<0.5	0.52	<0.5	67	28	<1	<0.5
12/02/2014	<0.5	2.5	<0.5	1.8	3.9	58	42	1.5	<0.5	3.8	0.2	2.2	<0.5	<0.5	<0.5	0.64	<0.5	82	28	<1	<0.5
Well #3																					
01/29/2014	<0.5	<0.5	<0.5	<0.5	<0.5	8.6	38	<0.5	<0.5	<0.5	0.0039 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	35	<1	<0.5
03/13/2014	<0.5	<0.5	<0.5	<0.5	<0.5	9.2	41	<0.5	<0.5	<0.5	0.0025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2	35	<1	<0.5
05/22/2014	<0.5	<0.5	<0.5	<0.5	<0.5	9	40	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	35	<1	<0.5
07/07/2014	<0.5	<0.5	<0.5	<0.5	0.68	11	38	<0.5	<0.5	<0.5	0.0077	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.8	31	<1	<0.5
Well #5																					
01/07/2014	<0.5	0.61	<0.5	<0.5	1.6	20	44	0.52	<0.5	0.6	0.025	0.62	<0.5	<0.5	<0.5	<0.5	<0.5	16	28	<1	<0.5
02/03/2014	<0.5	0.52	<0.5	<0.5	1.6	20	43	0.75	<0.5	0.92	0.053	0.81 J	<0.5	<0.5	<0.5	<0.5	<0.5	15	28	<1	<0.5
03/10/2014	<0.5	<0.5	<0.5	0.5	2	20	48	0.55	<0.5	0.75	0.044	0.65	<0.5	<0.5	<0.5	<0.5	<0.5	16	29	<1	<0.5
04/08/2014	<0.5	<0.5	<0.5	<0.5	1.6	20	47	0.54	<0.5	0.65	0.028	0.65	<0.5	<0.5	<0.5	<0.5	<0.5	16	29	<1	<0.5
05/05/2014	<0.5	<0.5	<0.5	<0.5	1.5	19	47	<0.5	<0.5	0.66	0.033	0.54	<0.5	<0.5	<0.5	<0.5	<0.5	13	32	<1	<0.5
06/10/2014	<0.5	0.73	<0.5	0.56	1.6	21	46	0.56	<0.5	0.78	0.043	0.63	<0.5	<0.5	<0.5	<0.5	<0.5	16	29	<1	<0.5
07/15/2014	<0.5	<0.5	<0.5	0.5	2	21	44	0.61	<0.5	0.85	0.042	0.75	<0.5	<0.5	<0.5	<0.5	<0.5	18	31	<1	<0.5
08/11/2014	<0.5	<0.5	<0.5	<0.5	1.1	17	45	<0.5	<0.5	0.52	0.028	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	11	30	<1	<0.5
10/15/2014	<0.5	<0.5	<0.5	<0.5	0.5	12	39	<0.5	<0.5	<0.5	0.013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.9	31	<1	<0.5
10/23/2014	<0.5	<0.5	<0.5	-	1	-	-	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	11	-	<1	<0.005
11/04/2014	<0.5	<0.5	<0.5	<0.5	0.94	16	45	<0.5	<0.5	<0.5	0.035	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	11	33	<1	<0.5
11/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
12/02/2014	<0.5	<0.5	<0.5	<0.5	1.1	16	45	<0.5	<0.5	0.55	0.027	0.51	<0.5	<0.5	<0.5	<0.5	<0.5	12	32	<1	<0.5
Treated Water																					
01/07/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	57	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	29 J	<1	<0.5
01/13/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	56	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30	<1	<0.5
01/21/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	55 J	<0.5	<0.5	<0.5	0.0074 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	29	<1	<0.5
01/28/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	54	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	29	<1	<0.5
02/03/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	57	<0.5	<0.5	<0.5	<0.002	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	29	<1	<0.5
02/10/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	57	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	29	<1	<0.5
02/19/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	54	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	35	<1	<0.5
02/24/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	53	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	33	<1	<0.5
03/03/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	55	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30 J	<1	<0.5
03/10/2014	<0.5	<0.5	<0.5	<0.56	<0.5	<2	61	<0.5	<0.5	<0.5	<0.0022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31	<1	<0.5
03/17/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	59	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	28	<1	<0.5
03/24/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	60	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	28	<1	<0.5
04/01/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	57	<0.5	<0.5	<0.5	<0.002 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	26	<1	<0.5
04/08/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	58	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	28	<1	<0.5
04/15/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	59	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30	<1	<0.5
04/22/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	59	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30	<1	<0.5
04/29/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	59	<0.5	<0.5	<0.5	<0.002 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31 J	<1	<0.5
05/06/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	58	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31	<1	<0.5
05/12/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	59	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	32	<1	<0.5
05/20/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	58	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31 J	<1	<0.5

TABLE 6-6
LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT PLANT 2014 CHEMICAL CONCENTRATIONS
Baldwin Park Operable Unit
San Gabriel Valley, California

Analyte Name	Ethyl benzene	1,2-Dichloro ethane	Toluene	1,4-Dioxane	Tetra chloro ethene	Perchlorate	Sulfate As SO_4*	Cis-1,2-Dichloro ethene	Trans-1,2-Dichloro ethene	Carbon Tetra chloride	NDMA	Chloroform	Benzene	1,1,1-Trichloro ethane	Methylene Chloride	1,1-Dichloro ethane	1,1-Dichloro ethene	Tri chloro ethene	Nitrate As NO_3*	Xylenes (Total)	1,2,3-Trichloro propane
05/27/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	56	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	33	<1	<0.5
06/03/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	56	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31	<1	<0.5
06/10/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	57	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31 J	<1	<0.5
06/17/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	55	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30	<1	<0.5
06/24/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	56	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30	<1	<0.5
07/01/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	53	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	29	<1	<0.5
07/08/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	52	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31	<1	<0.5
07/15/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	55	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	28	<1	<0.5
07/22/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	53	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	29	<1	<0.5
07/29/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	56	<0.5	<0.5	<0.5	<0.002 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	29	<1	<0.5
08/05/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	57	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	29	<1	<0.5
08/12/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	57	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	28	<1	<0.5
08/19/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	55	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30	<1	<0.5
08/26/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	57	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30	<1	<0.5
09/05/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	63	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31	<1	<0.5
09/10/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	59	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	29	<1	<0.5
09/16/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	56	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	27	<1	<0.5
09/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	56	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	27	<1	<0.5
09/30/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	56	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	27	<1	<0.5
10/07/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	55	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	26	<1	<0.5
10/14/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	55	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	26	<1	<0.5
10/21/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	53	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31	<1	<0.5
10/23/2014	<0.5	<0.5	<0.5	-	<0.5	-	-	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<1	<0.005
10/28/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	57	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	32	<1	<0.5
11/04/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	58	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	32	<1	<0.5
11/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
11/12/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	58	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	32	<1	<0.5
11/18/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	58	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31	<1	<0.5
11/25/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	59	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	33	<1	<0.5
12/02/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	58	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	33	<1	<0.5
12/09/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	58	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30	<1	<0.5
12/17/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	54	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30	<1	<0.5
12/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	60	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31	<1	<0.5
12/30/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	60	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31	<1	<0.5

Notes:

MCL - Maximum contaminant level.
SMCL - Secondary maximum contaminant level.
Chloroform MCL based on MCL for trihalomethanes.
NL - Notification Level.
U - Not detected (Detection limit reported).
J - Reported value is the approximate concentration of the analyte in the sample.
NDMA = N-Nitrosodimethylamine.
* - Sulfate and Nitrate data reported for treated water from Sample location SP-10 (rest of data from SP-6).

TABLE 6-7
LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT PLANT 2014 CHEMICAL MASS REMOVED
Baldwin Park Operable Unit
San Gabriel Valley, California

	2013 Average Concentrations (µg/L)[1]			Chemical Mass Removed[2] (kg)			Total Mass Removed	
Compound	**LPVCWD 2**	**LPVCWD 3**	**LPVCWD 5**	**LPVCWD-2**	**LPVCWD-3**	**LPVCWD 5**	(kg)	(lb)
1,1-Dichloroethane	0.3	0.0	0.0	0.18	0.0	0.0	0.2	0.4
1,2-Dichloroethane	1.5	0.0	0.1	0.83	0.0	0.4	1.2	2.7
1,4-Dioxane	1.3	0.0	0.1	0.69	0.0	0.3	1.0	2.2
Carbon Tetrachloride	2.5	0.0	0.5	1.38	0.0	1.3	2.7	6.0
Cis-1,2-Dichloroethene	1.1	0.0	0.3	0.62	0.0	0.8	1.4	3.0
Chloroform	1.6	0.0	0.4	0.88	0.0	1.0	1.9	4.2
N-Nitrosodimethylamine	0.1	0.0	0.0	0.07	0.0	0.1	0.1	0.3
Perchlorate	45.5	9.5	15.5	24.81	4.6	43.1	72.5	159.9
Tetrachloroethene	2.9	0.2	1.3	1.60	0.1	3.5	5.2	11.5
Trichloroethene	57.5	2.4	12.2	31.37	1.2	33.9	66.5	146.5
Total				**62.2**	**5.8**	**84.5**	**152.6**	**336.5**

Notes:

[1] - Average concentrations calculated using 0 ug/L for non-detects.

[2] - Chemical mass removed calculated by multiplying the average concentration from each extraction well by the total volume of water pumped from each well.

TABLE 6-8
AIR QUALITY DATA FOR LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT PLANT (2014)
Baldwin Park Operable Unit
San Gabriel Valley, California

	1,2-DCA (ppbV)	Toluene (ppbV)	Cyclo hexane (ppbV)	m,p-Xylene (ppbV)	Cis-1,2-DCE (ppbV)	Carbon Tetra chloride (ppbV)	Ethanol (ppbV)	Acetone (ppbV)	Chloroform (ppbV)	Benzene (ppbV)	Chloro methane (ppbV)	Carbon Disulfide (ppbV)	1,1-DCA (ppbV)	1,1-DCE (ppbV)	Freon-12 (ppbV)	MEK (ppbV)	TCE (ppbV)	o-Xylene (ppbV)
Small Tower Outlet																		
01/22/2014	3	<2	<2	<2	2.4	2.2	<45	<10	2.7	<2	<2	22	<2	<2	3.8	<2	25	<2
01/22/2014	3.2	<0.5	0.65	2.1	2.7	2.4	<5	<2	2.7	<0.5	0.61	<2	1	0.9	3.6	<1.5	27	0.83
02/20/2014	2.9	<2.1	<2.1	<2.1	<2.1	<2.1	<11	<11	<2.1	<2.1	<2.1	<11	<2.1	<2.1	<2.1	<2.1	34	<2.1
03/12/2014	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<11	<11	<2.1	<2.1	<2.1	<11	<2.1	<2.1	<2.1	<2.1	31	<2.1
04/17/2014	2.9	<2	<2	<2	2.7	2.3	<10	<10	3	<2	<2	<10	<2	<2	4.2	<2	36	<2
05/14/2014	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<11	<11	<2.1	<2.1	<2.1	<11	<2.1	<2.1	2.3	<2.1	24	<2.1
05/14/2014	2.3	<0.6	<0.6	<2.4	2.2	1.7	<6	<2.4	2.2	<0.6	<0.6	<2.4	0.84	0.69	3	<1.8	31	<0.6
06/04/2014	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<11	<11	<2.1	<2.1	<2.1	<11	<2.1	<2.1	<2.1	<2.1	41	<2.1
07/23/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	<2.2	<2.2	<2.2	<11	<2.2	<2.2	3	<2.2	33	<2.2
07/31/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	<2.2	<2.2	<2.2	<11	<2.2	<2.2	2.6	<2.2	<2.2	<2.2
08/13/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	<2.2	<2.2	<2.2	<11	<2.2	<2.2	2.8	<2.2	<2.2	<2.2
09/11/2014	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<11	<11	2.8	<2.3	<2.3	<11	<2.3	<2.3	7.3	<2.3	<2.3	<2.3
10/24/2014	4.2	<2.2	<2.2	<2.2	2.6	3.9	<11	<11	2.4	<2.2	<2.2	<11	<2.2	<2.2	3.1	<2.2	63	<2.2
11/12/2014	2.3	<0.5	<0.5	<2	1.7	1.6	<5	<2	1.7	<0.5	0.62	<2	0.69	0.56	2.4	<1.5	59	<0.5
11/12/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	<2.2	<2.2	<2.2	<11	<2.2	<2.2	3	<2.2	58	<2.2
12/23/2014	<2.1	<2.1	<2.1	<2.1	<2.1	<5.3	<11	<11	<2.1	<2.1	<2.1	<11	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Large Tower Outlet A																		
01/22/2014	2.4	<2.1	<2.1	<2.1	<2.1	<2.1	<17	<11	2.4	<2.1	<2.1	<11	<2.1	<2.1	3.2	<2.1	7.5	<2.1
02/25/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	19	<11	<2.2	<2.2	<2.2	<11	<2.2	<2.2	2.4	<2.2	3.8	<2.2
03/12/2014	2.9	<2.2	<2.2	<2.2	2.3	<2.2	<11	<11	2.6	<2.2	<2.2	12	<2.2	<2.2	6.1	<2.2	8.9	<2.2
04/17/2014	2.7	<2.2	<2.2	<2.2	2.3	<2.2	<11	<11	2.4	<2.2	<2.2	<11	<2.2	<2.2	3.1	<2.2	9.5	<2.2
05/14/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	<2.2	<2.2	<2.2	<11	<2.2	<2.2	<2.2	<2.2	6.2	<2.2
06/04/2014	2.7	<2.2	<2.2	<2.2	2.4	<2.2	<11	<11	2.8	<2.2	<2.2	<11	<2.2	<2.2	7.9	<2.2	11	<2.2
07/23/2014	3.5	<2.2	<2.2	<2.2	3.3	<2.2	<11	<11	4	<2.2	<2.2	<11	<2.2	<2.2	2.4	<2.2	12	<2.2
07/31/2014	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<11	<11	<2.1	<2.1	<2.1	<11	<2.1	<2.1	<2.1	<2.1	<2.1	2.2
08/13/2014	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<5	<2	<0.5	<0.5	0.62	<2	<0.5	<0.5	2.6	<1.5	<0.5	<0.5
08/13/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	<2.2	<2.2	<2.2	<11	<2.2	<2.2	2.4	<2.2	<2.2	<2.2
09/11/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	<2.2	<2.2	<2.2	45	<2.2	<2.2	5.8	<3.9	<2.2	<2.2
10/24/2014	2.7	<2.2	<2.2	<2.2	2.5	<2.2	<11	<11	3.2	3	<2.2	<11	<2.2	<2.2	2.5	<2.2	<2.2	<2.2
11/12/2014	2.5	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	2.3	<2.2	<2.2	<11	<2.2	<2.2	2.5	<2.2	4.3	<2.2
12/23/2014	<2.4	<2.4	<2.4	<2.4	<2.4	<6	<12	<12	<2.4	<2.4	<2.4	<12	<2.4	<2.4	2.8	<2.4	10	<2.4
Large Tower Outlet B																		
01/22/2014	3.1	<2	<2	<2	<2	<2	<13	<9.9	2.5	<2	<2	13	<2	<2	3	<2	3.8	<2
02/25/2014	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<11	<11	<2.1	<2.1	<2.1	13	<2.1	<2.1	2.8	<2.1	3.1	<2.1
03/12/2014	2.3	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	<2.2	<2.2	<2.2	53	<2.2	<2.2	4.6	<2.2	6	<2.2
03/12/2014	2.3	0.92	<0.5	<2	1.6	1.3	5.9	14	1.6	<0.5	0.71	<2	0.65	0.58	3.9	<1.5	5.2	<0.5
04/17/2014	2.6	<2	<2	<2	<2	<2	<10	<10	2.2	<2	<2	<10	<2	<2	2.8	<2	9.4	<2
05/14/2014	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	29	11	<1.9	<1.9	<1.9	<9.4	<1.9	<1.9	2.2	6.3	6.1	<1.9
06/04/2014	3	<2.1	<2.1	<2.1	2.6	2.1	<11	<11	3.7	<2.1	<2.1	<11	<2.1	<2.1	7.8	<2.1	18	<2.1
07/23/2014	4.4	<2.2	<2.2	<2.2	3.3	2.9	<11	<11	3.4	<2.2	<2.2	<11	<2.2	<2.2	2.3	<2.2	19	<2.2

TABLE 6-8
AIR QUALITY DATA FOR LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT PLANT (2014)
Baldwin Park Operable Unit
San Gabriel Valley, California

	1,2-DCA (ppbV)	Toluene (ppbV)	Cyclo hexane (ppbV)	m,p-Xylene (ppbV)	Cis-1,2-DCE (ppbV)	Carbon Tetra chloride (ppbV)	Ethanol (ppbV)	Acetone (ppbV)	Chloroform (ppbV)	Benzene (ppbV)	Chloro methane (ppbV)	Carbon Disulfide (ppbV)	1,1-DCA (ppbV)	1,1-DCE (ppbV)	Freon-12 (ppbV)	MEK (ppbV)	TCE (ppbV)	o-Xylene (ppbV)
07/31/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	<2.2	<2.2	<2.2	<11	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
08/13/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	<2.2	<2.2	<2.2	<11	<2.2	<2.2	2.4	<2.2	<2.2	<2.2
09/11/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	<2.2	<2.2	<2.2	<11	<2.2	<2.2	4.6	<2.2	<2.2	<2.2
10/24/2014	3.4	<2.2	<2.2	<2.2	3.3	2.4	<11	<11	3.6	<2.2	<2.2	<11	<2.2	<2.2	2.4	<2.2	<2.2	<2.2
11/12/2014	3.4	<2.1	<2.1	<2.1	2.7	<2.1	<11	<11	2.5	<2.1	<2.1	<11	<2.1	<2.1	2.5	<2.1	5.1	<2.1
12/23/2014	2.3	<2.2	<2.2	<2.2	<2.2	<5.5	<11	12	<2.2	<2.2	<2.2	<11	<2.2	<2.2	2.7	3.3	15	<2.2

Notes:
ppbV = parts per billion by volume.
All samples analyzed by method TO-15.
DCA = Dichloroethane.
PCE = Tetrachloroethane.
DCE = Dichloroethene.
MEK = Methyl ethyl Ketone.
TCE = Trichloroethene.
The following compounds were not detected in any of the sampling events:

Ethyl Benzene	Acrylonitrile	1,4-Dioxane	2-Hexanone	Dichloromethane	Hexachlorobutadiene
Styrene	Vinyl Acetate	Chlorodibromomethane	Vinyl Bromide	Bromoform	Naphthalene
Benzyl Chloride	4-Methyl-2-Pentanone	Tetrachloroethene	4-Ethyltoluene	Bromodichloromethane	1,2-Dichlorobenzene
Cis-1,3-Dichloropropene	1,3,5-Trimethylbenzene	Ethyl Acetate	Methanol	Freon11	1,2,4-Trimethylbenzene
Trans-1,3-Dichloropropene	Chlorobenzene	Heptane	Isopropyl Alcohol	1,1,2-Trichloro-1,2,2-Trifluoroethane	1,2-Dibromo-3-Chloropropane
1,4-Dichlorobenzene	Tetrahydrofuran	Trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,2-Dichloro-1,1,2,2-Tetrafluoroethane	1,2,3-Trichloropropane
1,2-Dibromoethane	Hexane	Methyl Tert-Butyl Ether	Bromomethane	1,2-Dichloropropane	
1,3-Butadiene	Propylene	2,2,4-Trimethylpentane	Chloroethane	1,1,2-Trichloroethane	
Allyl Chloride	1,2,4-Trichlorobenzene	1,3-Dichlorobenzene	Vinyl Chloride	1,1,2,2-Tetrachloroethane	

TABLE 6-9
AIR RISK AND HAZARD SUMMARY FOR VALLEY COUNTY WATER DISTRICT LA PUENTE TREATMENT PLANT (2014)
Baldwin Park Operable Unit
San Gabriel Valley, California

Date	MICR		Acute Hazard Index		Chronic Hazard Index		Cancer Burden	
ARAR	1.0 x 10-6		1.0		1.0		0.5	
	Estimated Annual Average[1]	Actual 52 Week Annual Rolling Maximum[2]	Estimated Annual Average[1]	Actual 52 Week Annual Rolling Maximum[3]	Estimated Annual Average[1]	Actual 52 Week Annual Rolling Maximum[2]	Estimated Annual Average[1]	Actual 52 Week Annual Rolling Maximum
January	4.20E-07	3.00E-07	3.87E-04	5.29E-04	1.49E-02	1.58E-02	--	--
February[2]	2.10E-07	2.70E-07	5.91E-06	5.29E-04	1.29E-03	1.52E-02	--	--
March	1.90E-07	2.30E-07	9.99E-05	5.29E-04	1.86E-02	1.36E-02	--	--
April [3]	4.80E-07	2.30E-07	3.66E-04	4.31E-04	2.15E-02	1.24E-02	--	--
May	1.20E-07	2.00E-07	1.20E-06	4.31E-04	1.44E-02	1.08E-02	--	--
June	3.00E-07	2.10E-07	1.84E-04	4.31E-04	2.57E-02	1.08E-02	--	--
July	0.00E+00	2.30E-07	5.45E-07	4.31E-04	9.21E-06	1.22E-02	--	--
August	0.00E+00	2.30E-07	0.00	4.31E-04	0.00	1.22E-02	--	--
September	7.00E-08	2.30E-07	2.81E-04	4.31E-04	2.07E-05	1.21E-02	--	--
October	8.40E-07	3.20E-07	4.51E-04	4.51E-04	3.88E-02	1.71E-02	--	--
November	3.50E-07	3.30E-07	1.45E-04	4.51E-04	3.59E-02	1.94E-02	--	--
December	6.00E-08	2.90E-07	7.10E-07	4.51E-04	4.90E-03	1.72E-02	--	--

Notes:
MICR - Maximum individual cancer risk.
ARAR - Applicable or relevant and appropriate requirements.
1. Estimated Annual Average is based on the most recent value.
2. Actual 52-Week Rolling Average MICR and Chronic Hazard Index are based on air sampling results collected over the previous 12 months.
3. Actual 52-Week Rolling Maximum Acute Hazard Index is based on the maximum value over the previous 12 months.
- - Not calculated because the MICR was less than 1 in 1 million.

TABLE 6-10
LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT PLANT
2014 BRINE VAULT DATA
Baldwin Park Operable Unit
San Gabriel Valley, California

Date	Total Discharge (gallons)	Average Flowrate* (gpm)	Max Flowrate (gpm)
January	619	0.01	24.7
February	296	0.01	23.7
March	2,289	0.05	133.4
April	1,506	0.03	26.6
May	5,951	0.13	1.1
June	17,017	0.39	23.8
July	34,829	0.78	1.0
August	939	0.02	17.3
September	0	0	0
October	277	0.01	277
November	270	0.01	19.7
December	1,412	0.03	20.1

Notes:
* Reported Average Flow is an average of only the discharge duration.
Total annual discharge is 65,405 gallons.
gpm - Gallons per minute.

TABLE 6-11
2014 INFLUENT AND EFFLUENT WATER QUALITY DATA - SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT
Baldwin Park Operable Unit
San Gabriel Valley, California

Analyte Name	Ethyl benzene	1,2-Dichloro ethane	Toluene	1,4-Dioxane	Tetra chloro ethene	Perchlorate	Sulfate As So4	Cis-1,2-Dichloro ethene	Trans-1,2-Dichloro ethene	Carbon Tetra chloride	NDMA	Chloroform	Benzene	1,1,1-Trichloroe thane	Methylene Chloride	1,1-Dichloroe thane	1,1-Dichloro ethene	Trichloroe thene	1,2,3-Trichloro propane	Nitrate As NO3	Xylenes (Total)
Units	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**MG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**MG/L**	**UG/L**
Regulatory Limits																					
MCL/NL*/SMCL**	700	0.5	150	1*	5	6	200**	6	10	0.5	0.01*	100	1	200	5	5	6	5	0.005*	45	1750
Design Concentrations - Combined Treatment Plant Influent																					
Maximum	5	5	5	5	50	200	--	5	5	5	0.9	5	5	5	5	5	5	50	--	--	5
Expected Average	0.49	3.37	0.65	2.12	2.58	79.83	--	1.03	0.37	2.86	0.59183	1.91	0.26	0.32	0.51	0.48	0.45	26.74	--	--	0.83
Well B25A																					
04/24/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	63	--
04/29/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	63	--
05/19/2014	--	--	--	1.7	--	37	54	--	--	--	0.064	--	--	--	--	--	--	--	--	61	--
05/20/2014	--	--	--	1.6	--	36	54	--	--	--	0.069	--	--	--	--	--	--	--	--	61	--
05/22/2014	--	--	--	1.3	--	23	56	--	--	--	0.044	--	--	--	--	--	--	--	--	67	--
09/05/2014	<0.5	0.93	<0.5	1.7	26	38	--	4.1	<0.5	1.5	0.061	1.6	<0.5	<0.5	<0.5	<0.5	4.1	46	<0.005	54	<1
10/01/2014	<0.5	1.2	<0.5	1.9	32	38	--	5.3	<0.5	2	0.072	2	<0.5	<0.5	<0.5	0.54	5	40	<0.005	57	<1
10/30/2014	<0.5	1.1	<0.5	--	23	--	--	4.4	<0.5	1.6	<1	1.7	<0.5	<0.5	<0.5	<0.5	4.2	37	<0.5	--	<1
11/05/2014	<0.5	1.1	<0.5	5.2	25	39	--	4.2	<0.5	1.3	0.082	1.8	<0.5	<0.5	<0.5	<0.5	4.2	44	<0.005	62	<1
Well B25B																					
04/07/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12	--
04/24/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.8	--
04/29/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.9	--
05/19/2014	--	--	--	0.66	--	11	44	--	--	--	0.011	--	--	--	--	--	--	--	--	8	--
05/20/2014	--	--	--	0.68	--	11	43	--	--	--	0.01	--	--	--	--	--	--	--	--	7.8	--
05/22/2014	--	--	--	0.68	--	28	44	--	--	--	0.0087	--	--	--	--	--	--	--	--	7.7	--
09/05/2014	<0.5	<0.5	<0.5	0.75	6.6	12	--	1.9	<0.5	5.8	0.012	0.6	<0.5	<0.5	<0.5	<0.5	1.8	23	<0.005	8.1	<1
10/01/2014	<0.5	<0.5	<0.5	0.81	10	13	--	2.8	<0.5	7.5	0.015	0.85	<0.5	<0.5	<0.5	<0.5	2.4	22	<0.005	8	<1
10/30/2014	<0.5	<0.5	<0.5	--	7.6	--	--	2	<0.5	6.1	<1	0.64	<0.5	<0.5	<0.5	<0.5	2.2	25	<0.5	--	<1
11/05/2014	<0.5	<0.5	<0.5	0.8	7	14	--	2	<0.5	6.7	0.018	0.88	<0.5	<0.5	<0.5	<0.5	1.8	26	<0.005	8.4	<1
Well B26A																					
04/24/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	76	--
04/29/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	74	--
05/19/2014	--	--	--	0.84	--	33	58	--	--	--	0.084	--	--	--	--	--	--	--	--	70	--
05/20/2014	--	--	--	0.81	--	32	58	--	--	--	0.088	--	--	--	--	--	--	--	--	69	--
05/22/2014	--	--	--	<0.5	--	25	60	--	--	--	0.042	--	--	--	--	--	--	--	--	79	--
09/05/2014	<0.5	1.3	<0.5	1	1.9	36	--	0.83	<0.5	0.91	0.08	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	19	<0.005	63	<1
10/01/2014	<0.5	1.4	<0.5	1.1	2.4	37	--	1	<0.5	1.1	0.14	1.5	<0.5	<0.5	<0.5	<0.5	<0.5	28	<0.005	59	<1
10/30/2014	<0.5	1.4	<0.5	--	1.8	--	--	0.9	<0.5	0.97	<1	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	15	<0.5	--	<1
11/05/2014	<0.5	1.5	<0.5	1.1	1.9	38	--	0.89	<0.5	1.4	0.11	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	28	<0.005	63	<1
Well B26B																					
04/07/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22	--
04/24/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16	--
04/29/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16	--
05/19/2014	--	--	--	2.4	--	57	46	--	--	--	0.091	--	--	--	--	--	--	--	--	15	--
05/20/2014	--	--	--	2.6	--	57	58	--	--	--	0.09	--	--	--	--	--	--	--	--	69	--

TABLE 6-11
2014 INFLUENT AND EFFLUENT WATER QUALITY DATA - SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT
Baldwin Park Operable Unit
San Gabriel Valley, California

Analyte Name	Ethyl benzene	1,2-Dichloro ethane	Toluene	1,4-Dioxane	Tetra chloro ethene	Perchlorate	Sulfate As So4	Cis-1,2-Dichloro ethene	Trans-1,2-Dichloro ethene	Carbon Tetra chloride	NDMA	Chloroform	Benzene	1,1,1-Trichloroe thane	Methylene Chloride	1,1-Dichloroe thane	1,1-Dichloro ethene	Trichloroe thene	1,2,3-Trichloro propane	Nitrate As NO3	Xylenes (Total)
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	UG/L
05/22/2014	--	--	--	2.5	--	57	46	--	--	--	0.074	--	--	--	--	--	--	--	--	14	--
09/05/2014	<0.5	2.1	<0.5	2.5	1.6	57	--	1.1	<0.5	11	0.083	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	58	<0.005	14	<1
10/01/2014	<0.5	2.1	<0.5	2.5	2	57	--	1.1	<0.5	12	0.078	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	55	<0.005	14	<1
10/30/2014	<0.5	3.4	<0.5	--	2.2	--	--	1.6	<0.5	16	<1	2.7	<0.5	<0.5	<0.5	<0.5	<0.5	58	<0.5	--	<1
11/05/2014	<0.5	2.3	<0.5	2.4	1.7	58	--	1.1	<0.5	16	0.087	2.1	<0.5	<0.5	<0.5	<0.5	<0.5	62	<0.005	15	<1
Well B6C																					
08/14/2014	<0.5	<0.5	<0.5	<0.5	<0.5	23	67	<0.5	<0.5	<0.5	0.0093	0.64	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	<0.005	93	<1
10/30/2014	<0.5	<0.5	<0.5	--	<0.5	--	--	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<1
11/12/2014	<0.5	<0.5	<0.5	<0.5	<0.5	27	70	<0.5	<0.5	<0.5	0.0027	0.83	<0.5	<0.5	<0.5	<0.5	<0.5	2.2	<0.005	94	<1
Well B6D																					
08/14/2014	<0.5	2	<0.5	2	5.4	57	46	2.5	<0.5	2	0.1	2.3	<0.5	<0.5	<0.5	1	0.77	56	<0.005	23	<1
10/30/2014	<0.5	1.8	<0.5	--	4.5	--	--	2.2	<0.5	1.7	<1	2.2	<0.5	<0.5	<0.5	0.87	0.52	54	<0.5	--	<1
11/12/2014	<0.5	2	<0.5	1.4	4.9	48	49	2.5	<0.5	2.1	0.065	2.6	<0.5	<0.5	<0.5	1	0.78	52	<0.005	23	<1
B6 Fully Treated																					
09/05/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	28	<1
09/11/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	28	<1
09/16/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	28	<1
09/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	29	<1
10/01/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	27	<1
10/08/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	29	<1
10/14/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	28	<1
10/20/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	28	<1
10/27/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30	<1
10/30/2014	<0.5	<0.5	<0.5	--	<0.5	--	--	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<1
11/05/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	30	<1
11/10/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	32	<1
11/18/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	29	<1
11/25/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	32	<1
12/09/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30	<1
12/16/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30	<1
12/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	28	<1
12/30/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	29	<1

Notes:

MCL - Maximum contaminant level.
SMCL - Secondary maximum contaminant level.
Chloroform MCL based on MCL for trihalomethanes.
NL - Notification Level.
NA - Not analyzed or data not available.
U - Not detected (Detection limit reported).
J - Reported value is the approximate concentration of the analyte in the sample.
* - Analysis by EPA Method 8270C.
NDMA = N-Nitrosodimethylamine.

TABLE 6-12
SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT 2014 CHEMICAL MASS REMOVED
Baldwin Park Operable Unit
San Gabriel Valley, California

	2014 Average Concentrations (µg/L)[1]						Chemical Mass Removed[2] (kg)						Total Mass Removed	
Compound	**Well B6C**	**Well B6D**	**Well B25A**	**Well B25B**	**Well B26A**	**Well B26B**	**Well B6C**	**Well B6D**	**Well B25A**	**Well B25B**	**Well B26A**	**Well B26B**	(kg)	(lb)
1,1-Dichloroethane	0.00	0.96	0.14	0.00	0.00	0.00	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.7
1,1-Dichloroethene	0.00	0.69	4.38	2.05	0.00	0.00	0.0	0.0	9.9	7.0	0.0	0.0	17.0	37.4
1,2-Dichloroethane	0.00	1.93	1.08	0.00	1.40	2.48	0.0	0.0	2.5	0.0	1.1	3.9	7.5	16.5
1,4-Dioxane	0.00	1.70	2.23	0.73	0.81	2.48	0.0	0.0	5.1	2.5	0.6	3.9	12.2	26.8
Carbon tetrachloride	0.00	1.93	1.60	6.53	1.10	13.75	0.0	0.0	3.6	22.4	0.9	21.8	48.6	107.2
cis-1,2-Dichloroethene	0.00	2.40	4.50	2.18	0.91	1.23	0.0	0.0	10.2	7.5	0.7	1.9	20.3	44.9
Chloroform	0.49	2.37	1.78	0.74	1.38	2.15	0.0	0.0	4.0	2.5	1.1	3.4	11.1	24.4
N-Nitrosodimethylamine	0.00	0.06	0.06	0.01	0.08	0.07	0.0	0.0	0.1	0.0	0.1	0.1	0.3	0.7
Perchlorate	16.67	52.50	35.17	14.83	33.50	57.17	0.0	0.0	80.0	50.8	26.6	90.5	247.9	546.5
Tetrachloroethene	0.00	4.93	26.50	7.80	2.00	1.88	0.0	0.0	60.3	26.7	1.6	3.0	91.6	201.8
Trichloroethene	1.43	54.00	41.75	24.00	22.50	58.25	0.0	0.0	94.9	82.3	17.9	92.2	287.3	633.3
Total							**0.0**	**0.0**	**271.0**	**201.7**	**50.6**	**220.6**	**744.0**	**1,640.3**

Notes:

[1] - Average concentrations calculated using 0 ug/L for non-detects.

[2] - Chemical mass removed calculated by multiplying the average concentration from each extraction well by the total volume of water pumped from each well.

TABLE 6-13
AIR QUALITY DATA FOR SAN GABRIEL VALLEY WATER COMPANY TREATMENT PLANT B6 (2014)
Baldwin Park Operable Unit
San Gabriel Valley, California

	Ethyl benzene (ppbV)	1,4-Dichlorobenzene (ppbV)	1,2-DCA (ppbV)	1,3,5-Trimethylbenzene (ppbV)	Toluene (ppbV)	PCE (ppbV)	m,p-Xylene (ppbV)	Heptane (ppbV)	Cis-1,2-DCE (ppbV)	2,2,4-Trimethylpentane (ppbV)	Carbon Tetra Chloride (ppbV)	4-Ethyltoluene (ppbV)	Ethanol (ppbV)	Acetone (ppbV)	Chloroform (ppbV)	Benzene (ppbV)	Chloro Methane (ppbV)	Carbon Disulfide (ppbV)	1,1-DCA (ppbV)	1,1-DCE (ppbV)	Freon-11 (ppbV)	Freon-12 (ppbV)	Chlorofluorocarbon (ppbV)	MEK (ppbV)	TCE (ppbV)	o-Xylene (ppbV)	1,2,4-Trimethylbenzene (ppbV)
T1 Outlet of 2nd 20,000 lb Adsorber																											
01/22/2014	<2.1	<2.1	5.7	<2.1	<2.1	<2.1	<2.1	<2.1	19	<2.1	2.6	<2.1	100	<10	17	<2.1	<2.1	<10	4.2	23	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
02/20/2014	<2.2	<2.2	6.6	<2.2	<2.2	<2.2	<2.2	<2.2	22	<2.2	2.3	<2.2	<11	<11	18	<2.2	<2.2	18	4.1	20	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
04/16/2014	<2.2	<2.2	13	<2.2	<2.2	<2.2	<2.2	<2.2	32	<2.2	11	<2.2	<11	<11	24	<2.2	<2.2	<11	4.6	16	<2.2	4.9	3.1	<2.2	<2.2	<2.2	<2.2
04/30/2014	<2.2	<2.2	7.9	<2.2	<2.2	<2.2	<2.2	<2.2	19	<2.2	6.5	<2.2	<11	<11	11	<2.2	<2.2	<11	<2.2	4.8	<2.2	4.6	<2.2	5	<2.2	<2.2	<2.2
05/14/2014	<2.2	<2.2	<2.2	<2.2	4.1	<2.2	4.3	<2.2	<2.2	<2.2	<2.2	<2.2	54	<11	<2.2	<2.2	<2.2	15	<2.2	<2.2	<2.2	4.1	<2.2	7	<2.2	<2.2	2.2
07/23/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	<2.2	<2.2	<2.2	21	<2.2	4	<2.2	5	<2.2	<2.2	<2.2	<2.2	<2.2
07/23/2014	<0.69	<0.69	<0.69	<0.69	<0.69	<0.69	<2.8	<2.8	<0.69	<0.69	<0.69	<0.69	<6.9	<2.8	<0.69	<0.69	<0.69	<2.8	<0.69	4.8	<1.4	6.3	<2.1	<2.1	<0.69	<0.69	<2.1
09/11/2014	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	4.1	<2.1	<2.1	<2.1	<10	<10	2.1	<2.1	<2.1	<10	<2.1	14	<2.1	5.4	<2.1	<2.1	<2.1	<2.1	<2.1
10/14/2014	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	8.5	<2.1	<2.1	<2.1	<11	<12	2.4	<2.1	<2.1	<11	<2.1	16	<2.1	4.3	<2.1	<3.4	<2.1	<2.1	<2.1
12/03/2014	<2.2	<2.2	<2.2	4.3	11	<2.2	23	<2.2	3.8	<2.2	<2.2	3.8	<11	<11	<2.2	5.7	<2.2	<11	<2.2	14	<2.2	4.8	<2.2	<2.2	<2.2	11	9.4
T2 Outlet of 2nd 20,000 lb Adsorber																											
01/03/2014	<1.9	<1.9	5.5	<1.9	<1.9	<1.9	<1.9	<1.9	28	<1.9	11	<1.9	<9.4	<10	7.5	<1.9	<1.9	<9.4	<1.9	5.6	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
01/22/2014	<2.1	<2.1	5.4	<2.1	<2.1	<2.1	<2.1	<2.1	20	<2.1	7.9	<2.1	<34	<15	5.2	<2.1	<2.1	75	<2.1	3.5	<2.1	<2.1	<2.1	2.6	<2.1	<2.1	<2.1
04/16/2014	<1.9	<1.9	23	<1.9	<1.9	<1.9	<1.9	<1.9	59	<1.9	120	<1.9	<9.7	<9.7	23	<1.9	<1.9	<9.7	2.2	8.2	<1.9	4.8	<1.9	<1.9	<1.9	<1.9	<1.9
04/30/2014	<2.2	<2.2	8.1	<2.2	<2.2	<2.2	<2.2	<2.2	17	<2.2	14	<2.2	<11	<11	3.5	<2.2	<2.2	<11	<2.2	4.5	<2.2	3	<2.2	<2.2	<2.2	<2.2	<2.2
05/14/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	<2.2	<2.2	<2.2	<11	<2.2	<2.2	<2.2	3.4	<2.2	<2.2	<2.2	<2.2	<2.2
07/23/2014	<2	<2	4.3	<2	<2	<2	<2	<2	16	<2	21	<2	<10	<10	7.8	<2	<2	<10	2.3	15	<2	4.2	<2	<2	<2	<2	<2
08/14/2014	<2.1	<2.1	6.5	<2.1	<2.1	<2.1	<2.1	<2.1	16	<2.1	24	<2.1	<11	<11	8.3	<2.1	<2.1	<11	<2.1	14	<2.1	4.8	<2.1	<2.1	<2.1	<2.1	<2.1
09/11/2014	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<10	<2	<2	<2	<10	<2	<2	<2	7.7	<2	<2	<2	<2	<2
10/14/2014	<2.3	<2.3	<2.3	<2.3	8.4	<2.3	2.4	<2.3	<2.3	<2.3	<2.3	<2.3	<11	<11	<2.3	<2.3	<2.3	<11	<2.3	<2.3	<2.3	3.3	<2.3	<3.8	<2.3	<2.3	<2.3
10/14/2014	1.7	<0.5	<0.5	<0.5	8.5	2.4	2.7	18	<0.5	1.1	<0.5	<0.5	<5	3.1	<0.5	<0.5	0.6	<2	<0.5	<0.5	<1	2.7	<1.5	<1.5	0.99	0.65	<1.5
12/03/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	2.6	<2.2	<2.2	<2.2	<11	<11	<2.2	<2.2	<2.2	<11	<2.2	5.2	<2.2	5.6	<2.2	<2.2	<2.2	<2.2	<2.2
T3 Outlet of 2nd 20,000 lb Adsorber																											
04/16/2014	<2.1	<2.1	8.5	<2.1	<2.1	<2.1	<2.1	<2.1	46	<2.1	68	<2.1	17	<13	39	<2.1	<2.1	<11	14	55	<2.1	4.1	18	<2.1	9.4	<2.1	<2.1
04/30/2014	<2.2	<2.2	2.9	<2.2	<2.2	<2.2	<2.2	<2.2	20	<2.2	7.8	<2.2	<11	<11	9.5	<2.2	<2.2	<11	<2.2	13	<2.2	4	<2.2	<2.2	4	<2.2	<2.2
05/14/2014	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	13	<11	<2.3	<2.3	<2.3	<11	<2.3	<2.3	<2.3	4.1	<2.3	<2.3	<2.3	<2.3	<2.3
07/23/2014	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<11	<11	<2.3	<2.3	<2.3	<11	<2.3	4.8	<2.3	3.8	<2.3	<2.3	<2.3	<2.3	<2.3
09/11/2014	<2	5.1	<2	<2	<2	<2	2.9	<2	5.5	<2	<2	<2	<9.9	<9.9	2.7	<2	<2	<9.9	<2	14	<2	5	<2	<2	<2	<2	2.2
10/14/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<12	<2.2	<2.2	<2.2	210	<2.2	5.8	<2.2	5.6	<2.2	<4.7	<2.2	<2.2	<2.2
12/03/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	<2.2	<2.2	2.7	<11	<2.2	4.9	<2.2	5.8	<2.2	<2.2	<2.2	<2.2	<2.2
T4 Outlet of 2nd 20,000 lb Adsorber																											
02/20/2014	<2	<2	<2	<2	<2	<2	<2	<2	26	<2	4.7	<2	<10	11	15	<2	<2	72	6.6	65	5.9	<2	<2	<3.1	<2	<2	<2
04/16/2014	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	27	<2.1	5.5	<2.1	35	<15	14	<2.1	<2.1	<11	6.4	51	<2.1	5.8	<2.1	<2.1	<2.1	<2.1	<2.1
04/16/2014	<0.56	<0.56	1.2	<0.56	<0.56	<0.56	<2.3	<2.3	26	<0.56	6.2	<0.56	<5.6	<2.3	14	<0.56	0.66	<2.3	6	48	<1.1	6.3	<1.7	<1.7	1.5	<0.56	<1.7
04/30/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	27	<2.2	3.5	<2.2	<11	<11	11	<2.2	<2.2	<11	3.5	20	<2.2	5.5	<2.2	<2.2	<2.2	<2.2	<2.2
05/14/2014	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<11	<11	<2.1	<2.1	<2.1	57	<2.1	<2.1	<2.1	8.1	<2.1	2.5	<2.1	<2.1	<2.1
07/23/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	<2.2	<2.2	<2.2	<11	<2.2	4.3	<2.2	4.9	<2.2	<2.2	<2.2	<2.2	<2.2
09/11/2014	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<13	<13	<1.9	2	<1.9	<9.5	<1.9	<1.9	<1.9	<1.9	<1.9	3.4	<1.9	<1.9	<1.9
10/14/2014	<2	<2	<2	<2	<2	<2	<2	<2	8.2	<2	<2	<2	<10	<10	3.5	<2	<2	<10	<2	12	<2	4.4	<2	<2	<2	<2	<2
12/03/2014	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<11	<2.2	<2.2	<2.2	85	<2.2	<2.2	<2.2	5.8	<2.2	<2.2	<2.2	<2.2	<2.2

Notes:

ppbV = parts per billion by volume.
All samples analyzed by method TO-15.
DCA = Dichloroethane.
DCE = Dichloroethene.
MEK = Methyl ethyl Ketone.
PCE = Tetrachloroethene.
TCE = Trichloroethene.
The following compounds were not detected in any of the sampling events:

Styrene	Acrylonitrile	Propylene	1,3-Dichlorobenzene	Chloroethane	1,1,2-Trichloroethane
Benzyl Chloride	Vinyl Acetate	1,2,4-Trichlorobenzene	2-Hexanone	Vinyl Chloride	1,1,2,2-Tetrachloroethane
Cis-1,3-Dichloropropene	4-Methyl-2-Pentanone	1,4-Dioxane	Vinyl Bromide	Dichloromethane	Hexachlorobutadiene
Trans-1,3-Dichloropropene	Chlorobenzene	Chlorodibromomethane	Methanol	Bromoform	Naphthalene
1,2-Dibromoethane	Tetrahydrofuran	Ethyl Acetate	Isopropyl Alcohol	Bromodichloromethane	1,2-Dichlorobenzene
1,3-Butadiene	Hexane	Trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,2-Dichloro-1,1,2,2-Tetrafluoroethane	1,2-Dibromo-3-Chloropropane
Allyl Chloride	Cyclohexane	Methyl Tert-Butyl Ether	Bromomethane	1,2-Dichloropropane	1,2,3-Trichloropropane

TABLE 6-14
AIR RISK AND HAZARD SUMMARY FOR SAN GABRIEL COUNTY WATER DISTRICT B6 TREATMENT PLANT (2014)
Baldwin Park Operable Unit
San Gabriel Valley, California

Date	MICR		Acute Hazard Index		Chronic Hazard Index		Cancer Burden	
ARAR	1.0 x 10-6		1.0		1.0		0.5	
	Estimated Annual Average[1]	Actual 52 Week Annual Rolling Maximum[2]	Estimated Annual Average[1]	Actual 52 Week Annual Rolling Maximum[3]	Estimated Annual Average[1]	Actual 52 Week Annual Rolling Maximum[2]	Estimated Annual Average[1]	Actual 52 Week Annual Rolling Maximum
January	3.10E-07	6.30E-07	9.05E-04	2.88E-03	1.74E-04	5.40E-04	--	--
February	4.30E-07	5.90E-07	1.78E-03	1.96E-03	4.71E-04	5.32E-04	--	--
March	NS	6.10E-07	NS	1.96E-03	NS	5.37E-04	--	--
April	1.30E-06	7.70E-07	2.38E-03	7.10E-03	1.45E-03	6.52E-04	2.39E-04	--
May	0.00	6.70E-07	6.94E-05	7.10E-03	4.96E-05	5.28E-04	--	--
June	NS	5.90E-07	NS	7.10E-03	NS	5.28E-04	--	--
July	5.10E-07	6.70E-07	5.60E-04	7.10E-03	3.72E-04	4.24E-04	--	--
August	6.90E-07	7.00E-07	7.10E-04	7.10E-03	4.66E-04	4.35E-04	--	--
September	9.00E-08	6.60E-07	2.90E-04	7.10E-03	1.47E-04	4.22E-04	--	--
October	5.00E-08	5.60E-07	4.75E-04	7.10E-03	1.52E-04	3.79E-04	--	--
November	NS	5.10E-07	NS	7.10E-03	NS	3.59E-04	--	--
December	5.00E-08	4.80E-07	1.07E-04	7.10E-03	2.30E-04	3.44E-04	--	--

Notes:

MICR - Maximum individual cancer risk.

ARAR - Applicable or relevant and appropriate requirements.

1. Estimated Annual Average is based on the most recent value.
2. Actual 52-Week Rolling Average MICR and Chronic Hazard Index are based on air sampling results collected over the previous 12 months.
3. Actual 52-Week Rolling Maximum Acute Hazard Index is based on the maximum value over the previous 12 months.

- - Not calculated because the MICR was less than 1 in 1 million.

NS = No sampling was performed at SGVWC B6 for March. No sampling was required in June and November based on current sampling requirements for units in operation.

TABLE 6-15
SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT
2014 BRINE VAULT DATA
Baldwin Park Operable Unit
San Gabriel Valley, California

Date	Total Discharge (gallons)	Average Flowrate (gpm)	Max Flowrate (gpm)
January	77,400	1.7	4.0
February	68,000	1.7	3.0
March	22,400	0.5	2.0
April	91,900	2.1	4.0
May	40,500	0.9	4.0
June	52,800	1.2	3.0
July	56,300	1.3	3.0
August	64,100	1.4	3.0
September	111,900	2.6	3.0
October	73,200	1.6	3.0
November	81,600	1.9	3.0
December	51,400	1.2	3.0

Notes:
Total annual discharge is 791,500 gallons.
gpm - Gallons per minute.

TABLE 6-16
2014 INFLUENT AND EFFLUENT WATER QUALITY DATA - SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT
Baldwin Park Operable Unit
San Gabriel Valley, California

Analyte Name	Ethyl benzene	1,2-Dichloro ethane	Toluene	1,4-Dioxane	Tetra chloro ethene	Perchlorate	Sulfate As SO4	Cis-1,2-Dichloro ethene	Trans-1,2-Dichloro ethene	Carbon Tetrachloride	NDMA	Chloroform	Benzene	1,1,1-Trichloroe thane	Methylene Chloride	1,1-Dichloro ethane	1,1-Dichloroe thene	Trichloroe thene	1,2,3-Trichloro propane	Nitrate As No3	Xylenes (Total)
Units	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**MG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**MG/L**	**UG/L**
Regulatory Limits																					
MCL/NL*/SMCL**	700	0.5	150	1*	5	6	200**	6	10	0.5	0.01*	100	1	200	5	5	6	5	0.005*	45	1750
Design Concentrations																					
Maximum	5	5	5	5	50	200	--	5	5	5	0.9	5	5	5	5	5	5	50	--	--	5
Expected Average	0.49	3.37	0.65	2.12	2.58	79.83	--	1.03	0.37	2.86	0.59183	1.91	0.26	0.32	0.51	0.48	0.45	26.74	--	--	0.83
Well B5B																					
01/13/2014	<0.5	0.2 J	<0.5	<0.5	2.9	8.6	--	<0.5	<0.5	0.25 J	0.011	0.82	<0.5	<0.5	<0.5	<0.5	0.39 J	3.2	<0.005	51	<1
03/04/2014	<0.5	0.21 J	<0.5	0.68	2.4	9.8	--	<0.5	<0.5	0.29 J	0.014	0.89	<0.5	<0.5	<0.5	<0.5	0.37 J	3.1	<0.005	49	<1
04/10/2014	<0.5	0.21 J	<0.5	<0.5	2	9.8	--	<0.5	<0.5	<0.5	0.014	0.67	<0.5	<0.5	<0.5	<0.5	0.31 J	3	<0.005	53	<1
05/05/2014	<0.5	<0.5	<0.5	<0.5	2.4	9.6	--	<0.5	<0.5	0.37 J	0.018	0.65	<0.5	<0.5	<0.5	<0.5	0.34 J	2.9	<0.005	52	<1
05/12/2014	<0.5	<0.5	<0.5	--	2.7	--	--	<0.5	<0.5	<0.5	<1	0.76	<0.5	<0.5	<0.5	<0.5	<0.5	3.2	<0.5	--	<1
06/02/2014	<0.5	<0.5	<0.5	<0.5	2.4	9.2	--	<0.5	<0.5	0.21 J	0.01	0.63	<0.5	<0.5	<0.5	<0.5	0.3 J	2.8	<0.005	53	<1
07/02/2014	<0.5	<0.5	<0.5	<0.5	3.1	8.9	--	<0.5	<0.5	0.43 J	0.0088	0.81	<0.5	<0.5	<0.5	<0.5	0.37 J	3.7	<0.005	49	<1
08/04/2014	<0.5	0.21 J	<0.5	<0.5	2.6	9.7	--	<0.5	<0.5	0.17 J	0.0091	0.68	<0.5	<0.5	<0.5	<0.5	0.35 J	3.1	<0.005	48	<1
09/04/2014	<0.5	0.2 J	<0.5	<0.5	2.7	9.2	--	<0.5	<0.5	0.33 J	0.0073	0.88	<0.5	<0.5	<0.5	<0.5	0.4 J	3	<0.005	47	<1
10/01/2014	<0.5	0.18 J	<0.5	<0.5	2.4	9.4	--	<0.5	<0.5	0.28 J	0.0097	0.68	<0.5	<0.5	<0.5	<0.5	0.35 J	3.2	<0.005	47	<1
11/04/2014	<0.5	<0.5	<0.5	<0.5	1.7	9	--	<0.5	<0.5	<0.5	0.0098	0.65	<0.5	<0.5	<0.5	<0.5	0.25 J	2.9	<0.005	52	<1
Well B5D																					
01/06/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	0.54	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	3.6	<1
03/04/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	0.83	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	3.8	<1
04/01/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	0.36 J	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	3.1	<1
05/05/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	0.89	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	3.7	<1
05/12/2014	<0.5	<0.5	<0.5	--	<0.5	--	--	<0.5	<0.5	0.96	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<1
06/02/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	0.68	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	3.8	<1
07/02/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	0.9	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	3.7	<1
08/04/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	0.63	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	3.9	<1
09/04/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	1.1	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	3.7	<1
10/01/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	1.1	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	3.9	<1
11/04/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	0.8	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	4.3	<1
Well B5E																					
01/06/2014	<0.5	0.84	<0.5	<0.5	3.4	17	--	0.99	<0.5	2.2	0.13	0.78	<0.5	<0.5	<0.5	<0.5	0.86	16	<0.005	19	<1
03/04/2014	<0.5	0.89	<0.5	0.54	3.3	17	--	1.2	<0.5	3.8	0.12	0.97	<0.5	<0.5	<0.5	0.14 J	0.99	17	<0.005	19	<1
04/01/2014	<0.5	<0.5	<0.5	<0.5	3.2	19	--	0.88	<0.5	2	0.12	0.66	<0.5	<0.5	<0.5	<0.5	0.75	15	<0.005	17	<1
05/05/2014	<0.5	<0.5	<0.5	0.56	3.8	18	--	1.1	<0.5	2.8	0.09	0.84	<0.5	<0.5	<0.5	0.13 J	0.99	18	<0.005	20	<1
05/12/2014	<0.5	<0.5	<0.5	--	3.6	--	--	1.1	<0.5	2.7	<1	0.8	<0.5	<0.5	<0.5	<0.5	0.83	17	<0.5	--	<1
06/02/2014	<0.5	<0.5	<0.5	<0.5	3.2	17	--	0.87	<0.5	2	0.1	0.69	<0.5	<0.5	<0.5	<0.5	0.74	15	<0.005	20	<1
07/02/2014	<0.5	<0.5	<0.5	<0.5	3.6	17	--	0.93	<0.5	2.5	0.16	0.74	<0.5	<0.5	<0.5	<0.5	0.83	18	<0.005	19	<1
08/04/2014	<0.5	0.82	<0.5	0.5	3.3	18	--	1	<0.5	1.8	0.099	0.72	<0.5	<0.5	<0.5	<0.5	0.83	16	<0.005	18	<1
09/04/2014	<0.5	0.98	<0.5	0.51	3.6	18	--	1.5	<0.5	3.1	0.1	1	<0.5	<0.5	<0.5	0.16 J	1.1	18	<0.005	18	<1
10/01/2014	<0.5	1.1	<0.5	0.54	3.9	18	--	1.4	<0.5	2.8	0.077	0.97	<0.5	<0.5	<0.5	0.16 J	1.1	21	<0.005	18	<1
11/04/2014	<0.5	0.96	<0.5	0.59	2.5	18	--	0.95	<0.5	2.3	0.11	0.81	<0.5	<0.5	<0.5	<0.5	0.67	17	<0.005	20	<1
COI #5																					

TABLE 6-16
2014 INFLUENT AND EFFLUENT WATER QUALITY DATA - SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT
Baldwin Park Operable Unit
San Gabriel Valley, California

Analyte Name	Ethyl benzene	1,2-Dichloro ethane	Toluene	1,4-Dioxane	Tetra chloro ethene	Perchlorate	Sulfate As SO4	Cis-1,2-Dichloro ethene	Trans-1,2-Dichloro ethene	Carbon Tetrachloride	NDMA	Chloroform	Benzene	1,1,1-Trichloroe thane	Methylene Chloride	1,1-Dichloro ethane	1,1-Dichloroe thene	Trichloroe thene	1,2,3-Trichloro propane	Nitrate As No3	Xylenes (Total)
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	UG/L
01/06/2014	<0.5	<0.5	<0.5	<0.5	7	4.3	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	2.9	<0.005	28	<1
02/10/2014	<0.5	<0.5	<0.5	--	6.2	--	--	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	2.8	<0.5	--	<1
04/01/2014	<0.5	<0.5	<0.5	<0.5	5.6	4.5	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	2.7	<0.005	26	<1
05/05/2014	<0.5	<0.5	<0.5	<0.5	8.3	4.2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	3.2	<0.005	29	<1
05/12/2014	<0.5	<0.5	<0.5	--	7.1	--	--	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	3.1	<0.5	--	<1
06/02/2014	<0.5	<0.5	<0.5	<0.5	7.9	3.9	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	3.2	<0.005	29	<1
07/02/2014	<0.5	<0.5	<0.5	<0.5	9.1	4.5	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	3.5	<0.005	28	<1
08/04/2014	<0.5	<0.5	<0.5	<0.5	8.9	3.4	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	1.7	3.5	<0.005	27	<1
09/04/2014	<0.5	<0.5	<0.5	<0.5	7.9	4	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	3.6	<0.005	28	<1
10/01/2014	<0.5	<0.5	<0.5	<0.5	9.8	3.7	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	1.8	3.8	<0.005	27	<1
11/04/2014	<0.5	<0.5	<0.5	<0.5	7.5	5.1	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	3.7	<0.005	30	<1
11/12/2014	<0.5	<0.5	<0.5	--	8.6	--	--	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	1.9	3.5	<0.5	--	<1
12/03/2014	<0.5	<0.5	<0.5	<0.5	8	3.9	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	3.3	<0.005	29	<1
B5 Fully Treated																					
01/06/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	15	<1
01/13/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30	<1
01/21/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.15 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	34	<1
01/28/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.18 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	33	<1
03/04/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.13 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	34	<1
03/10/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.14 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	35	<1
04/01/2014	--	--	--	<0.5	--	<2	--	--	--	--	<0.002	--	--	--	--	--	--	--	<0.005	23	--
04/10/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.16 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	33	<1
04/14/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.17 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	34	<1
04/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.16 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	34	<1
04/28/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	35	<1
05/05/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	35	<1
05/12/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	36	<1
05/20/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.18 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	35	<1
05/27/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.19 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	35	<1
06/02/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.19 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	33	<1
06/09/2014	<0.5	0.16 J	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.22 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	34	<1
06/16/2014	<0.5	0.24 J	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.32 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	35	<1
06/25/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.15 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31	<1
07/02/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.18 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	36	<1
07/07/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	33	<1
07/14/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.12 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	32	<1
07/23/2014	<0.5	0.12 J	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.16 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	33	<1
07/28/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.17 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	32	<1
08/04/2014	<0.5	0.17 J	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.22 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	32	<1
08/11/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.24 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	33	<1
08/18/2014	<0.5	0.14 J	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.21 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	33	<1
08/26/2014	<0.5	0.21 J	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.36 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	32	<1
09/04/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.29 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	32	<1
09/08/2014	<0.5	0.2 J	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.29 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	32	<1

TABLE 6-16
2014 INFLUENT AND EFFLUENT WATER QUALITY DATA - SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT
Baldwin Park Operable Unit
San Gabriel Valley, California

Analyte Name	Ethyl benzene	1,2-Dichloro ethane	Toluene	1,4-Dioxane	Tetra chloro ethene	Perchlorate	Sulfate As SO4	Cis-1,2-Dichloro ethene	Trans-1,2-Dichloro ethene	Carbon Tetrachloride	NDMA	Chloroform	Benzene	1,1,1-Trichloroe thane	Methylene Chloride	1,1-Dichloro ethane	1,1-Dichloroe thene	Trichloroe thene	1,2,3-Trichloro propane	Nitrate As No3	Xylenes (Total)
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	UG/L
09/15/2014	<0.5	0.12 J	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.15 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	33	<1
09/22/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	33	<1
10/01/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.17 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	31	<1
10/06/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.2 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	33	<1
10/15/2014	<0.5	0.18 J	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.23 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31	<1
10/21/2014	<0.5	0.21 J	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.29 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	32	<1
10/28/2014	<0.5	0.15 J	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.21 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	34	<1
11/04/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.005	35	<1
11/12/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.34 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	34	<1
11/17/2014	<0.5	0.15 J	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	0.27 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	34	<1
11/24/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	--	<0.5	<0.5	<0.5	<0.002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	35	<1

Notes:

MCL - Maximum contaminant level.
SMCL - Secondary maximum contaminant level.
Chloroform MCL based on MCL for trihalomethanes.
NL - Notification Level.
NA - Not analyzed or data not available.
U - Not detected (Detection limit reported).
J - Reported value is the approximate concentration of the analyte in the sample.
* - Analysis by EPA Method 8270C
NDMA = N-Nitrosodimethylamine

Table 6-17
SAN GABRIEL VALLEY WATER COMPANY TREATMENT PLANT B5 2014 CHEMICAL MASS REMOVED
Baldwin Park Operable Unit
San Gabriel Valley, California

	2014 Average Concentrations (µg/L)[1]				Chemical Mass Removed [2] (kg)				Total Mass Removed	
Compound	**Well B5B**	**Well B5D**	**Well B5E**	**COI #5**	**Well B5B**	**Well B5D**	**Well B5E**	**COI #5**	(kg)	(lb)
1,2-Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
1,4-Dioxane	0.1	0.1	0.1	0.1	0.3	0.4	0.0	0.1	0.8	1.77
Carbon tetrachloride	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Chloroform	0.7	0.7	0.7	0.7	3.7	4.2	0.2	1.6	9.6	21.17
N-Nitrosodimethylamine	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.3
Perchlorate	8.5	8.5	8.5	8.5	42.2	48.1	1.8	18.1	110.2	243.0
Tetrachloroethene	2.5	2.5	2.5	2.5	12.4	14.1	0.5	5.3	32.3	71.2
Trichloroethene	3.1	3.1	3.1	3.1	15.5	17.6	0.7	6.6	40.3	88.9
Total					**74.1**	**84.4**	**3.2**	**31.7**	**193.4**	**426.4**

Notes:

[1] - Average concentrations calculated using 0 ug/L for non-detects.

[2] - Chemical mass removed calculated by multiplying the average concentration from each extraction well.
by the total volume of water pumped from each well.

TABLE 6-18
2014 INFLUENT AND EFFLUENT WATER QUALITY DATA - CALIFORNIA DOMESTIC WATER COMPANY
Baldwin Park Operable Unit
San Gabriel Valley, California

Analyte Name	1,2-Dichloro ethane	Carbon Tetrachloride	Trichloro ethene	Tetrachloro ethene	NDMA	Perchlorate	Nitrate As NO3
Units	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**UG/L**	**MG/L**
Regulatory Limits							
MCL/NL*/SMCL**	0.5	0.5	5	5	0.01*	6	45
Design Concentrations - Combined Treatment Plant Influent							
Maximum	5	10	20	20	0.2	50	--
Expected Average	0.66	1.79	5.36	1.89	0.11	12.02	--
Well 2							
1/6/14	ND	ND	0.68	0.85	ND	ND	15
2/3/14	ND	ND	0.69	0.90	ND	ND	12
3/3/14	ND	ND	0.58	0.85	ND	2.3	19
4/7/14	ND	ND	1.1	1.2	ND	2.5	18
4/9/14	-	ND	1.2	1.3	-	-	19
5/5/14	ND	ND	1.5	1.3	ND	3.0	20
6/2/14	ND	ND	1.4	1.6	ND	3.4	20
7/7/14	ND	ND	2.0	1.7	ND	3.6	23
7/9/14	-	ND	1.8	1.7	-	-	-
8/4/14	ND	ND	1.7	1.6	ND	4.0	25
9/2/14	ND	ND	2.0	1.8	ND	4.8	25
10/2/14	-	ND	1.2	1.4	-	-	-
10/6/14	ND	ND	0.89	1.1	ND	2.7	20
11/3/14	ND	ND	0.60	1.0	ND	2.1	16
12/1/14	ND	ND	0.74	1.0	ND	2.2	18
Well 3							
1/6/14	ND	1.7	30	22	0.014	11	23
1/8/14	-	-	42	31	-	-	22
2/3/14	ND	2.7	43	30	0.013	11	20
3/3/14	ND	1.5	28	24	0.013	11	21
4/7/14	ND	2.0	28	21	0.012	11	21
4/9/14	-	1.5	39	31	-	-	20
5/5/14	ND	2.4	36	24	0.014	11	20
6/2/14	ND	1.7	37	32	0.014	11	21
7/7/14	ND	2.3	39	27	0.018	12	22
7/9/14	-	2.0	39	29	-	-	22
8/4/14	ND	1.7	31	25	0.016	11	22
9/2/14	ND	2.0	36	26	0.013	12	22
10/2/14	-	1.8	35	26	-	-	20
10/6/14	ND	1.5	26	21	0.013	11	22
11/3/14	ND	2.1	31	25	0.014	13	23
12/1/14	ND	1.7	32	21	0.016	12	24
Well 5A							
1/6/14	ND	0.71	10	8.9	ND	ND	12
1/8/14	-	-	11	9.2	-	-	-
2/3/14	ND	0.93	13	11	ND	ND	11
3/3/14	ND	0.58	7.2	8.1	ND	ND	11
4/7/14	ND	0.70	8.5	7.8	ND	ND	11
4/9/14	-	ND	11	11	-	-	11
5/5/14	ND	0.81	9.7	7.5	ND	ND	10
6/2/14	ND	ND	7.6	8.4	ND	ND	10
7/7/14	ND	0.54	6.8	6.2	ND	ND	10
7/9/14	-	ND	7.3	6.8	-	-	-
8/4/14	ND	ND	5.9	5.6	ND	ND	10
9/2/14	ND	0.50	6.2	5.6	ND	ND	10
10/2/14	-	ND	6.6	6.5	-	-	-
10/6/14	ND	ND	5.0	5.7	ND	ND	10
11/3/14	ND	0.55	7.4	7.6	ND	ND	10
12/1/14	ND	ND	7.1	6.5	ND	ND	10
Well 6	-	-	-	-	-	-	-
1/6/14	ND	-	24	24	ND	5.9	32
1/8/14	-	ND	29	27	-	-	30

TABLE 6-18
2014 INFLUENT AND EFFLUENT WATER QUALITY DATA - CALIFORNIA DOMESTIC WATER COMPANY
Baldwin Park Operable Unit
San Gabriel Valley, California

Analyte Name		1,2-Dichloro ethane	Carbon Tetrachloride	Trichloro ethene	Tetrachloro ethene	NDMA	Perchlorate	Nitrate As NO3
Units		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
	2/3/14	ND	ND	29	28	ND	4.9	30
	3/3/14	ND	ND	15	17	ND	5.0	29
	4/7/14	ND	ND	15	14	ND	4.6	29
	4/9/14	-	ND	16	16	-	-	29
	5/5/14	ND	ND	14	12	ND	4.2	28
	6/2/14	ND	ND	24	28	ND	5.2	25
	7/7/14	ND	1.6	33	29	ND	6.3	23
	7/9/14	-	1.8	36	31	-	-	21
	8/4/14	ND	ND	22	22	ND	4.6	30
	9/2/14	ND	1.7	32	26	0.003	7.0	20
	10/2/14	-	1.8	44	37	-	-	19
	10/6/14	ND	0.83	24	25	0.002	5.8	23
	11/3/14	ND	1.3	31	30	0.003	7.5	24
	12/1/14	ND	1.1	36	31	0.003	6.2	25
Well 8								
	1/6/14	ND	ND	0.83	1.6	ND	ND	12
	1/8/14	-	-	ND	0.98	-	-	12
	2/3/14	ND	ND	ND	1.8	ND	ND	13
	3/3/14	ND	ND	ND	2.9	ND	ND	15
	4/7/14	ND	ND	ND	2.1	ND	ND	12
	4/9/14	-	-	ND	1.2	-	-	12
	5/5/14	ND	ND	ND	1.2	ND	ND	11
	6/2/14	ND	ND	ND	1.4	ND	ND	11
	7/7/14	ND	ND	0.51	1.6	ND	ND	12
	7/9/14	-	-	ND	1.5	-	-	12
	8/4/14	ND	ND	ND	1.2	ND	ND	12
	9/2/14	ND	ND	ND	1.4	ND	ND	12
	10/2/14	-	-	ND	1.3	-	-	12
	10/6/14	ND	ND	ND	1.3	ND	ND	20
	11/3/14	ND	ND	0.61	1.7	ND	2.7	15
	12/1/14	ND	ND	0.52	1.7	ND	2.3	15
Well 10								
	4/9/14	ND	1.6	47	39	0.004	8.5	25
Well 14								
	2/3/14	ND	0.53	8.7	7.2	0.003	17	74
	3/3/14	ND	ND	4.3	4.5	0.002	18	66
	3/21/14	-	ND	6.2	-	0.002	-	61
	4/7/14	ND	ND	5.6	4.9	0.003	17	70
	4/9/14	-	0.53	3.5	3.0	0.002	-	49
	5/5/14	ND	ND	7.3	5.0	0.003	17	63
	6/2/14	ND	0.63	7.3	6.8	0.004	15	59
	7/7/14	ND	0.56	9.4	6.5	0.005	19	42
	7/9/14	-	-	10	8.1	0.006	-	-
	8/4/14	ND	ND	6.7	5.5	0.004	15	62
	12/11/14	ND	-	6.2	-	0.005	-	70
	12/15/14	ND	-	5.5	-	0.004	18	75
Bassett Blend								
	1/6/14	-	ND	1.2	0.53	ND	ND	17
	1/13/14	-	-	1.1	0.94	-	ND	16
	1/20/14	-	-	2.4	1.8	ND	ND	17
	1/27/14	-	-	1.4	0.83	-	ND	16
	2/3/14	-	ND	1.6	0.67	ND	ND	17
	2/10/14	-	-	1.4	0.60	-	2.6	19
	2/18/14	-	-	1.3	0.70	ND	ND	17
	2/24/14	-	-	0.93	0.78	-	ND	15
	3/3/14	-	ND	1.1	ND	ND	ND	19
	3/10/14	-	-	1.5	0.77	-	ND	18
	3/17/14	-	-	0.73	0.73	ND	ND	16

TABLE 6-18
2014 INFLUENT AND EFFLUENT WATER QUALITY DATA - CALIFORNIA DOMESTIC WATER COMPANY
Baldwin Park Operable Unit
San Gabriel Valley, California

Analyte Name	1,2-Dichloro ethane	Carbon Tetrachloride	Trichloro ethene	Tetrachloro ethene	NDMA	Perchlorate	Nitrate As NO3
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
3/24/14	-	-	0.95	0.79	-	ND	15
3/31/14	-	-	1.5	0.81	ND	ND	16
4/7/14	ND	ND	1.5	0.75	-	ND	17
4/14/14	-	-	1.2	0.87	ND	ND	17
4/21/14	-	-	1.9	0.87	-	ND	17
4/28/14	-	-	1.1	0.76	ND	ND	16
5/5/14	-	ND	1.3	0.90	-	ND	16
5/12/14	-	-	1.1	1.0	ND	2.0	17
5/19/14	-	-	1.4	0.68	-	2.0	18
5/27/14	-	-	1.2	0.78	ND	2.4	16
6/2/14	-	ND	1.3	0.86	-	2.2	16
6/9/14	-	-	1.8	0.78	ND	2.9	19
6/16/14	-	-	1.5	0.80	-	2.9	18
6/23/14	-	-	1.6	1.1	ND	2.7	17
6/30/14	-	-	1.0	0.70	-	2.2	16
7/7/14	-	ND	1.4	0.83	ND	2.8	17
7/14/14	-	-	1.4	1.0	-	3.8	18
7/21/14	-	-	1.2	0.75	ND	3.1	17
7/28/14	-	-	1.2	0.91	-	3.1	18
8/4/14	-	ND	1.3	ND	ND	ND	17
8/11/14	-	-	1.0	0.58	-	2.6	-
8/18/14	-	-	1.3	0.94	ND	3.4	18
8/25/14	-	-	1.2	0.68	-	3.1	17
9/2/14	-	ND	1.2	0.66	ND	2.7	17
9/8/14	-	-	1.2	0.90	-	2.7	17
9/15/14	-	-	1.6	1.3	ND	3.3	18
9/22/14	-	-	1.4	0.62	-	2.8	18
9/29/14	-	-	0.99	0.64	ND	2.4	17
10/6/14	ND	ND	0.98	0.74	-	2.3	17
10/13/14	-	-	1.2	0.71	ND	ND	17
10/20/14	-	-	1.3	0.82	-	3.2	17
10/27/14	-	-	1.3	0.92	ND	3.1	18
11/3/14	-	-	1.8	0.89	-	2.5	18
11/10/14	-	-	1.7	1.2	ND	3.1	17
11/17/14	-	-	1.3	0.88	-	2.5	11
11/24/14	-	-	1.5	0.91	ND	2.8	17
12/1/14	-	-	1.8	0.81	-	3.2	18
12/8/14	-	-	1.7	0.61	ND	ND	18
12/15/14	-	-	1.4	ND	-	ND	19
12/22/14	-	-	1.4	0.96	ND	ND	18
12/29/14	-	-	1.0	0.66	-	ND	17

Notes:

MCL - Maximum contaminant level.

SMCL - Secondary maximum contaminant level.

NL - Notification Level.

ND - Not detected above reporting limit.

J - Reported value is the approximate concentration of the analyte in the sample.

NDMA = N-Nitrosodimethylamine.

TABLE 6-19
CALIFORNIA DOMESTIC WATER COMPANY - 2014 CHEMICAL MASS REMOVED
Baldwin Park Operable Unit
San Gabriel Valley, CA

	2014 Average Concentrations (µg/L)[1]							Chemical Mass Removed[2] (kg)							Total Mass Removed	
Compound	**Well 2**	**Well 3**	**Well 5A**	**Well 6**	**Well 8**	**Well 10**	**Well 14**	**Well 2**	**Well 3**	**Well 5A**	**Well 6**	**Well 8**	**Well 10**	**Well 14**	(kg)	(lb)
1,2-DCA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NO EXTRACTION DATA	NO EXTRACTION DATA	0.0	0.0
CTC	0.0	1.9	0.4	0.7	0.0	1.6	0.3	0.0	15.2	2.4	1.9	0.0			19.5	42.9
TCE	1.2	34.5	8.1	26.5	0.2	47.0	6.7	2.1	274.2	55.5	74.3	0.6			406.8	896.8
PCE	1.3	25.9	7.7	24.8	1.6	39.0	5.7	2.3	206.2	52.2	69.6	6.1			336.3	741.3
NDMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0			0.1	0.2
Perchlorate	2.6	11.4	0.0	5.6	0.4	8.5	17.0	4.5	90.7	0.0	15.7	1.6			112.6	248.3
Total								**9.0**	**586.4**	**110.1**	**161.4**	**8.3**			**875.2**	**1,929.5**

Notes:

[1] - Average concentrations calculated using 0 ug/L for non-detects.

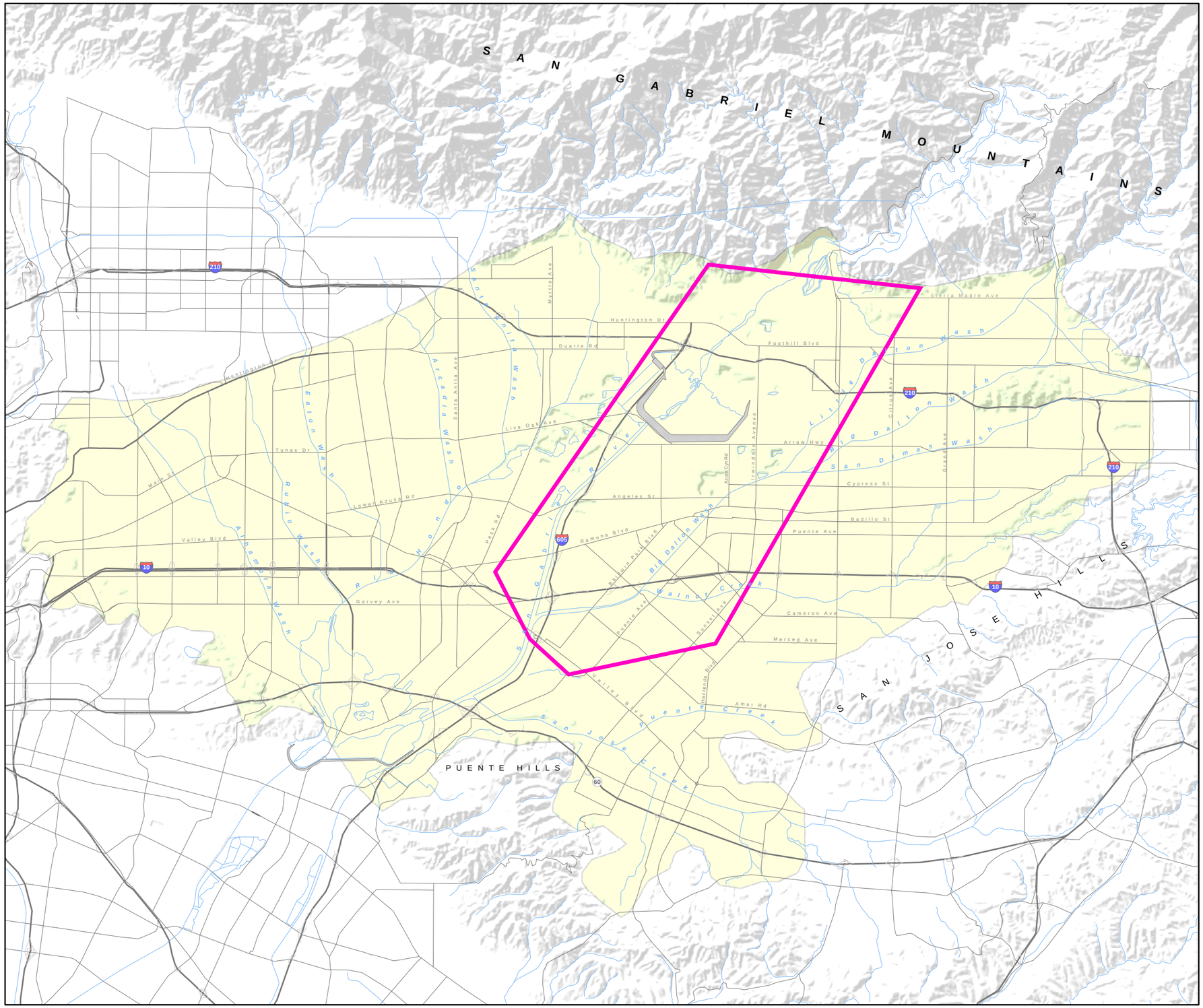
[2] - Chemical mass removed calculated by multiplying the average concentration from each extraction well by the total volume of water pumped from each well.

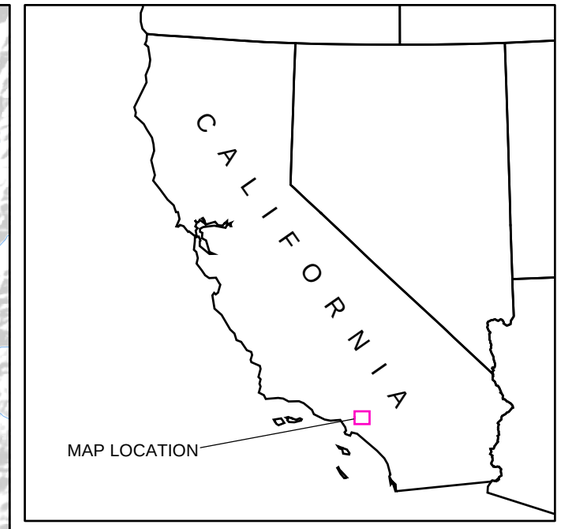
TABLE 6-20
TOTAL CHEMICAL MASS REMOVED BY YEAR, 2004-2014
Baldwin Park Operable Unit
San Gabriel Valley, California

Year	VCWD			LPVCWD			SGVWC B6			SGVWC B5			CDWC			Total		
	Mass Removed[1]	Average Extraction Rate[2]	Pounds Removed per 1000 gpm	Mass Removed[1]	Average Extraction Rate[2]	Pounds Removed per 1000 gpm	Mass Removed[1]	Average Extraction Rate[2]	Pounds Removed per 1000 gpm	Mass Removed[1]	Average Extraction Rate[2]	Pounds Removed per 1000 gpm	Mass Removed[1]	Average Extraction Rate[2]	Pounds Removed per 1000 gpm	Mass Removed[1]	Average Extraction Rate[2]	Pounds Removed per 1000 gpm
2004	- -	- -	- -	680	1,724	394	- -	- -	- -	- -	- -	- -	- -	- -	- -	680	1,724	394
2005	350	403	868	1,135	2,283	497	686	2,106	326	- -	- -	- -	- -	- -	- -	2,171	4,792	453
2006	2,117	2,659	796	587	1,887	311	1,593	6,174	258	- -	- -	- -	- -	- -	- -	4,297	10,720	401
2007	4,725	4,963	952	1,010	2,449	412	2,302	7,235	318	119	2,455	48	- -	- -	- -	8,156	17,102	477
2008	3,639	4,869	747	896	2,326	385	2,392	6,443	371	421	5,635	75	- -	- -	- -	7,348	19,273	381
2009	7,424	5,092	1,458	612	2,295	267	1,553	4,694	331	427	6,294	68	- -	- -	- -	10,016	18,375	545
2010	6,384	4,262	1,498	658	2,288	288	1,743	4,531	385	455	6,833	67	- -	- -	- -	9,240	17,914	516
2011	7,024	4,149	1,693	639	2,271	281	2,036	5,302	384	526	7,170	73	- -	- -	- -	10,225	18,892	541
2012	4,352	5,301	821	472	2,127	222	1,099	2,980	369	604	7,569	80	- -	- -	- -	6,526	17,977	363
2013	1,675	2,972	564	359	2,192	164	757	2,784	272	770	7,036	109	- -	- -	- -	3,561	14,984	238
2014	1,269	2,199	577	337	1,911	176	1,640	4,042	406	426	6,546	65	1,930	15,038	128	5,602	29,736	188
Total	**38,959**			**7,384**			**15,802**			**3,748**			**1,930**			**67,823**		

Notes:
[1]=Mass removed in pounds.
[2] = Extraction rate in gallons per minute.
gpm = gallons per minute.

FIGURES





EXPLANATION

- Approximate BPOU boundary
- Extent of BPOU groundwater model

10,000 0 10,000

SCALE IN FEET

N

BPOU LOCATION MAP

Baldwin Park Operable Unit

San Gabriel Valley, California

Geosyntec consultants

Project No.: SAC150

Figure 1-1

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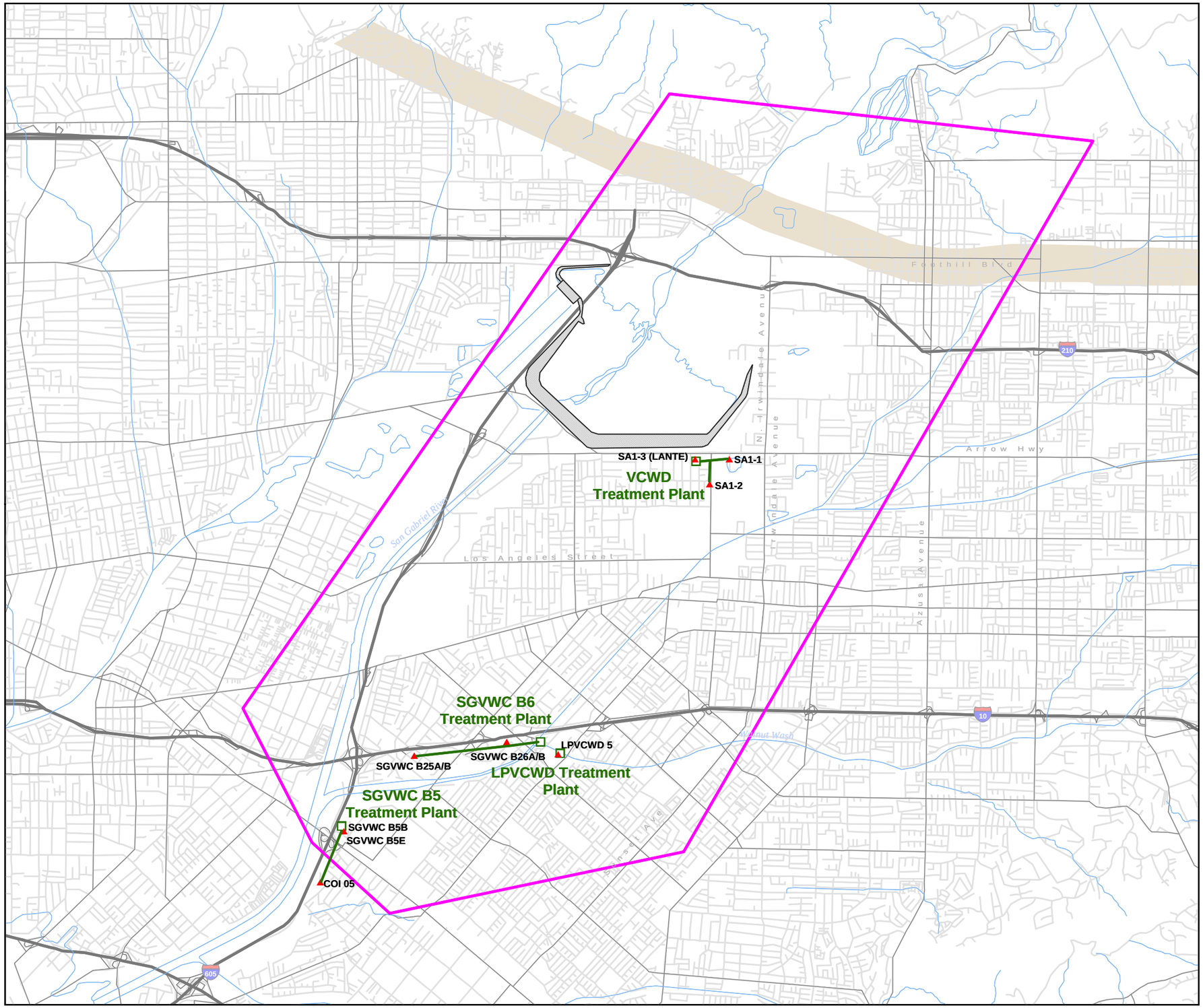

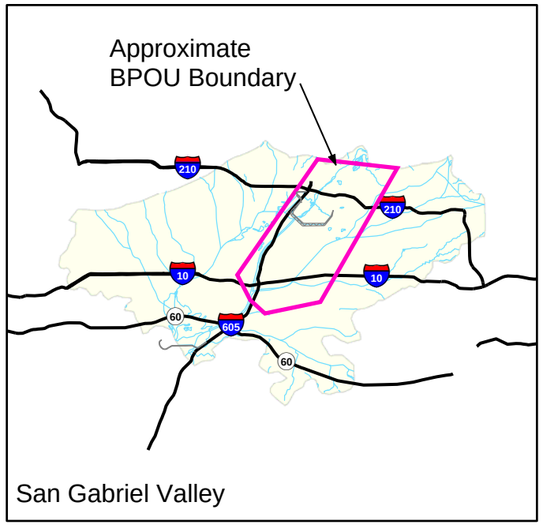

EXPLANATION

- Extraction well
- Treatment plant
- Raw water pipeline
- Approximate BPOU boundary
- Duarte Fault Zone

5,000 0 5,000

SCALE IN FEET

N

BPOU EXTRACTION WELL, RAW WATER PIPEPLINE, AND TREATMENT PLANT LOCATION MAP

Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Project No.: SAC150

Figure **1-2**

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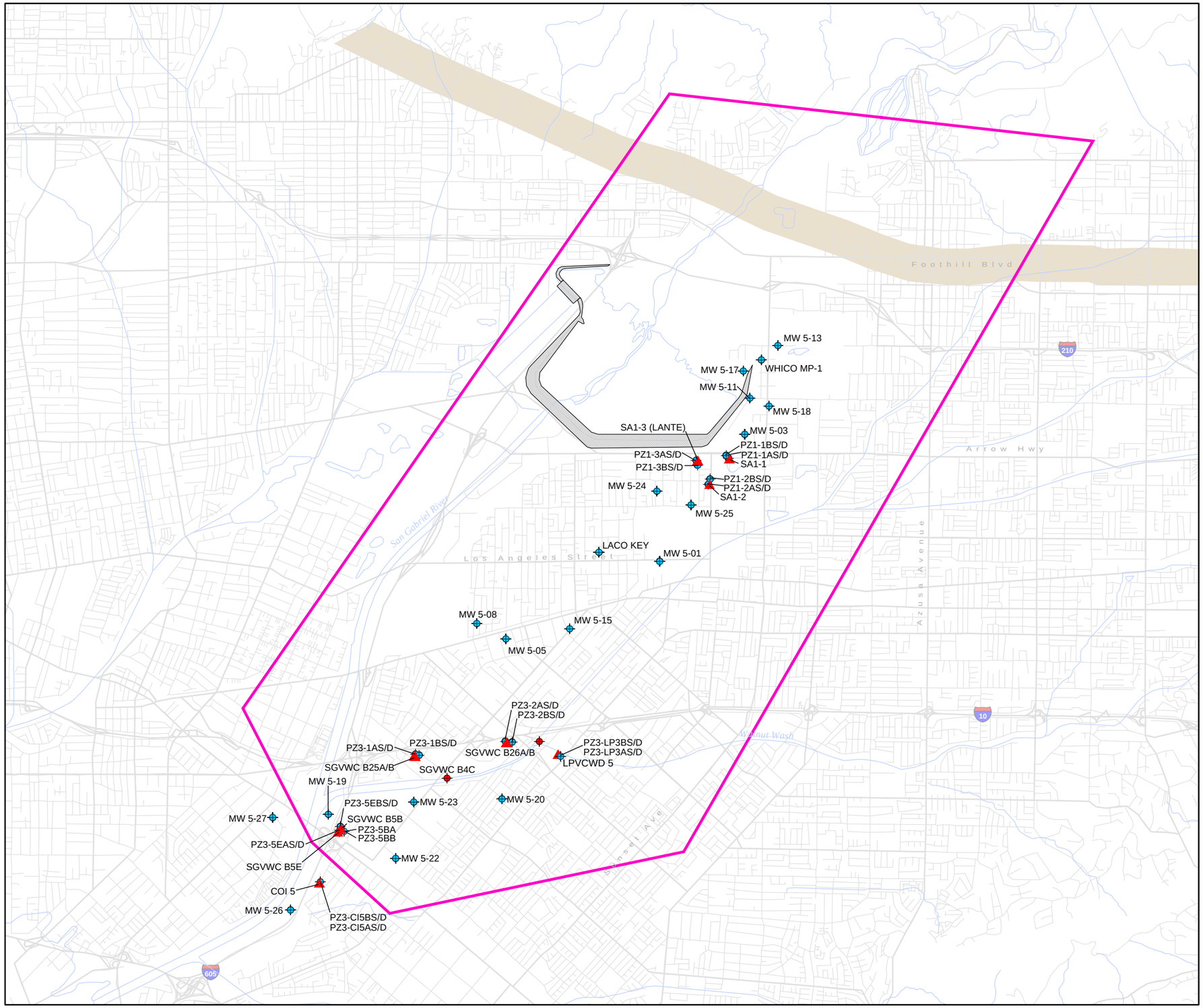

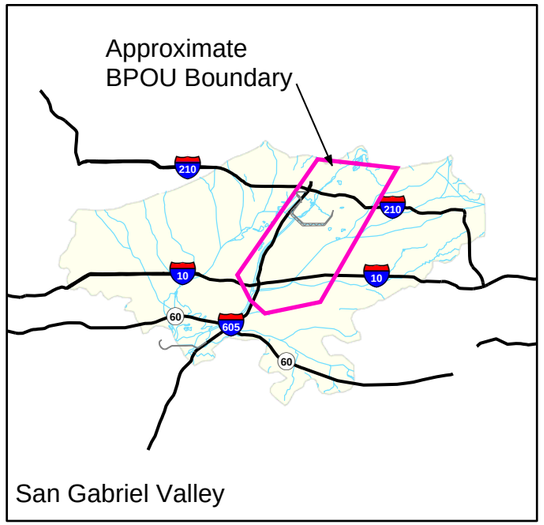

EXPLANATION

- Multiport or monitoring well
- Extraction well
- Production well
- Approximate BPOU boundary
- Duarte Fault Zone

5,000 0 5,000

SCALE IN FEET

N

BPOU POTENTIOMETRIC MONITORING NETWORK

Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Project No.: SAC150

Figure **3-1**

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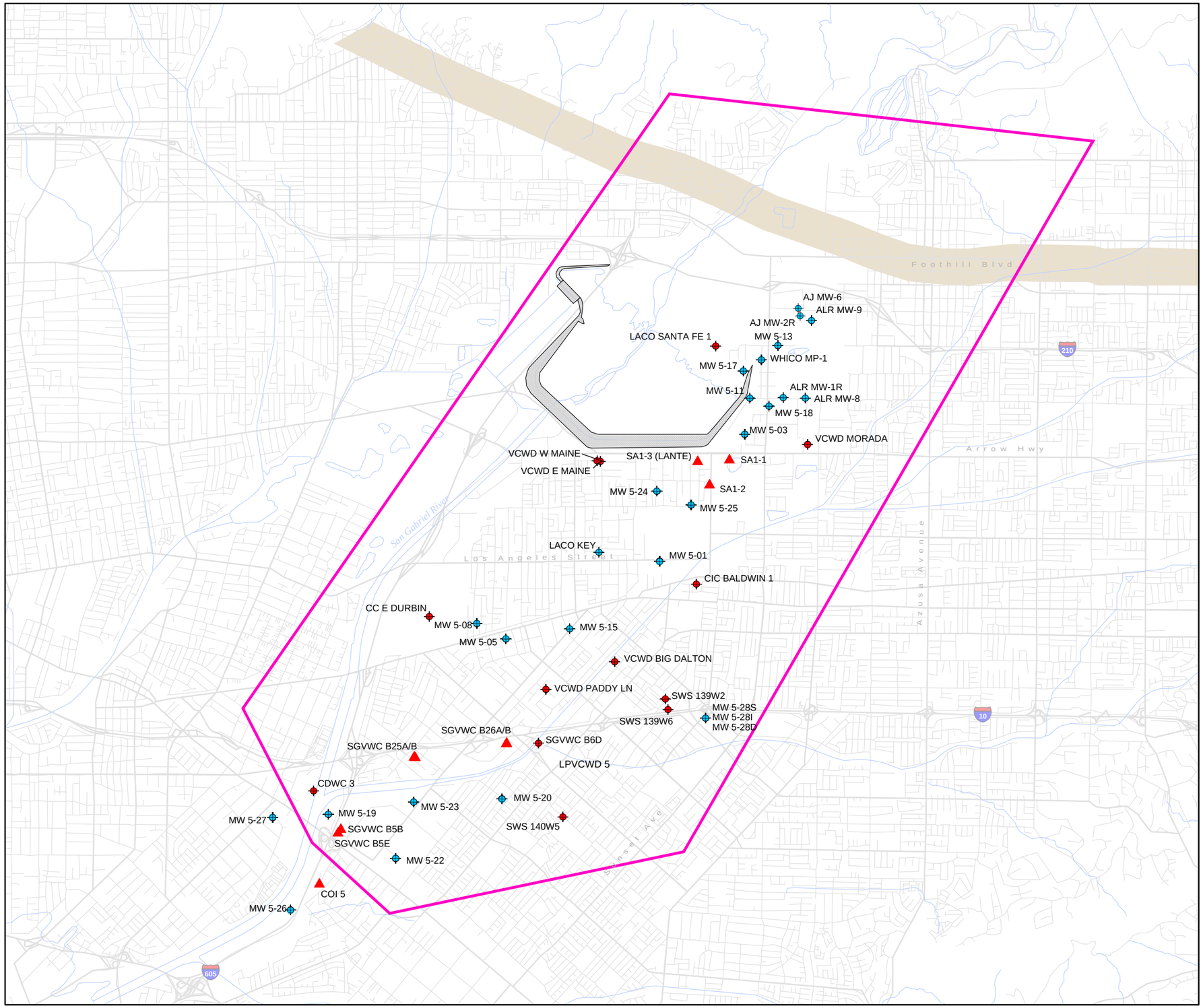

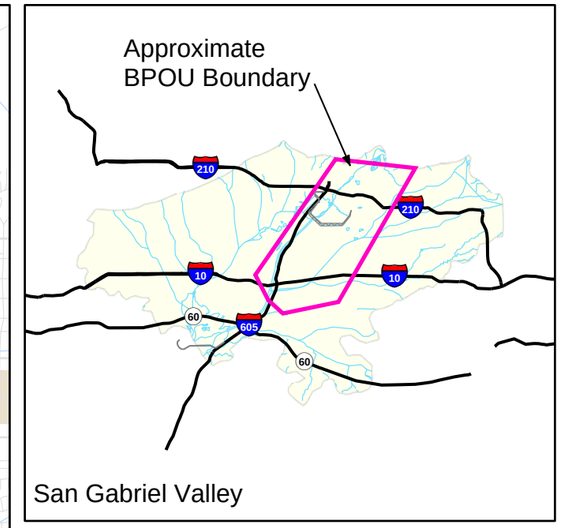

EXPLANATION

- Multiport or monitoring well
- Extraction well
- Production well
- Approximate BPOU boundary
- Duarte Fault Zone

5,000 0 5,000

SCALE IN FEET

N

BPOU GROUNDWATER QUALITY MONITORING NETWORK

Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Project No.: SAC150

Figure 3-2

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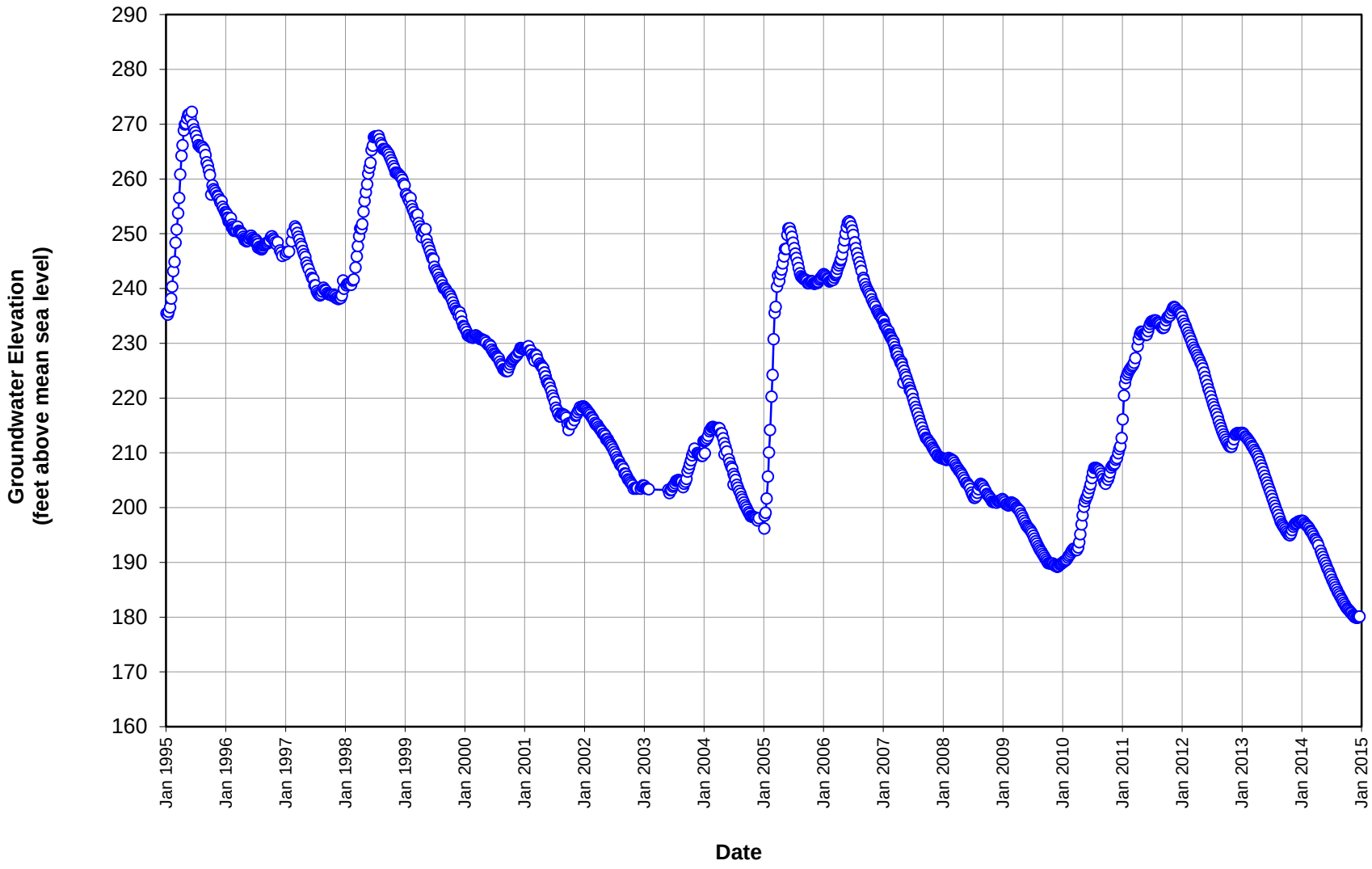

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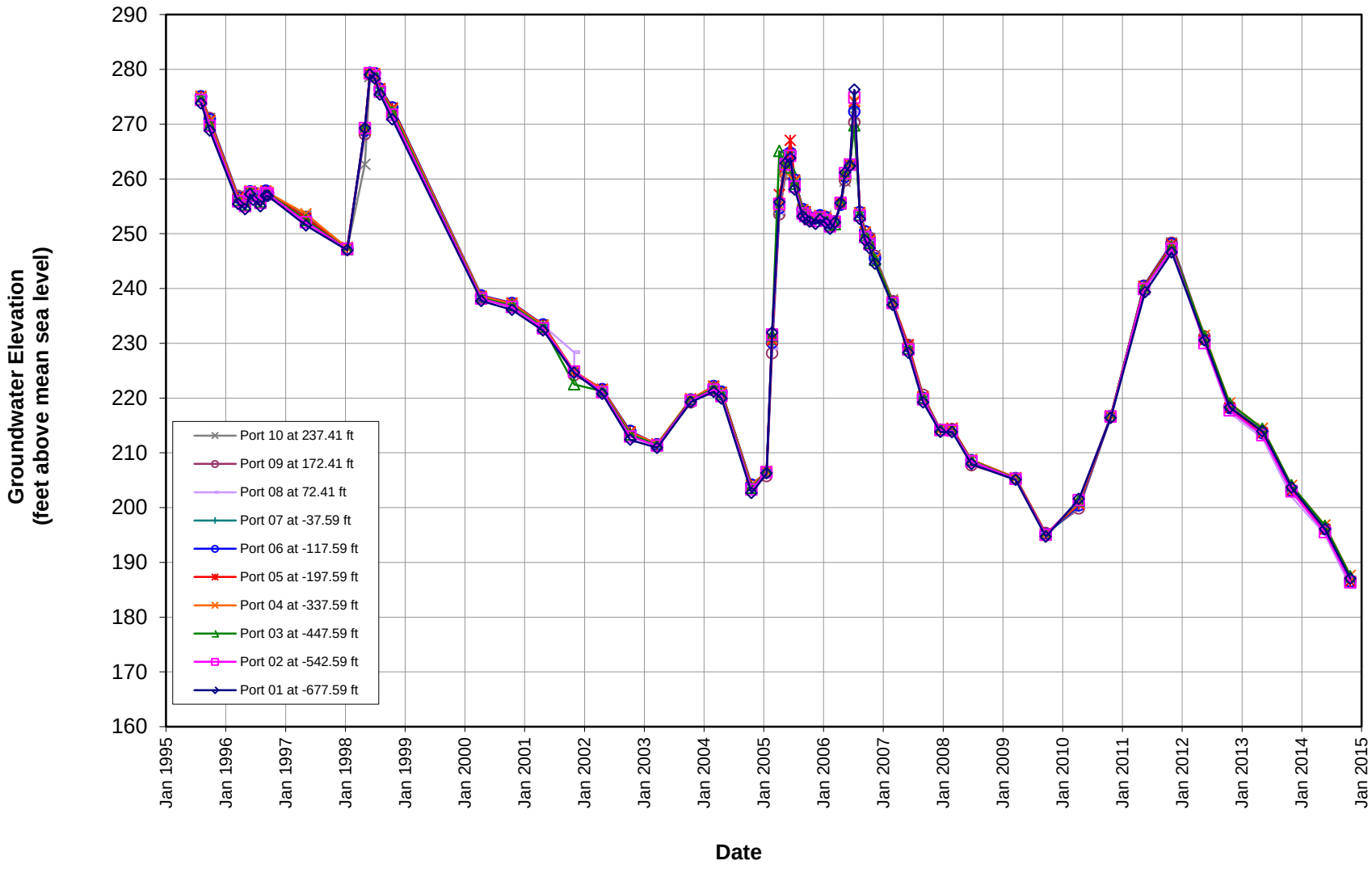
LACO KEY WELL HYDROGRAPH
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No. SAC150

Figure **5-1**



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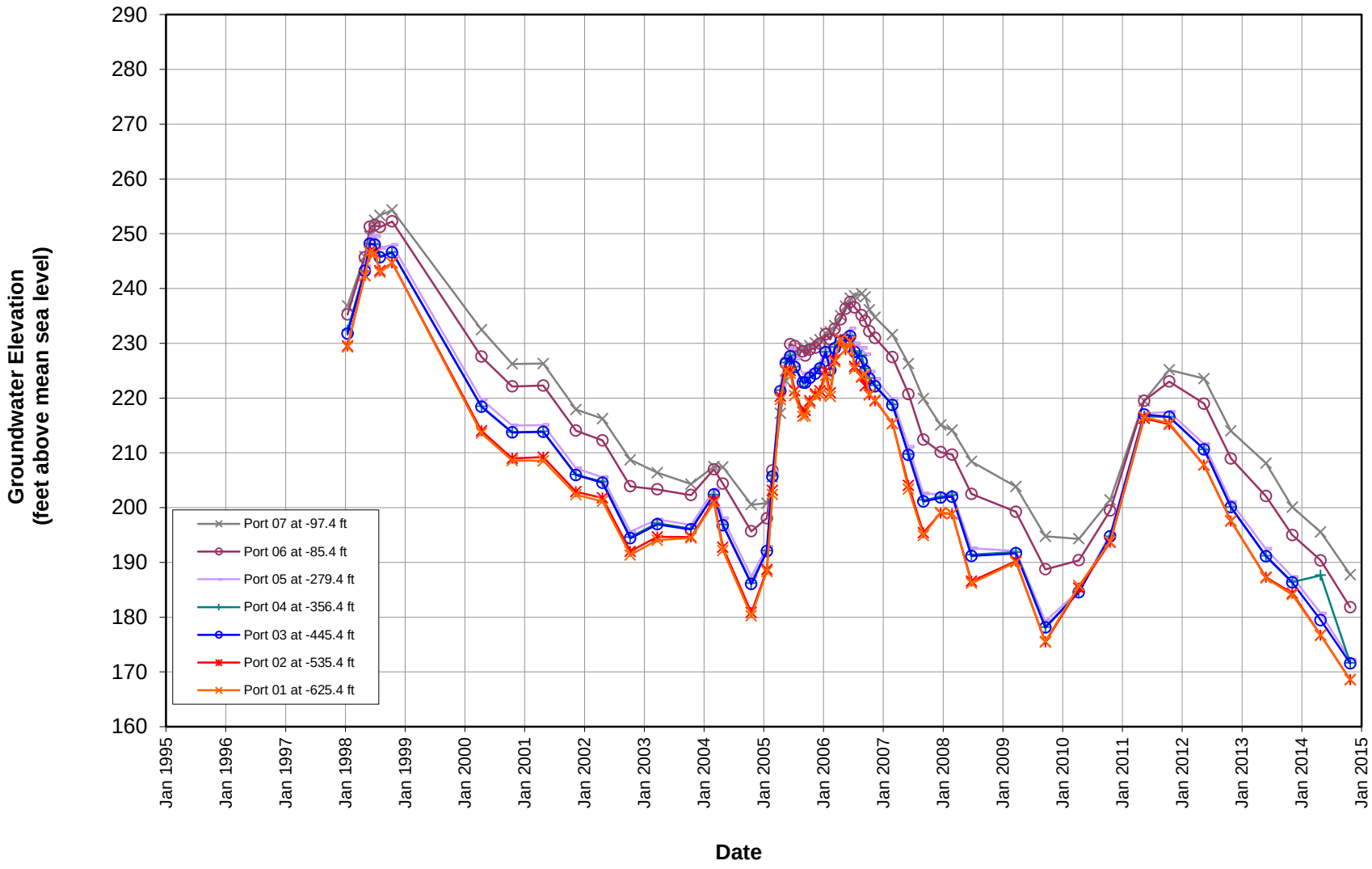
MW 5-03 WELL HYDROGRAPH
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No. SAC150

Figure **5-2**



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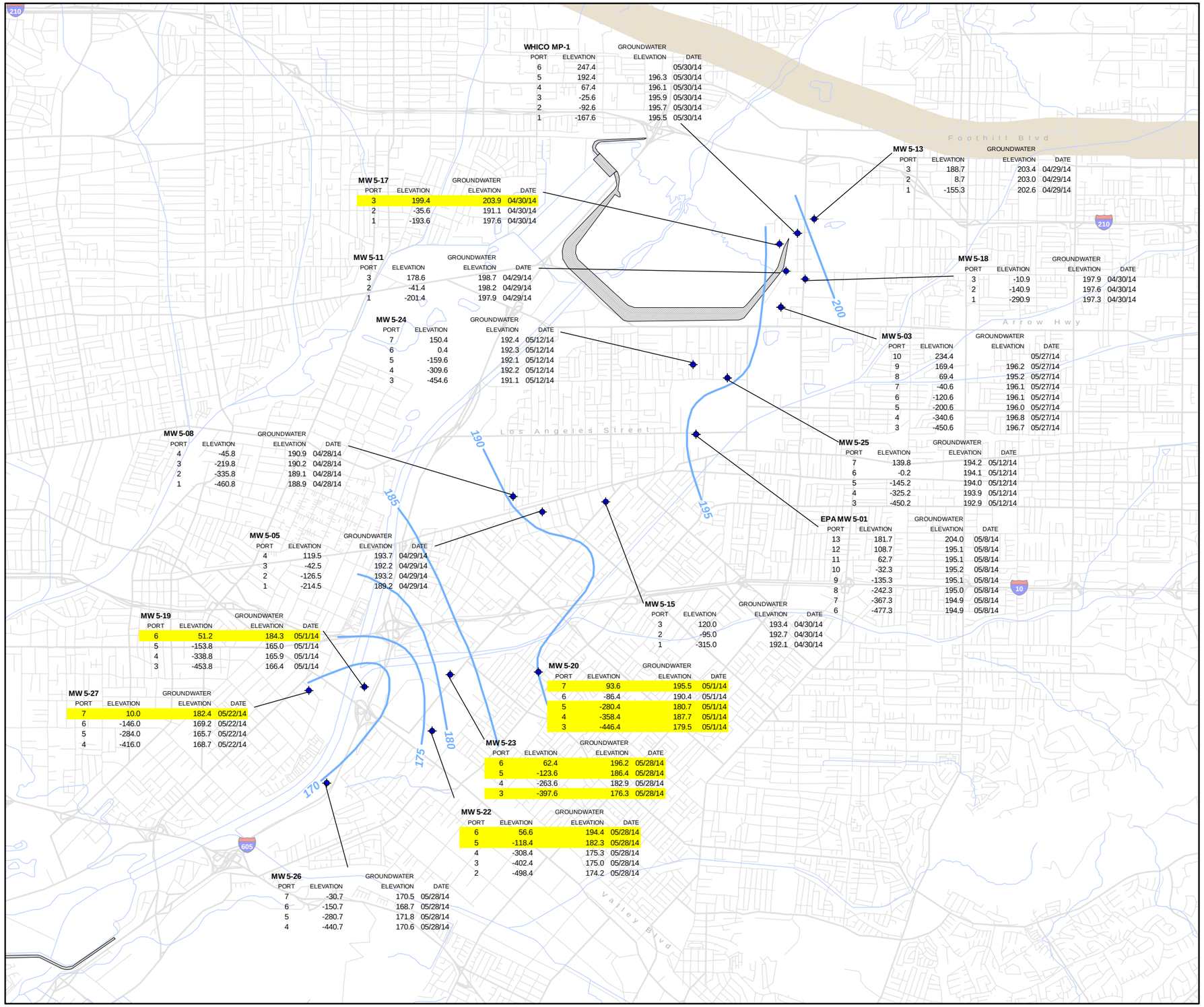
MW 5-20 WELL HYDROGRAPH
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No. SAC150

Figure **5-3**



WHICO MP-1

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
6	247.4		05/30/14
5	192.4	196.3	05/30/14
4	67.4	196.1	05/30/14
3	-25.6	195.9	05/30/14
2	-92.6	195.7	05/30/14
1	-167.6	195.5	05/30/14

MW 5-17

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	199.4	203.9	04/30/14
2	-35.6	191.1	04/30/14
1	-193.6	197.6	04/30/14

MW 5-11

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	178.6	198.7	04/29/14
2	-41.4	198.2	04/29/14
1	-201.4	197.9	04/29/14

MW 5-24

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	150.4	192.4	05/12/14
6	0.4	192.3	05/12/14
5	-159.6	192.1	05/12/14
4	-309.6	192.2	05/12/14
3	-454.6	191.1	05/12/14

MW 5-08

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
4	-45.8	190.9	04/28/14
3	-219.8	190.2	04/28/14
2	-335.8	189.1	04/28/14
1	-460.8	188.9	04/28/14

MW 5-05

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
4	119.5	193.7	04/29/14
3	-42.5	192.2	04/29/14
2	-126.5	193.2	04/29/14
1	-214.5	189.2	04/29/14

MW 5-19

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
6	51.2	184.3	05/1/14
5	-153.8	165.0	05/1/14
4	-338.8	165.9	05/1/14
3	-453.8	166.4	05/1/14

MW 5-27

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	10.0	182.4	05/22/14
6	-146.0	169.2	05/22/14
5	-284.0	165.7	05/22/14
4	-416.0	168.7	05/22/14

MW 5-26

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	-30.7	170.5	05/28/14
6	-150.7	168.7	05/28/14
5	-280.7	171.8	05/28/14
4	-440.7	170.6	05/28/14

MW 5-13

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	188.7	203.4	04/29/14
2	8.7	203.0	04/29/14
1	-155.3	202.6	04/29/14

MW 5-18

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	-10.9	197.9	04/30/14
2	-140.9	197.6	04/30/14
1	-290.9	197.3	04/30/14

MW 5-03

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
10	234.4		05/27/14
9	169.4	196.2	05/27/14
8	69.4	195.2	05/27/14
7	-40.6	196.1	05/27/14
6	-120.6	196.1	05/27/14
5	-200.6	196.0	05/27/14
4	-340.6	196.8	05/27/14
3	-450.6	196.7	05/27/14

MW 5-25

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	139.8	194.2	05/12/14
6	-0.2	194.1	05/12/14
5	-145.2	194.0	05/12/14
4	-325.2	193.9	05/12/14
3	-450.2	192.9	05/12/14

EPA MW 5-01

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
13	181.7	204.0	05/8/14
12	108.7	195.1	05/8/14
11	62.7	195.1	05/8/14
10	-32.3	195.2	05/8/14
9	-135.3	195.1	05/8/14
8	-242.3	195.0	05/8/14
7	-367.3	194.9	05/8/14
6	-477.3	194.9	05/8/14

MW 5-15

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	120.0	193.4	04/30/14
2	-95.0	192.7	04/30/14
1	-315.0	192.1	04/30/14

MW 5-20

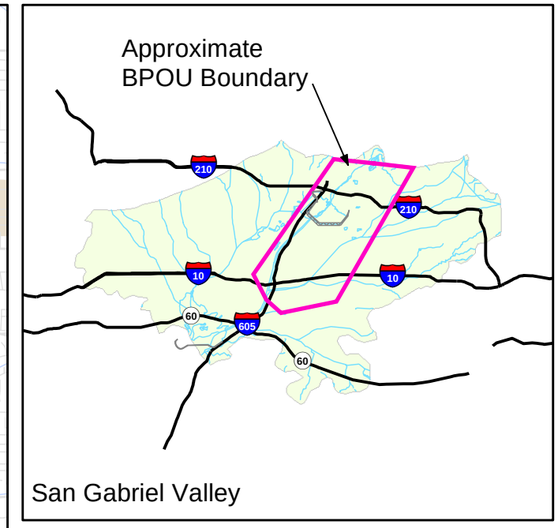
PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	93.6	195.5	05/1/14
6	-86.4	190.4	05/1/14
5	-280.4	180.7	05/1/14
4	-358.4	187.7	05/1/14
3	-446.4	179.5	05/1/14

MW 5-23

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
6	62.4	196.2	05/28/14
5	-123.6	186.4	05/28/14
4	-263.6	182.9	05/28/14
3	-397.6	176.3	05/28/14

MW 5-22

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
6	56.6	194.4	05/28/14
5	-118.4	182.3	05/28/14
4	-308.4	175.3	05/28/14
3	-402.4	175.0	05/28/14
2	-498.4	174.2	05/28/14



EXPLANATION

Multiport well used in contouring

–200– Potentiometric surface contour (elevation in feet above mean sea level) Contour interval 5 feet

Duarte Fault Zone

NOTES:

1. The potentiometric contours shown represent interpreted groundwater elevations based on water levels measured in the wells during April and May 2014 as part of the Performance Standards Evaluation Plan. The interpreted contours should not be assumed to represent the precise groundwater elevation at any point along the contour line.

2. Highlighted groundwater elevations were not considered in contouring due to significant vertical differences in groundwater elevations measured in adjacent ports. In these situations, groundwater elevations measured in intermediate depth ports were more heavily weighted in contouring.

5,000 0 5,000

SCALE IN FEET

N

GENERALIZED SPRING 2014 POTENTIOMETRIC SURFACE ABOVE -500 FEET MSL

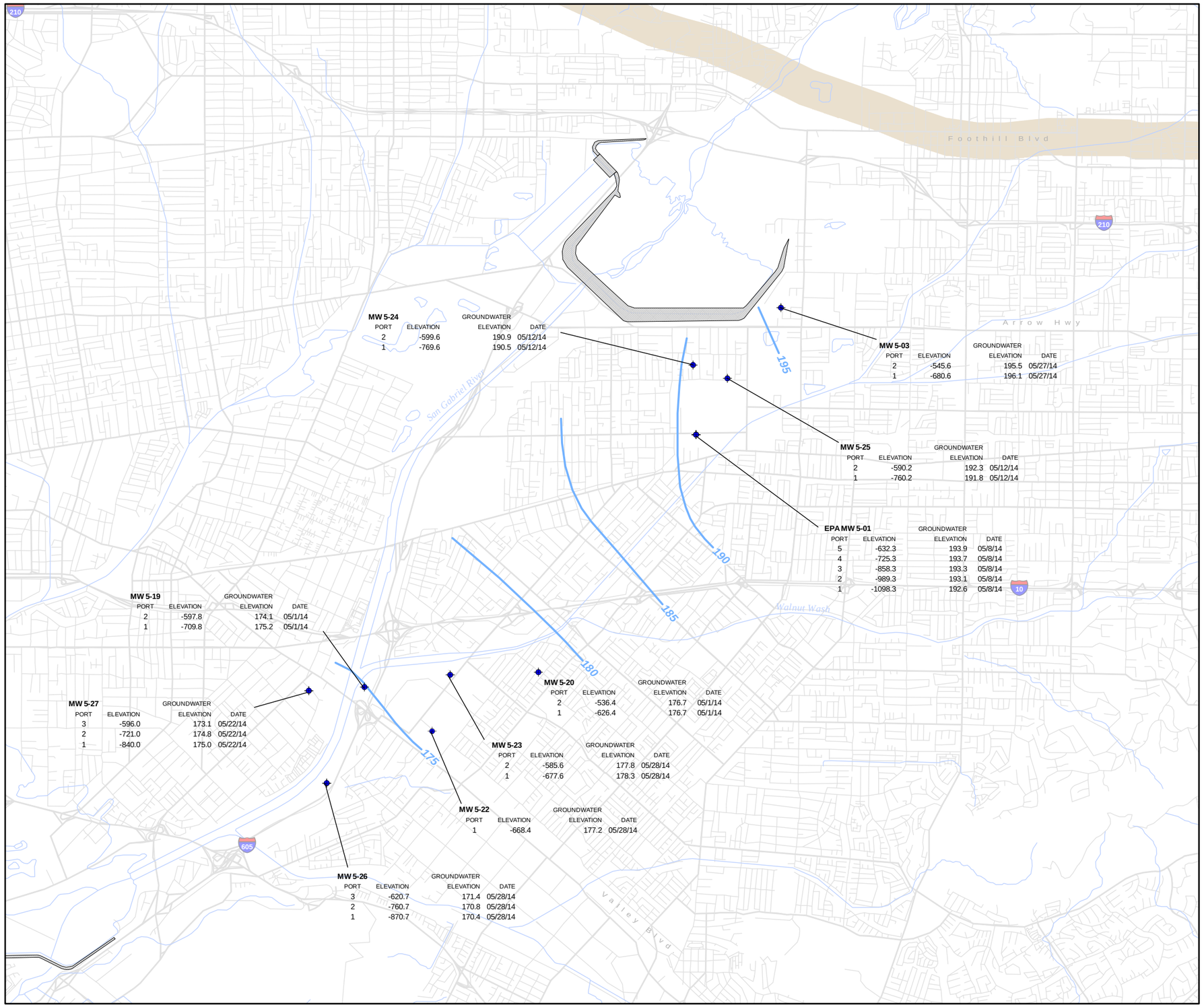
Baldwin Park Operable Unit
San Gabriel Valley, California

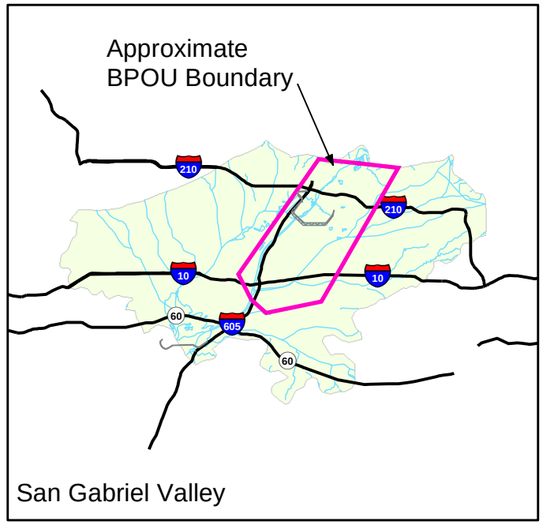
Geosyntec consultants

Project No.: SAC150

Figure **5-4**

Path: P:\GIS\SAC150_BPOU\Figures\GIS\Volume 1\5-04_SPRING_GW_Elevations_above_-500MSL.mxd





EXPLANATION

Multiport well used in contouring

–200– Potentiometric surface contour (elevation in feet above mean sea level) Contour interval 5 feet

Duarte Fault Zone

NOTES:

1. The potentiometric contours shown represent interpreted groundwater elevations based on water levels measured in the wells during April and May 2014 as part of the Performance Standards Evaluation Plan. The interpreted contours should not be assumed to represent the precise groundwater elevation at any point along the contour line.

5,000 0 5,000

SCALE IN FEET

N

GENERALIZED SPRING 2014 POTENTIOMETRIC SURFACE BELOW -500 FEET MSL

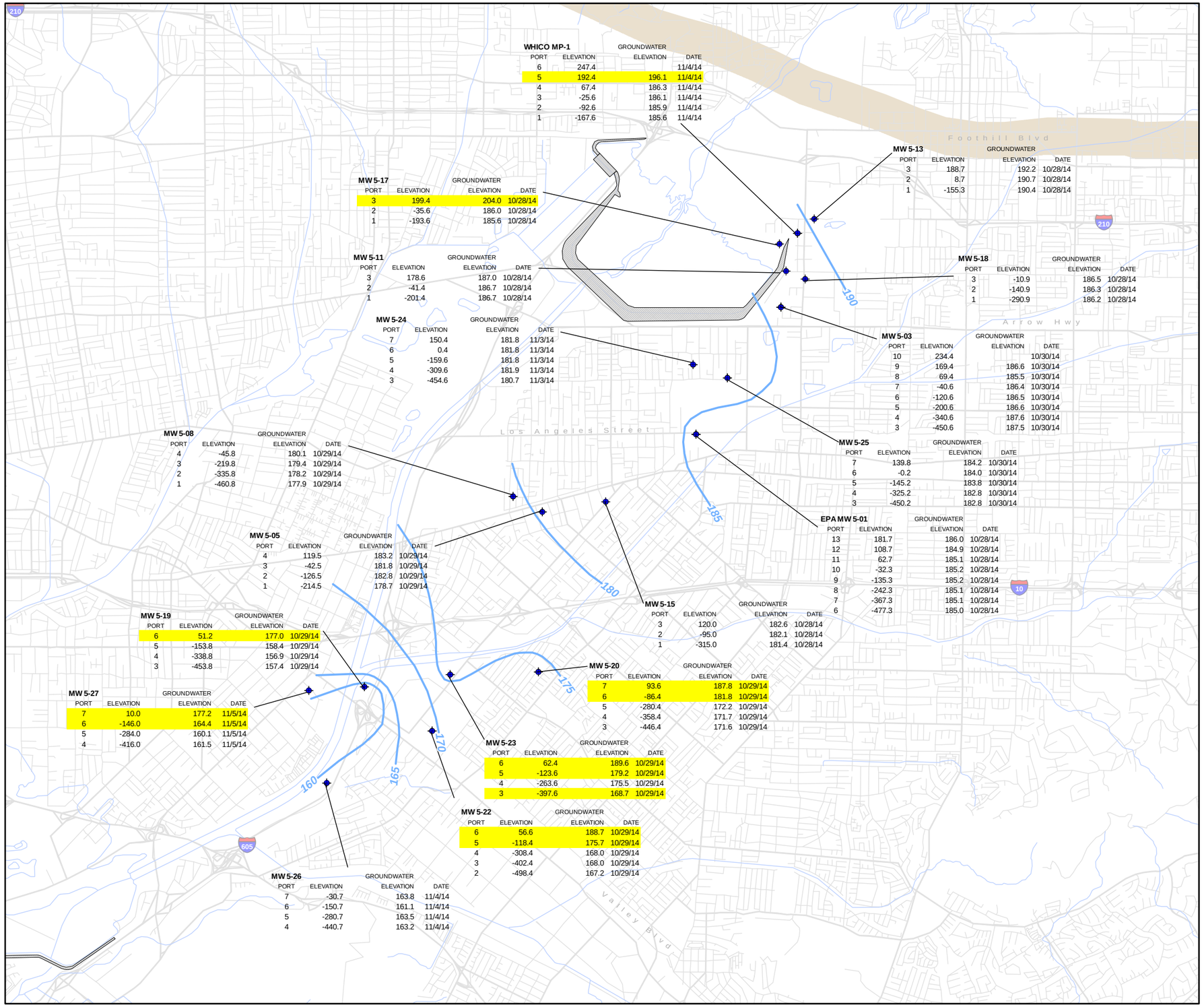
Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Project No.: SAC150

Figure **5-5**

Path: P:\GIS\SAC150_BPOU\Figures\GIS\Volume 115-05_SPRING_GW_Elevations_below_-500MSL.mxd



WHICO MP-1

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
6	247.4		11/4/14
5	192.4	196.1	11/4/14
4	67.4	186.3	11/4/14
3	-25.6	186.1	11/4/14
2	-92.6	185.9	11/4/14
1	-167.6	185.6	11/4/14

MW 5-13

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	188.7	192.2	10/28/14
2	8.7	190.7	10/28/14
1	-155.3	190.4	10/28/14

MW 5-17

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	199.4	204.0	10/28/14
2	-35.6	186.0	10/28/14
1	-193.6	185.6	10/28/14

MW 5-11

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	178.6	187.0	10/28/14
2	-41.4	186.7	10/28/14
1	-201.4	186.7	10/28/14

MW 5-18

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	-10.9	186.5	10/28/14
2	-140.9	186.3	10/28/14
1	-290.9	186.2	10/28/14

MW 5-24

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	150.4	181.8	11/3/14
6	0.4	181.8	11/3/14
5	-159.6	181.8	11/3/14
4	-309.6	181.9	11/3/14
3	-454.6	180.7	11/3/14

MW 5-03

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
10	234.4		10/30/14
9	169.4	186.6	10/30/14
8	69.4	185.5	10/30/14
7	-40.6	186.4	10/30/14
6	-120.6	186.5	10/30/14
5	-200.6	186.6	10/30/14
4	-340.6	187.6	10/30/14
3	-450.6	187.5	10/30/14

MW 5-08

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
4	-45.8	180.1	10/29/14
3	-219.8	179.4	10/29/14
2	-335.8	178.2	10/29/14
1	-460.8	177.9	10/29/14

MW 5-25

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	139.8	184.2	10/30/14
6	-0.2	184.0	10/30/14
5	-145.2	183.8	10/30/14
4	-325.2	182.8	10/30/14
3	-450.2	182.8	10/30/14

EPA MW 5-01

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
13	181.7	186.0	10/28/14
12	108.7	184.9	10/28/14
11	62.7	185.1	10/28/14
10	-32.3	185.2	10/28/14
9	-135.3	185.2	10/28/14
8	-242.3	185.1	10/28/14
7	-367.3	185.1	10/28/14
6	-477.3	185.0	10/28/14

MW 5-05

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
4	119.5	183.2	10/29/14
3	-42.5	181.8	10/29/14
2	-126.5	182.8	10/29/14
1	-214.5	178.7	10/29/14

MW 5-15

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	120.0	182.6	10/28/14
2	-95.0	182.1	10/28/14
1	-315.0	181.4	10/28/14

MW 5-19

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
6	51.2	177.0	10/29/14
5	-153.8	158.4	10/29/14
4	-338.8	156.9	10/29/14
3	-453.8	157.4	10/29/14

MW 5-20

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	93.6	187.8	10/29/14
6	-86.4	181.8	10/29/14
5	-280.4	172.2	10/29/14
4	-358.4	171.7	10/29/14
3	-446.4	171.6	10/29/14

MW 5-27

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	10.0	177.2	11/5/14
6	-146.0	164.4	11/5/14
5	-284.0	160.1	11/5/14
4	-416.0	161.5	11/5/14

MW 5-23

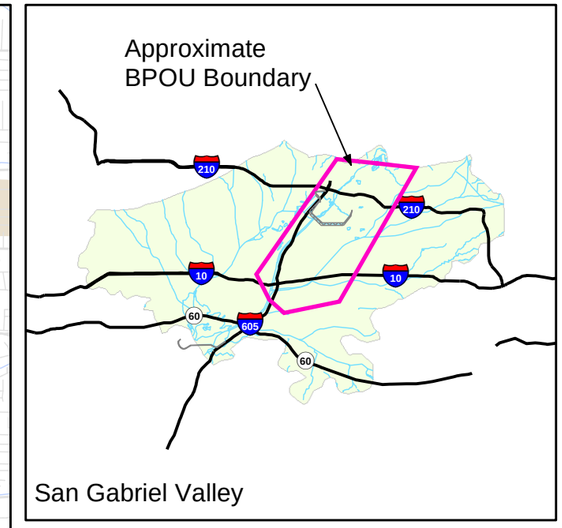
PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
6	62.4	189.6	10/29/14
5	-123.6	179.2	10/29/14
4	-263.6	175.5	10/29/14
3	-397.6	168.7	10/29/14

MW 5-22

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
6	56.6	188.7	10/29/14
5	-118.4	175.7	10/29/14
4	-308.4	168.0	10/29/14
3	-402.4	168.0	10/29/14
2	-498.4	167.2	10/29/14

MW 5-26

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	-30.7	163.8	11/4/14
6	-150.7	161.1	11/4/14
5	-280.7	163.5	11/4/14
4	-440.7	163.2	11/4/14



EXPLANATION

Multiport well used in contouring

–200– Potentiometric surface contour (elevation in feet above mean sea level) Contour interval 5 feet

Duarte Fault Zone

NOTES:

1. The potentiometric contours shown represent interpreted groundwater elevations based on water levels measured in the wells during October and November 2014 as part of the Performance Standards Evaluation Plan. The interpreted contours should not be assumed to represent the precise groundwater elevation at any point along the contour line.

2. Highlighted groundwater elevations were not considered in contouring due to significant vertical differences in groundwater elevations measured in adjacent ports. In these situations, groundwater elevations measured in intermediate depth ports were more heavily weighted in contouring.

5,000 0 5,000

SCALE IN FEET

N

GENERALIZED FALL 2014
POTENTIOMETRIC SURFACE
ABOVE -500 FEET MSL

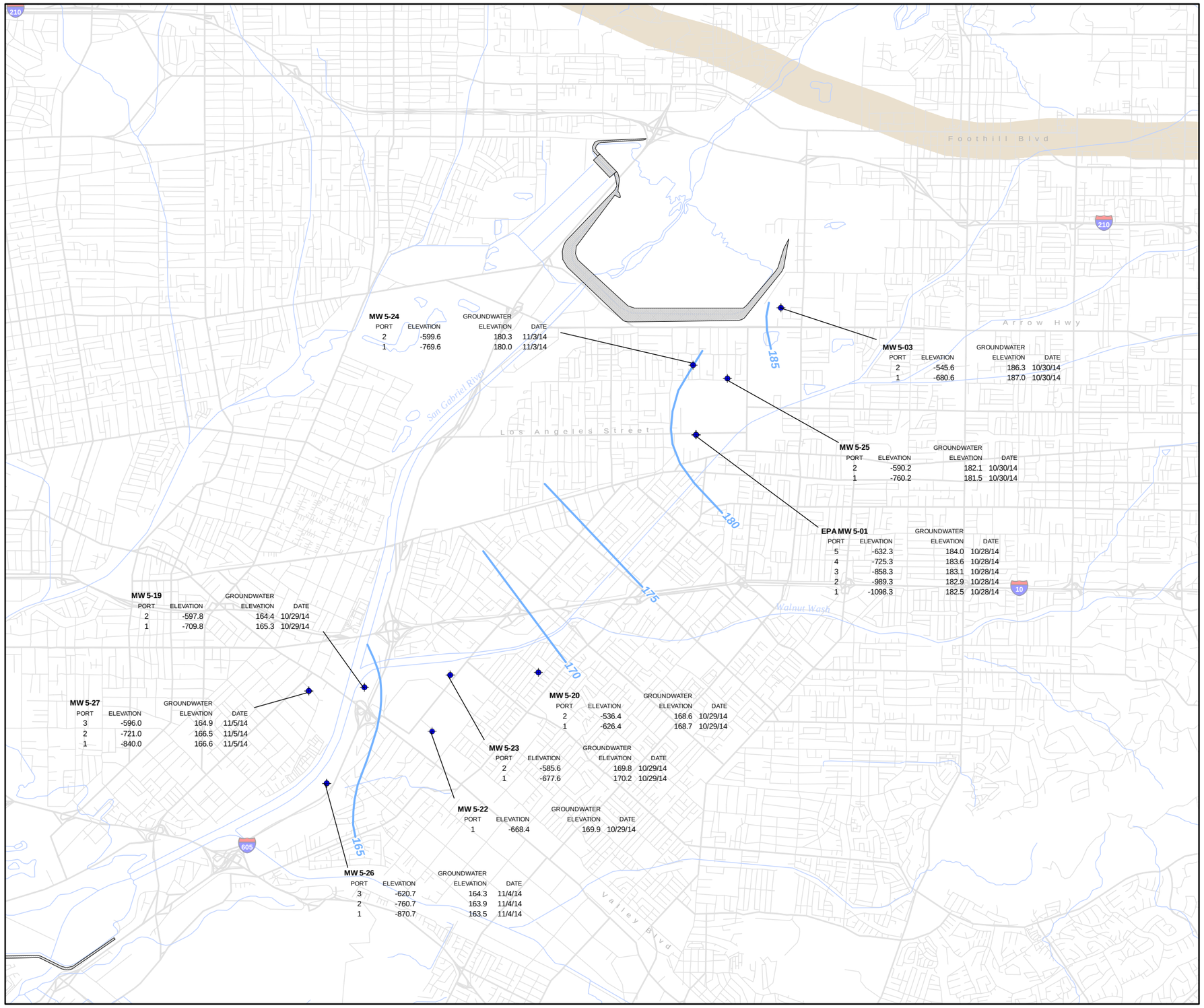
Baldwin Park Operable Unit
San Gabriel Valley, California

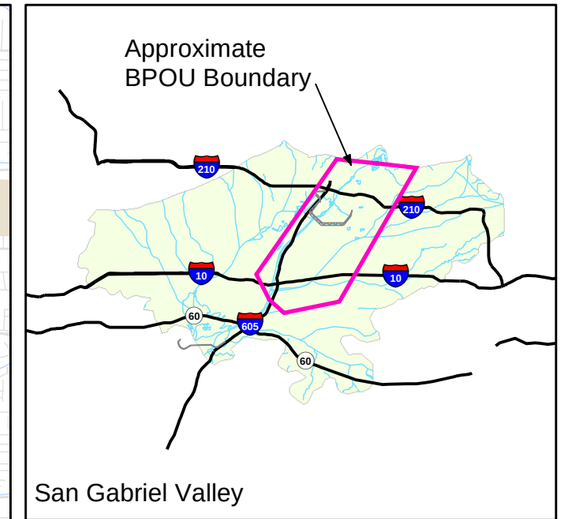
Geosyntec consultants

Project No.: SAC150

Figure 5-6

Path: P:\GIS\SAC150_BPOU\Figures\GIS\Volume 115-06_FALL_GW_Elevations_above_-500MSL.mxd





EXPLANATION

Multiport well used in contouring

–200– Potentiometric surface contour (elevation in feet above mean sea level) Contour interval 5 feet

Duarte Fault Zone

NOTES:

1. The potentiometric contours shown represent interpreted groundwater elevations based on water levels measured in the wells during October and November 2014 as part of the Performance Standards Evaluation Plan. The interpreted contours should not be assumed to represent the precise groundwater elevation at any point along the contour line.

5,000 0 5,000

SCALE IN FEET

N

GENERALIZED FALL 2014 POTENTIOMETRIC SURFACE BELOW -500 FEET MSL

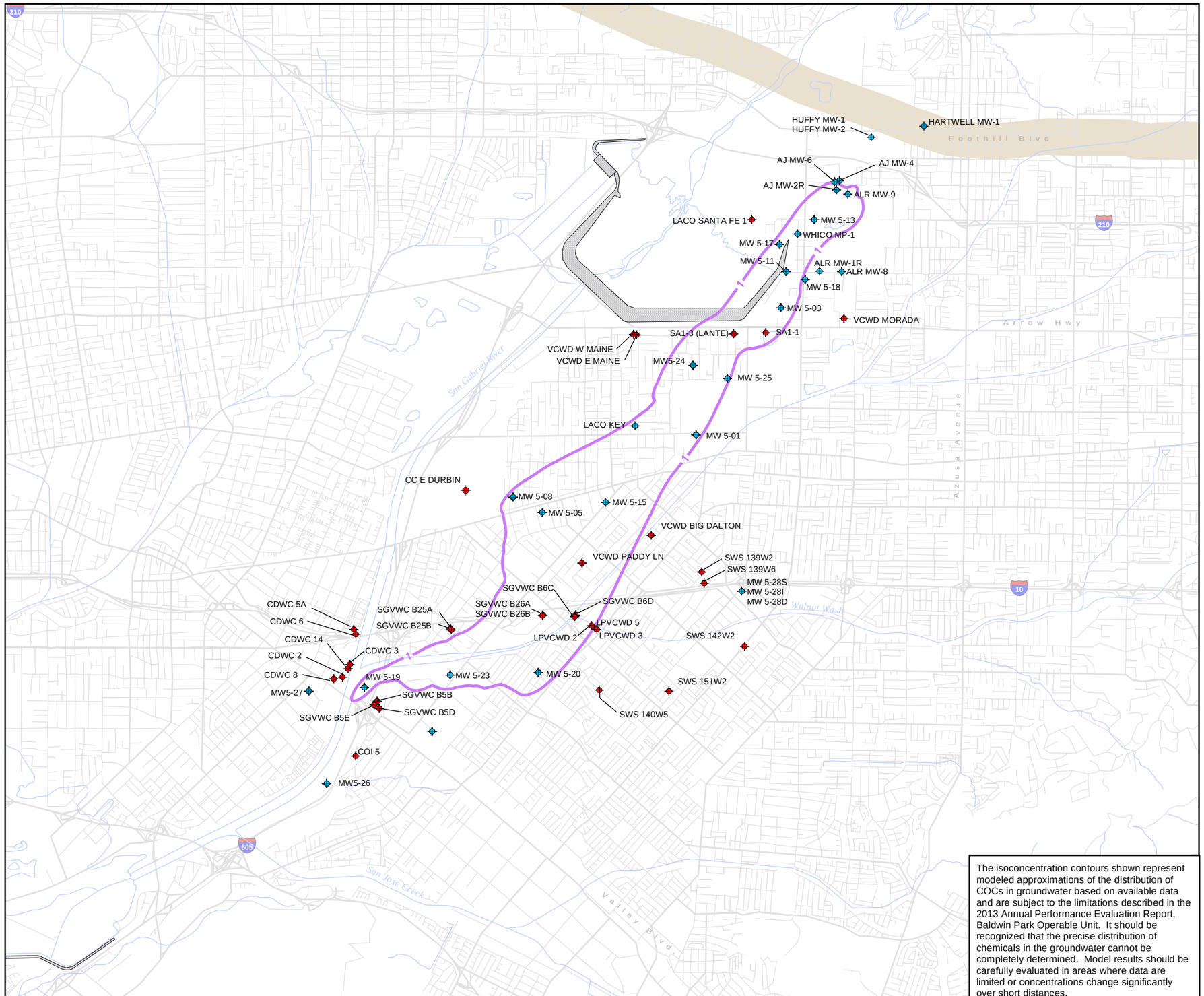
Baldwin Park Operable Unit
San Gabriel Valley, California

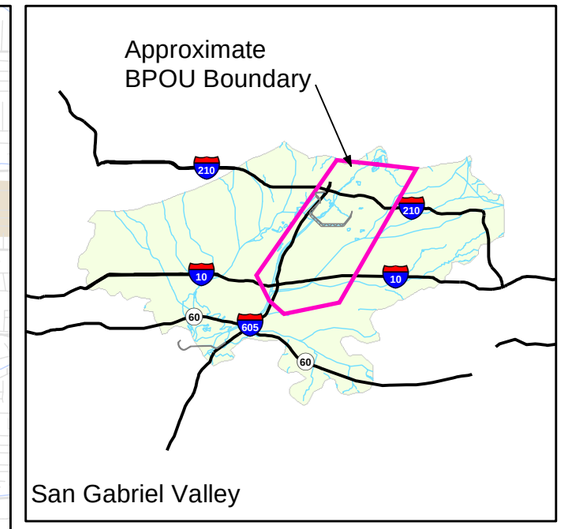
Geosyntec consultants

Project No.: SAC150

Figure **5-7**

Path: P:\GIS\SAC150_BPOU\Figures\GIS\Volume 1\5-07_FALL_GW_Elevations_below_-500MSL.mxd





EXPLANATION

- Production well
- Monitoring or multiport well
- 1,4-Dioxane isoconcentration contour (1 ug/L)
- Duarte Fault Zone

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. The isoconcentration contours represent the estimated maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision®.

5,000 0 5,000

SCALE IN FEET

N

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2013 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

GENERALIZED DISTRIBUTION OF 1,4-DIOXANE IN GROUNDWATER, 2014

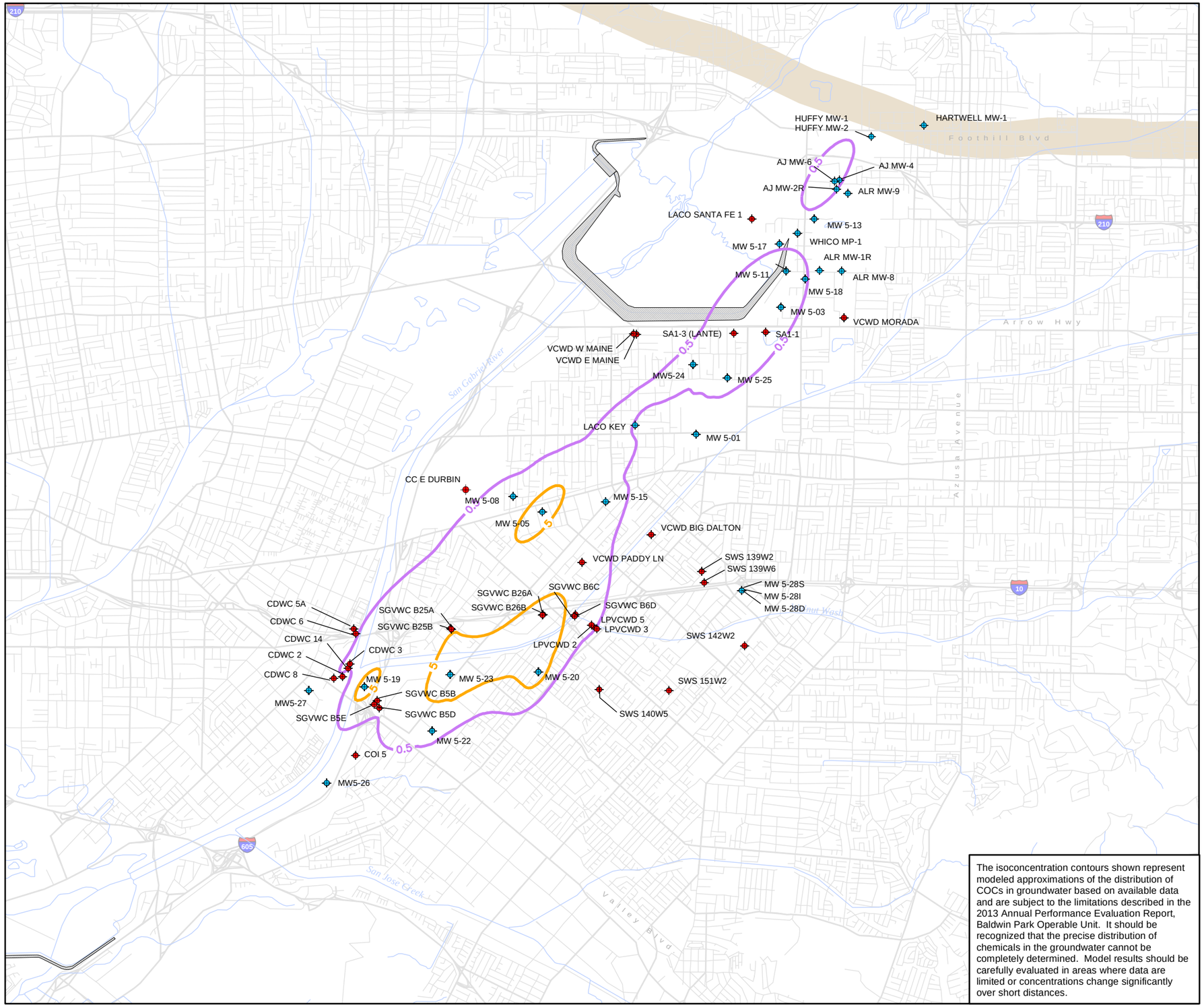
Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

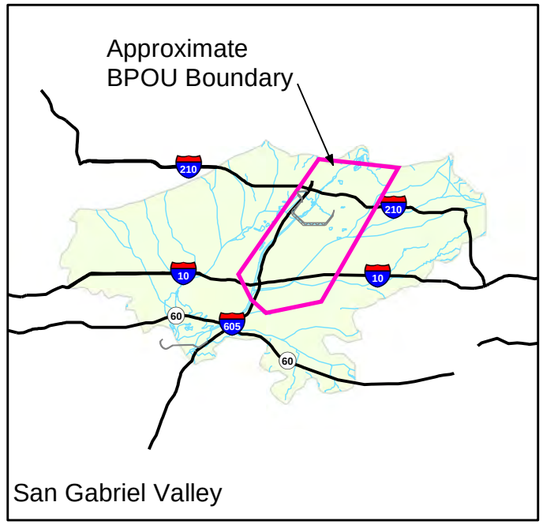
Project No.: SAC150

Figure **5-8**

Path: P:\GIS\SAC150_BPOU\Figures\GIS\Volume 115-08_Gen_Dist_14Dioxane.mxd



The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2013 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.



EXPLANATION

- Production well
- Monitoring or multiport well
- Carbon tetrachloride isoconcentration contour (0.5 ug/L)
- Carbon tetrachloride isoconcentration contour (5 ug/L)
- Duarte Fault Zone

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. The isoconcentration contours represent the estimated maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision®.

5,000 0 5,000

SCALE IN FEET

N

GENERALIZED DISTRIBUTION OF CARBON TETRACHLORIDE IN GROUNDWATER, 2014

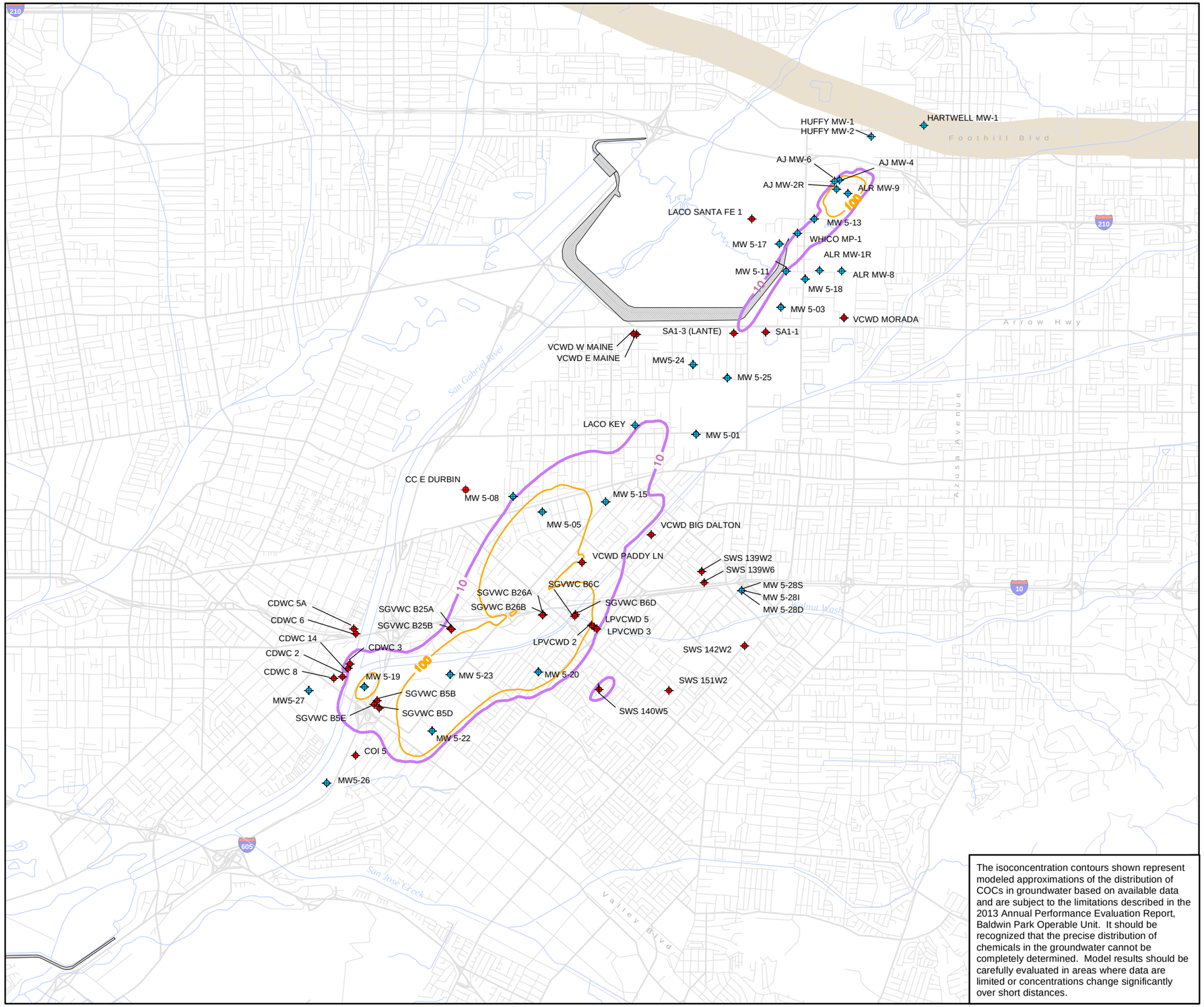
Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

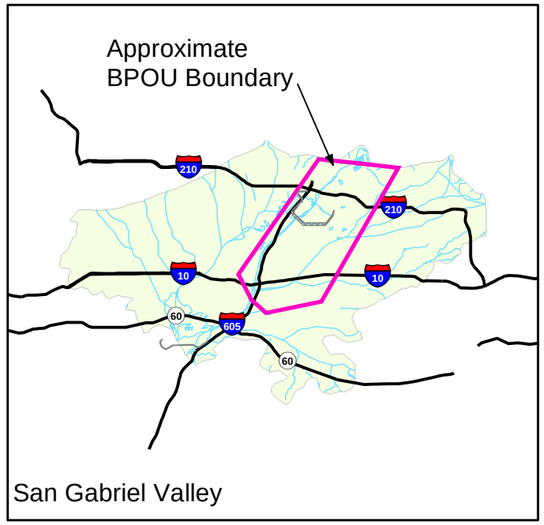
Project No.: SAC150

Figure 5-9

Path: P:\GIS\SAC150_BPOU\Figures\GIS\Volume 1\5-09_Gen_Dist_CTC.mxd



The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2013 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.



EXPLANATION

- Production well
- Monitoring or multiport well
- N-Nitrosodimethylamine isoconcentration contour (10 ng/L)
- N-Nitrosodimethylamine isoconcentration contour (100 ng/L)
- Duarte Fault Zone

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. The isoconcentration contours represent the estimated maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision®.

5,000 0 5,000

SCALE IN FEET

N

GENERALIZED DISTRIBUTION OF N-NITROSODIMETHYLAMINE IN GROUNDWATER, 2014

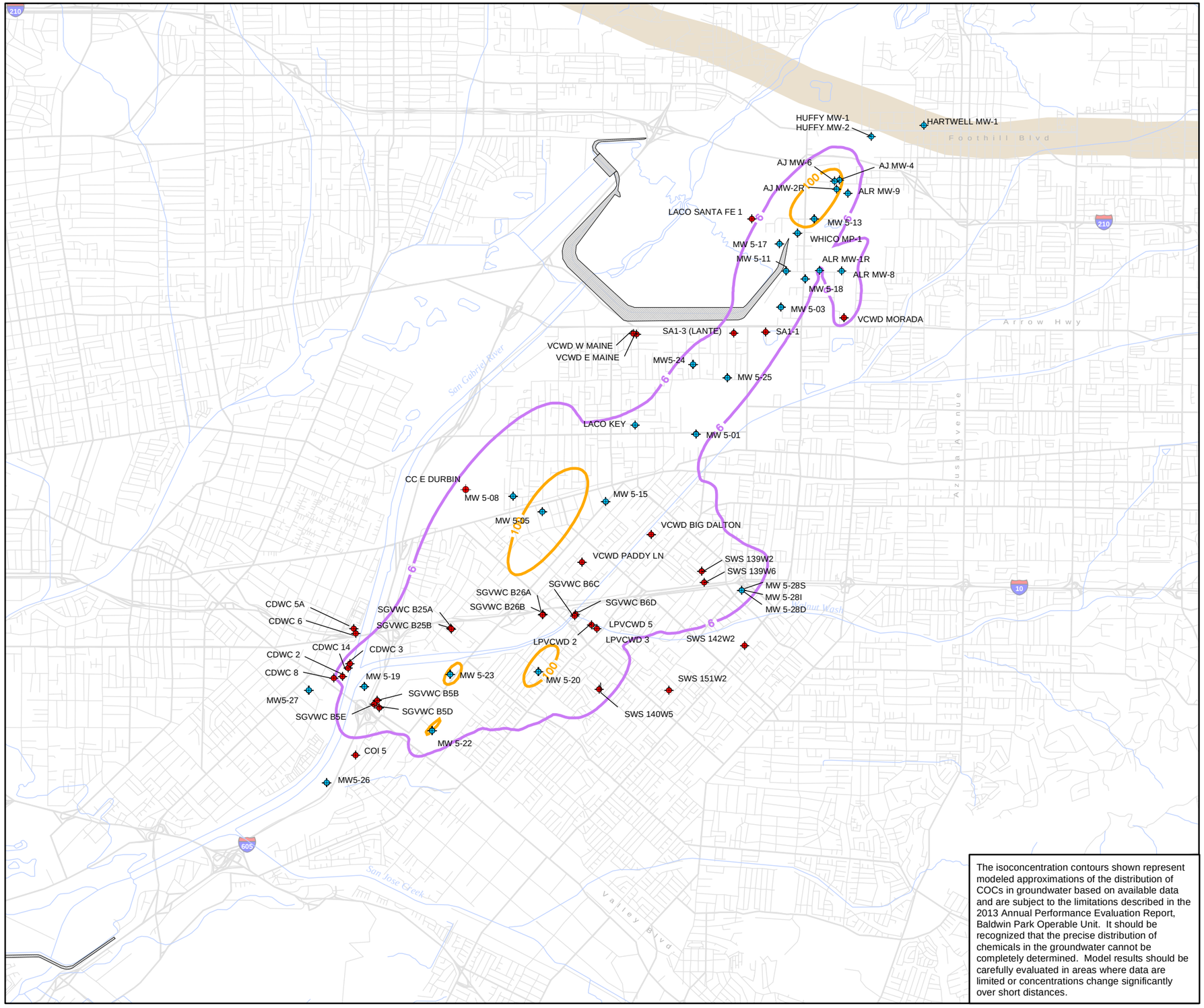
Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

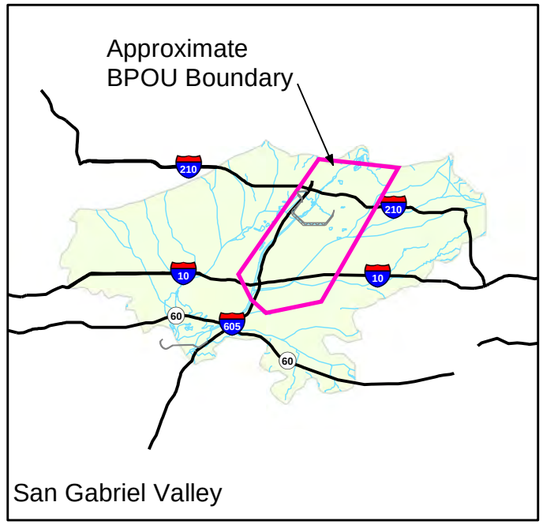
Project No.: SAC150

Figure **5-10**

Path: P:\GIS\SAC150_BPOU\Figures\GIS\Volume 1\5-10_Gen_Dist_NDMA.mxd



The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2013 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.



EXPLANATION

- Production well
- Monitoring or multiport well
- Perchlorate isoconcentration contour (6 ug/L)
- Perchlorate isoconcentration contour (100 ug/L)
- Duarte Fault Zone

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. The isoconcentration contours represent the estimated maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision®.

5,000 0 5,000

SCALE IN FEET

N

GENERALIZED DISTRIBUTION OF PERCHLORATE IN GROUNDWATER, 2014

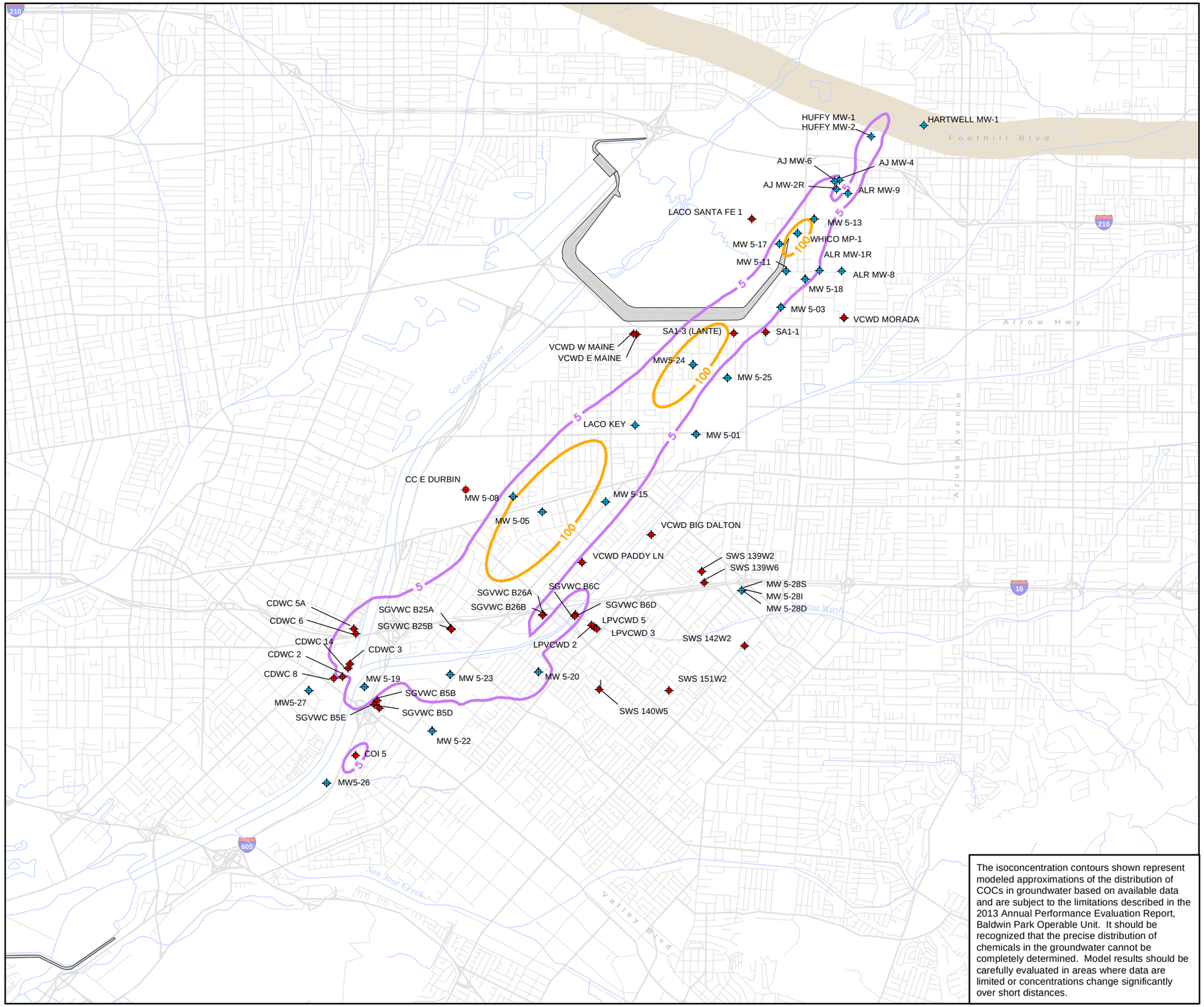
Baldwin Park Operable Unit
San Gabriel Valley, California

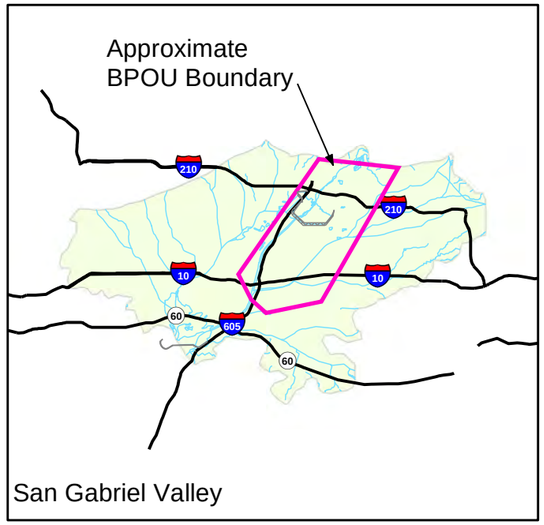
Geosyntec consultants

Project No.: SAC150

Figure **5-11**

Path: P:\GIS\SAC150_BPOU\Figures\GIS\Volume 1\5-11_Gen_Dist_Perchlorate.mxd





EXPLANATION

- Production well
- Monitoring or multiport well
- Tetrachloroethene isoconcentration contour (5 ug/L)
- Tetrachloroethene isoconcentration contour (100 ug/L)
- Duarte Fault Zone

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. The isoconcentration contours represent the estimated maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision®.

5,000 0 5,000

SCALE IN FEET

N

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2013 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

GENERALIZED DISTRIBUTION OF TETRACHLOROETHENE IN GROUNDWATER, 2014

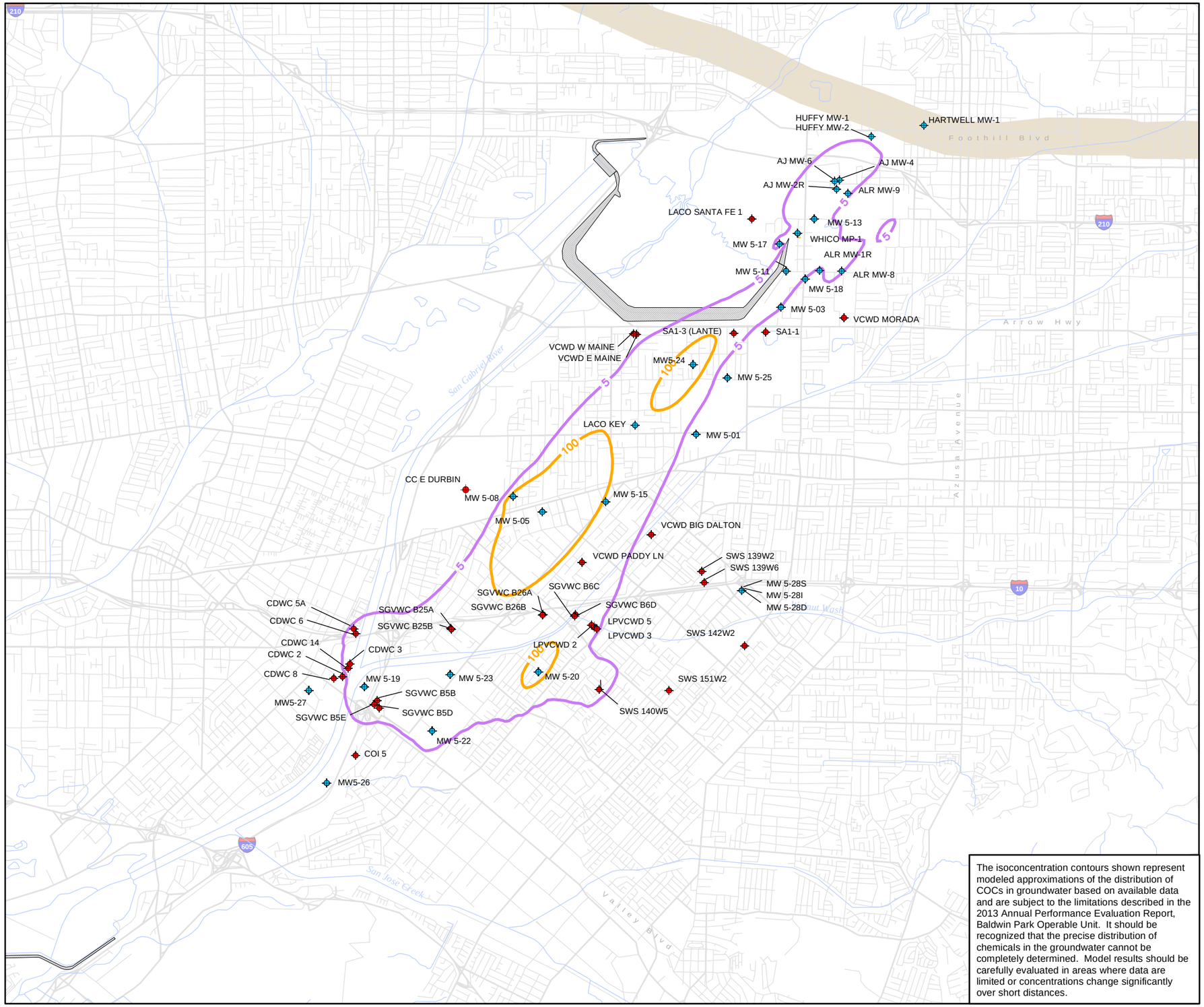
Baldwin Park Operable Unit
San Gabriel Valley, California

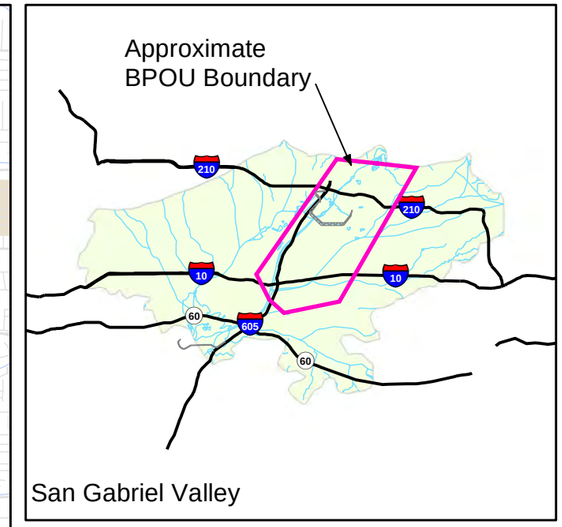
Geosyntec consultants

Project No.: SAC150

Figure **5-12**

Path: P:\GIS\SAC150_BPOU\Figures\GIS\Volume 1\5-12_Gen_Dist_PCE.mxd





EXPLANATION

- Production well
- Monitoring or multiport well
- Trichloroethene isoconcentration contour (5 ug/L)
- Trichloroethene isoconcentration contour (100 ug/L)
- Duarte Fault Zone

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. The isoconcentration contours represent the estimated maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision®.

5,000 0 5,000

SCALE IN FEET

N

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2013 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

GENERALIZED DISTRIBUTION OF TRICHLOROETHENE IN GROUNDWATER, 2014

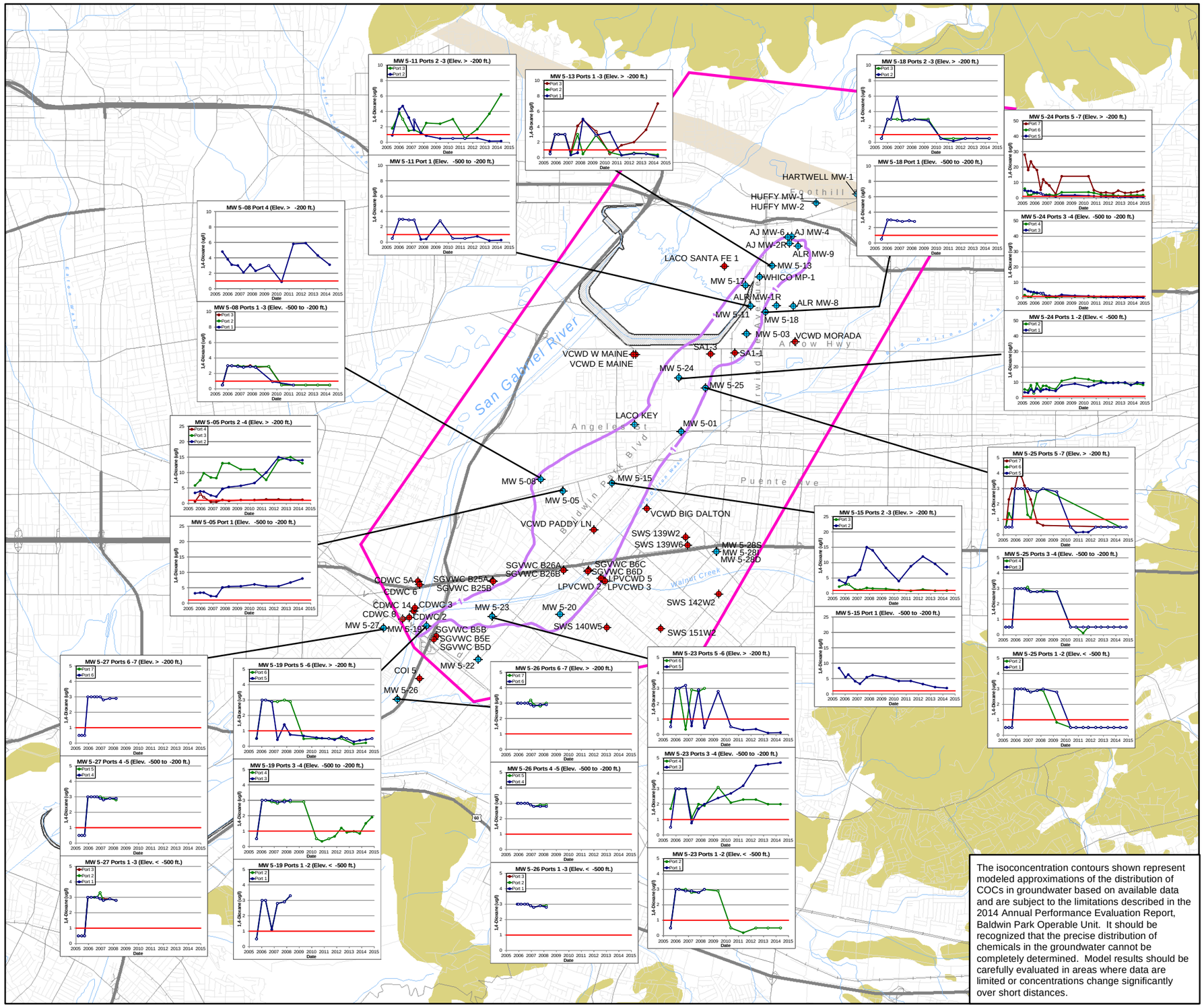
Baldwin Park Operable Unit
San Gabriel Valley, California

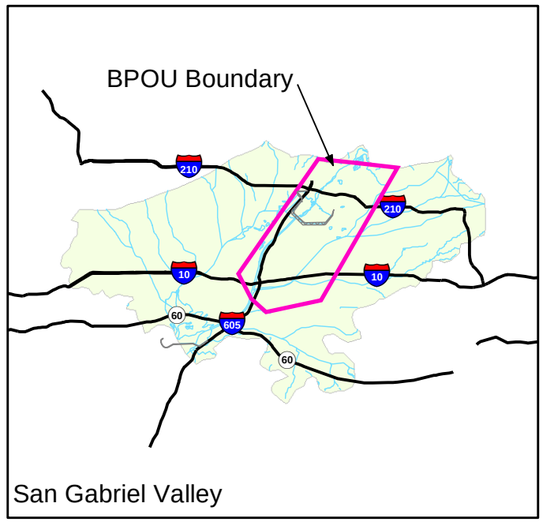
Geosyntec consultants

Project No.: SAC150

Figure **5-13**

Path: P:\GIS\SAC150_BPOU\Figures\GIS\Volume 1\5-13_Gen_Dist_TCE.mxd





Explanation

- Extraction or Production Well
- Monitoring or Multiport Well
- BPOU Boundary
- 1,4-Dioxane isoconcentration contour (1 ug/L)
- Duarte Fault Zone

Horizontal red line on each graph represents the MCL of 0.5 ug/L
COC concentrations detected in groundwater samples are plotted using closed circles.
COCs not detected were plotted at the laboratory reporting limit using open circles.

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. This map represents the maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision.

6,500 0 6,500

SCALE IN FEET

N

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2014 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

TIME-CONCENTRATION TRENDS FOR 1,4-DIOXANE IN GROUNDWATER, 2014

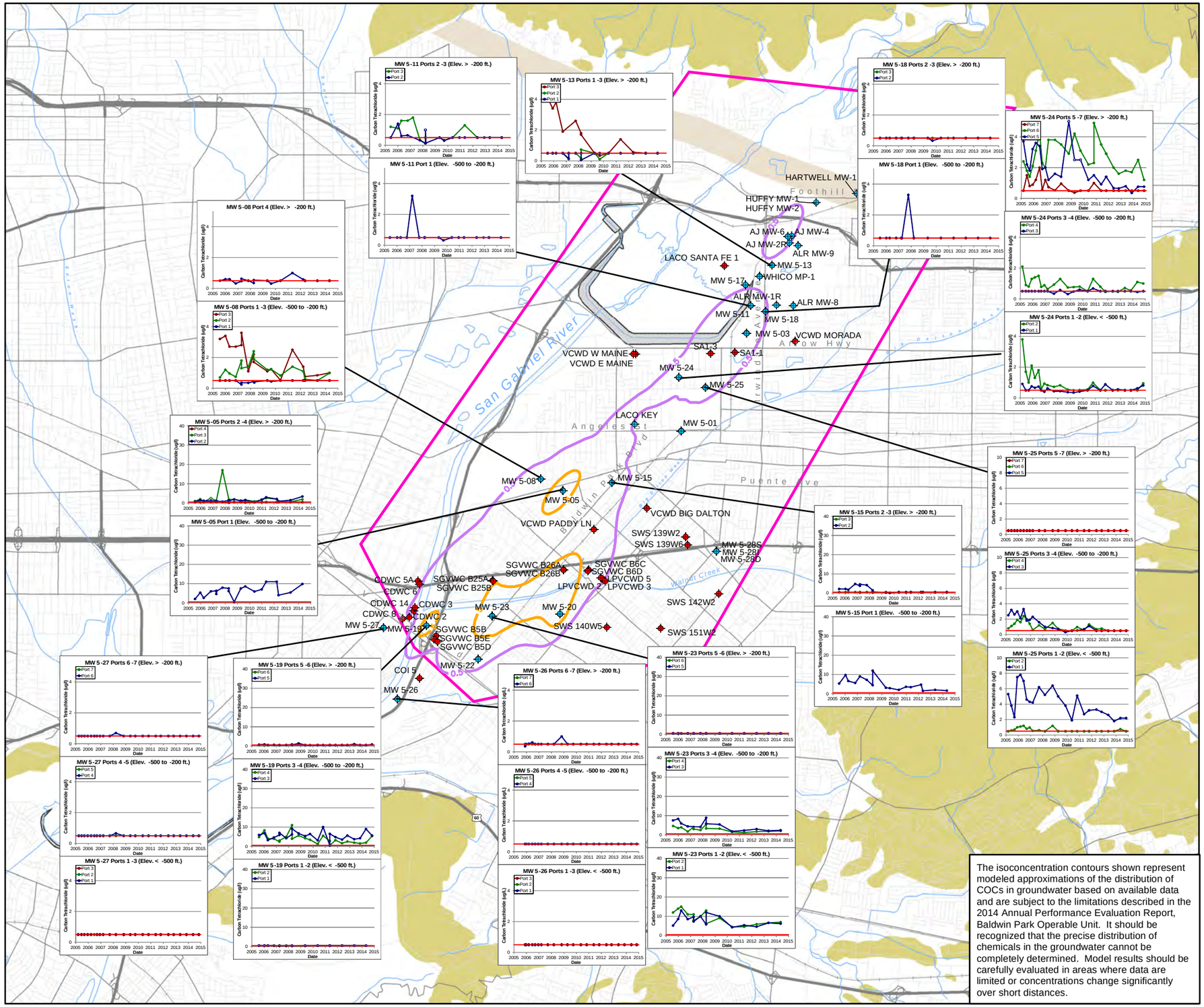
Baldwin Park Operable Unit
San Gabriel Valley, California

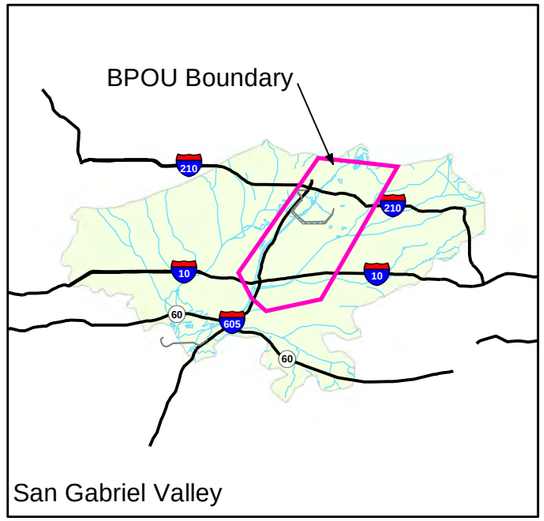
Geosyntec consultants

Project No.: SAC150

Figure **5-14**

\\den-fs1\GIS\Projects\Aerojet_7190\GIS_maps\Annual Report TvsC\2012\5-21_5yr_TCE_TvC.mxd





Explanation

- Extraction or Production Well
- Monitoring or Multiport Well
- BPOU Boundary
- Carbon tetrachloride isoconcentration contour (0.5 ug/L)
- Carbon tetrachloride isoconcentration contour (5 ug/L)
- Duarte Fault Zone

Horizontal red line on each graph represents the MCL of 0.5 ug/L
COC concentrations detected in groundwater samples are plotted using closed circles.
COCs not detected were plotted at the laboratory reporting limit using open circles.

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. This map represents the maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision.

6,500 0 6,500

SCALE IN FEET

N

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2014 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

TIME-CONCENTRATION TRENDS FOR CARBON TETRACHLORIDE IN GROUNDWATER, 2014

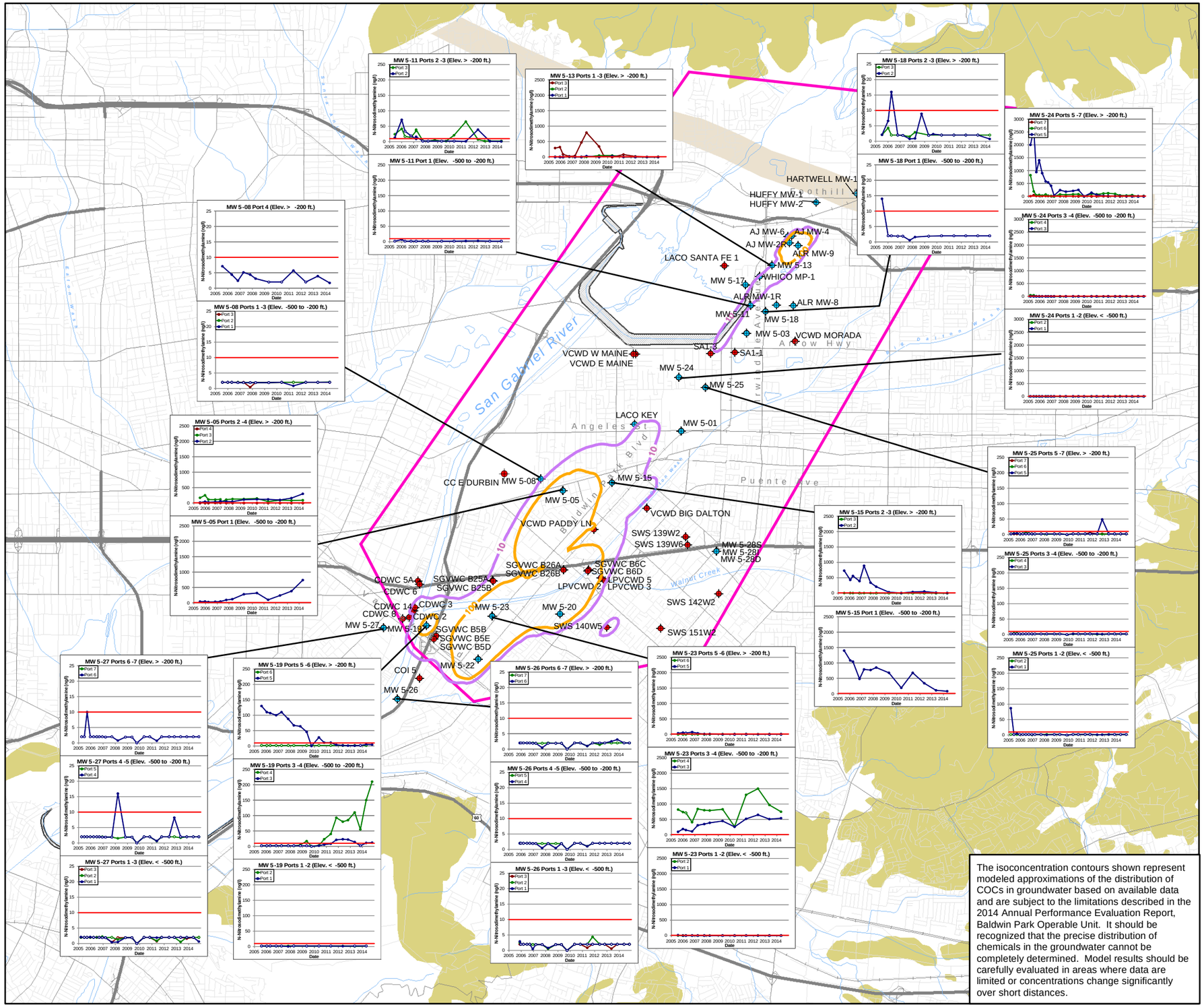
Baldwin Park Operable Unit
San Gabriel Valley, California

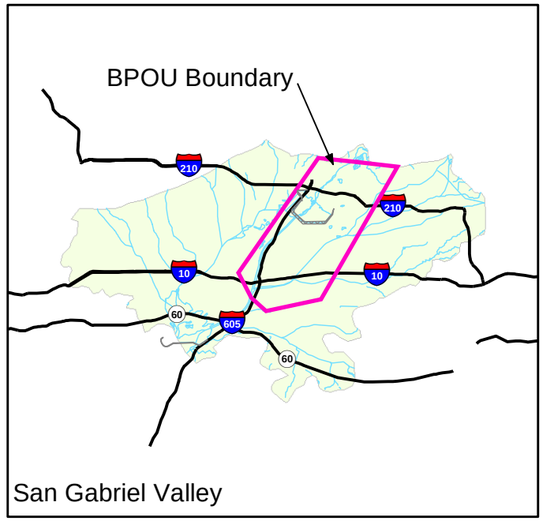
Geosyntec consultants

Project No.: SAC150

Figure 5-15

\\den-fs1\GIS\Projects\Aerojet_7190\GIS_maps\Annual Report TvsC\2012\5-17_5yr_CTC_TvC.mxd





Explanation

- Extraction or Production Well
- Monitoring or Multiport Well
- BPOU Boundary
- N-nitrosodimethylamine isoconcentration contour (10 ng/L)
- N-nitrosodimethylamine isoconcentration contour (100 ng/L)
- Duarte Fault Zone

Horizontal red line on each graph represents the MCL of 0.5 ug/L
COC concentrations detected in groundwater samples are plotted using closed circles.
COCs not detected were plotted at the laboratory reporting limit using open circles.

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. This map represents the maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision.

6,500 0 6,500

SCALE IN FEET

N

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2014 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

TIME-CONCENTRATION TRENDS FOR N-NITROSODIMETHYLAMINE IN GROUNDWATER, 2014

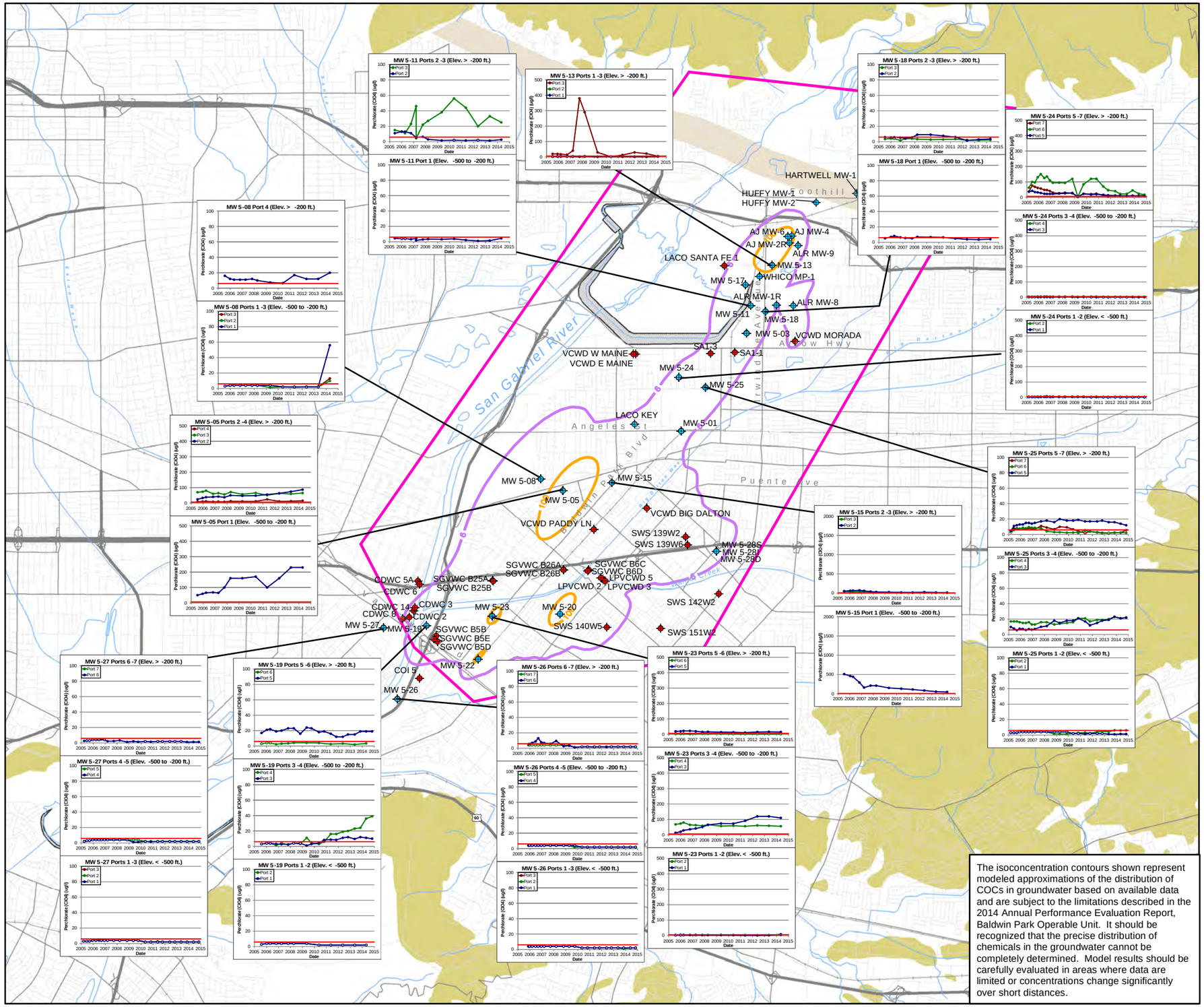
Baldwin Park Operable Unit
San Gabriel Valley, California

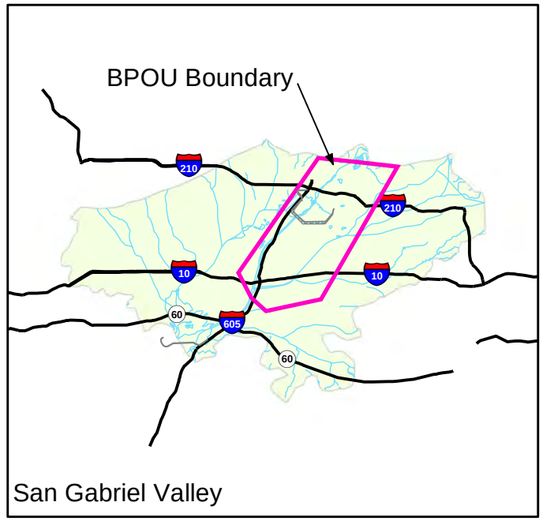
Geosyntec consultants

Project No.: SAC150

Figure 5-16

\\den-fs1\GIS\Projects\Aerojet_7190\GIS_maps\Annual Report TvsC\2012\5-18_5yr_NDMA_TvC.mxd





Explanation

- Extraction or Production Well
- Monitoring or Multiport Well
- BPOU Boundary
- Perchlorate isoconcentration contour (6 ug/L)
- Perchlorate isoconcentration contour (100 ug/L)
- Duarte Fault Zone

Horizontal red line on each graph represents the MCL of 0.5 ug/L
COC concentrations detected in groundwater samples are plotted using closed circles.
COCs not detected were plotted at the laboratory reporting limit using open circles.

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. This map represents the maximum extent of contours of equal concentration at all elevations.

2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision.

6,500 0 6,500

SCALE IN FEET

N

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2014 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

TIME-CONCENTRATION TRENDS FOR PERCHLORATE IN GROUNDWATER, 2014

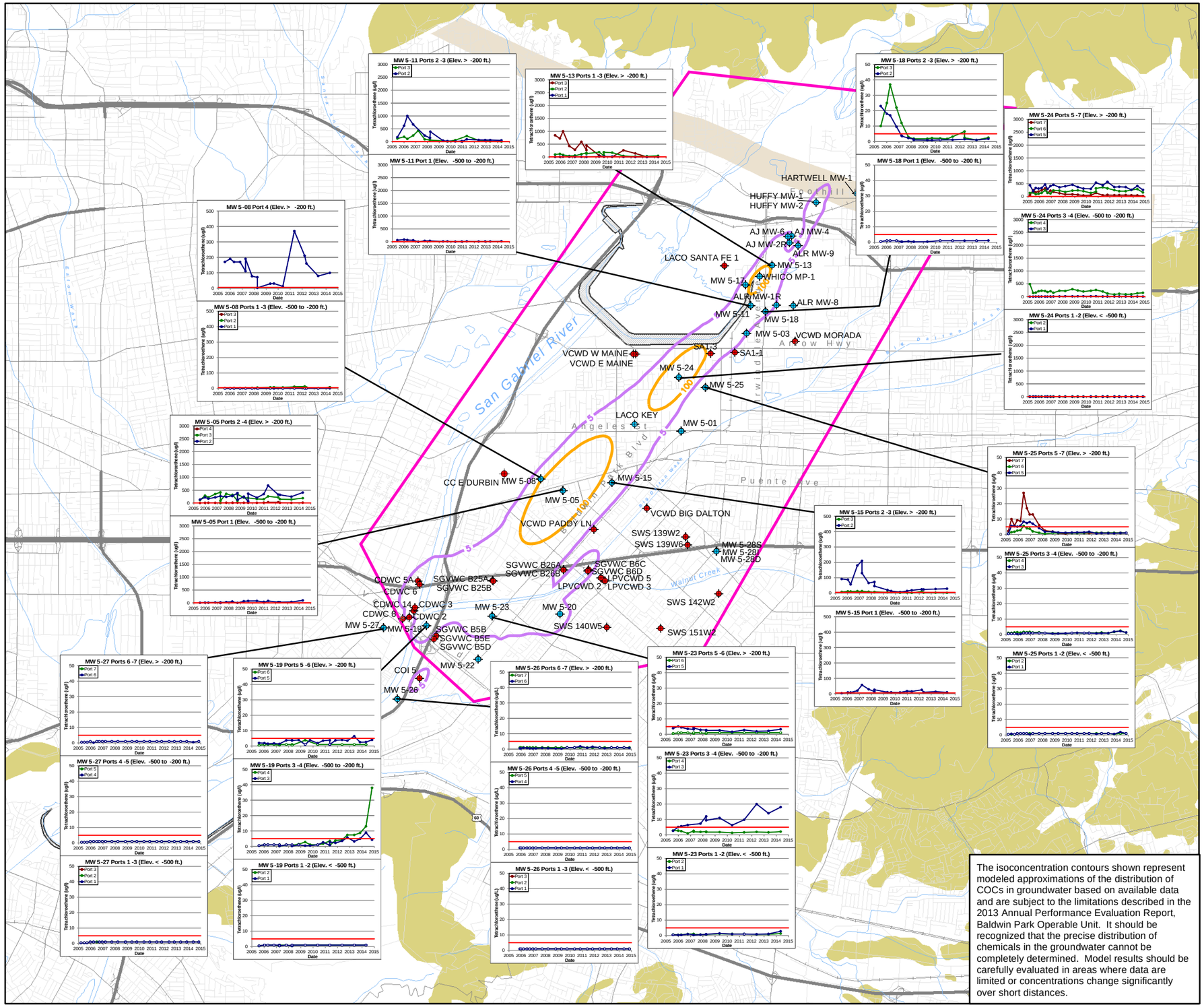
Baldwin Park Operable Unit
San Gabriel Valley, California

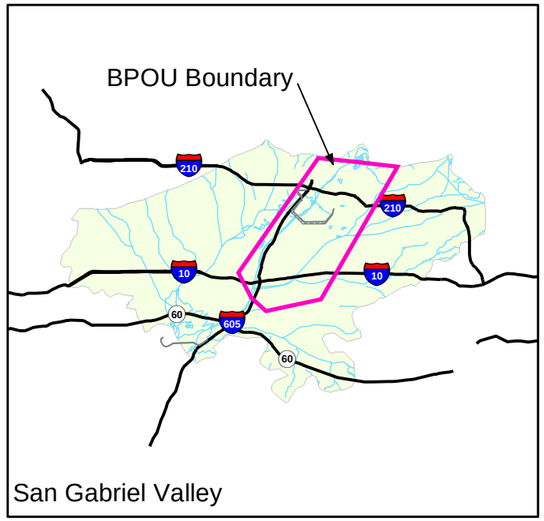
Geosyntec consultants

Project No.: SAC150

Figure 5-17

\den-fs1\GIS\Projects\Aerojet_7190\GIS_maps\Annual Report Tvs\C2012\5-19_5yr_Perchlorate_TVC.mxd





Explanation

- Extraction or Production Well
- Monitoring or Multiport Well
- BPOU Boundary
- Tetrachloroethene isoconcentration contour (5 ug/L)
- Tetrachloroethene isoconcentration contour (100 ug/L)
- Duarte Fault Zone

Horizontal red line on each graph represents the MCL of 0.5 ug/L
COC concentrations detected in groundwater samples are plotted using closed circles.
COCs not detected were plotted at the laboratory reporting limit using open circles.

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. This map represents the maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision.

6,500 0 6,500

SCALE IN FEET

N

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2013 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

TIME-CONCENTRATION TRENDS FOR TETRACHLOROETHENE IN GROUNDWATER, 2014

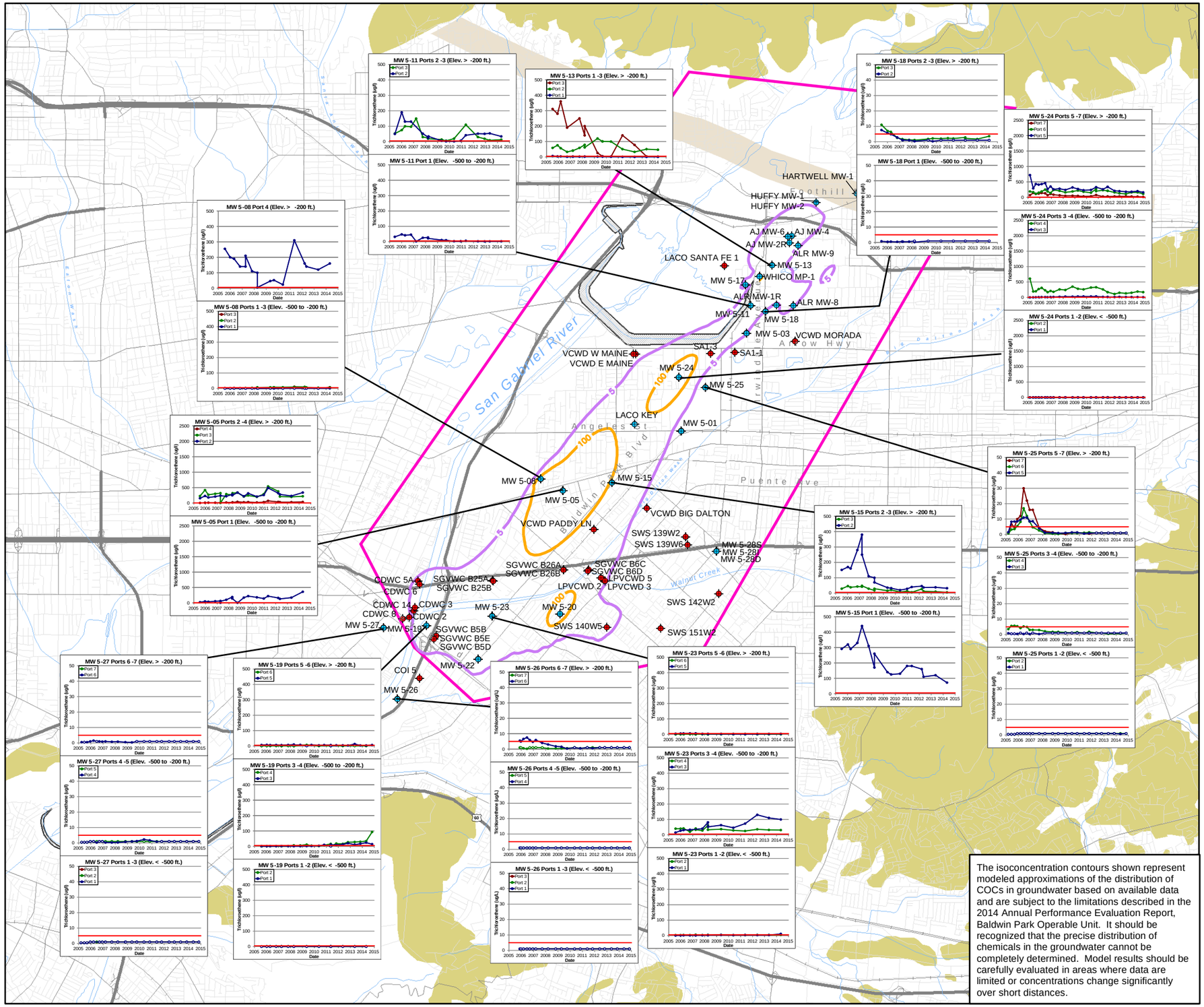
Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

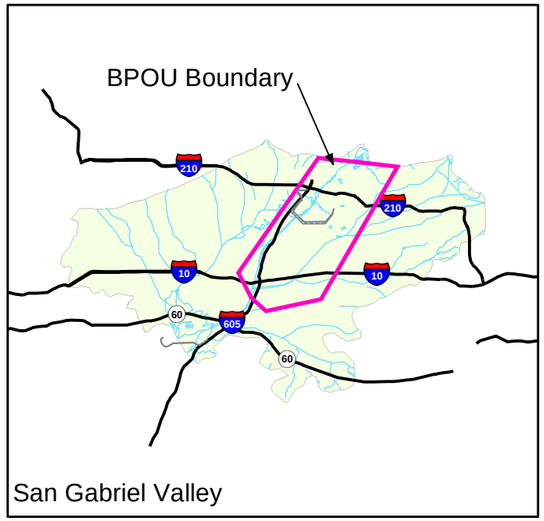
Project No.: SAC150

Figure 5-18

\\den-fs1\GIS\Projects\Aerojet_7190\GIS_maps\Annual Report Tvs\2012\5-20_5yr_PCE_TvC.mxd



The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2014 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.



Explanation

- Extraction or Production Well
- Monitoring or Multiport Well
- BPOU Boundary
- Trichloroethene isoconcentration contour (5 ug/L)
- Trichloroethene isoconcentration contour (100 ug/L)
- Duarte Fault Zone

Horizontal red line on each graph represents the MCL of 0.5 ug/L
COC concentrations detected in groundwater samples are plotted using closed circles.
COCs not detected were plotted at the laboratory reporting limit using open circles.

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. This map represents the maximum extent of contours of equal concentration at all elevations.

2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision.

6,500 0 6,500

SCALE IN FEET

N

TIME-CONCENTRATION TRENDS FOR TRICHLOROETHENE IN GROUNDWATER, 2014

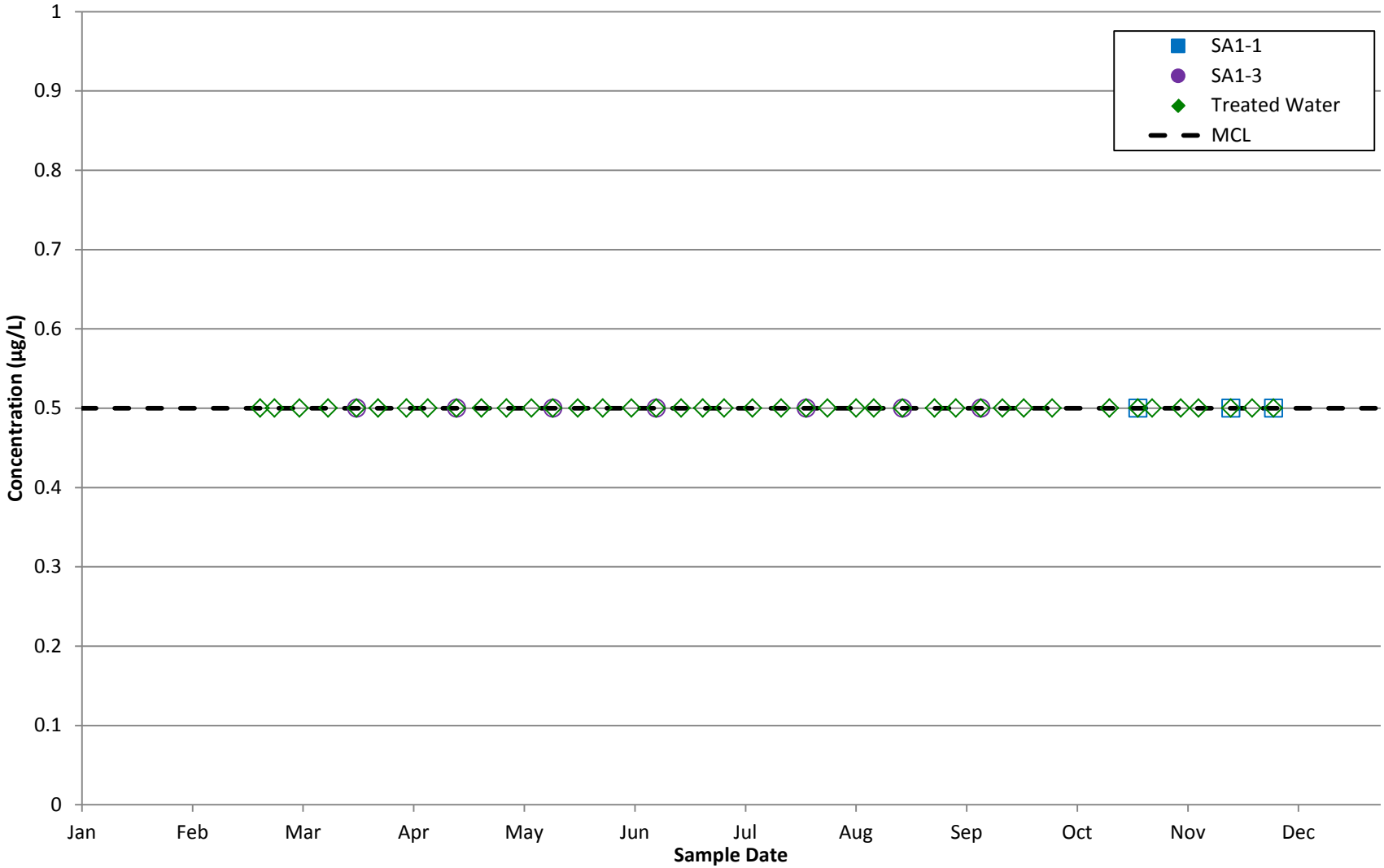
Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Project No.: SAC150

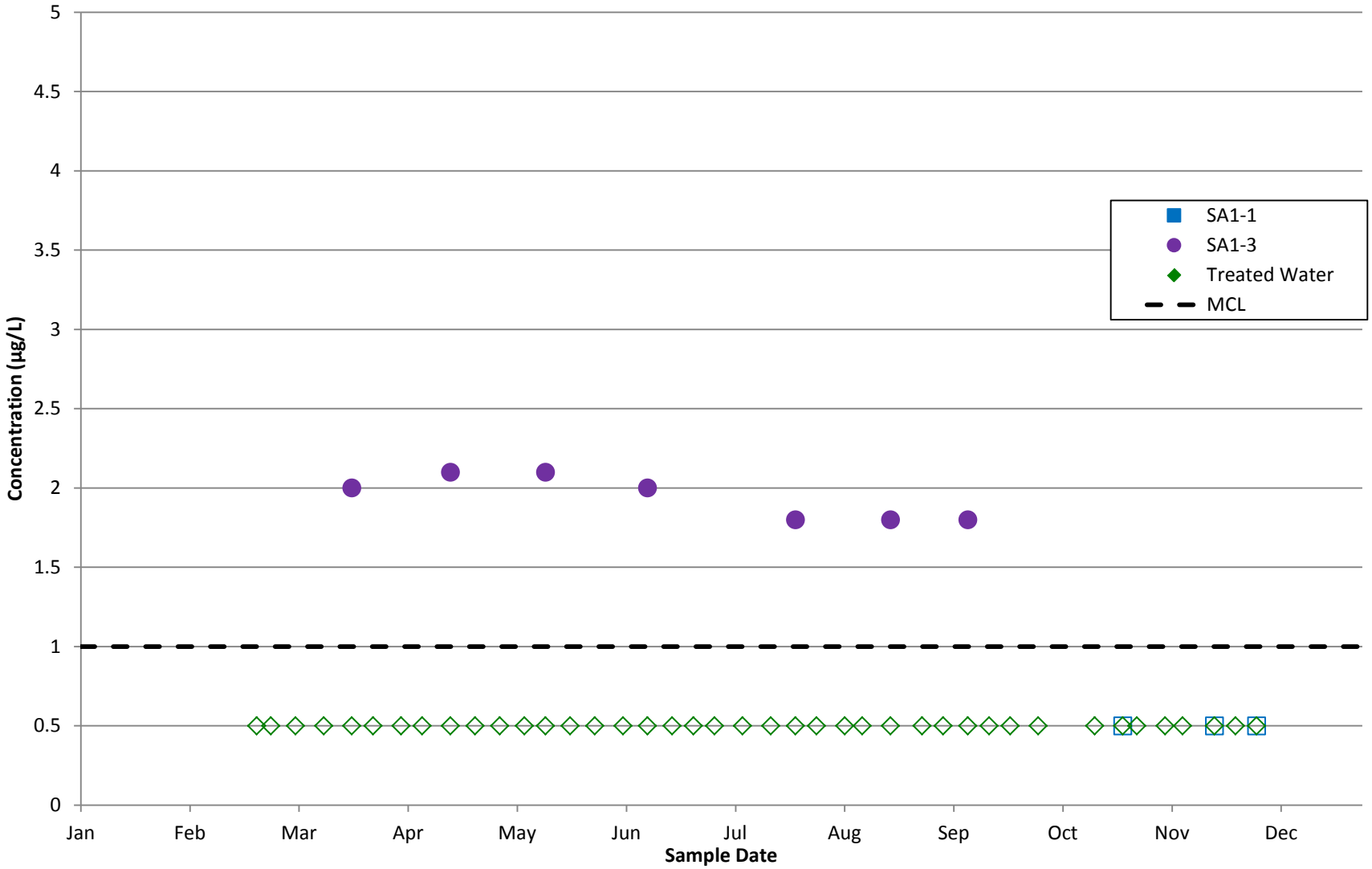
Figure 5-19

\\den-fs1\GIS\Projects\Aerojet 7190\GIS maps\Annual Report Tvs\2012\5-21 5yr TCE TvC.mxd



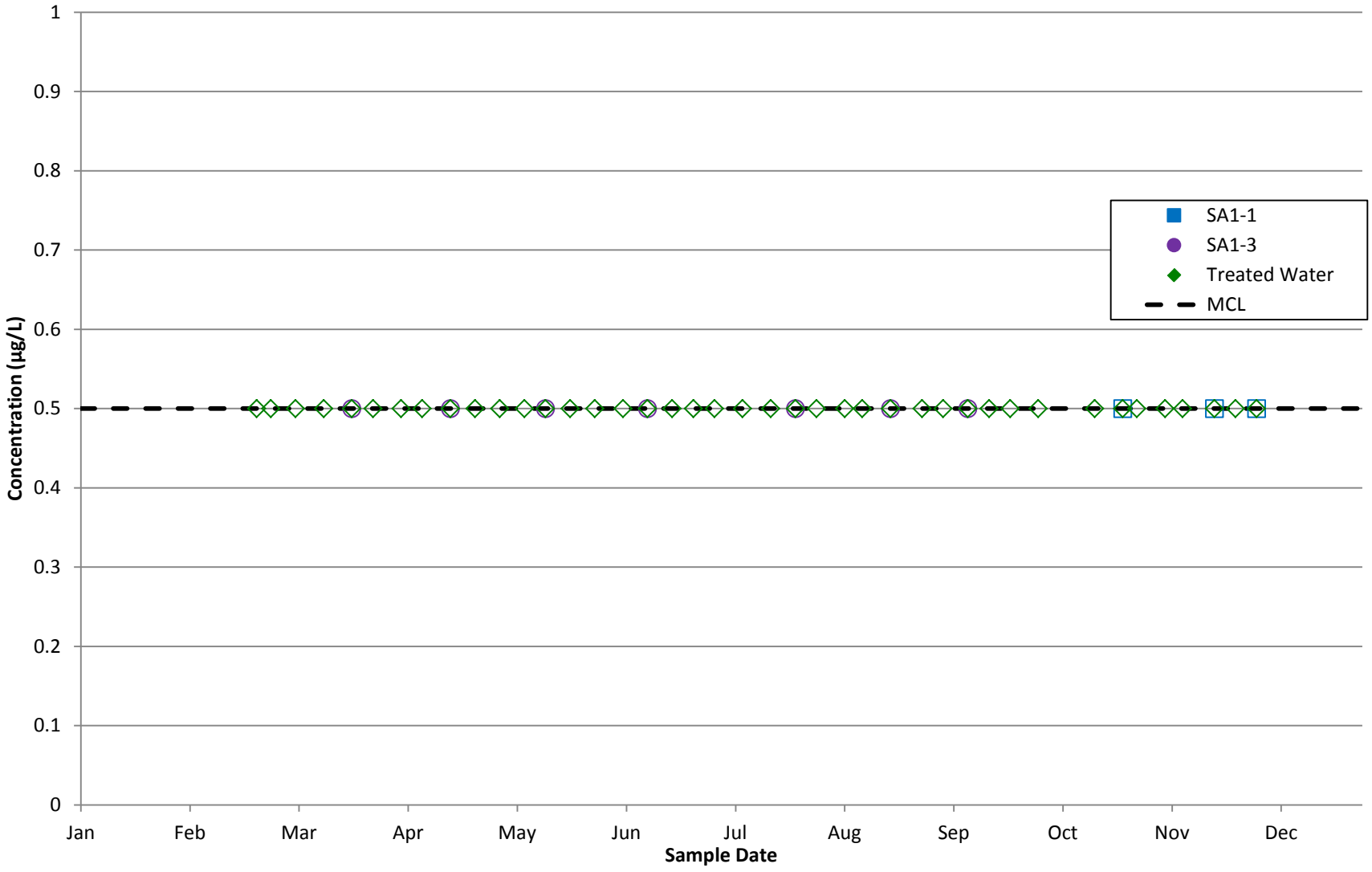
Note: Open symbols signify non-detects.

ERM	1,2-DICHLOROETHANE CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-1**



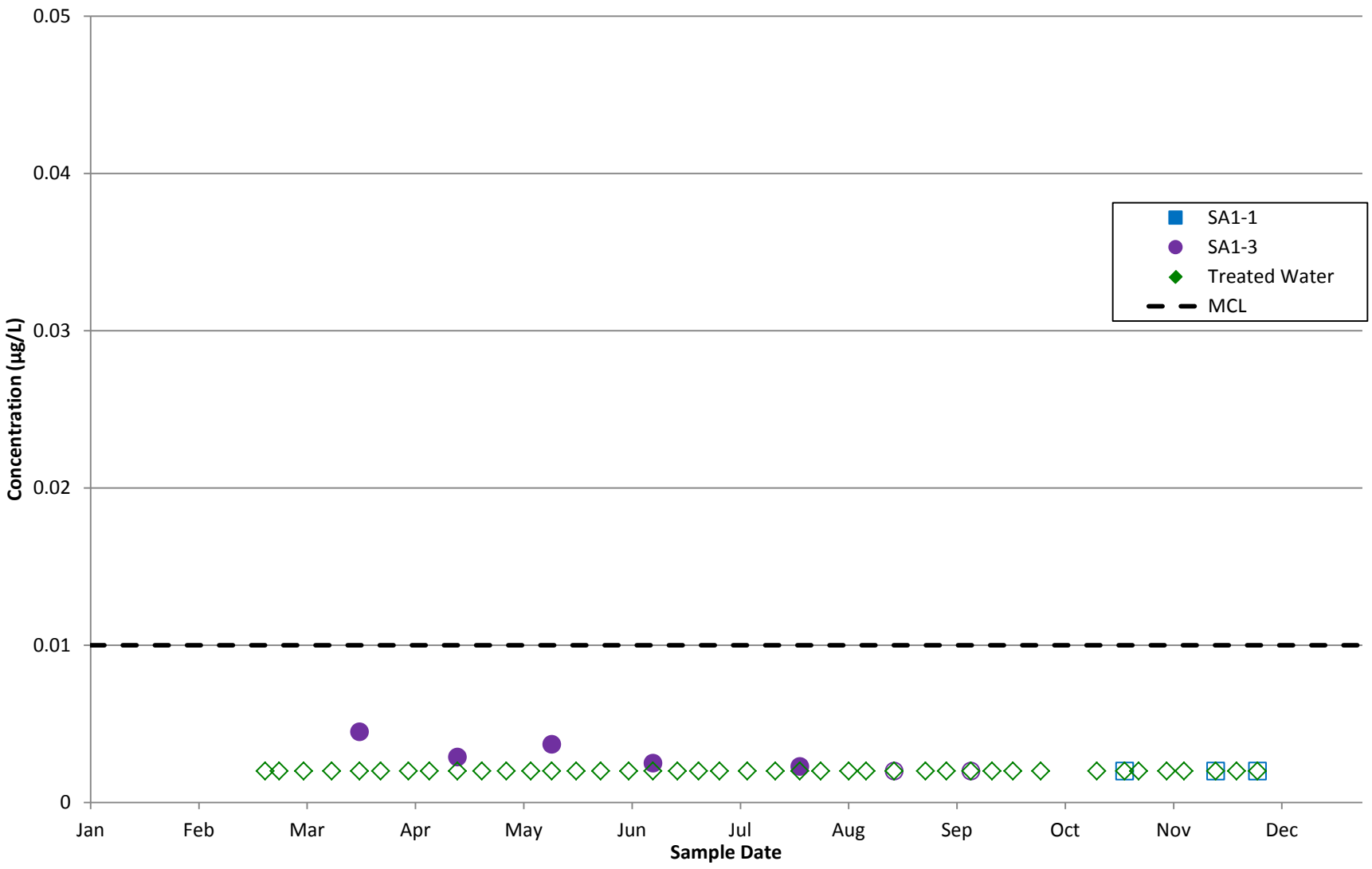
Note: Open symbols signify non-detects.

ERM	1,4-DIOXANE CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-2**



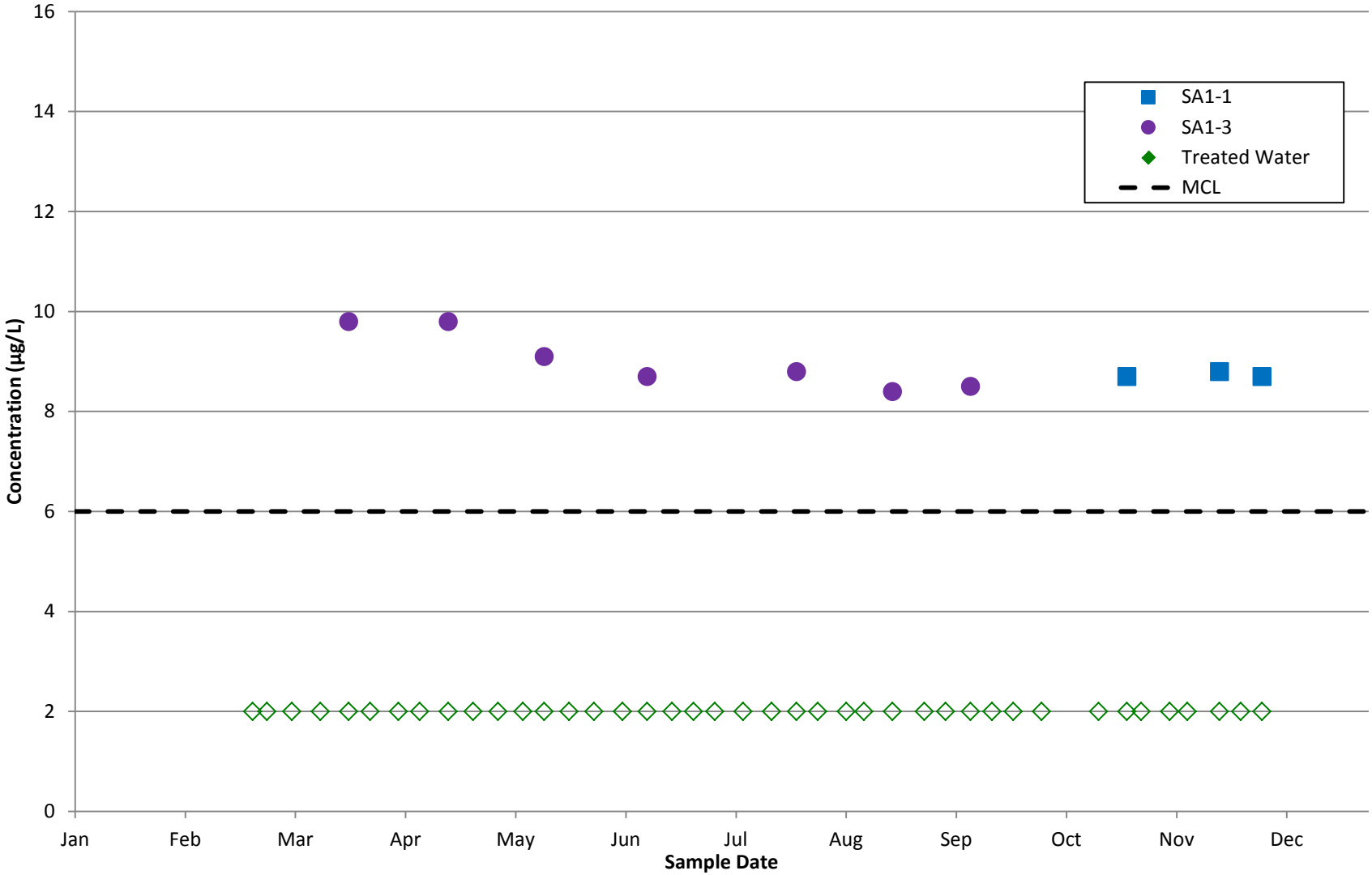
Note: Open symbols signify non-detects.

ERM	CARBON TETRACHLORIDE CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-3**



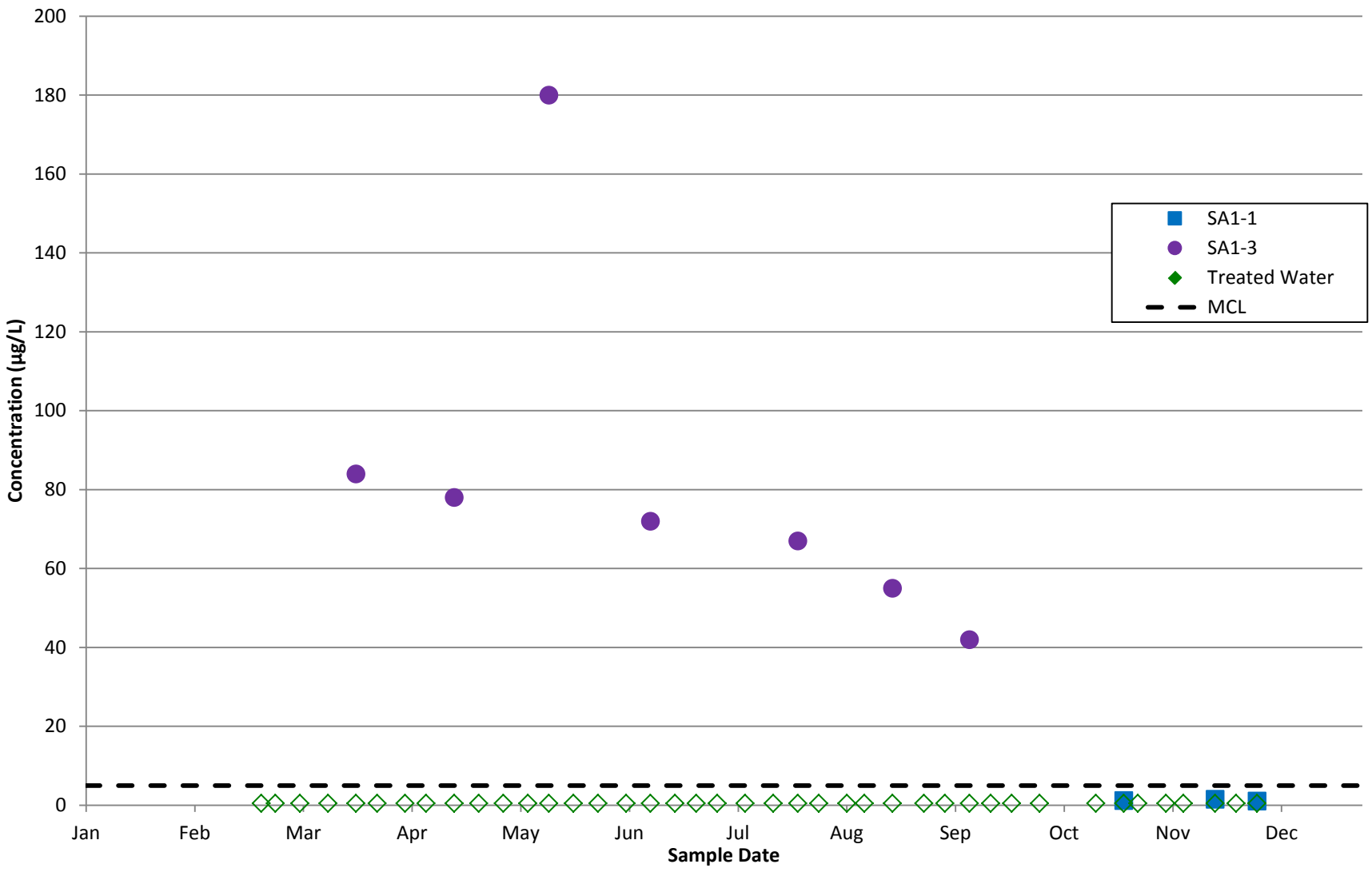
Note: Open symbols signify non-detects.

ERM	N-NITROSODIMETHYLAMINE CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-4**



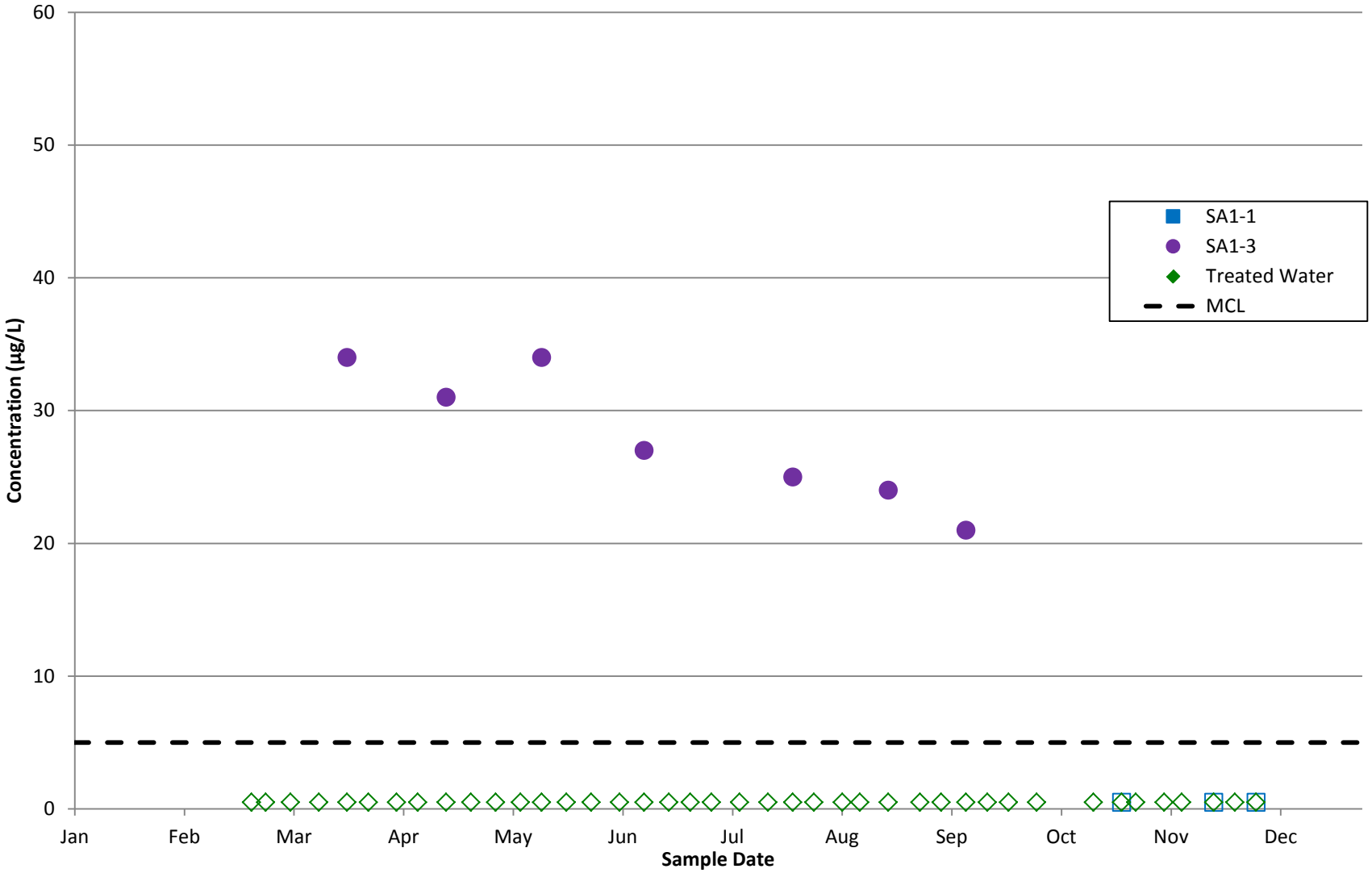
Note: Open symbols signify non-detects.

ERM	PERCHLORATE CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-5**



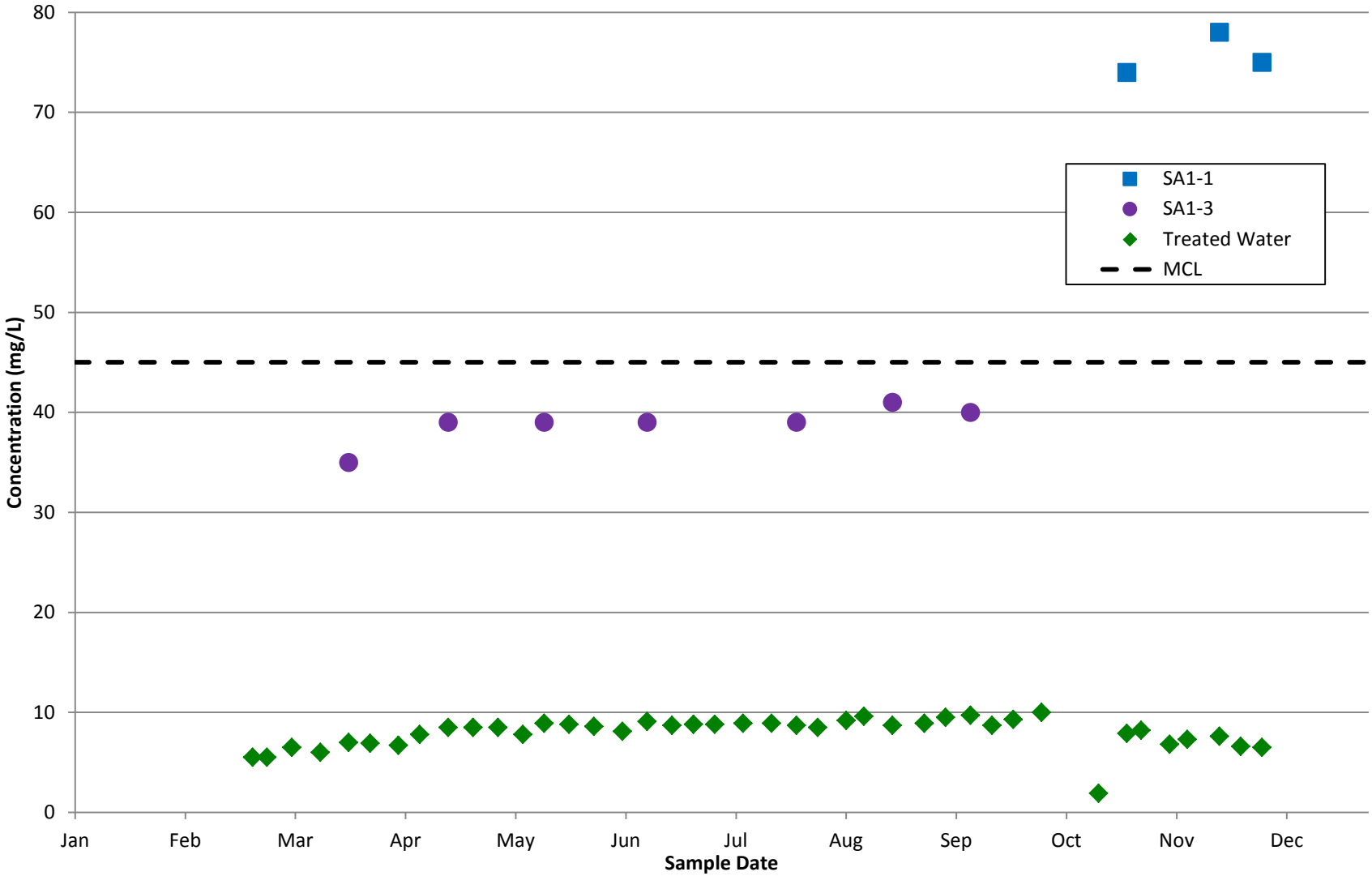
Note: Open symbols signify non-detects.

ERM	TETRACHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-6**



Note: Open symbols signify non-detects.

ERM	TRICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-7**



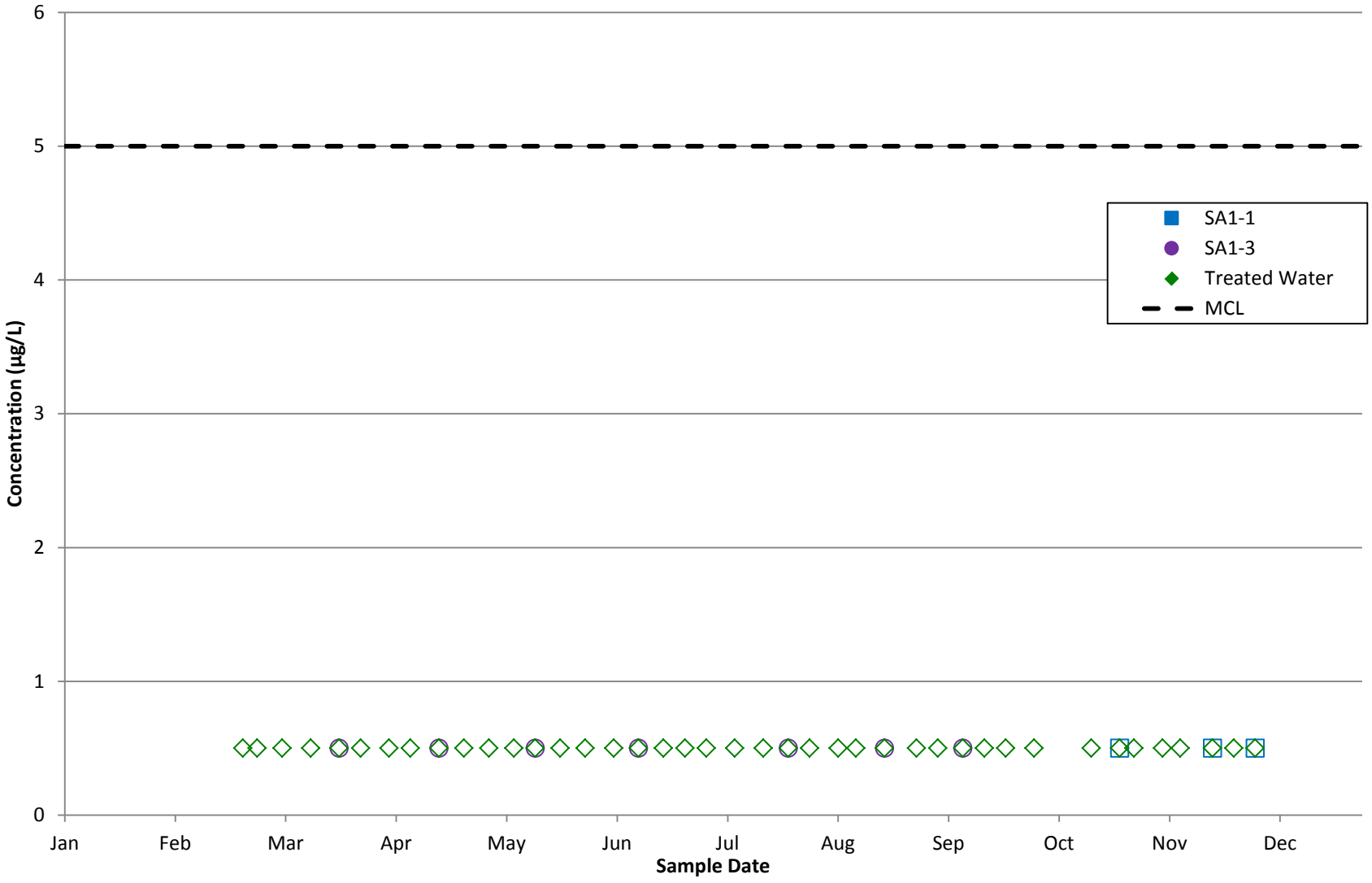
Note: Open symbols signify non-detects.

ERM

NITRATE AS NO3 CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014)
Baldwin Park Operable Unit
San Gabriel Valley, California

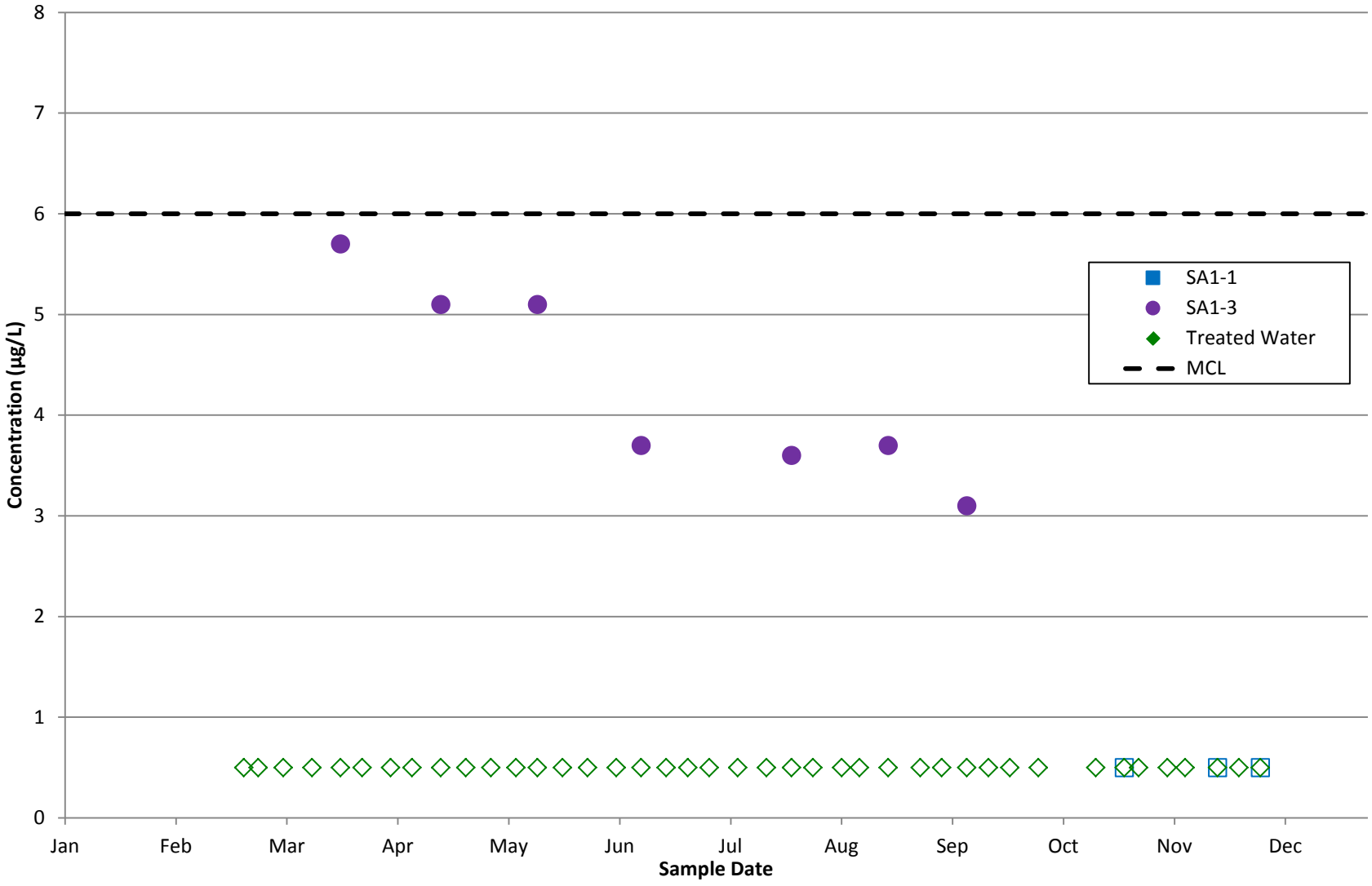
Project No.
32710118

Figure
6-8



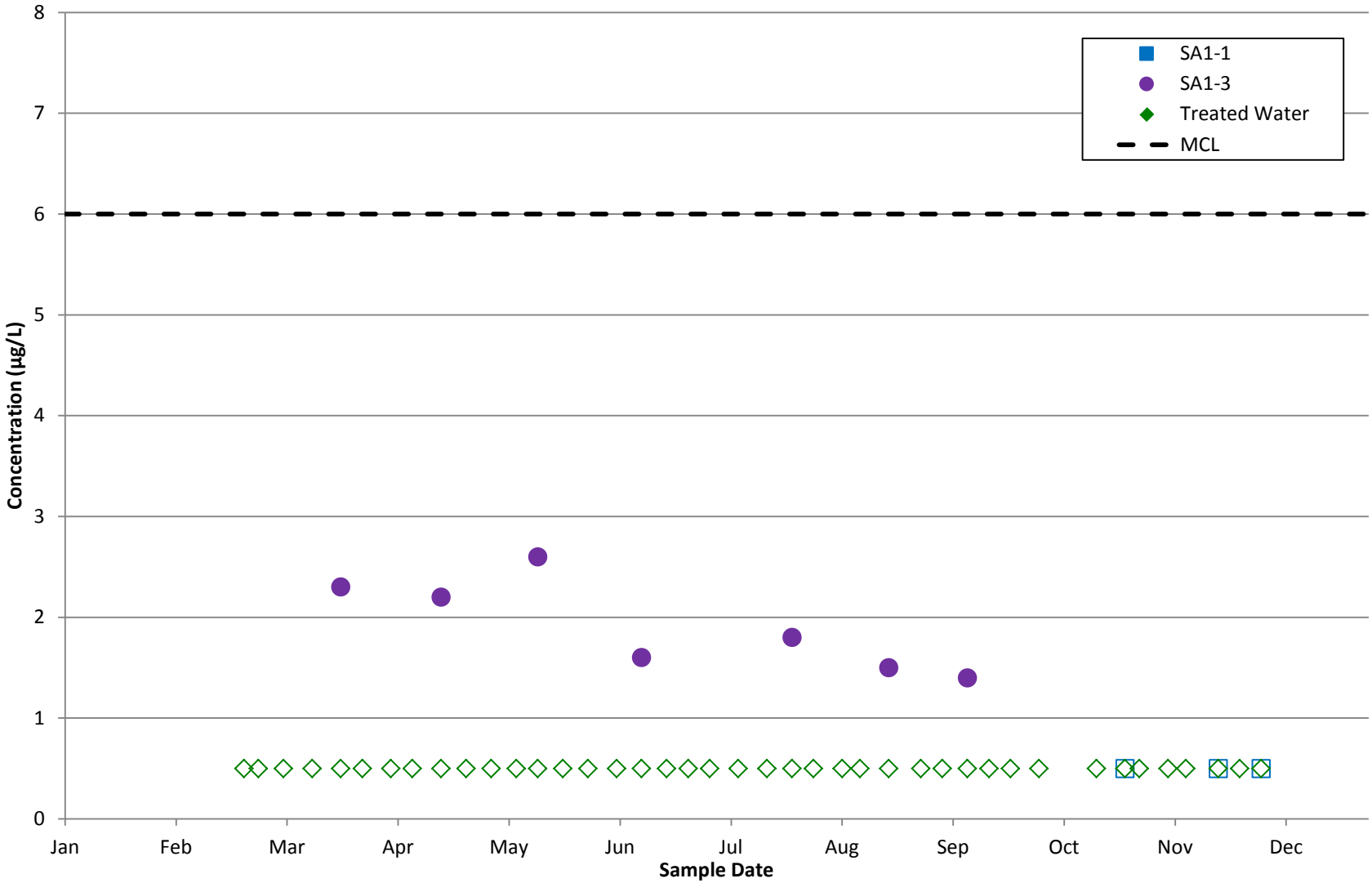
Note: Open symbols signify non-detects.

ERM	1,1-DICHLOROETHANE CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-9**



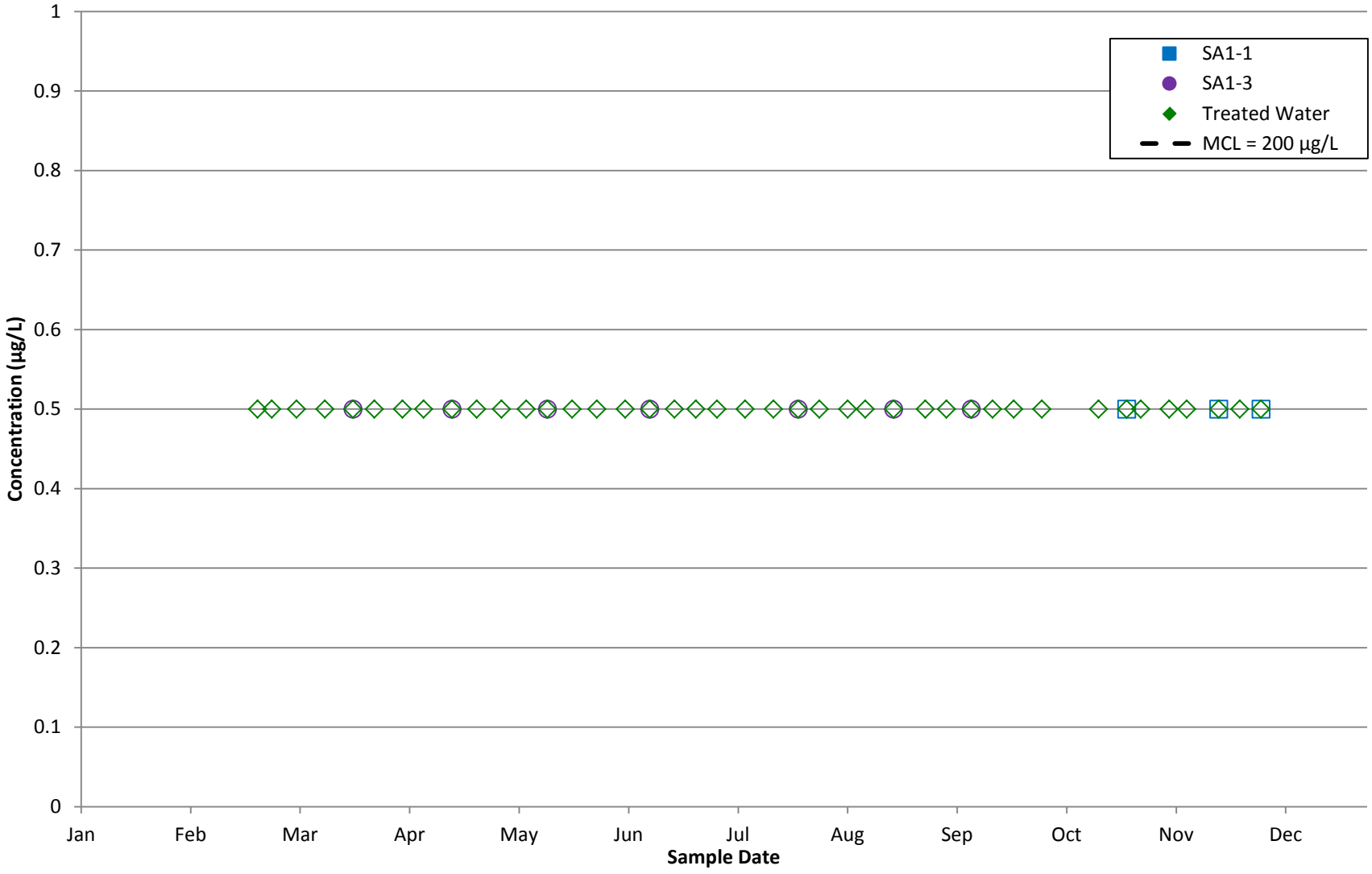
Note: Open symbols signify non-detects.

ERM	1,1-DICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-10**



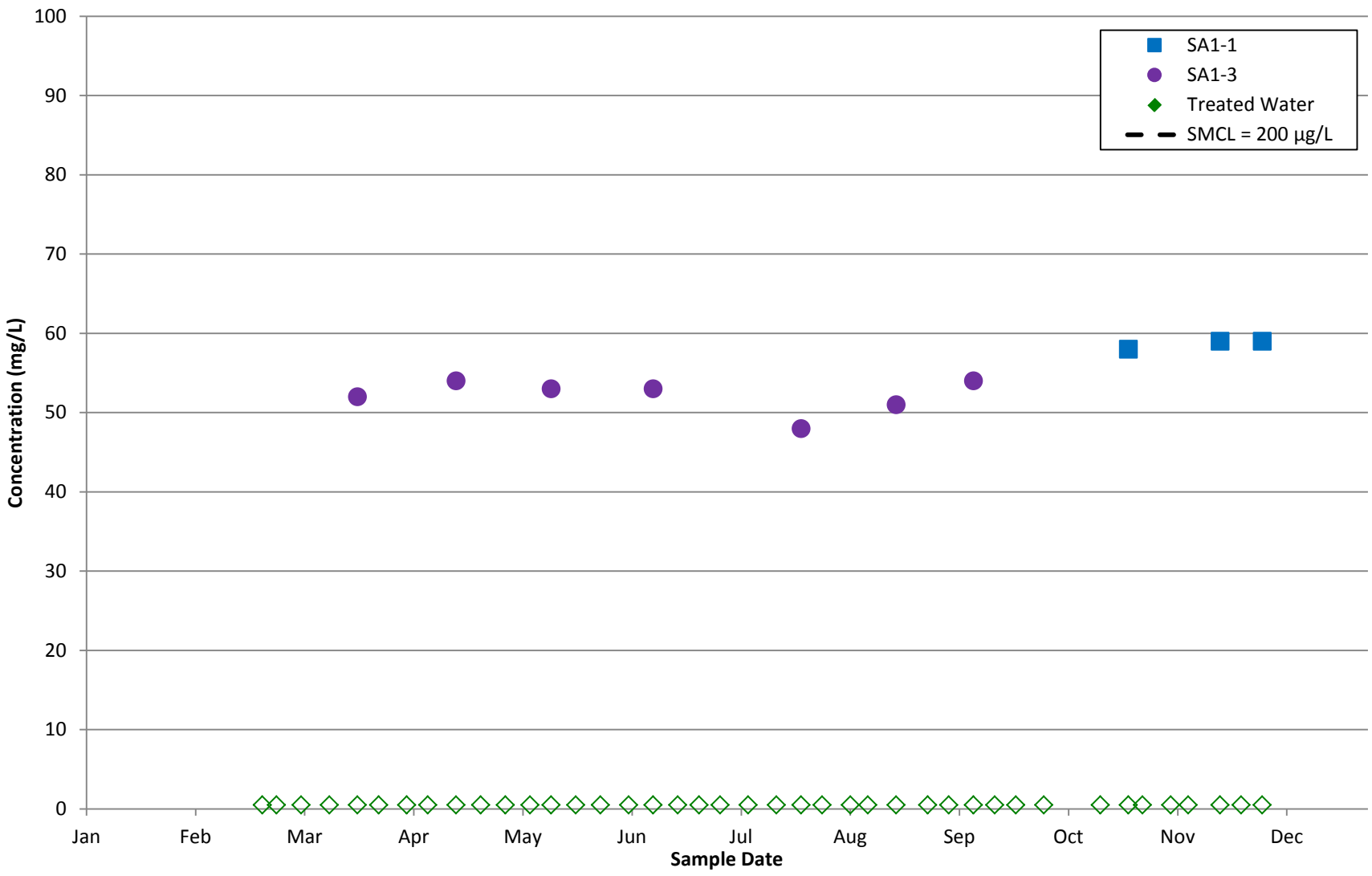
Note: Open symbols signify non-detects.

ERM	CIS-1,2-DICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-11**



Note: Open symbols signify non-detects.

ERM	1,1,1-TRICHLOROETHANE CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-12**



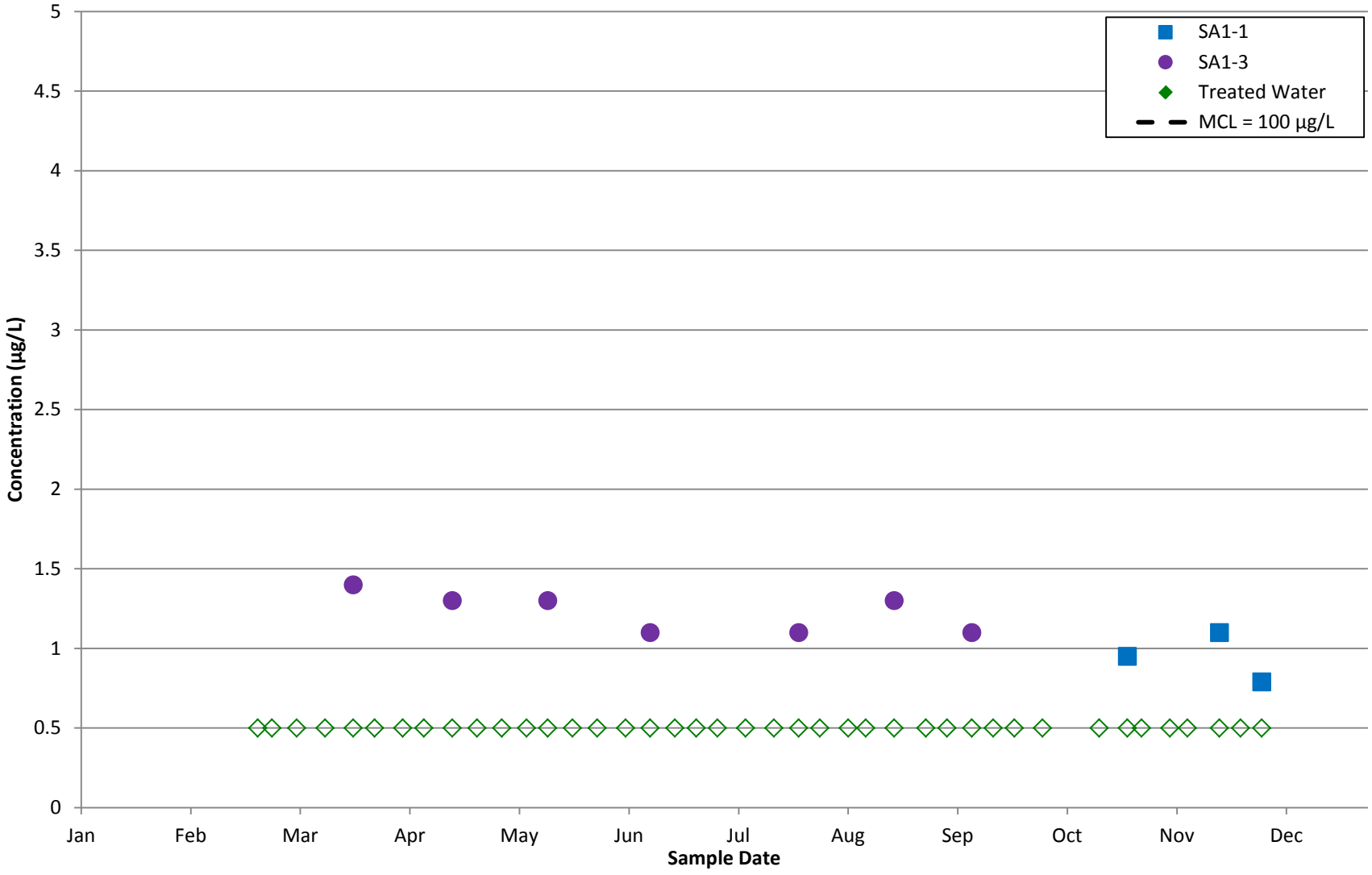
Note: Open symbols signify non-detects.

ERM

SULFATE AS SO4 CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014)
Baldwin Park Operable Unit
San Gabriel Valley, California

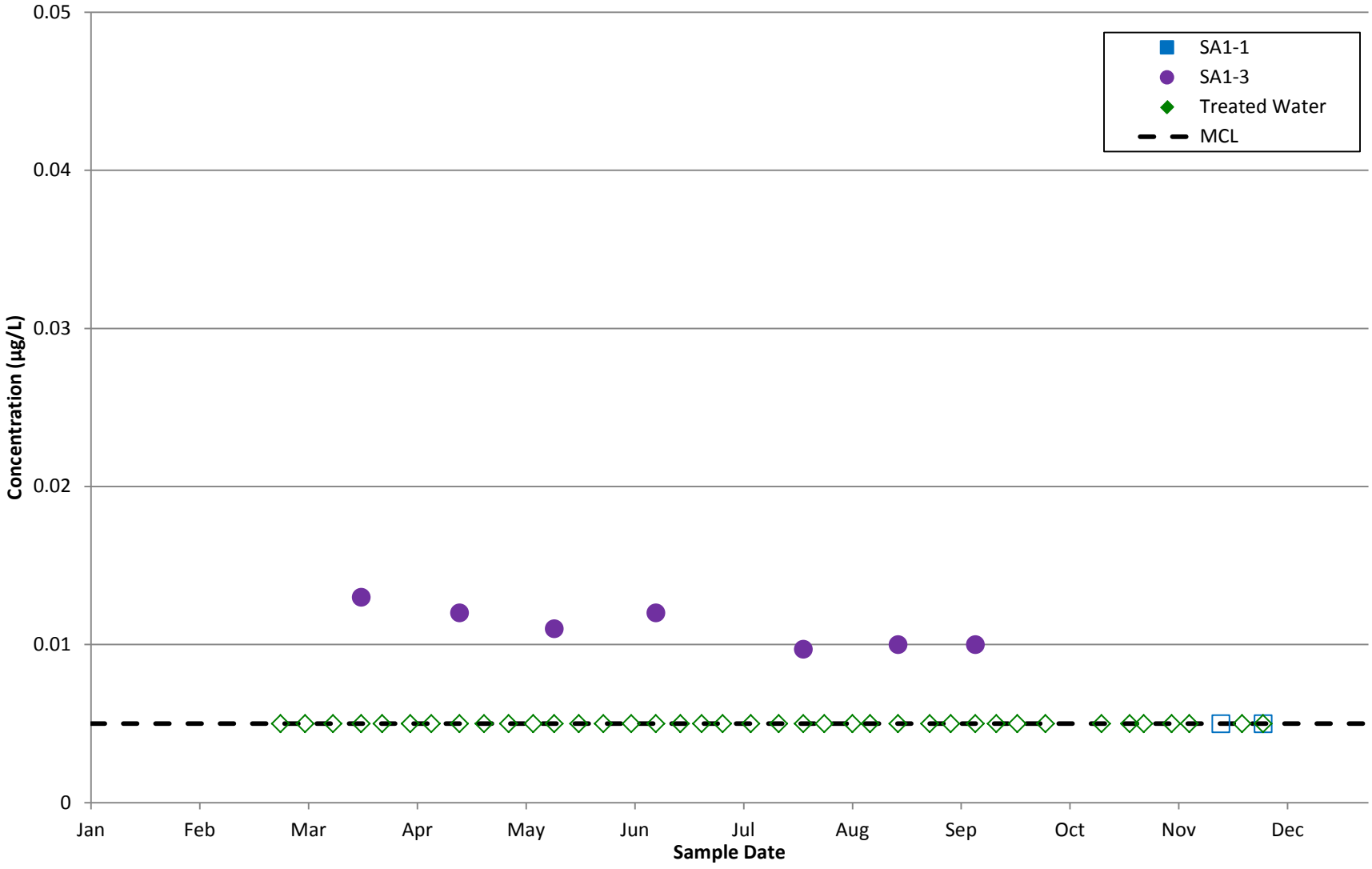
Project No.
32710118

Figure
6-13



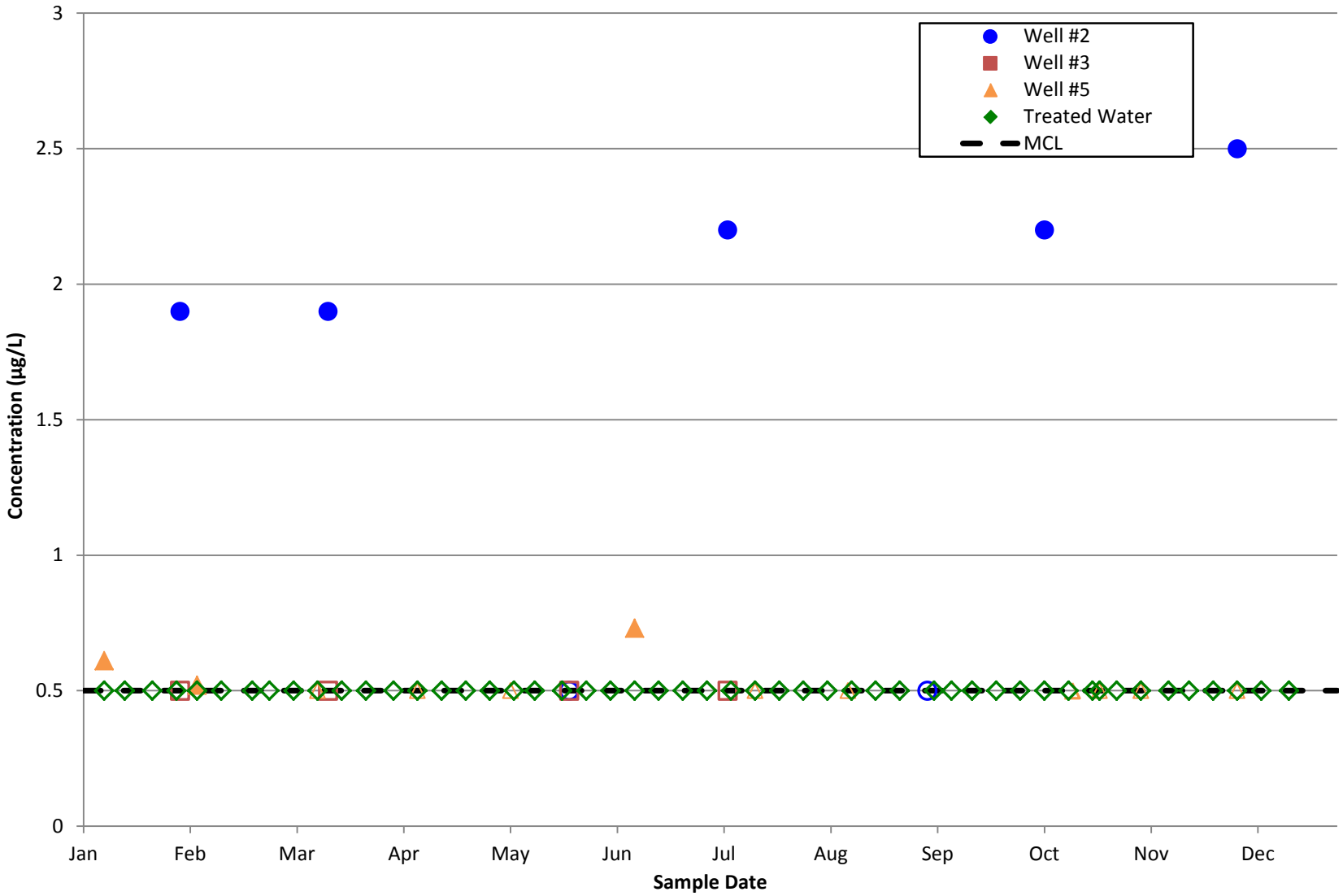
Note: Open symbols signify non-detects.

ERM	CHLOROFORM CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-14**



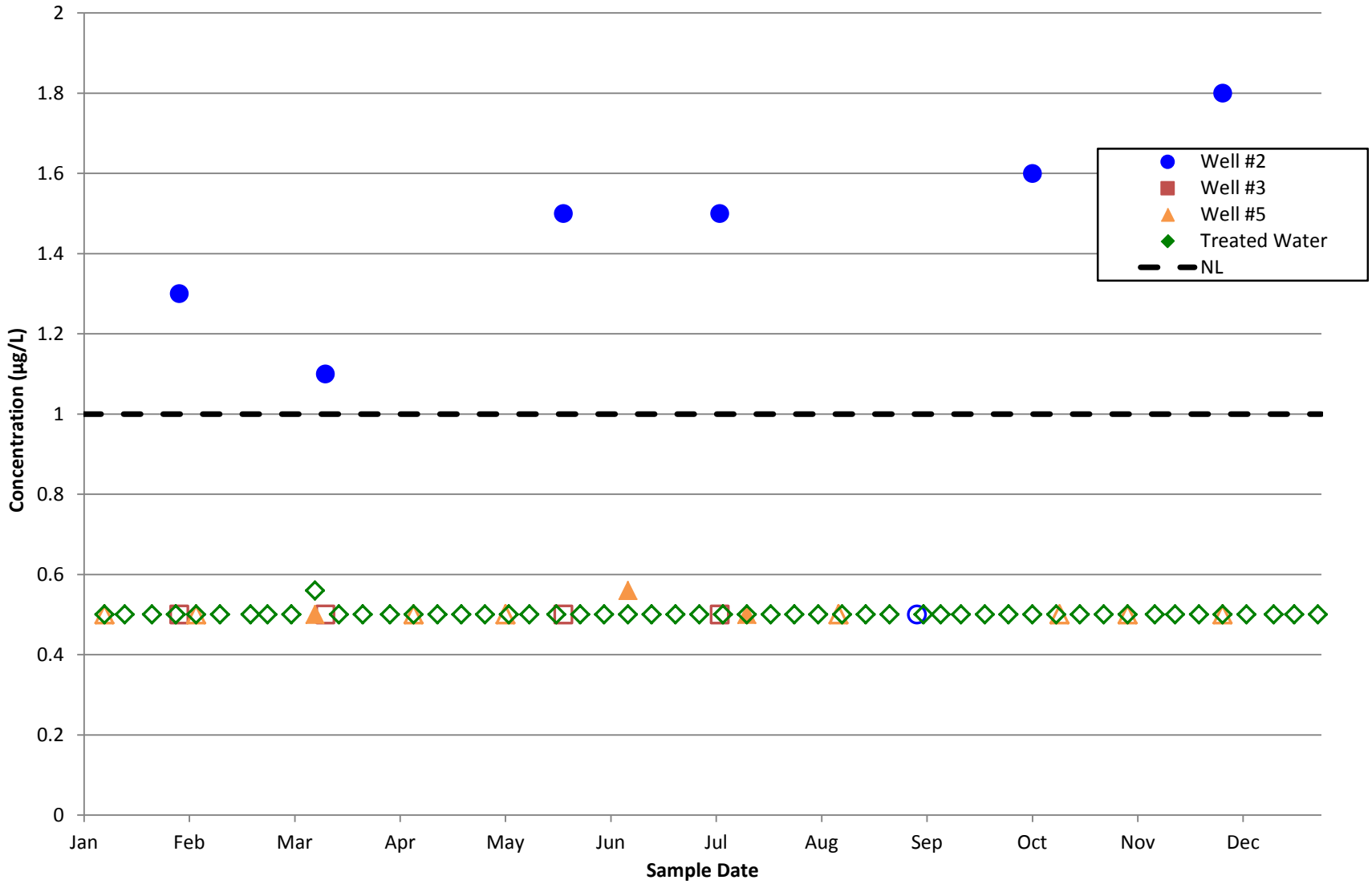
Note: Open symbols signify non-detects.

ERM	1,2,3-TCP CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-15**



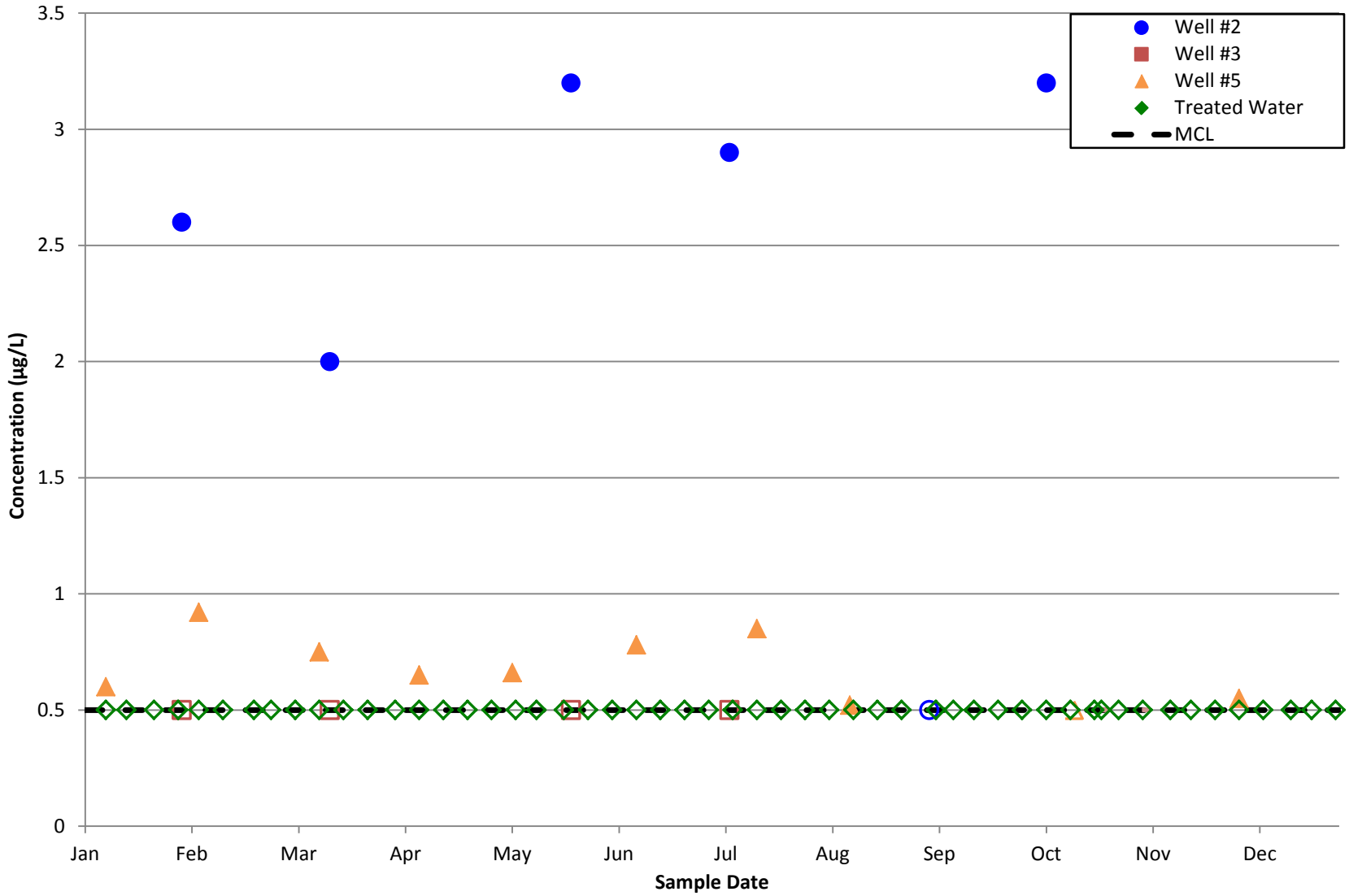
Note: Open symbols signify non-detects.

ERM	1,2-DICHLOROETHANE CONCENTRATIONS, RAW AND TREATED WATER FOR LA PUENTE VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-16**



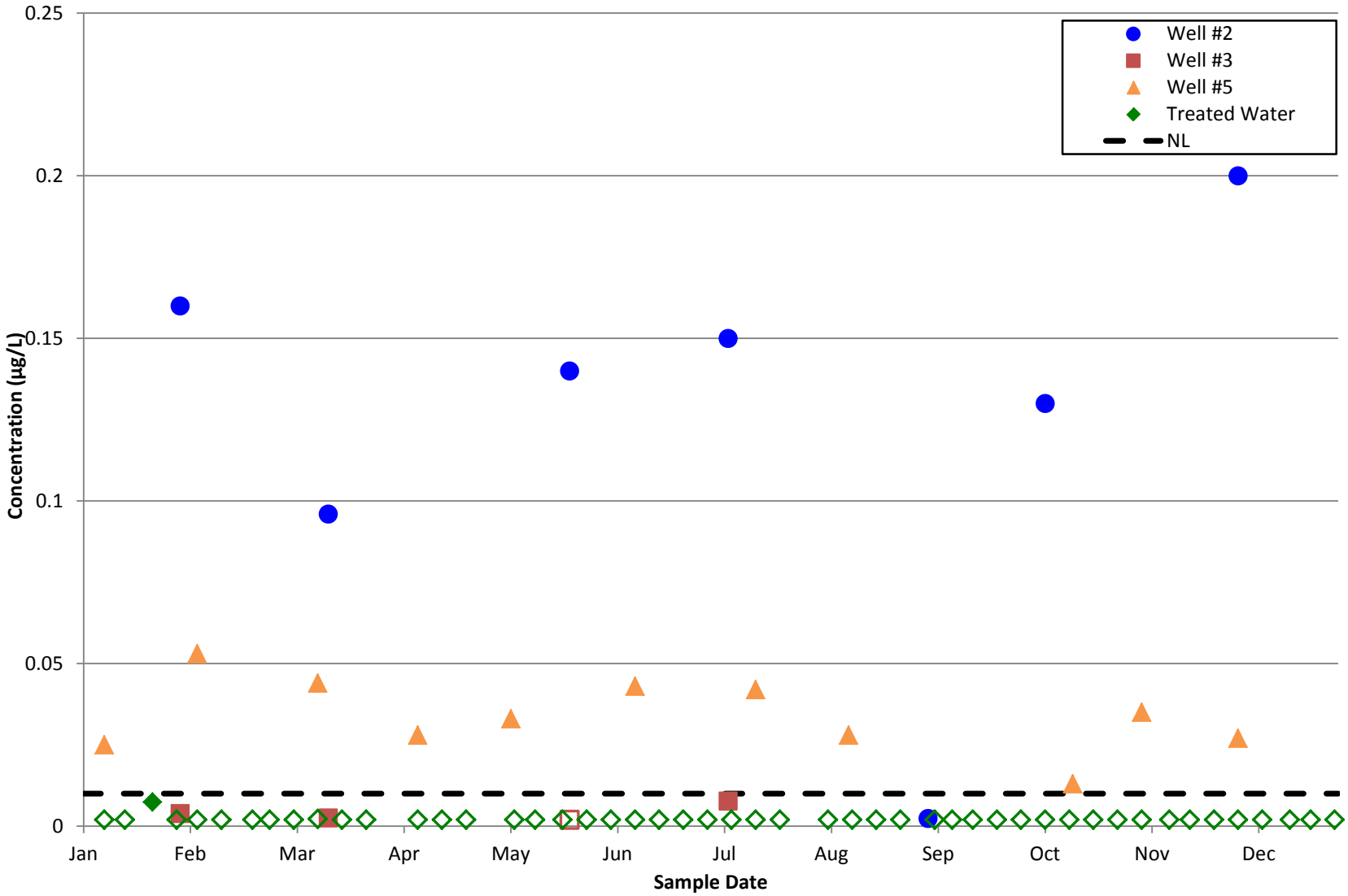
Note: Open symbols signify non-detects.

ERM	1,4-DIOXANE CONCENTRATIONS, RAW AND TREATED WATER FOR LA PUENTE VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-17**



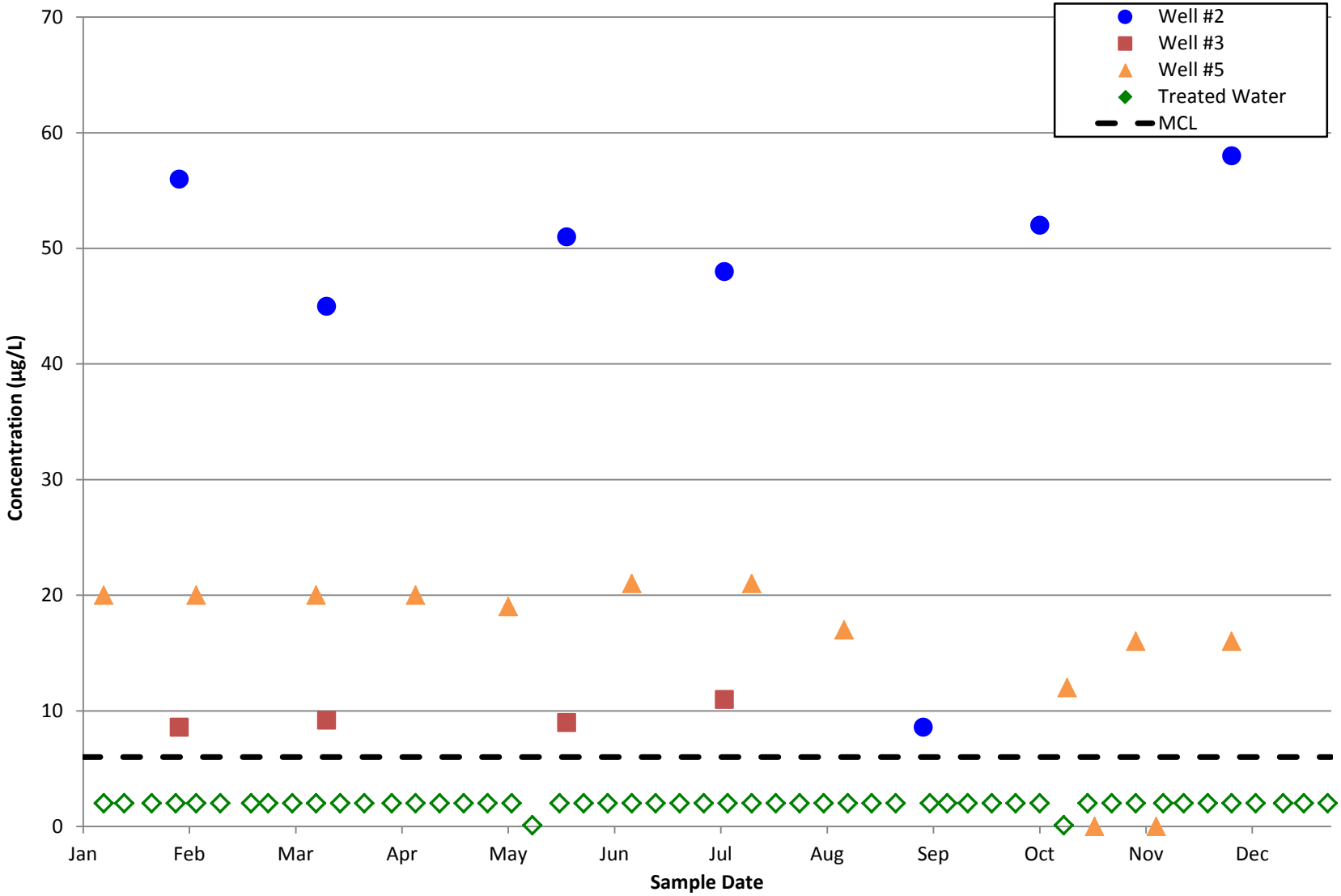
Note: Open symbols signify non-detects.

ERM	CARBON TETRACHLORIDE CONCENTRATIONS, RAW AND TREATED WATER FOR LA PUENTE VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-18**



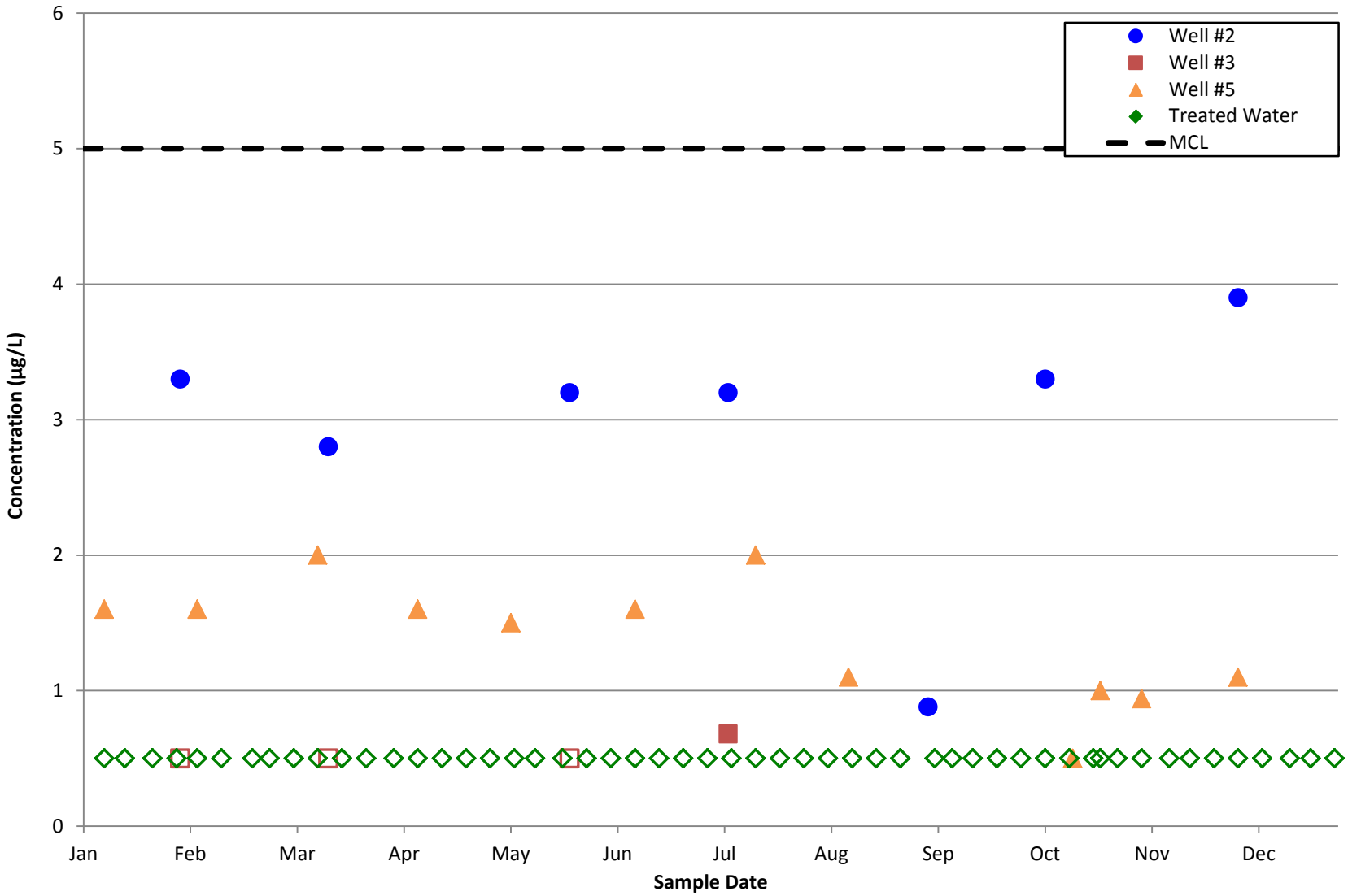
Note: Open symbols signify non-detects.

ERM	N-NITROSODIMETHYLAMINE CONCENTRATIONS, RAW AND TREATED WATER FOR LA PUENTE VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-19**



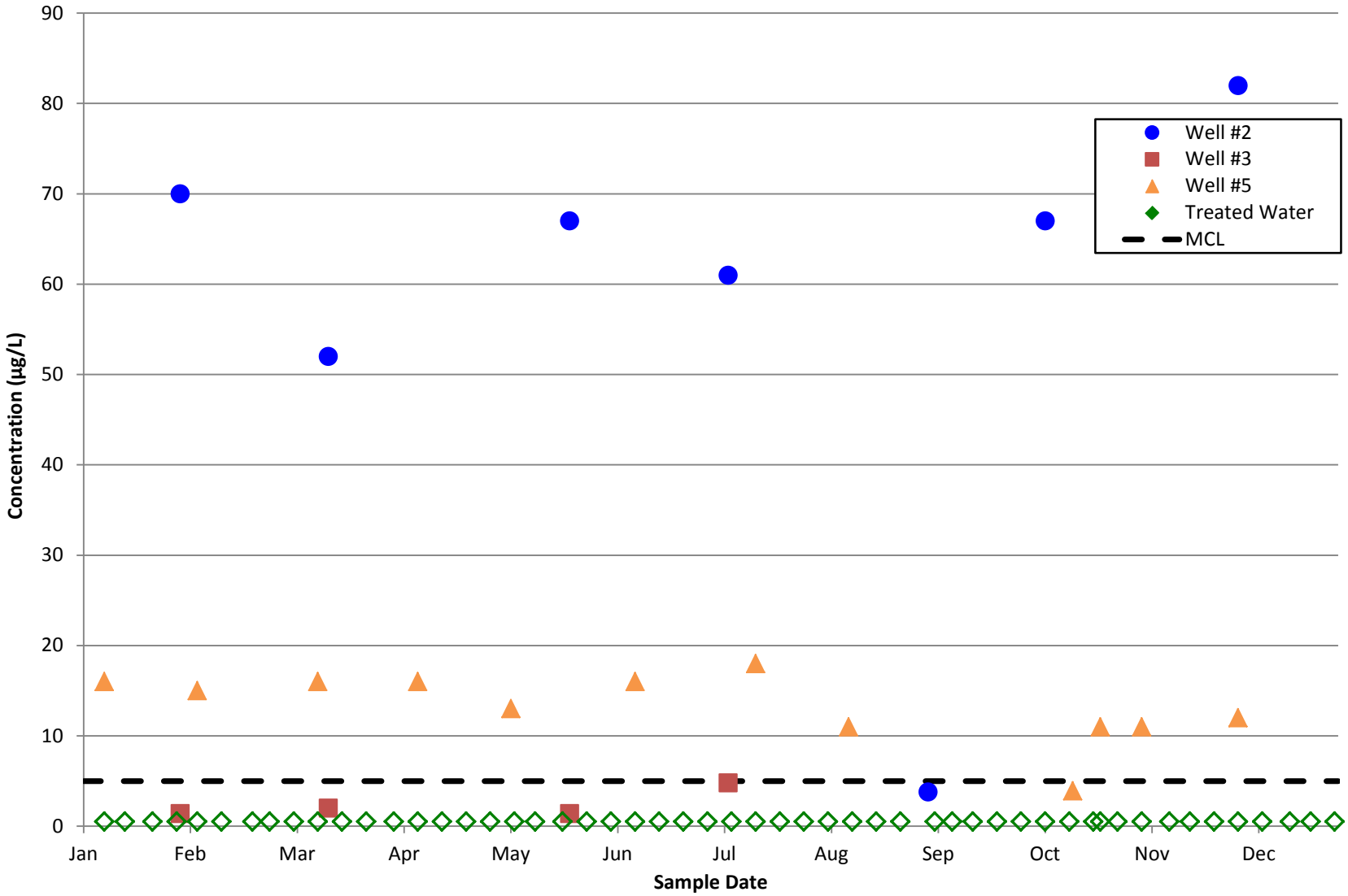
Note: Open symbols signify non-detects.

ERM	PERCHLORATE CONCENTRATIONS, RAW AND TREATED WATER FOR LA PUENTE VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-20**



Note: Open symbols signify non-detects.

ERM	TETRACHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR LA PUENTE VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-21**



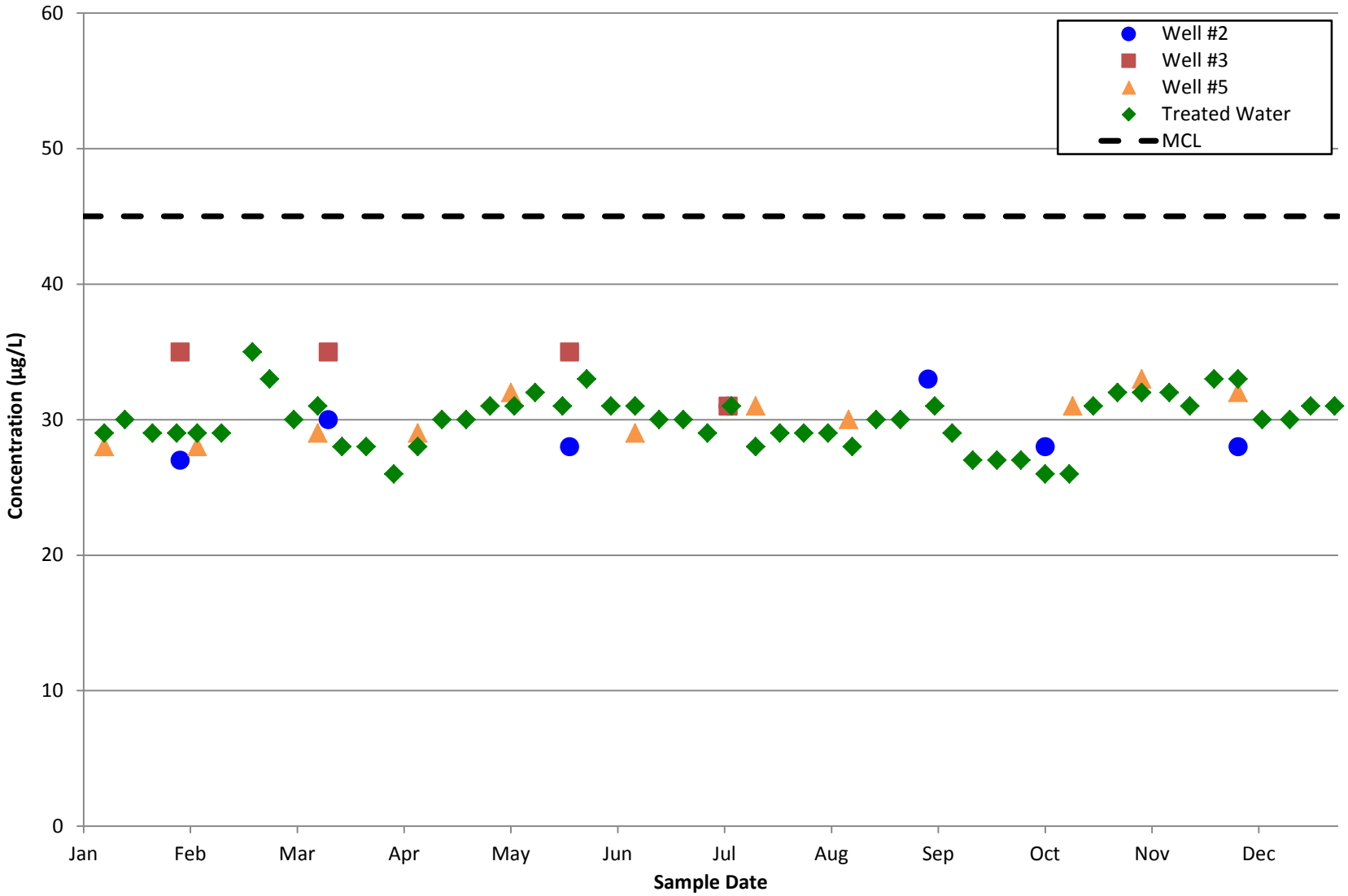
Note: Open symbols signify non-detects.

ERM

TRICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR
LA PUENTE VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014)
Baldwin Park Operable Unit
San Gabriel Valley, California

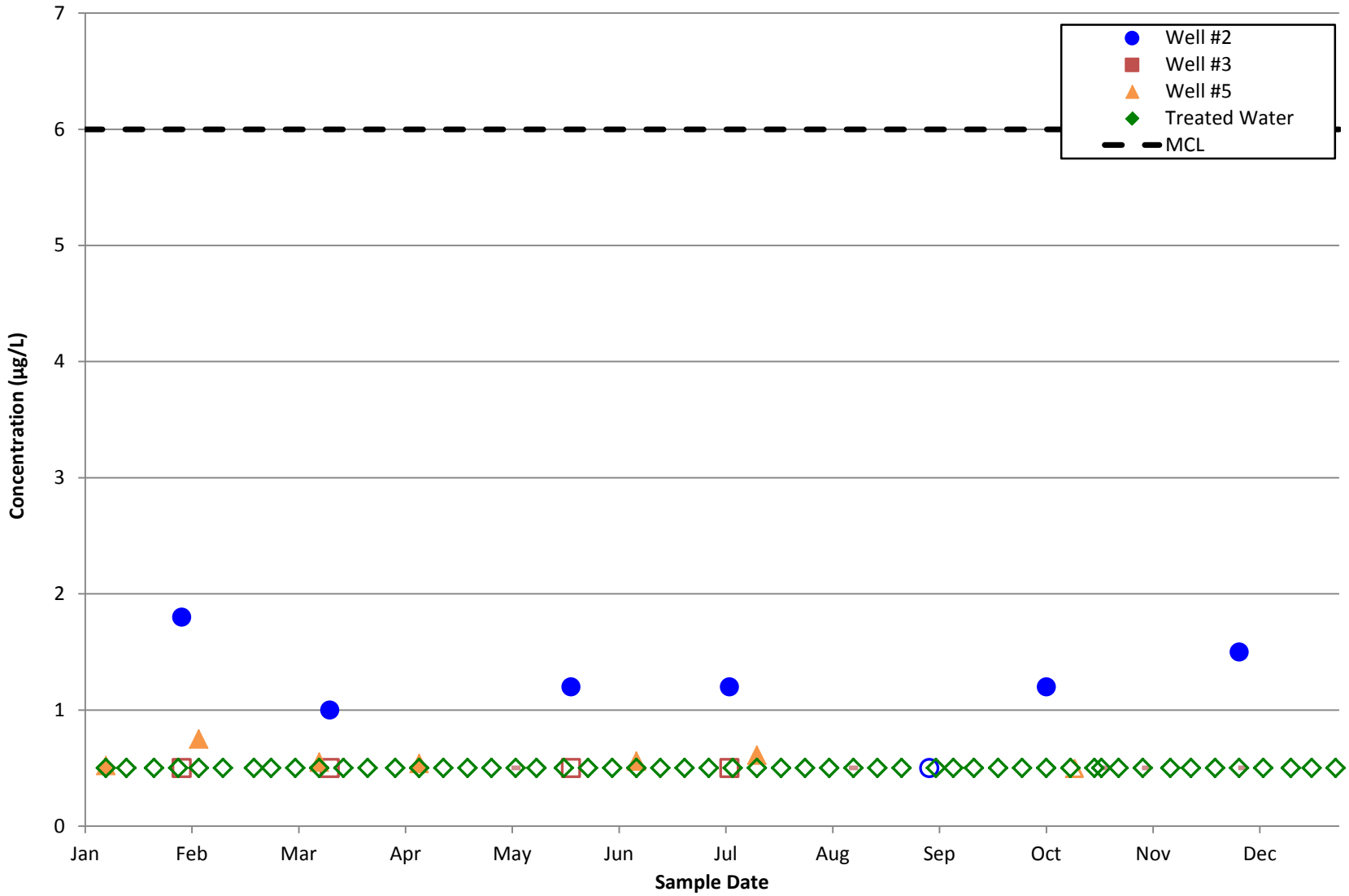
Project No.
32710118

Figure
6-22



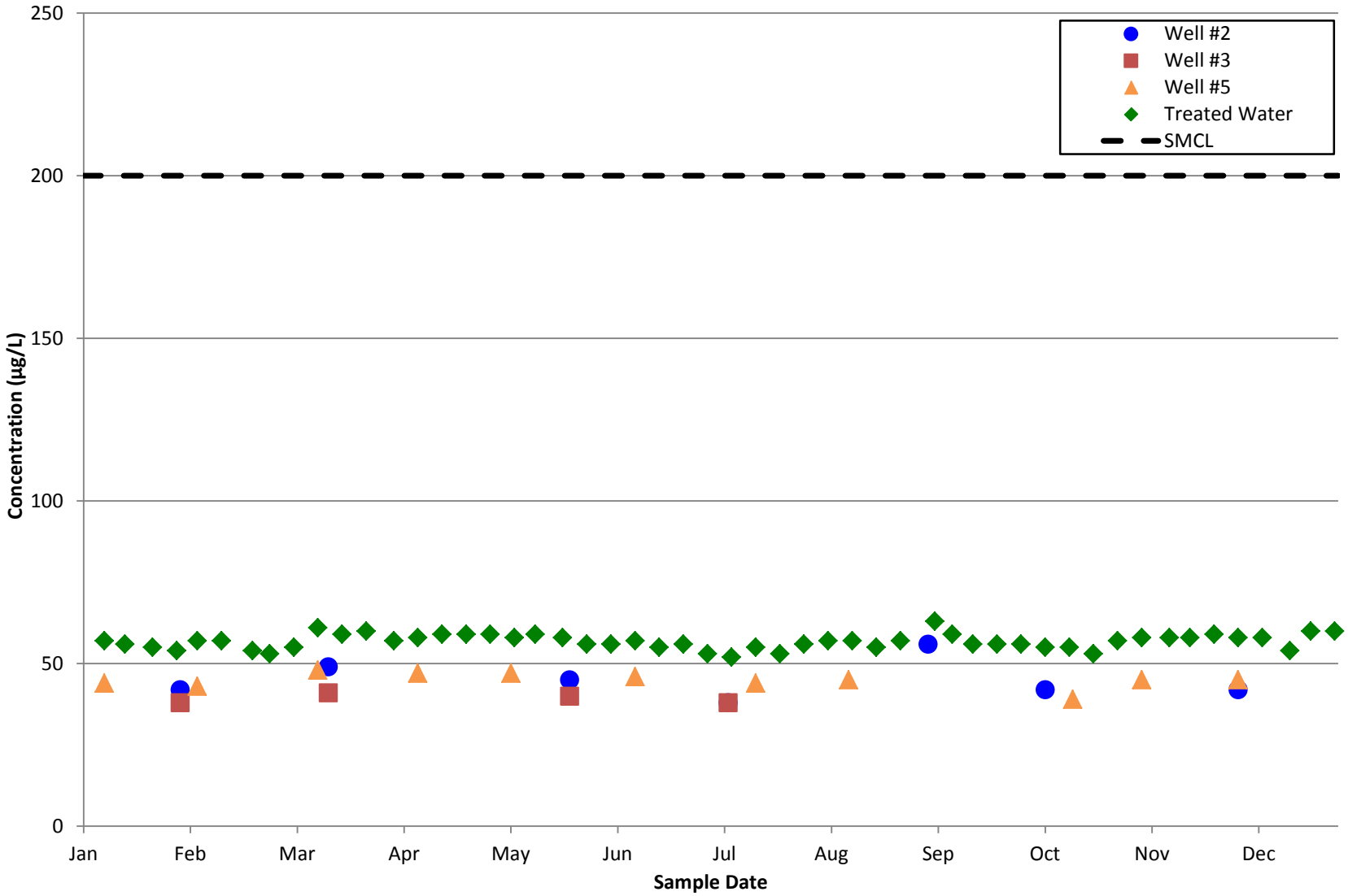
Note: Open symbols signify non-detects.

ERM	NITRATE AS NO3 CONCENTRATIONS, RAW AND TREATED WATER FOR LA PUENTE VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-23**



Note: Open symbols signify non-detects.

ERM	CIS-1,2-DICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR LA PUENTE VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-24**



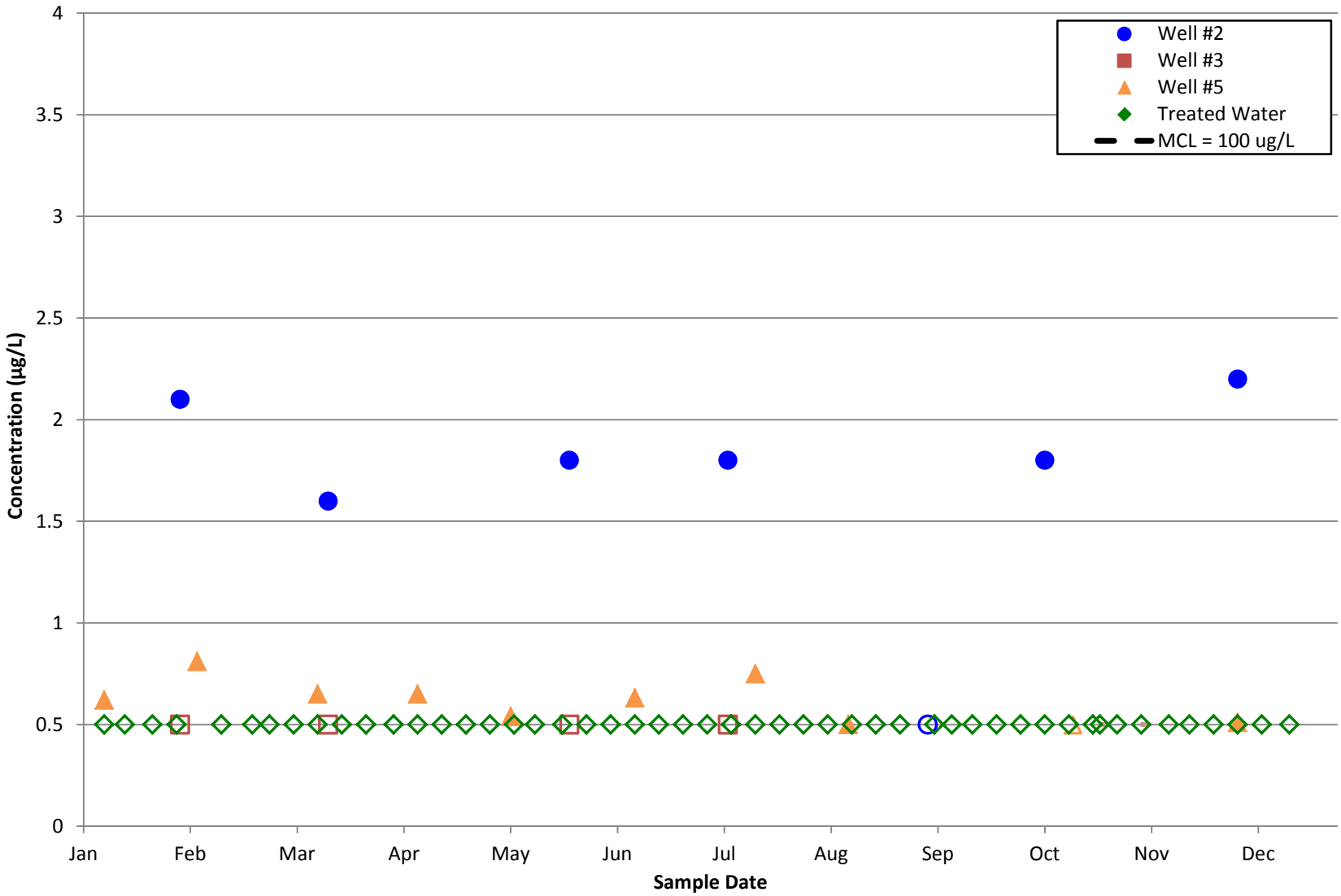
Note: Open symbols signify non-detects.

ERM

SULFATE AS SO4 CONCENTRATIONS, RAW AND TREATED WATER FOR
LA PUENTE VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
32710118

Figure
6-25



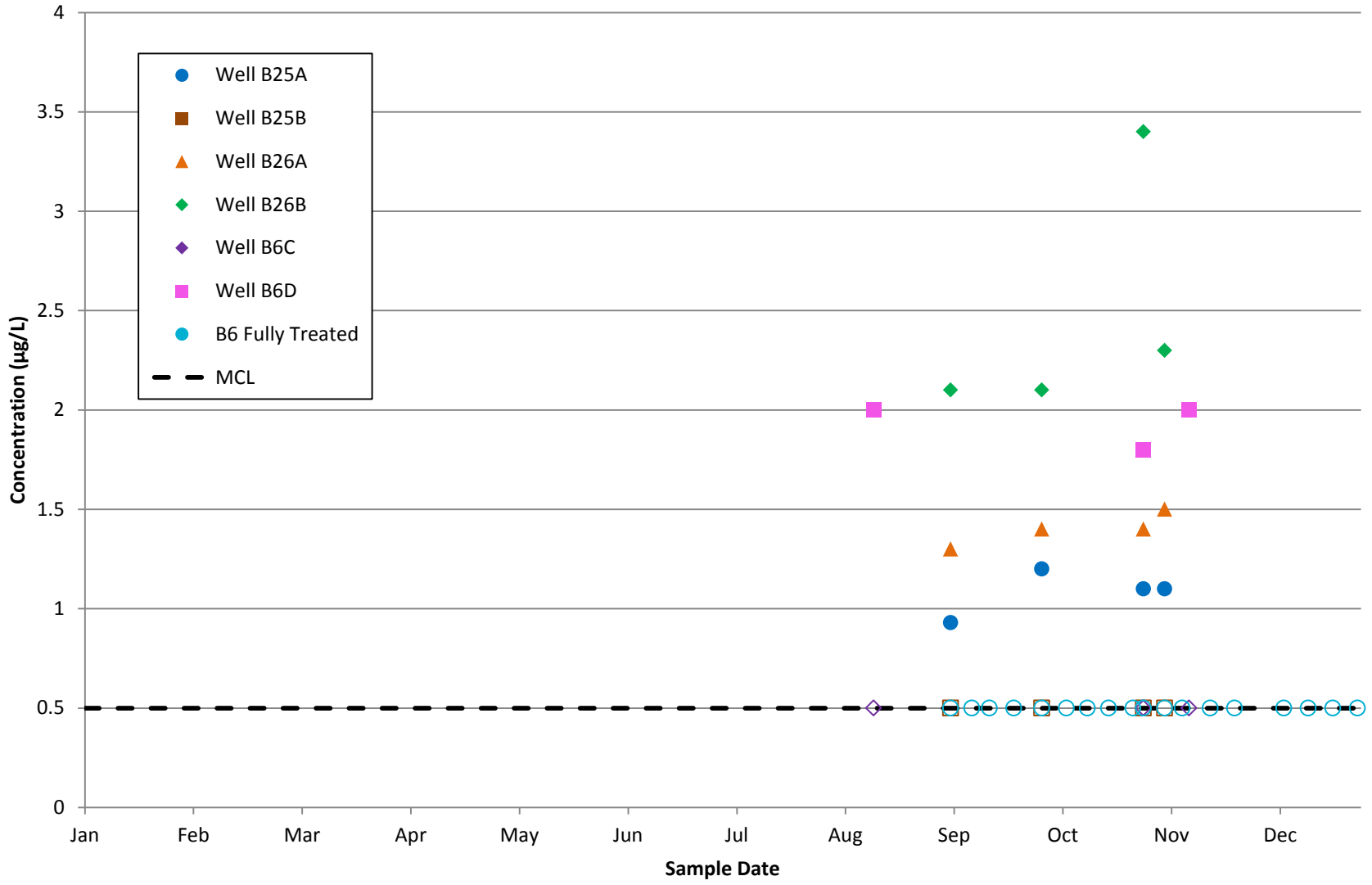
Note: Open symbols signify non-detects.

ERM

CHLOROFORM CONCENTRATIONS, RAW AND TREATED WATER FOR
LA PUENTE VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2014)
Baldwin Park Operable Unit
San Gabriel Valley, California

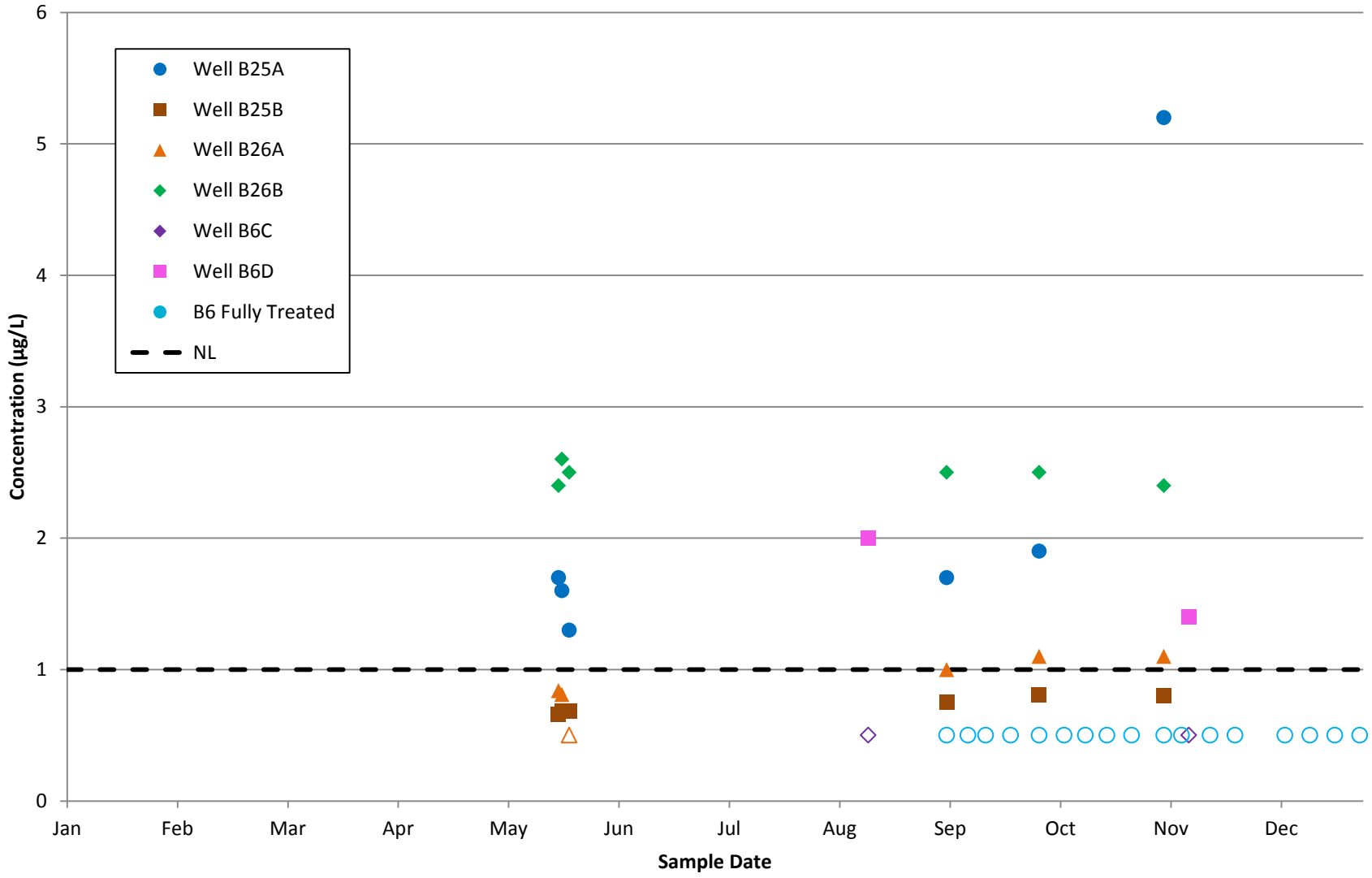
Project No.
32710118

Figure
6-26



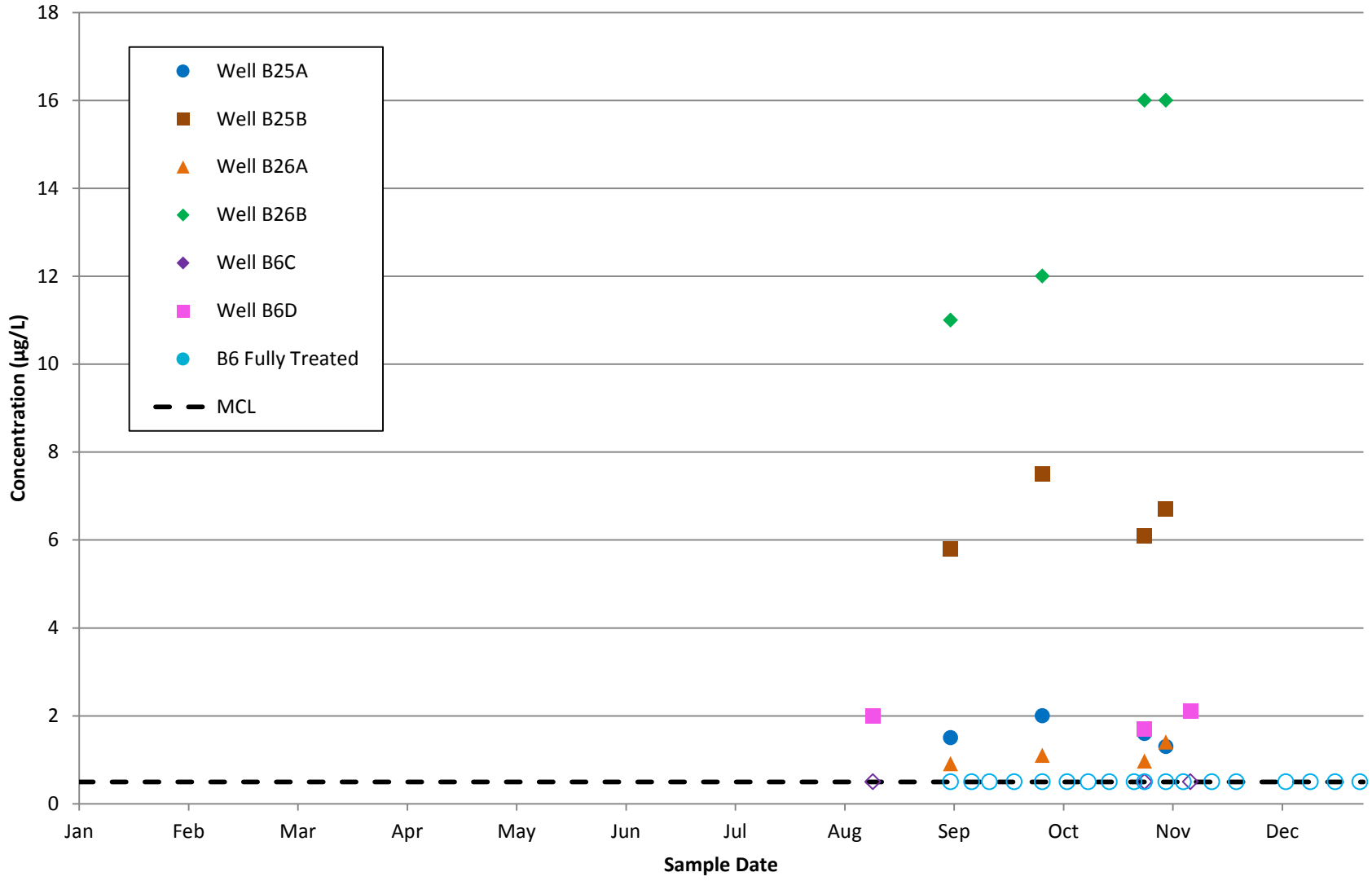
Note: Open symbols signify non-detects.

ERM	1,2-DICHLOROETHANE CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-27**



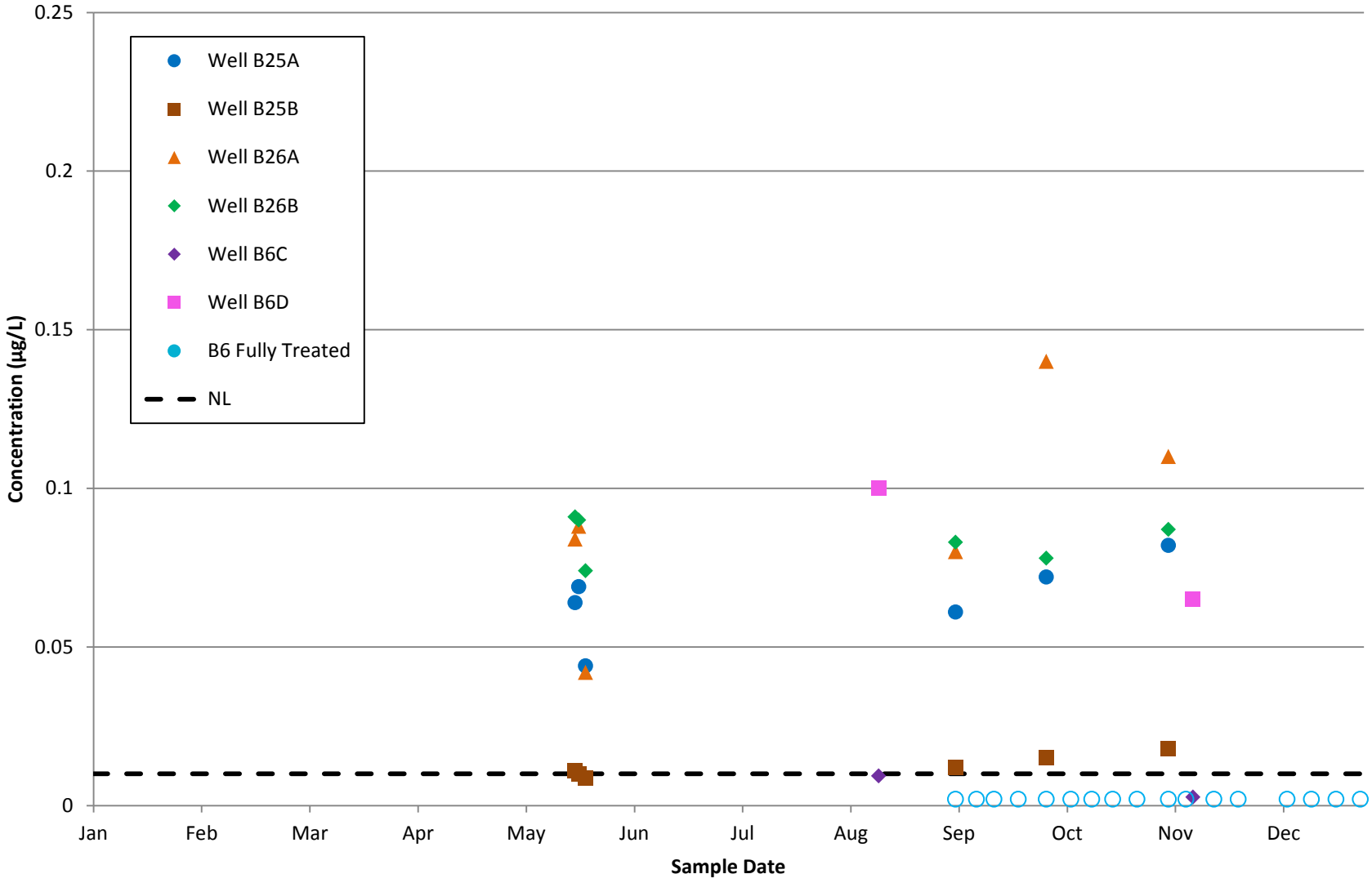
Note: Open symbols signify non-detects.

ERM	1,4-DIOXANE CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-28**



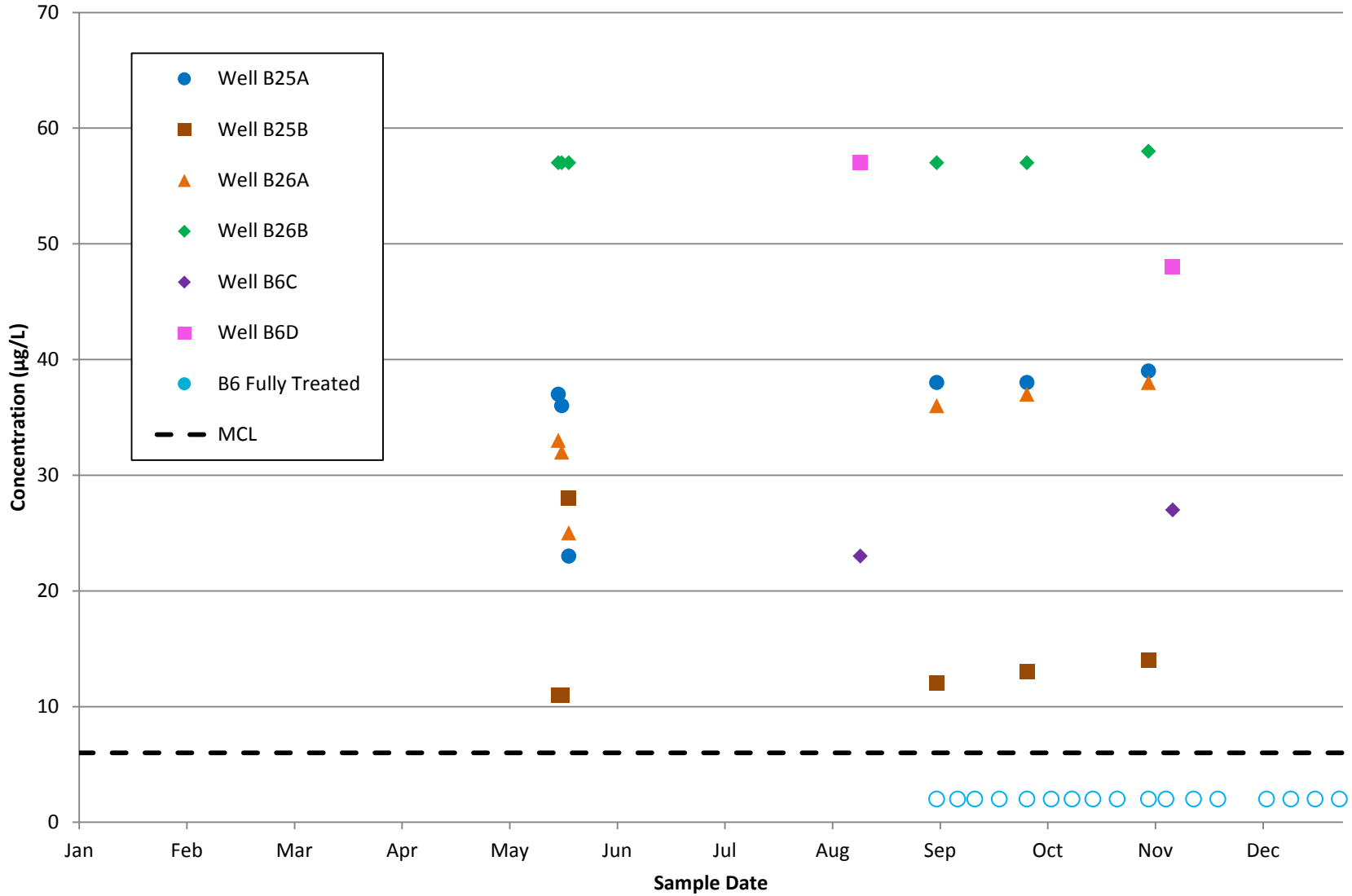
Note: Open symbols signify non-detects.

ERM	CARBON TETRACHLORIDE CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-29**



Note: Open symbols signify non-detects.

ERM	N-NITROSODIMETHYLAMINE CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-30**



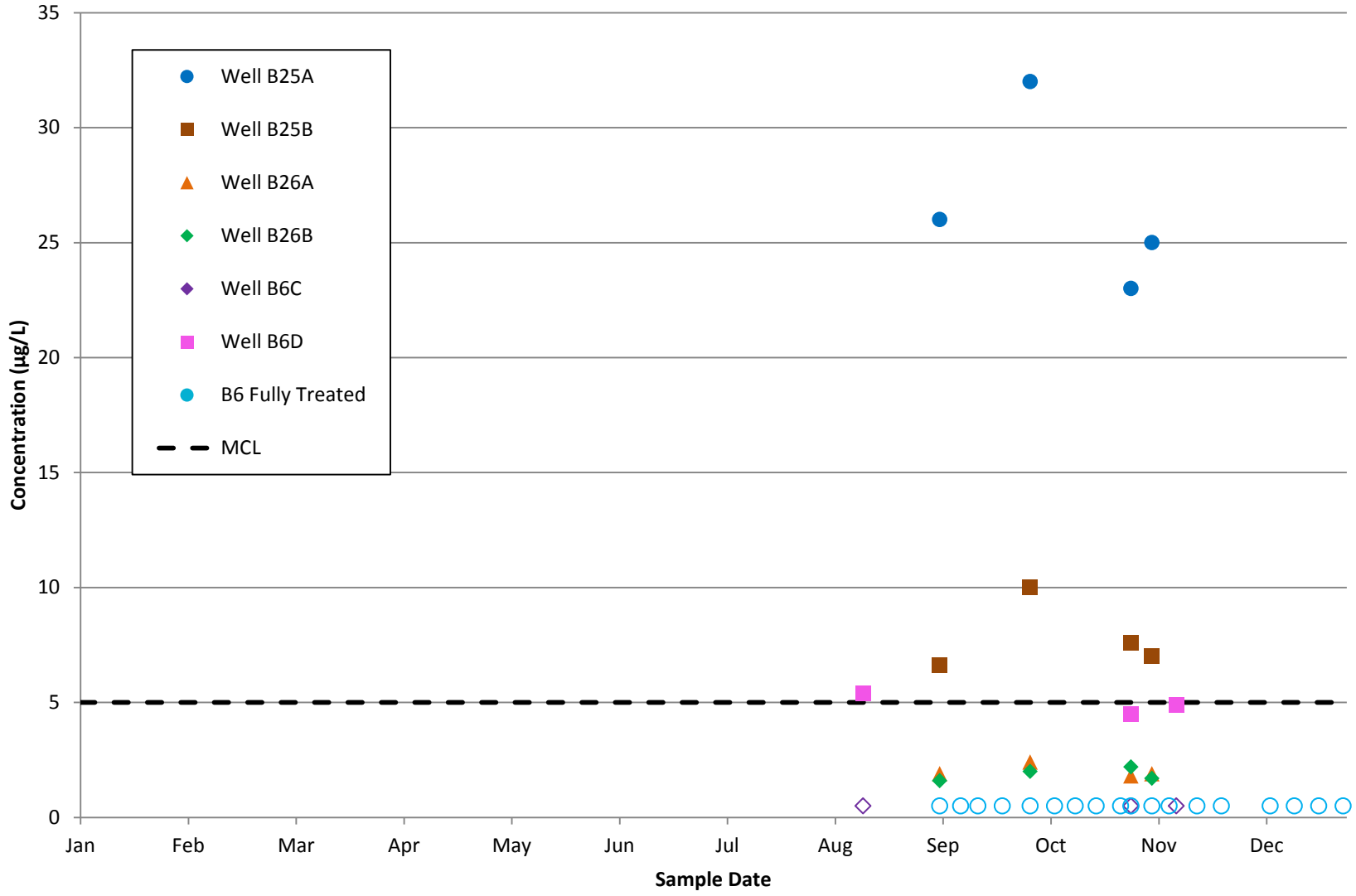
Note: Open symbols signify non-detects.

ERM

PERCHLORATE CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2014)
Baldwin Park Operable Unit
San Gabriel Valley, California

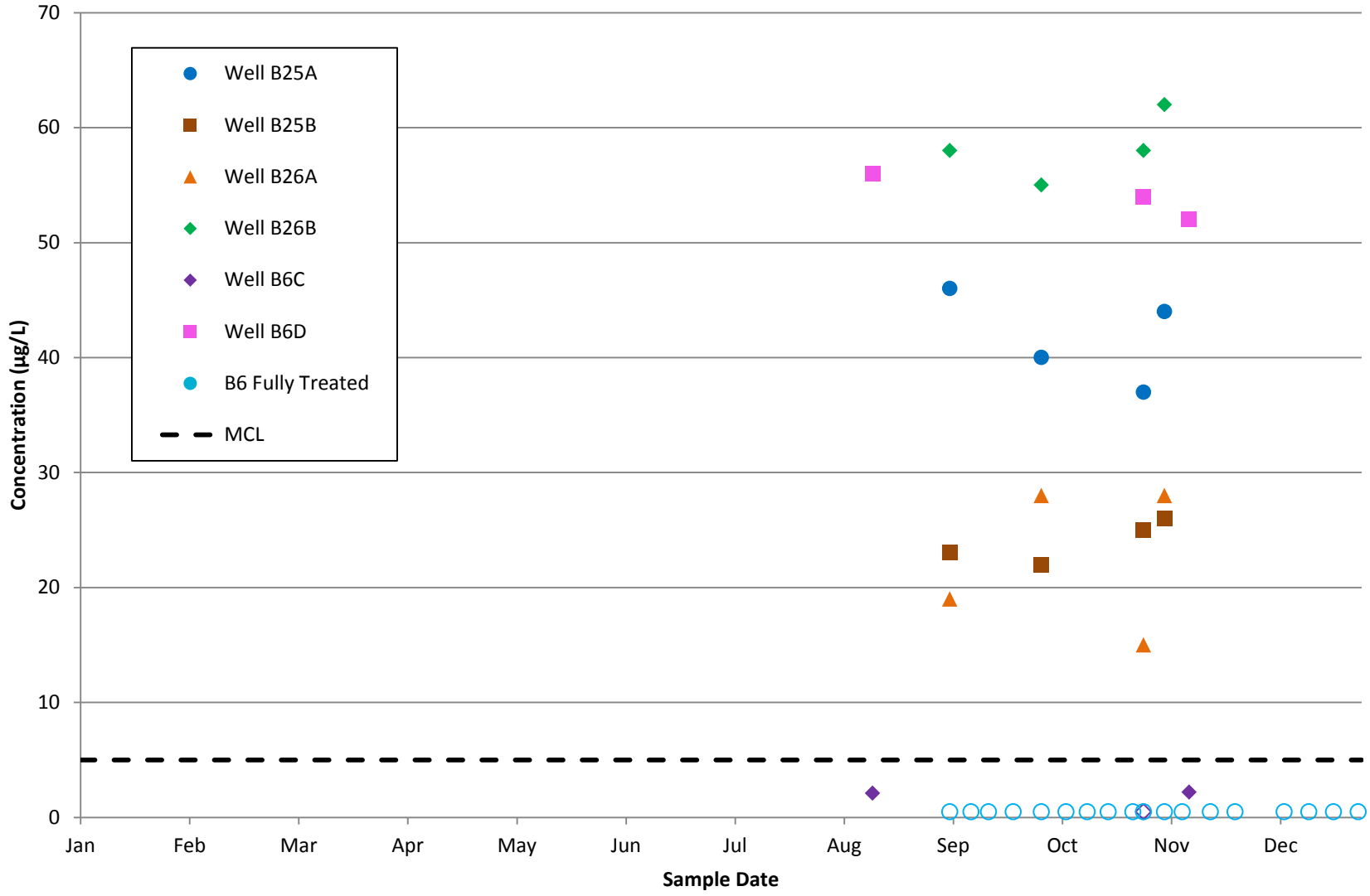
Project No.
32710118

Figure
6-31



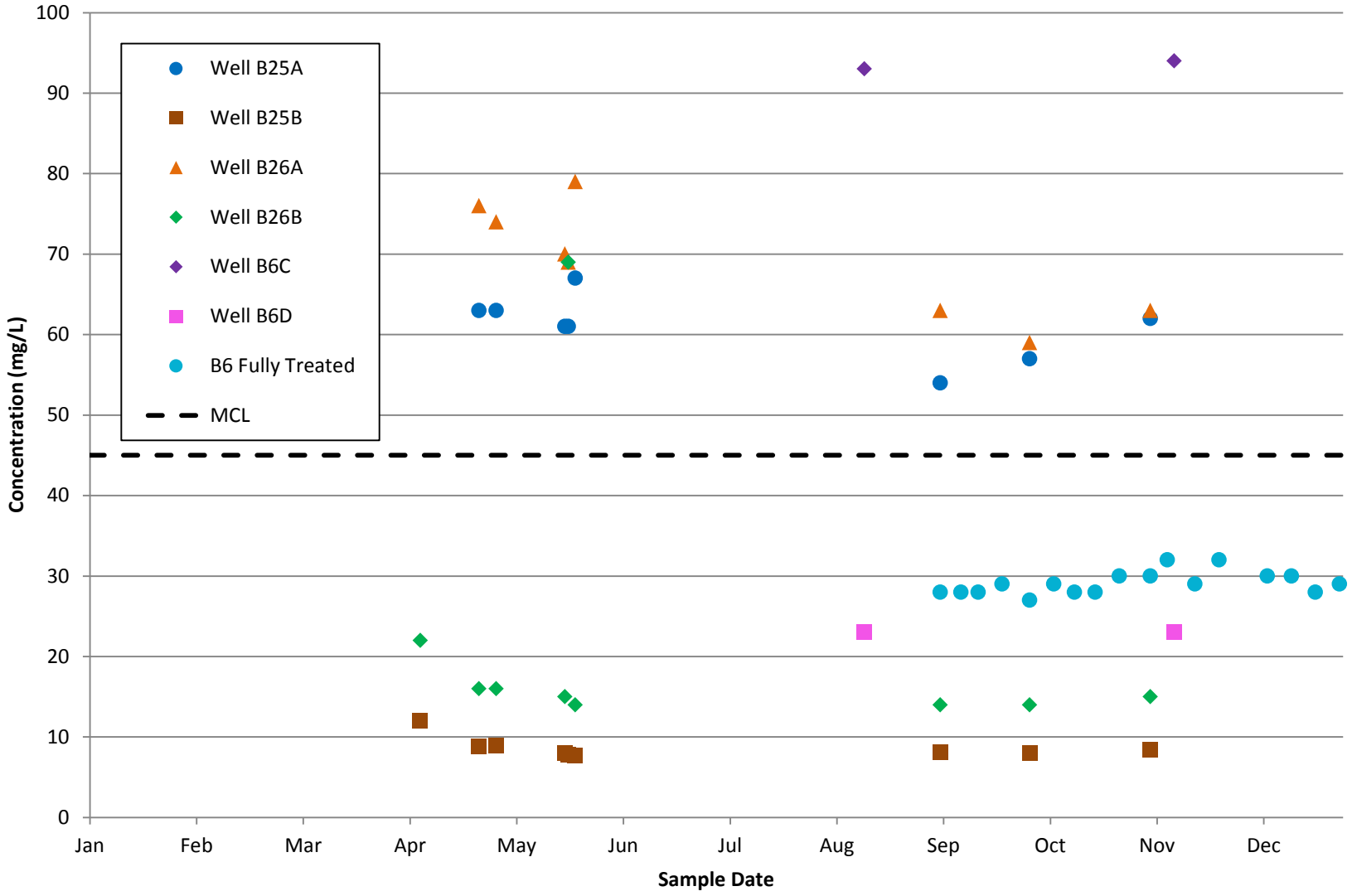
Note: Open symbols signify non-detects.

ERM	TETRACHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-32**



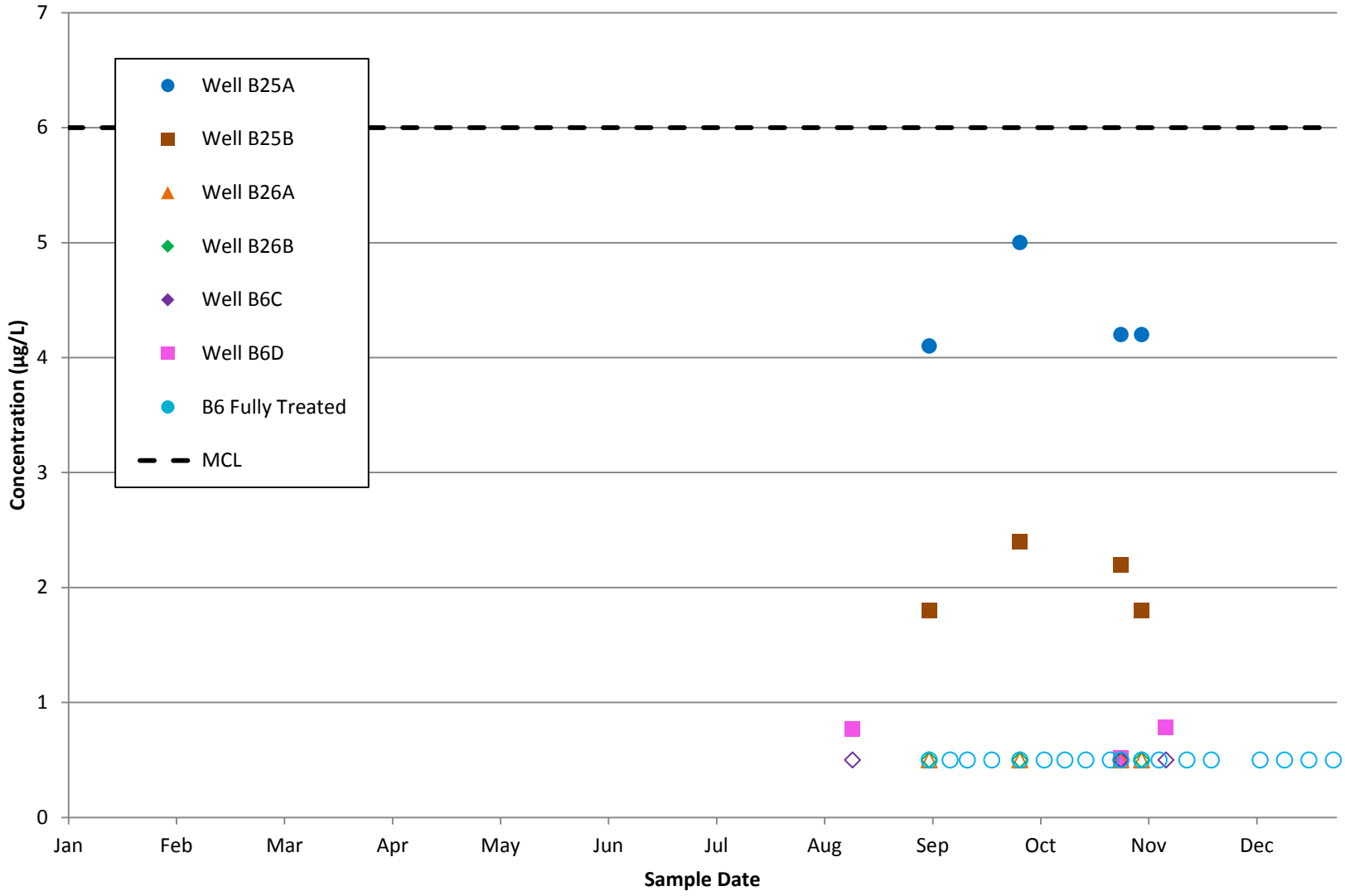
Note: Open symbols signify non-detects.

ERM	TRICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-33**



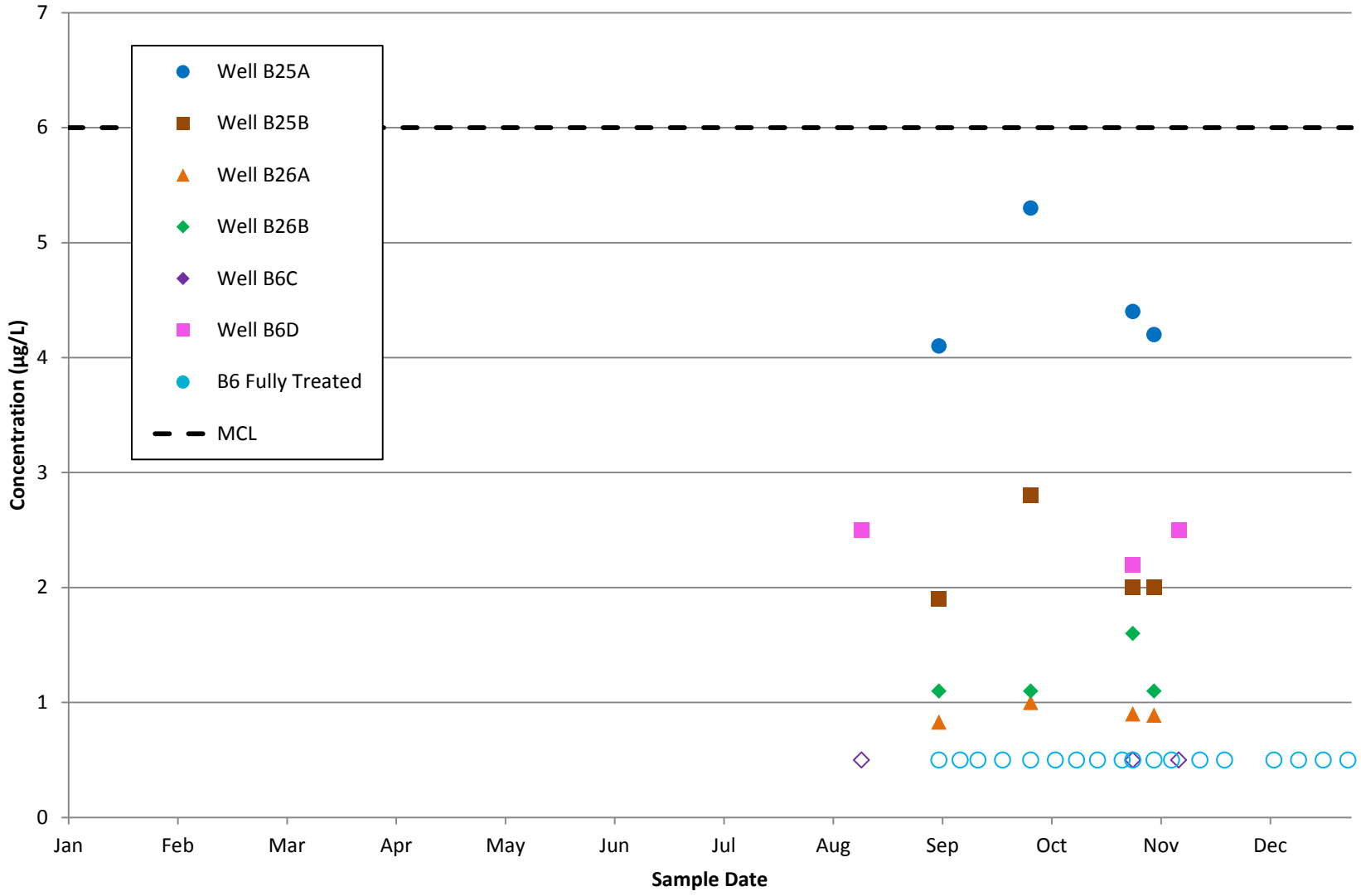
Note: Open symbols signify non-detects.

ERM	NITRATE AS NO3 CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-34**



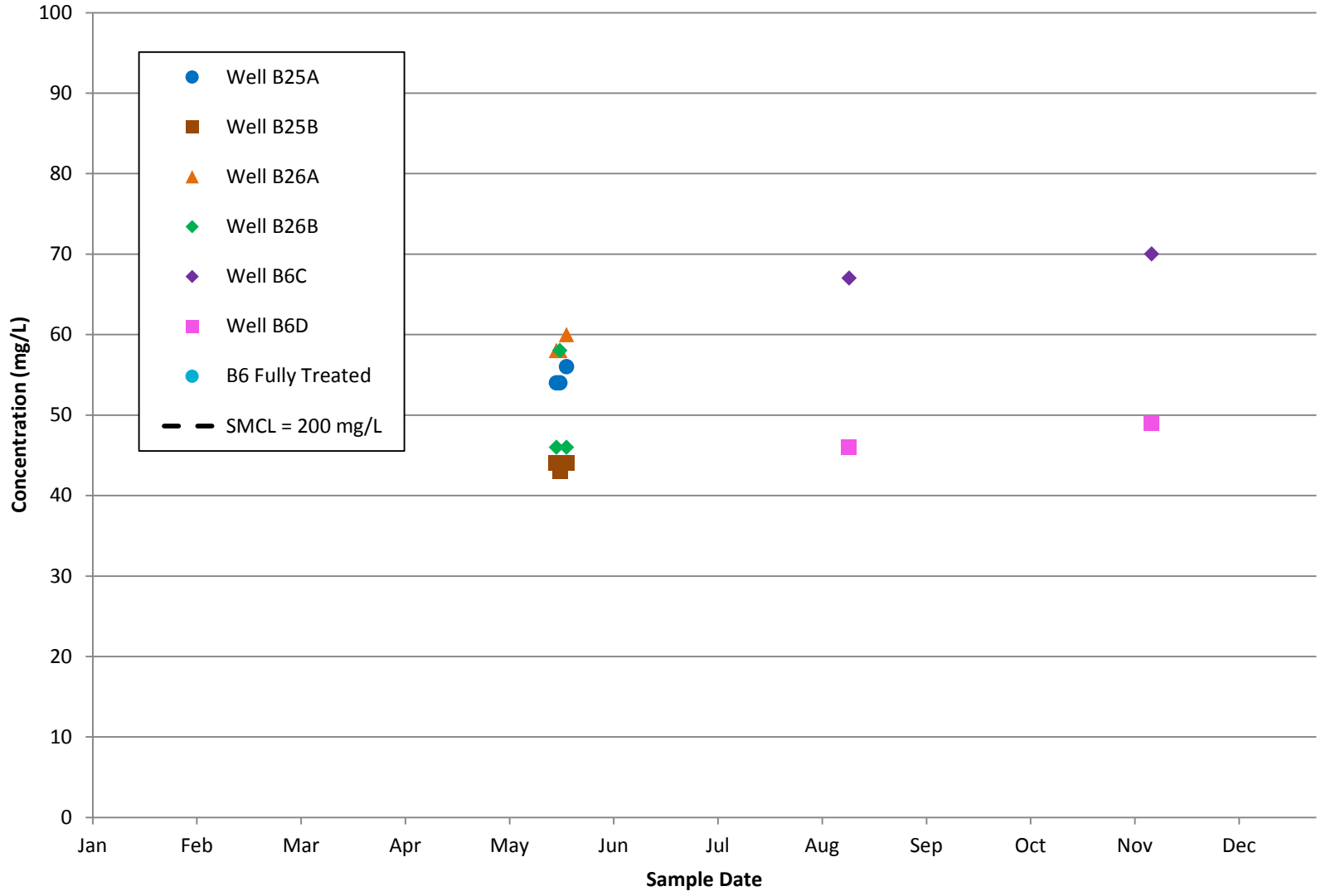
Note: Open symbols signify non-detects.

ERM	1,1-DICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-35**



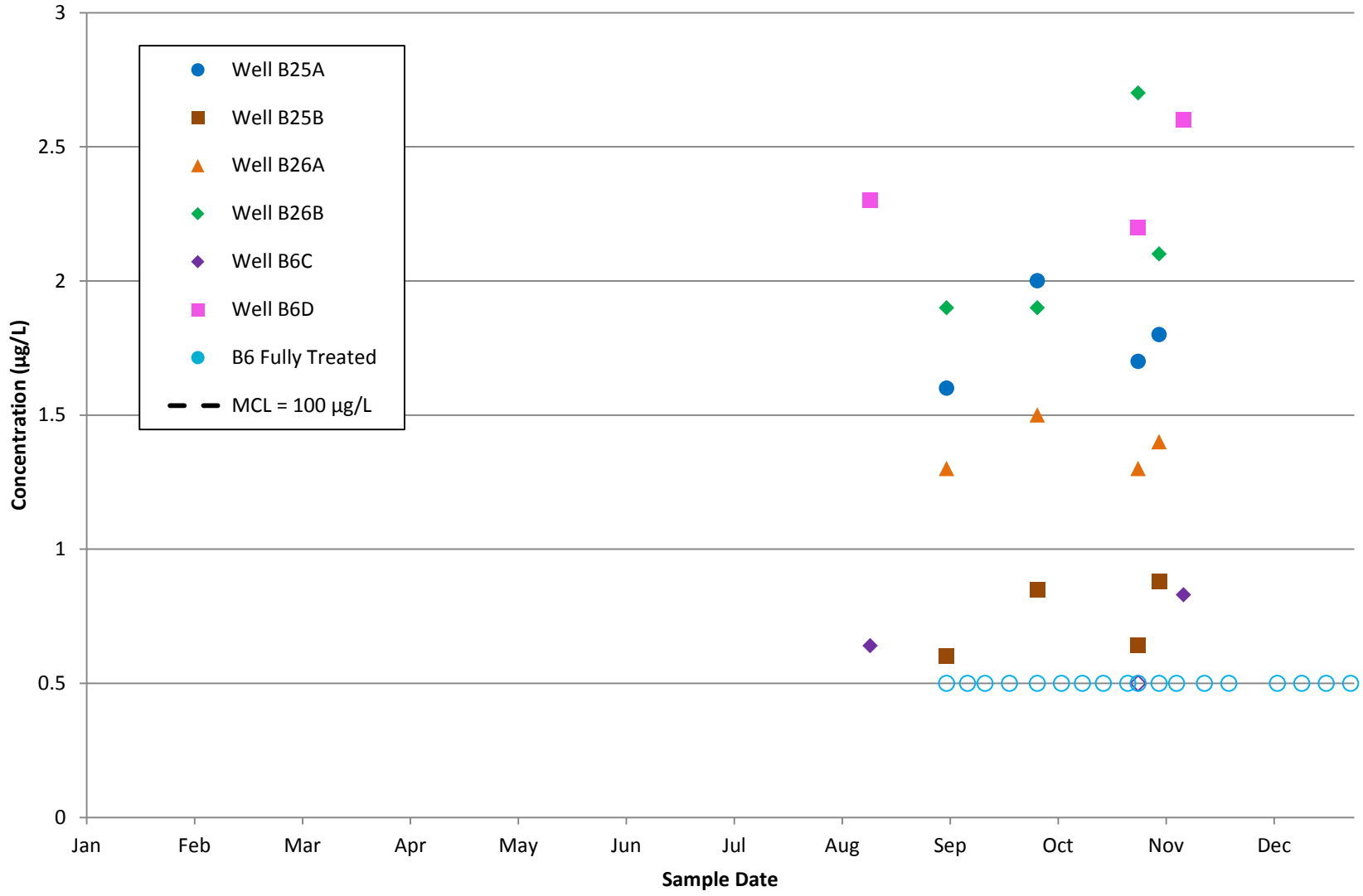
Note: Open symbols signify non-detects.

ERM	CIS-1,2-DICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-36**



Note: Open symbols signify non-detects.

ERM	SULFATE AS SO4 CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-37**



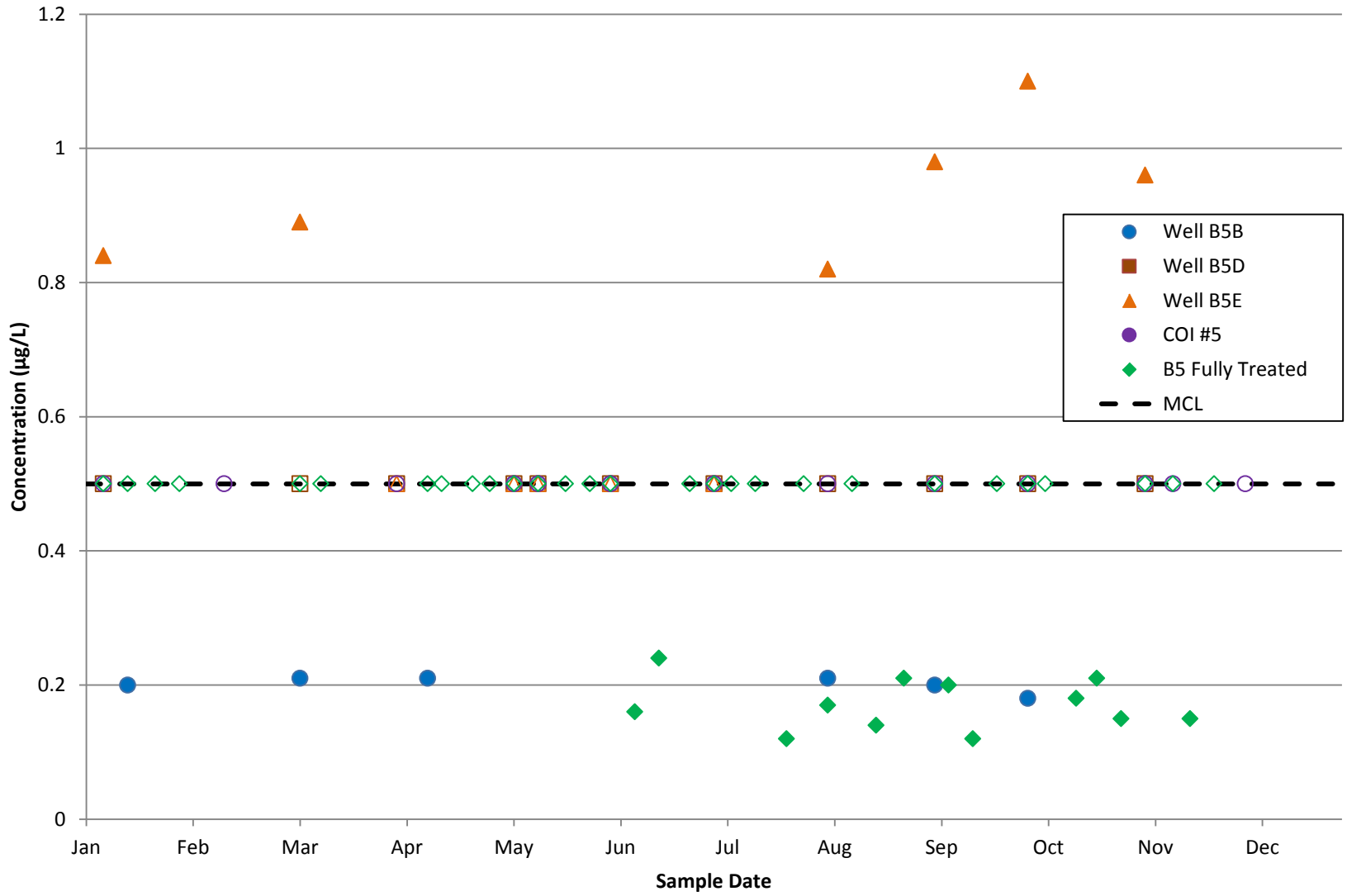
Note: Open symbols signify non-detects.

ERM

CHLOROFORM CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2014)
Baldwin Park Operable Unit
San Gabriel Valley, California

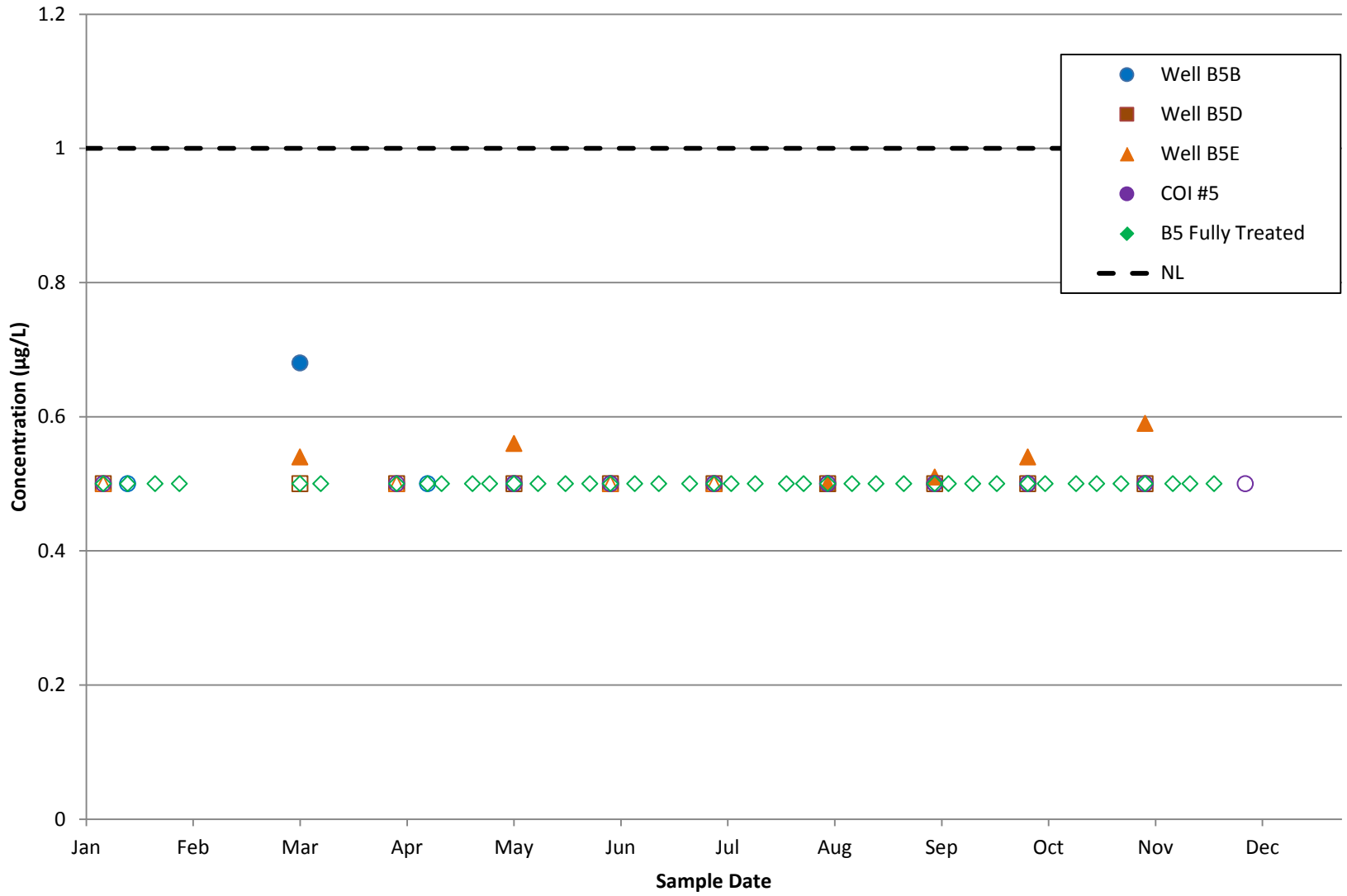
Project No.
32710118

Figure
6-38



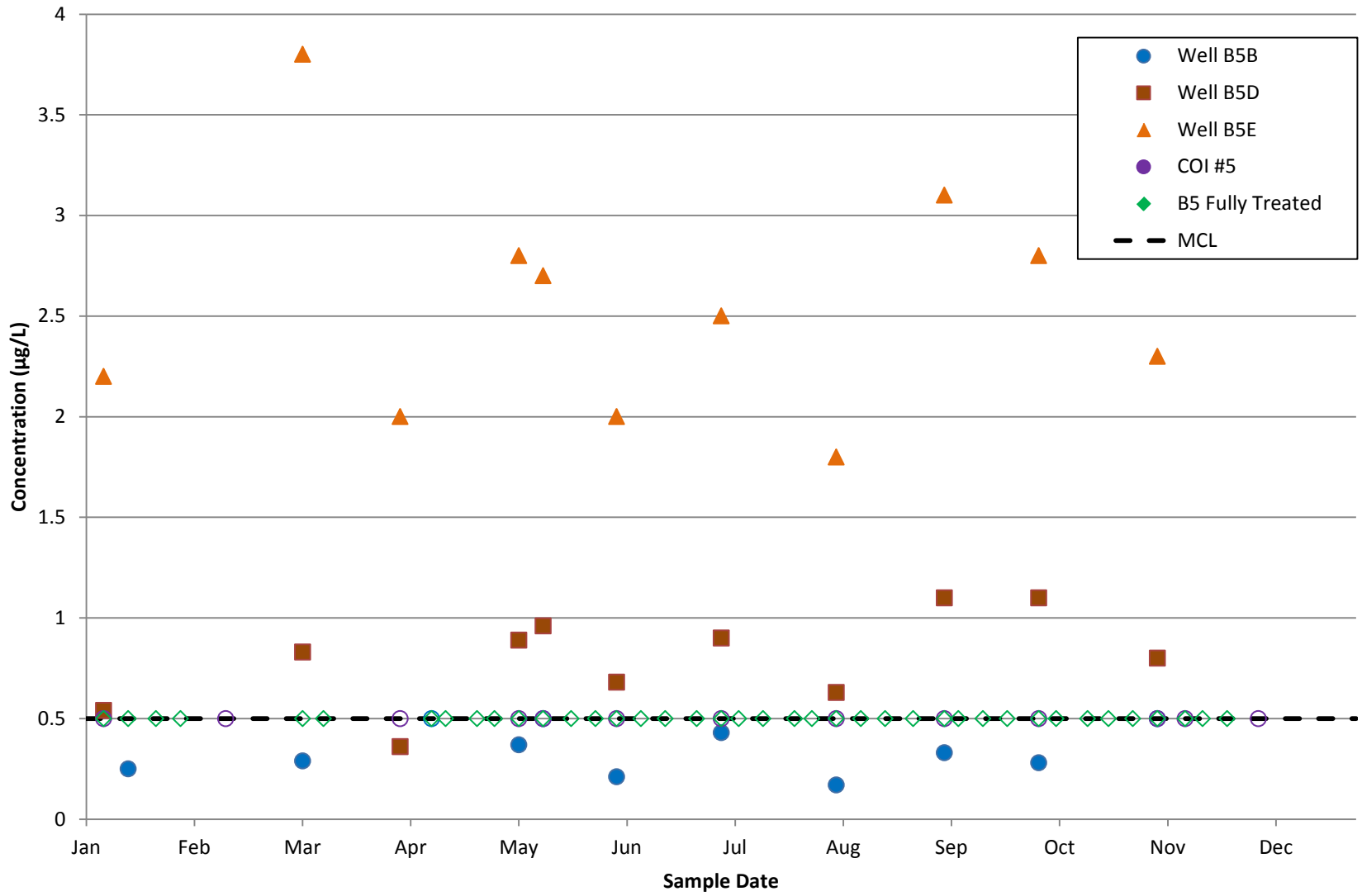
Note: Open symbols signify non-detects.

ERM	1,2-DICHLOROETHANE CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-39**



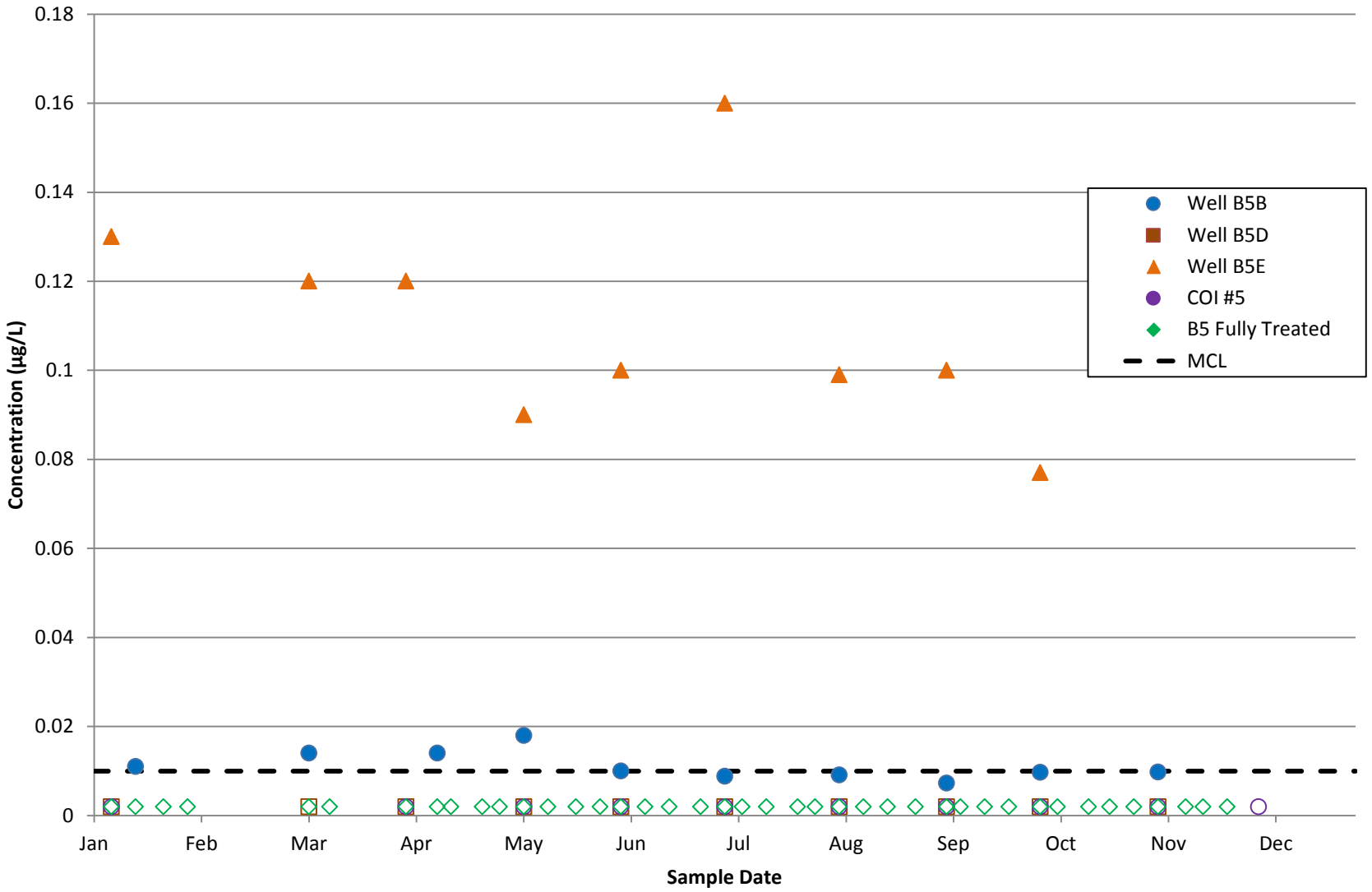
Note: Open symbols signify non-detects.

ERM	1,4-DIOXANE CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-40**



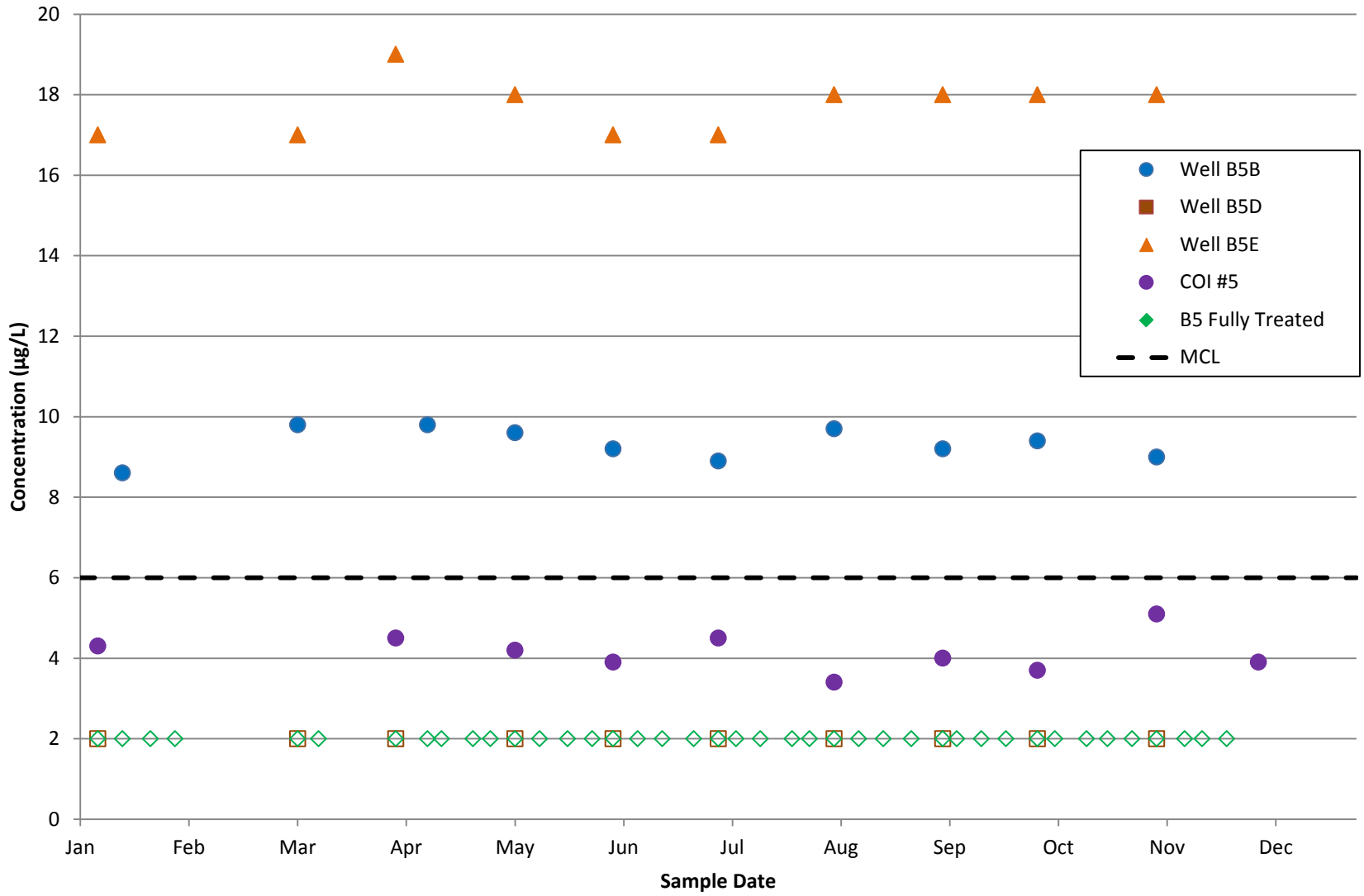
Note: Open symbols signify non-detects.

ERM	CARBON TETRACHLORIDE CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-41**



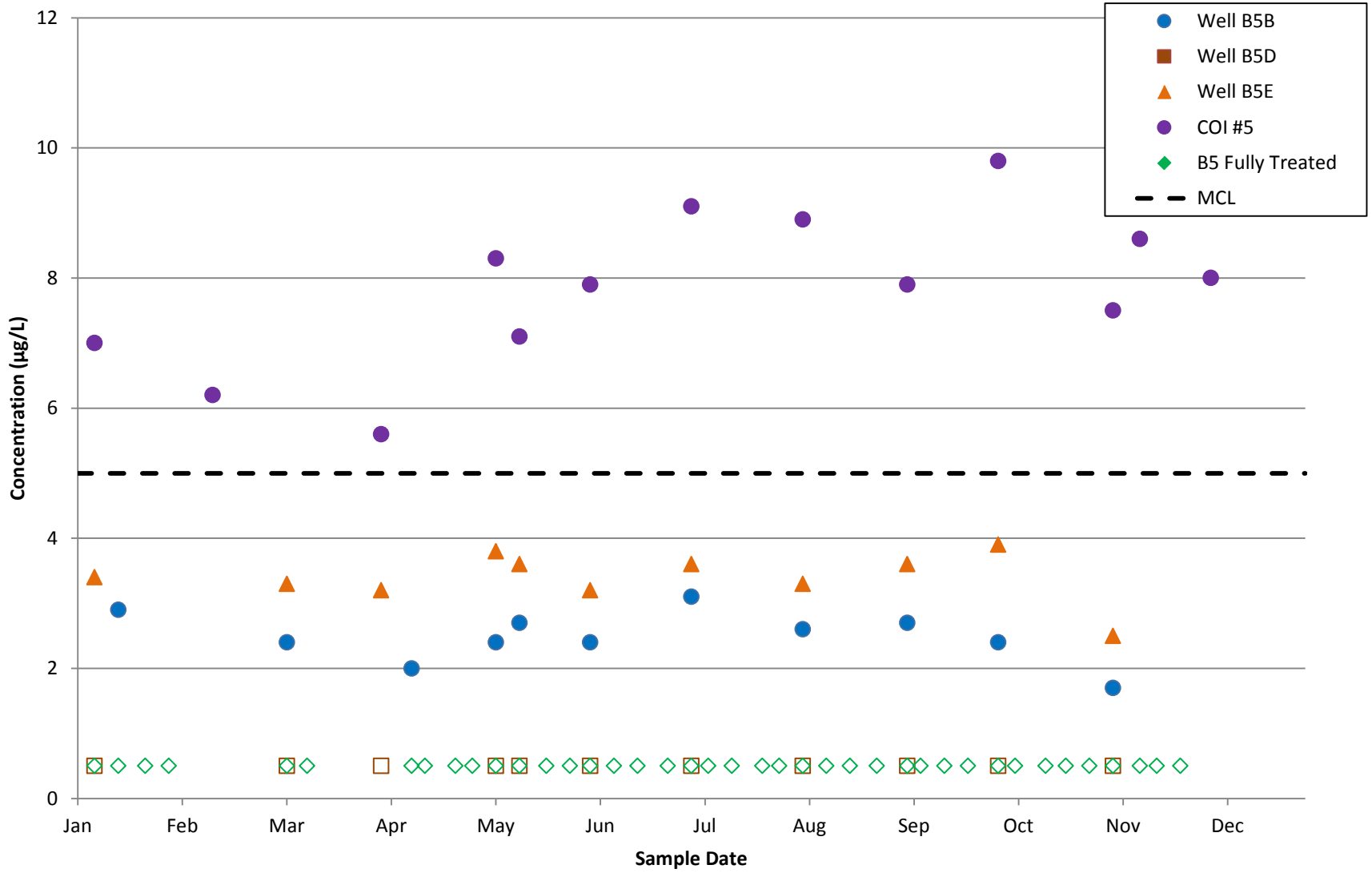
Note: Open symbols signify non-detects.

ERM	N-NITROSODIMETHYLAMINE CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-42**



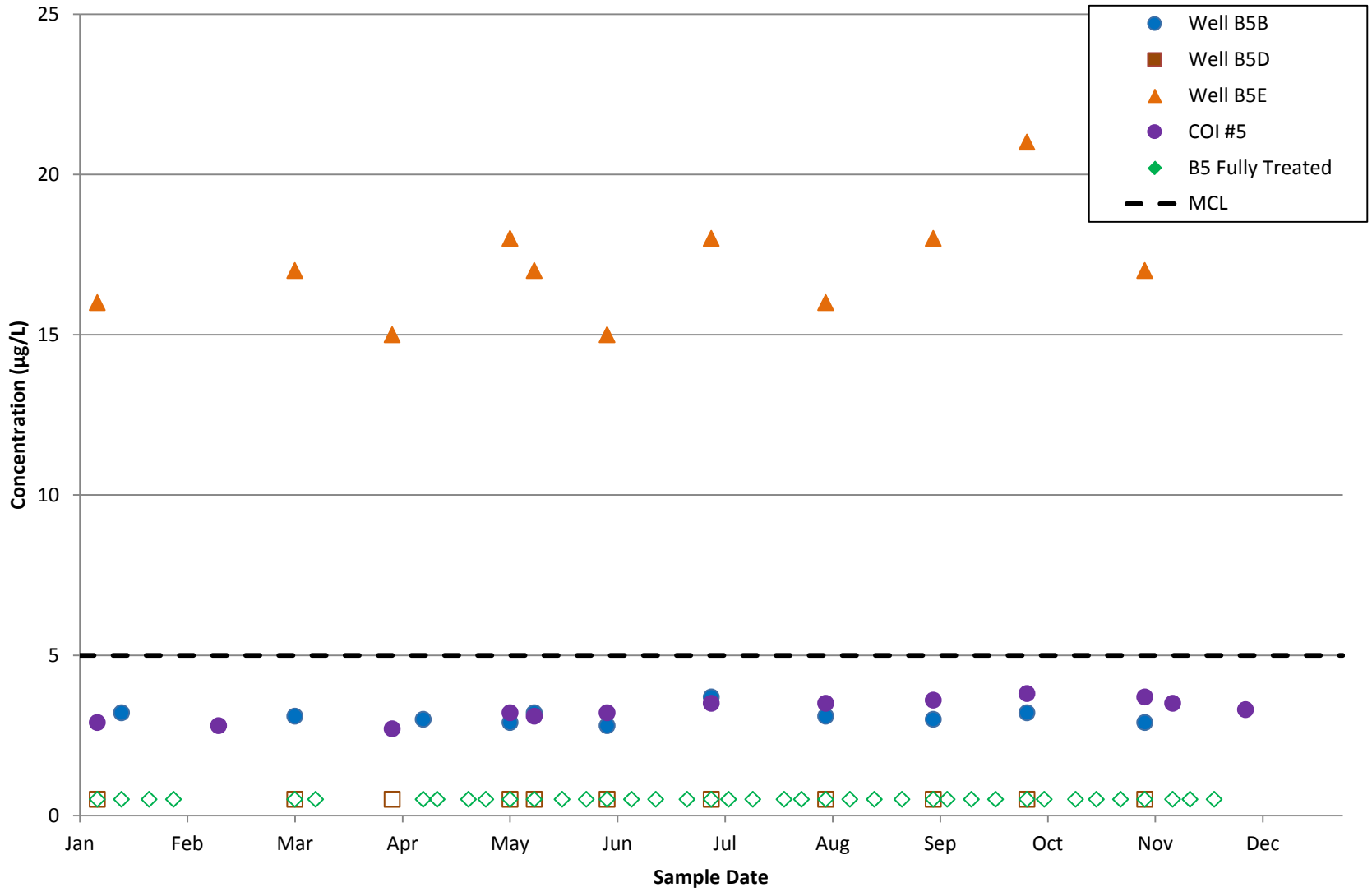
Note: Open symbols signify non-detects.

ERM	PERCHLORATE CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-43**



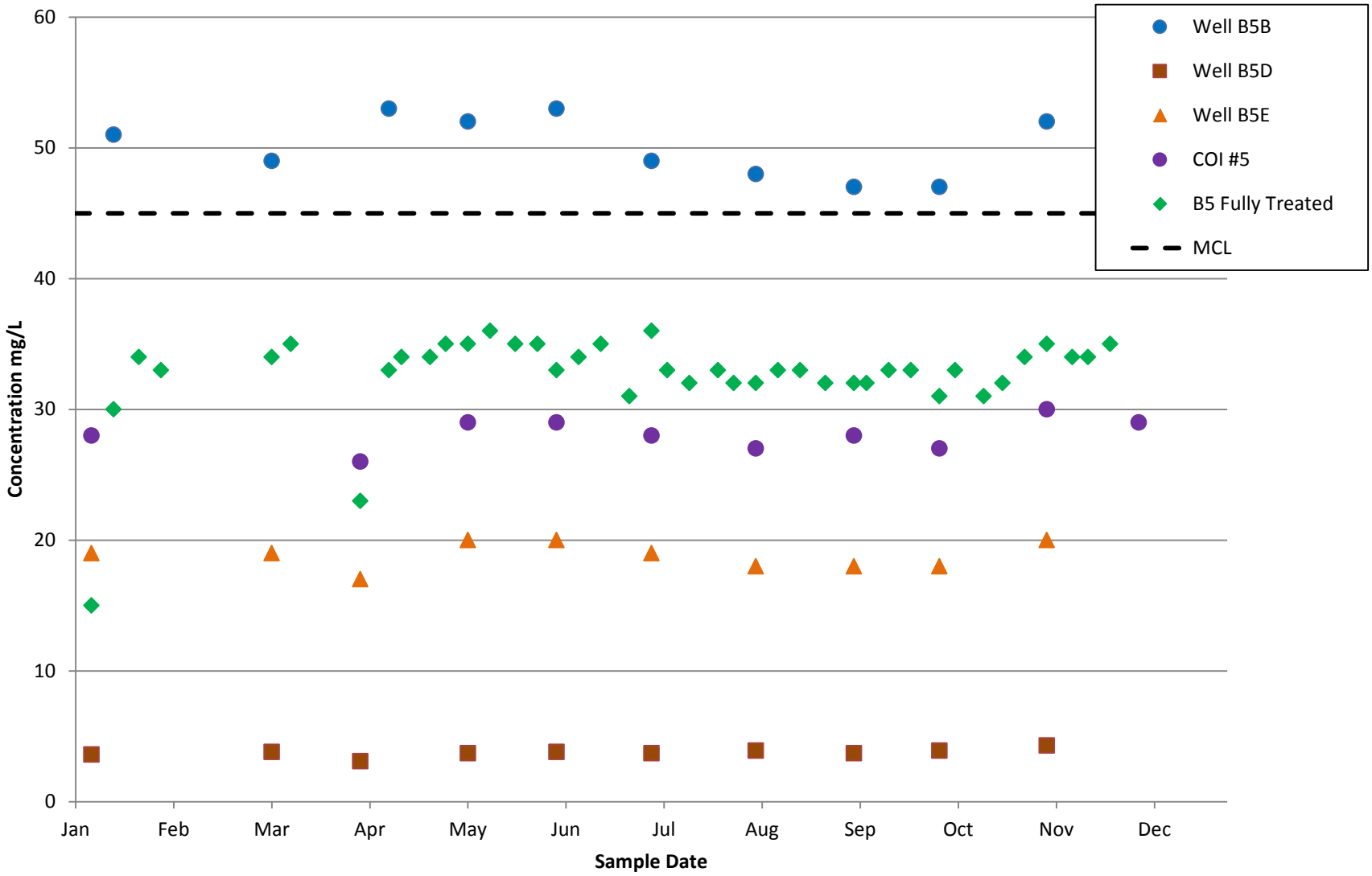
Note: Open symbols signify non-detects.

ERM	TETRACHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-44**



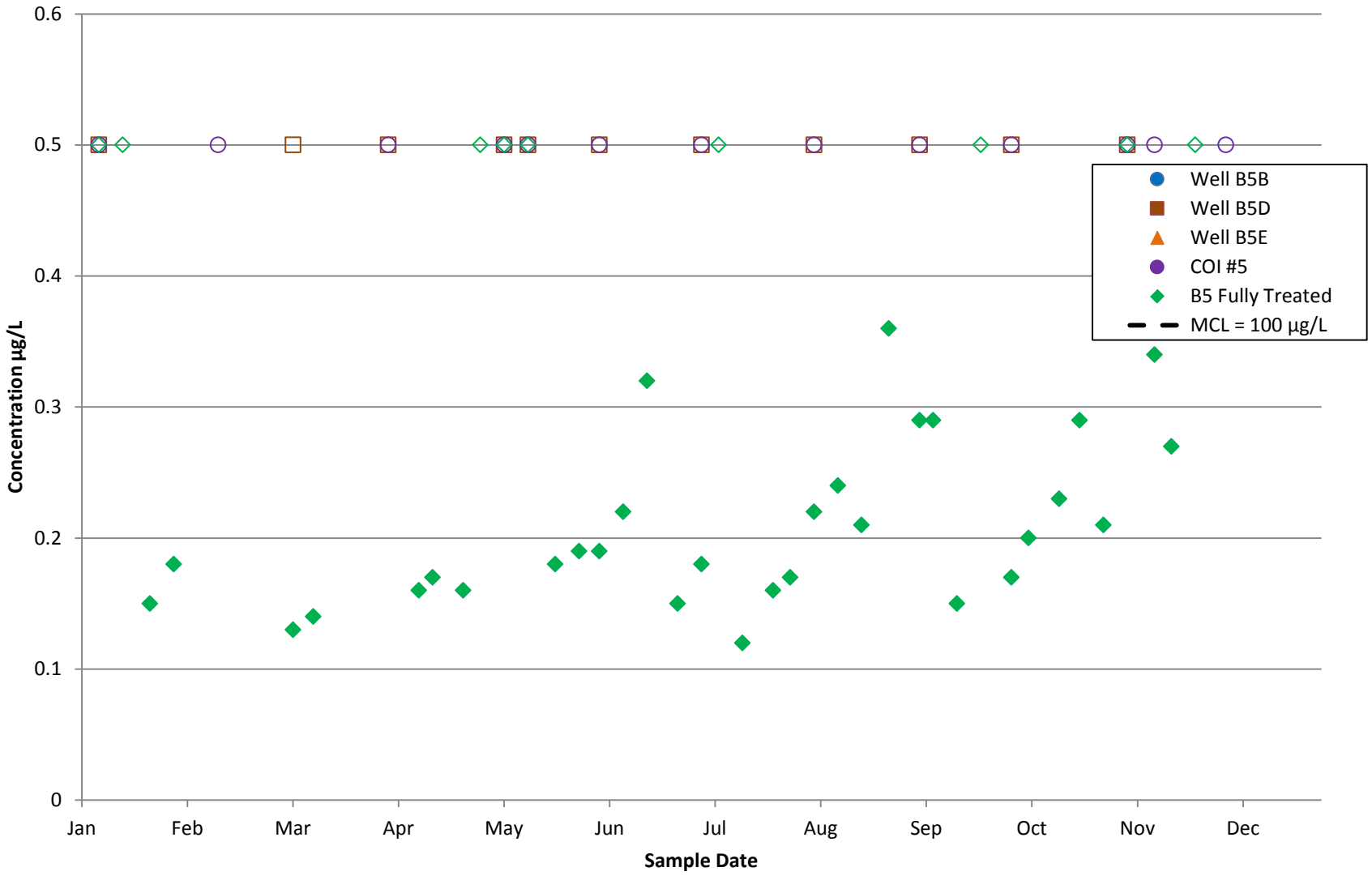
Note: Open symbols signify non-detects.

ERM	TRICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-45**



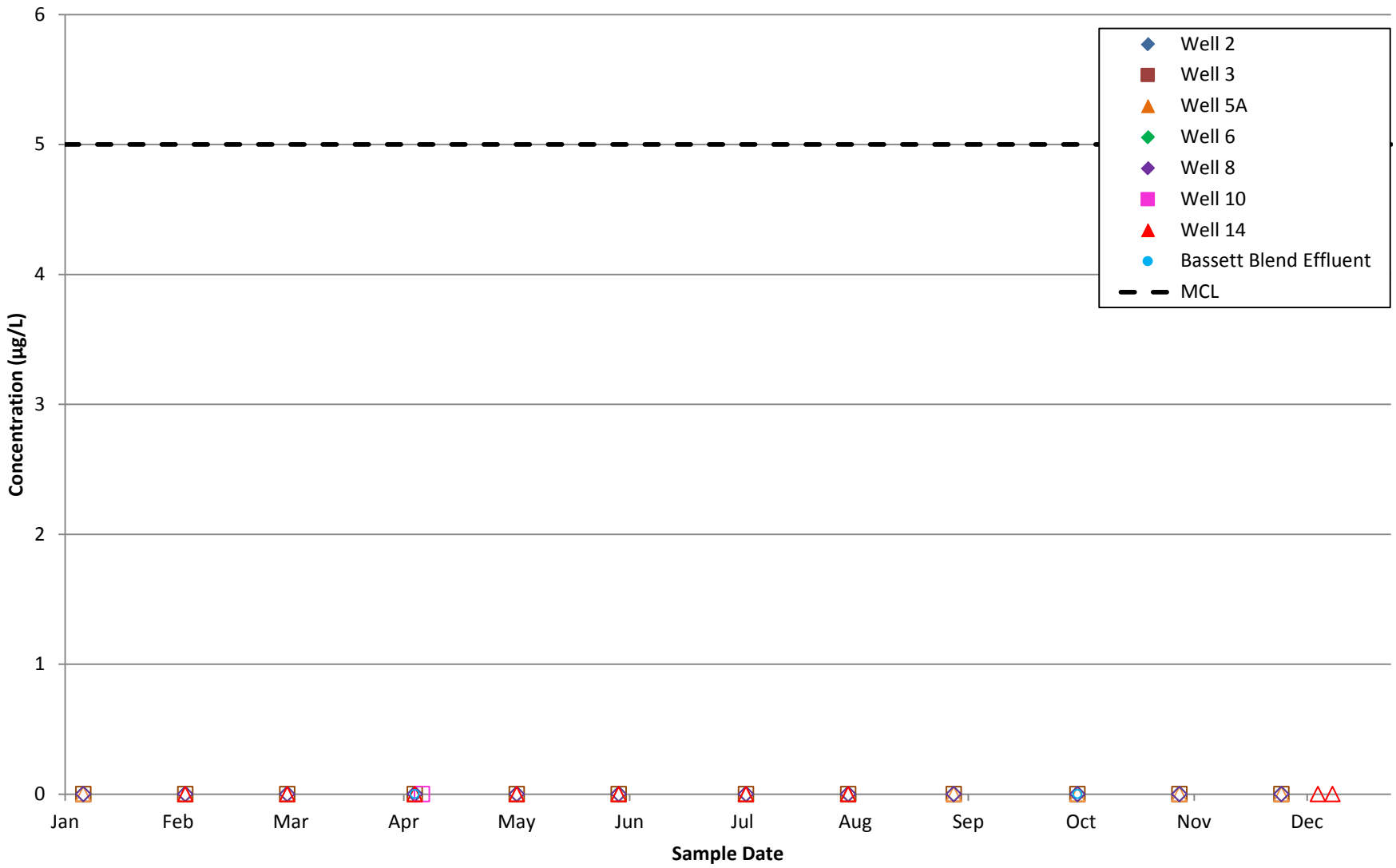
Note: Open symbols signify non-detects.

ERM	NITRATE AS NO3 CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-46**



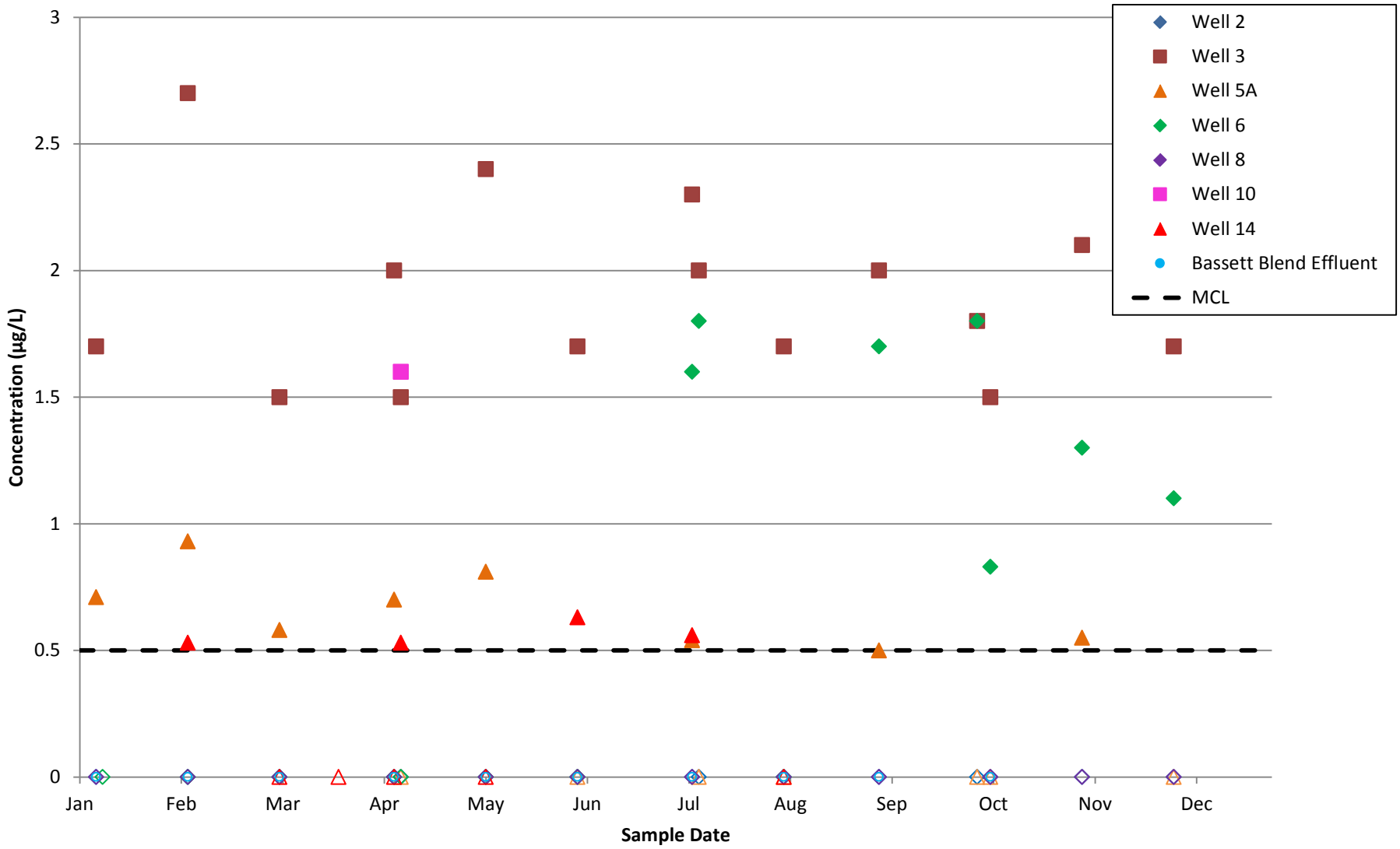
Note: Open symbols signify non-detects.

ERM	CHLOROFORM CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-47**



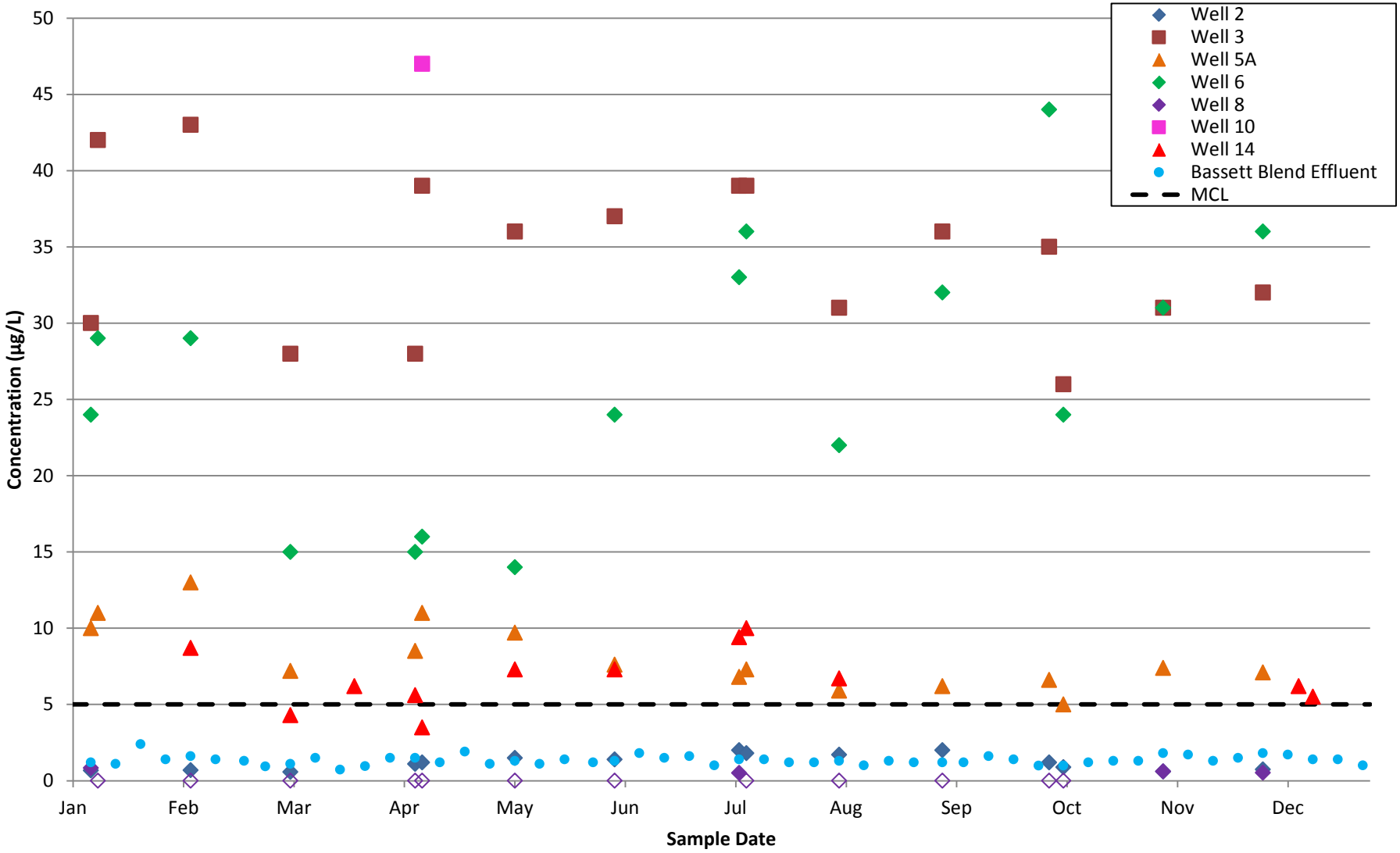
Note: Open symbols signify non-detects. All non-detects reported as zero.

ERM	1,2-DICHLOROETHANE CONCENTRATIONS, RAW AND TREATED WATER FOR CALIFORNIA DOMESTIC WATER COMPANY TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-48**



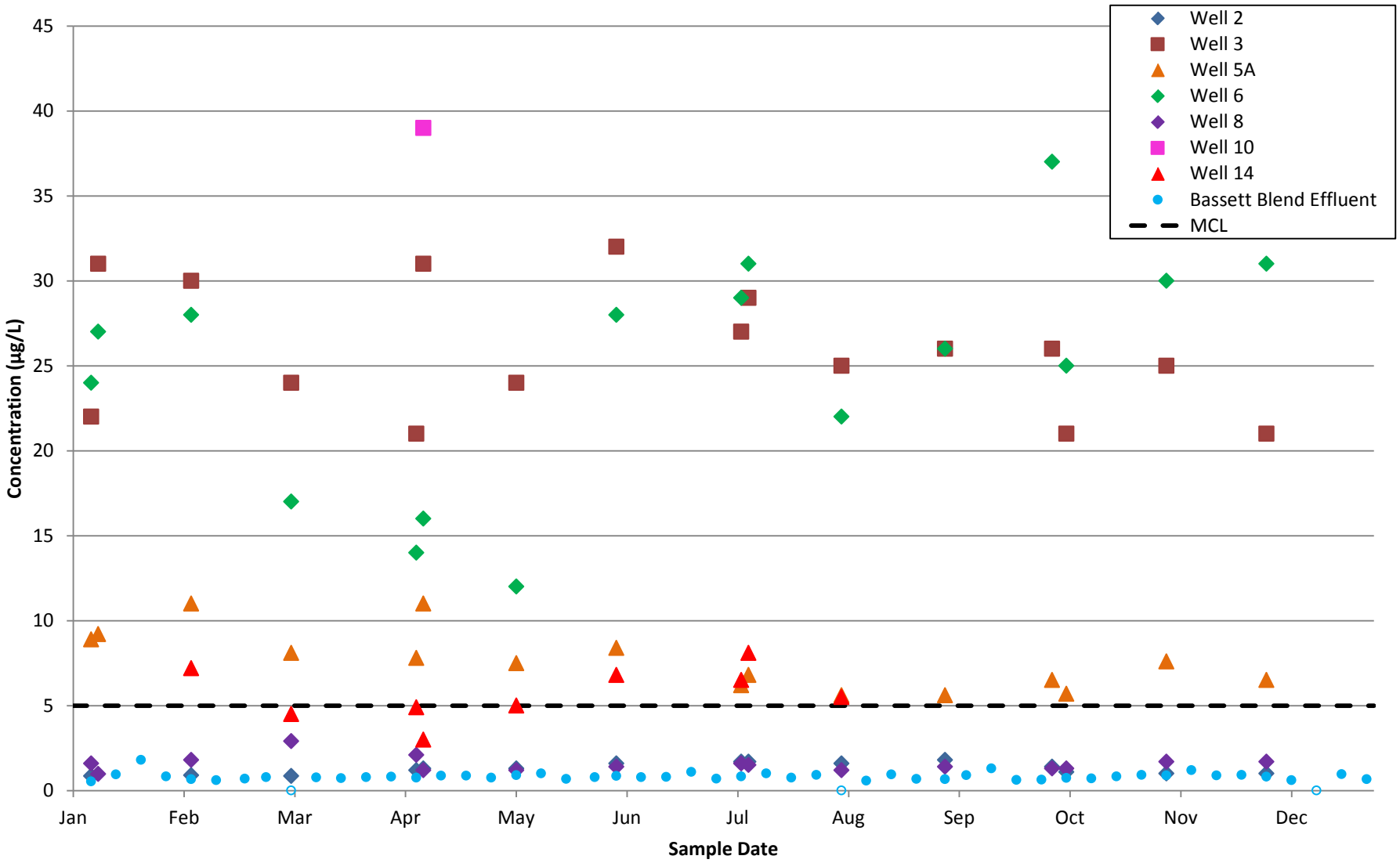
Note: Open symbols signify non-detects. All non-detects reported as zero.

ERM	CARBON TETRACHLORIDE CONCENTRATIONS, RAW AND TREATED WATER FOR CALIFORNIA DOMESTIC WATER COMPANY TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-49**



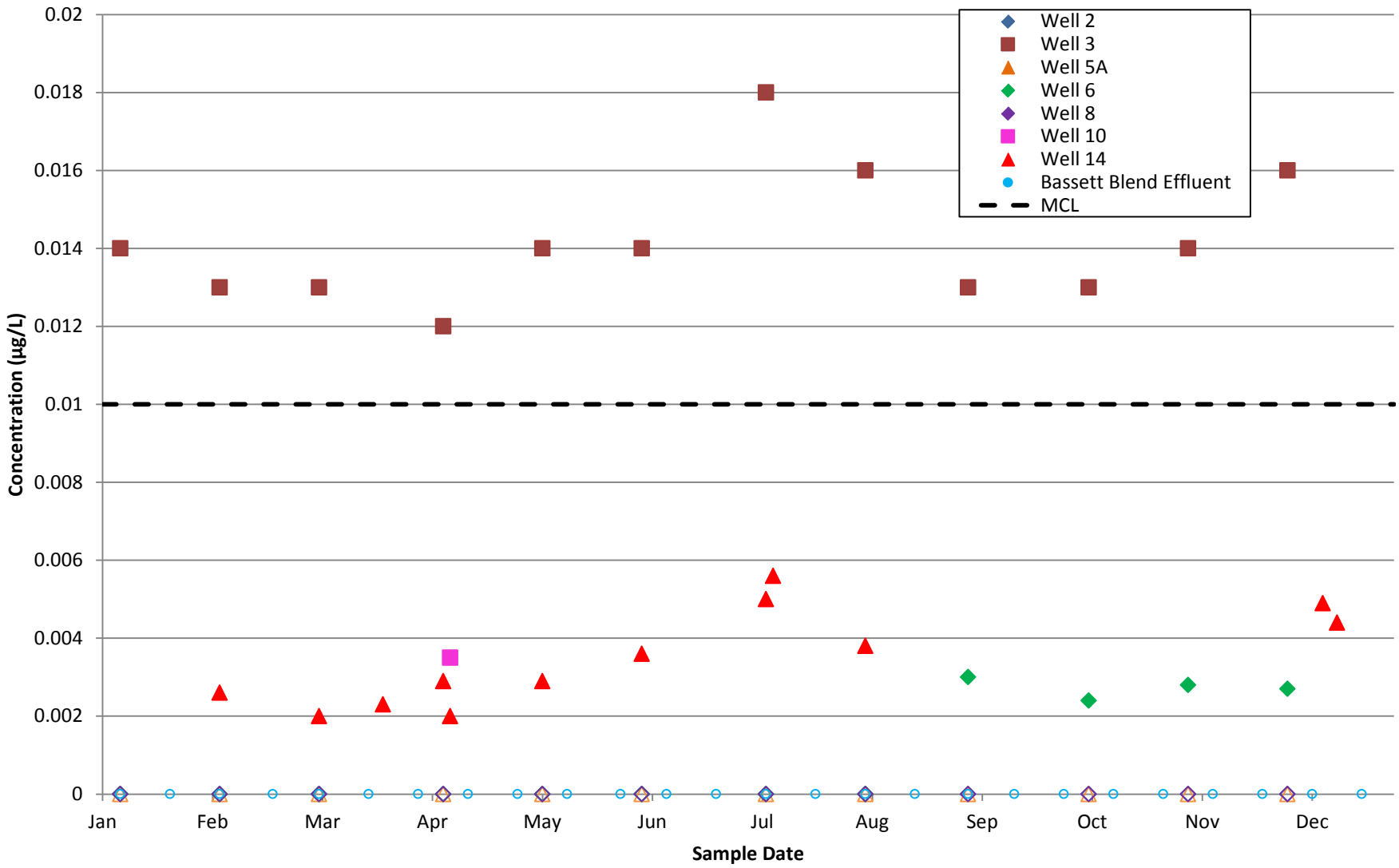
Note: Open symbols signify non-detects. All non-detects reported as zero.

ERM	TRICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR CALIFORNIA DOMESTIC WATER COMPANY TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-50**



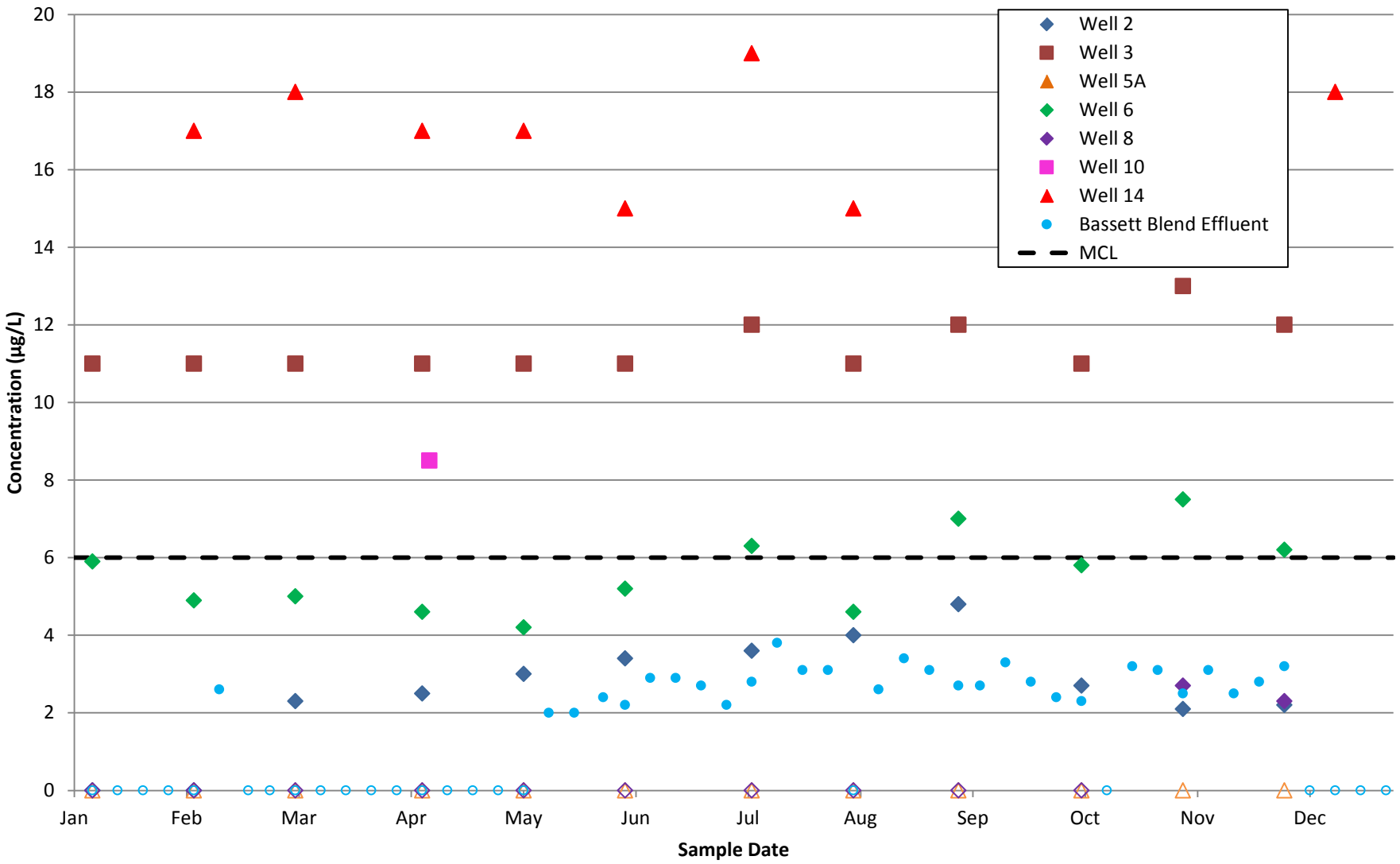
Note: Open symbols signify non-detects. All non-detects reported as zero.

ERM	TETRACHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR CALIFORNIA DOMESTIC WATER COMPANY TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-51**



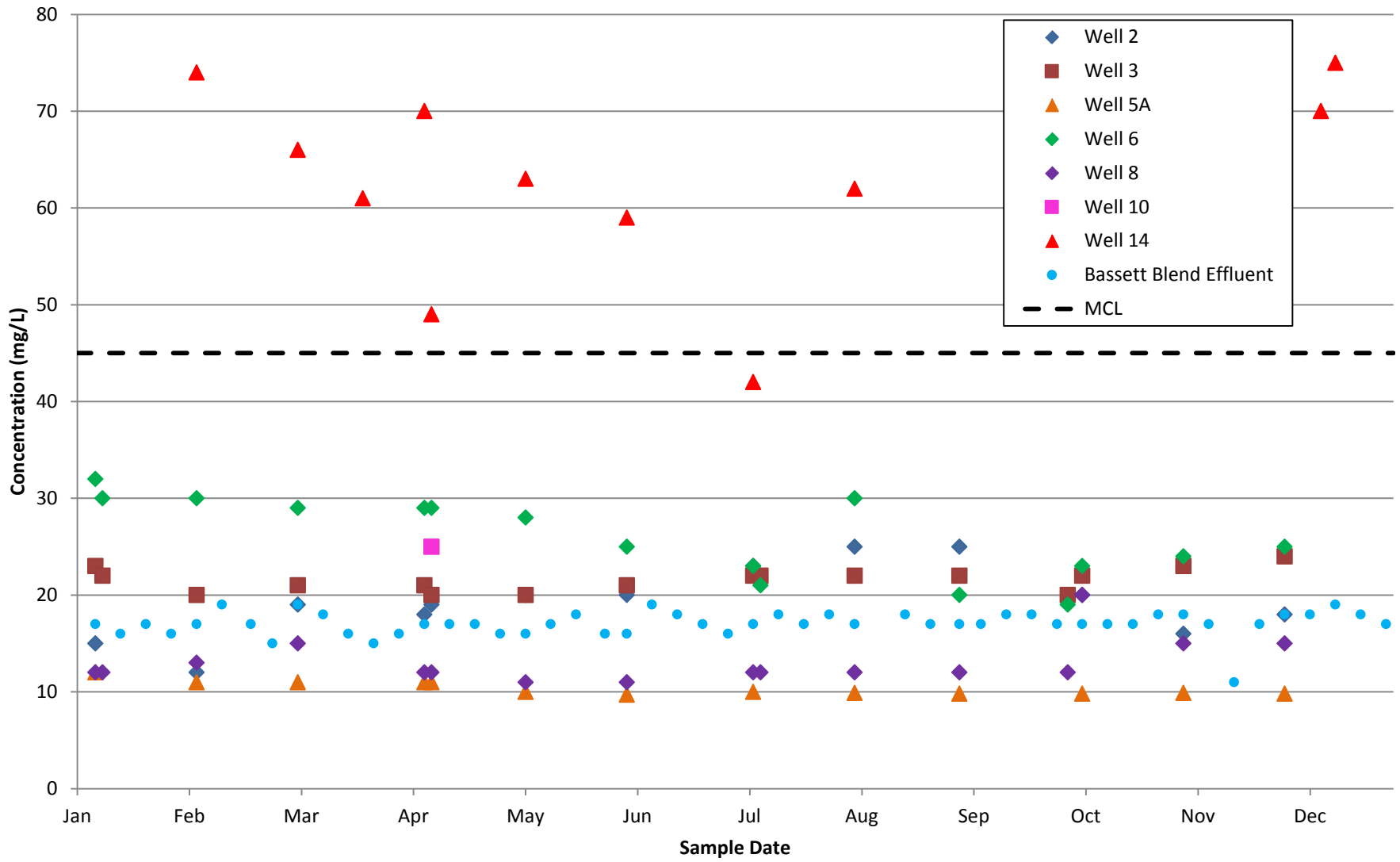
Note: Open symbols signify non-detects. All non-detects reported as zero.

ERM	N-NITROSODIMETHYLAMINE CONCENTRATIONS, RAW AND TREATED WATER FOR CALIFORNIA DOMESTIC WATER COMPANY TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-52**



Note: Open symbols signify non-detects. All non-detects reported as zero.

ERM	PERCHLORATE CONCENTRATIONS, RAW AND TREATED WATER FOR CALIFORNIA DOMESTIC WATER COMPANY TREATMENT PLANT (2014) Baldwin Park Operable Unit San Gabriel Valley, California	Project No. 32710118 Figure **6-53**



Note: Open symbols signify non-detects. All non-detects reported as zero.

ERM

NITRATE (AS NO3) CONCENTRATIONS, RAW AND TREATED WATER FOR CALIFORNIA DOMESTIC WATER COMPANY TREATMENT PLANT (2014)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
32710118

Figure
6-54