Final

Groundwater Monitoring Report

Frontier Fertilizer Superfund Site

Second Half 2011

Contract: EP-S9-08-03
Task Order: 056-LRLR-094R
Document Control No. 07163.0057.0027

Prepared for:

United States Environmental Protection Agency

U.S. Environmental Protection Agency
Region IX
75 Hawthorne Street
San Francisco, California 94105

Submitted by:

ITSI Gilbane Company
2730 Shadelands Drive
Walnut Creek, California 94598

January 2013

Table of Contents

Section **Page**

Executive Summary **ES-1**
Monitoring Strategy ES-1
Groundwater Level Measurements ES-1
Distribution of Chemicals of Concern ES-2

Acronyms and Abbreviations ..... **vii**

1 Project Background **1-1**
1.1 Site Description 1-1
1.1.1 Location and History 1-1
1.1.2 Hydrogeology 1-1
1.2 Chemicals of Concern 1-2
1.3 Groundwater Pump-and-Treat System 1-3
1.4 Electrical Resistance Heating 1-4
1.5 Organizations Responsible for Groundwater Monitoring 1-4
1.6 Report Organization 1-4

2 Sampling and Analysis Methods 2-1
2.1 Methods for Determining Groundwater Levels 2-1
2.2 Methods for Collecting Groundwater Samples 2-1
2.2.1 Monitoring Well Sampling Method 2-2
2.2.2 Extraction Well Sampling Method 2-2
2.3 Methods for Analyzing Groundwater Samples 2-2

3 Groundwater Level Monitoring 3-1
3.1 Groundwater Level Measurements 3-1
3.2 Horizontal Flow in the S-1 and S-2 Zones 3-2
3.3 Horizontal Flow in the A-1 Aquifer 3-6
3.4 Vertical Gradients between S-1, S-2, and A-1 Zones 3-7
3.4.1 S-1/S-2 Vertical Gradients 3-9
3.4.2 S-2/A-1 Vertical Gradients 3-9

4 Groundwater Quality Monitoring 4-1
4.1 Groundwater Sampling Results 4-1
4.1.1 COC Sample Results 4-1
4.1.2 Non-Primary VOCs 4-2
4.2 Distribution of Volatile Organic Chemicals of Concern 4-3
4.2.1 EDB, DCP, DBCP, and CCl_4 in the S-1 Zone 4-4
4.2.2 EDB, DCP, DBCP, and CCl_4 in the S-2 Zone 4-4
4.2.3 EDB, DCP, DBCP, and CCl_4 in the A-1 Aquifer 4-4
4.2.4 City Well 29 4-4

5 Data Quality Assessment 5-1
5.1 Analytical Program/Methodology 5-1
5.2 Data Validation and Findings 5-2
5.2.1 Data Validation Methodology 5-2
5.2.2 Reporting 5-2
5.2.3 Flagging Conventions, Data Validation Findings 5-3
5.2.4 Data Storage 5-3
5.2.5 Data Quality Assessment and Quality Control Data 5-3

6 Conclusions **6-1**

7 References **7-1**

Tables

1-1 Well Construction Summary

2-1 Groundwater Monitoring Strategy

3-1 Horizontal Gradients and Linear Velocities
3-2 Vertical Gradients

4-1 Summary of Primary COCs Detected in Monitoring and Extraction Wells

5-1 Measurement Performance Criteria
5-2A Data Validation Summary, Third Quarter 2011
5-2B Data Validation Summary, Fourth Quarter 2011
5-3A Summary of Field Duplicate Results, Third Quarter 2011, Groundwater Monitoring
5-3B Summary of Field Duplicate Results, Fourth Quarter 2011, Groundwater Monitoring
5-4A1 Chemicals Detected in Water Used to Make Blanks, Third Quarter 2011, Groundwater Monitoring
5-4A2 Chemicals Detected in Field Blanks with Respective Sample Result, Third Quarter 2011, Groundwater Monitoring
5-4B1 Chemicals Detected in Water Used to Make Blanks, Fourth Quarter 2011, Groundwater Monitoring
5-4B2 Chemicals Detected in Field Blanks with Respective Sample Result, Fourth Quarter 2011, Groundwater Monitoring
5-5A Surrogate Summary, Third Quarter 2011
5-5B Surrogate Summary, Fourth Quarter 2011
5-6A Laboratory Control and Duplicate Summary, Third Quarter 2011
5-6B Laboratory Control and Duplicate Summary, Fourth Quarter 2011
5-7A Matrix Spike/Matrix Spike Duplicate Summary, Third Quarter 2011
5-7B Matrix Spike/Matrix Spike Duplicate Summary, Fourth Quarter 2011

Figures

1-1 Site Location Map
1-2 Groundwater Well Location Map

3-1a Groundwater Level Measurements in Zone S-1 During Third Quarter 2011
3-1b Groundwater Level Measurements in Zone S-1 During Fourth Quarter 2011
3-2a Groundwater Level Measurements in Zone S-2 During Third Quarter 2011
3-2b Groundwater Level Measurements in Zone S-2 During Fourth Quarter 2011
3-3a Groundwater Level Measurements in Zone A-1 During Third Quarter 2011
3-3b Groundwater Level Measurements in Zone A-1 During Fourth Quarter 2011

4-1 EDB Concentrations (µg/L) Detected in Zone S-1 During Third and Fourth Quarter 2011
4-2 EDB Concentrations (µg/L) Detected in Zone S-2 During Third and Fourth Quarter 2011
4-3 EDB Concentrations (µg/L) Detected in Zone A-1 During Third and Fourth Quarter 2011
4-4 DCP Concentrations (µg/L) Detected in Zone S-1 During Third and Fourth Quarter 2011
4-5 DCP Concentrations (µg/L) Detected in Zone S-2 During Third and Fourth Quarter 2011
4-6 DCP Concentrations (µg/L) Detected in Zone A-1 During Third and Fourth Quarter 2011
4-7 DBCP Concentrations (µg/L) Detected in Zone S-1 During Third and Fourth Quarter 2011
4-8 DBCP Concentrations (µg/L) Detected in Zone S-2 During Third and Fourth Quarter 2011
4-9 DBCP Concentrations (µg/L) Detected in Zone A-1 During Third and Fourth Quarter 2011
4-10 Carbon Tetrachloride Concentrations (µg/L) Detected in Zone S-1 During Third and Fourth Quarter 2011
4-11 Carbon Tetrachloride Concentrations (µg/L) Detected in Zone S-2 During Third and Fourth Quarter 2011
4-12 Carbon Tetrachloride Concentrations (µg/L) Detected in Zone A-1 During Third and Fourth Quarter 2011

Appendixes

A Hydrographs
B Chemical Time Series Plots
C Historical Analytical Results for COCs in Monitoring and Extraction Wells
D Sampling Procedures
E Groundwater Pump-and-Treat System Monitoring Results
F Sample Analysis and Groundwater Level Measurement Data (CD-ROM)

Acronyms and Abbreviations

µg/L	micrograms per liter
amsl	above mean sea level
bgs	below ground surface
Cal-EPA	California Environmental Protection Agency
CCl_4	carbon tetrachloride
CFR	Code of Federal Regulations
CLP	Contract Laboratory Program
COC	chemical of concern
DBCP	1,2-dibromo-3-chloropropane
DCP	1,2-dichloropropane
DHS	California Department of Health Services
DTSC	Department of Toxic Substances Control
EDB	1,2-dibromoethane
EPA	U.S. Environmental Protection Agency
gpm	gallon(s) per minute
MCL	maximum contaminant level
MDL	method detection limit
NPL	National Priority List
PARCC	precision, accuracy, representativeness, comparability, and completeness
QA/QC	quality assurance/quality control
QAPP	quality assurance plan
SCADA	Supervisory Control and Data Acquisition
SIM	Selective Ion Monitoring
SOM	Multi-Media, Multi-Concentration, Organic Analytical Service for Superfund
TCP	1,2,3-trichlorpropane
VFD	variable frequency drive
VOC	volatile organic compound

Executive Summary

This report summarizes groundwater level data, groundwater quality data, and treatment system performance data collected at the Frontier Fertilizer National Priority List (NPL) site in Davis, California, during the third and fourth quarters of 2011. Groundwater sampling field activities were conducted from September 6 through October 4, 2011 (third quarter), and November 28 through December 16, 2011 (fourth quarter). This work was performed by ITSI Gilbane Company (ITSI Gilbane) under EPA Contract EP-S9-08-03, Task Order 056-LRLR-094R.

Monitoring Strategy

The goal of the monitoring strategy is to collect the data necessary to evaluate the presence of chemicals in groundwater and the movement of groundwater related to the Frontier Fertilizer NPL site. Site monitoring wells, extraction wells, and City of Davis well 29 have been sampled quarterly for several years. Modifications to the monitoring strategy that streamline the program without affecting the quality of the data collected were proposed and adopted for implementation beginning with the Second Quarter 2002 monitoring event (see Table 2-1 for sample frequency and analyses). Well sampling frequencies will continue to be evaluated as site conditions evolve.

Groundwater elevations are measured in all wells except ANDCO, City of Davis well 29, and Schuler wells, on a quarterly basis.

Data generated from each quarter's groundwater monitoring event are summarized in a report. The report documents data collected during the previous quarter, presents an interpretation of the data, and makes recommendations for changes to the monitoring program, if deemed necessary.

Groundwater Level Measurements

The third and fourth quarter 2011 groundwater elevation measurements in the S-1, S-2, and A-1 aquifer zone wells were used to estimate horizontal and vertical gradients in the vicinity of the site and respective groundwater flow directions and rates. Elevation measurements are interpreted and contours of equal potentiometric head are plotted to provide a picture of groundwater flow direction and gradient in the vicinity of the Site.

Horizontal gradients in the S-1 and S-2 zones indicate a tendency for groundwater flow toward the north-northeast during the third and fourth quarters of 2011, which is consistent with previous observations. Groundwater flows radially through the S-1 and S-2 zones to extraction wells in the well field area of influence. A steep gradient continues to be measured in the area immediately south of the extraction well field, which includes the pesticide source zone. This large gradient (that is, the potential for more groundwater movement toward the extraction system well field) is a result of the extraction wells reducing potentiometric head downgradient from the pesticide source zone. The steep gradients indicate that hydraulic conductivities are lower south and west of the extraction well field.

Groundwater gradients north of Arroyo Avenue indicate that groundwater with detected pesticide COCs flows toward the extraction wells. Points downgradient of the extraction system that lie outside the apparent zone of influence no longer receive contaminated groundwater because groundwater containing COCs is collected by the extraction system upgradient. The S-1 and S-2 zone gradients indicate groundwater flows toward the extraction system well field from up to 375 feet north of Arroyo Avenue, although the extent of horizontal influence fluctuates based on S-1 and S-2 zone water levels in addition to extraction rates. The extraction rates and operating schedules will continue to be monitored and adjusted to obtain optimum capture effectiveness and minimize the removal of heat from the source zone.

The groundwater elevation measurements for the third and fourth quarters of 2011 indicate that the regional flow direction through the A-1 zone appears to be to the south-southeast near the Frontier Fertilizer site. Historically, horizontal groundwater flow directions in the A-1 aquifer have been difficult to evaluate because of the similarity of groundwater level measurements (that is, small differences in potentiometric head across the monitored area). This trend has often been observed in the winter months, when agricultural pumping ceases and vertical and lateral gradients become very small.

Vertical hydraulic gradients between the S-1, S-2, and A-1 aquifer zones for the third and fourth quarters of 2011 were evaluated using groundwater level or potentiometric head measurements from nested wells that monitor these aquifer zones. The vertical gradients presented in Table 3-2 are calculated with the third and fourth quarter 2011 monitoring results. Negative gradients indicate downward flow. Nested groundwater level measurements suggest that the degree of hydraulic gradient between the S-1 and S-2 zones and S-2 and A-1 zones varies with location, but generally is significant. Downward gradients have typically been induced by agricultural and municipal wells screened in the A-1 zone and below.

Generally, vertical gradients are largely in the downward direction during most seasons between the S-1/S-2 and the S-2/A-1 aquifer zones outside the area affected by the extraction system. The largest downward vertical gradients exist across the site from S-1 to S-2 and S-2 to A-1 aquifer zones during the summer irrigation season. The extraction well field typically increases the downward gradients between the S-1 and S-2 aquifer zones and creates local upward gradients between the S-2 and A-1 zones.

Distribution of Chemicals of Concern

Groundwater samples were collected for COC analysis from all the wells scheduled to be sampled during the third and fourth quarter 2011 events (Table 2-1). Samples were analyzed for volatile organic chemicals of concern with SOM01.2. Samples also were analyzed by the EPA Region 9 Laboratory with Method 524.2SIM for low-level EDB, DBCP and TCP concentrations.

Concentrations of the COCs detected in groundwater samples collected during the third and fourth quarters of 2011 generally are similar to those observed during recent events. In most wells, detected COC concentrations continue to decline or are in the lower end of their historical ranges. A variance from the declining COC concentration trend in the S-1 zone was observed in the fourth quarter sample collected from monitoring well AW-2A, which contained the highest levels measured since 2005. Concentrations of COCs detected in wells screened in the A-1 zone indicate that vertical migration of contaminated groundwater from the S-1 and S-2 zones has

occurred. Where detected in the A-1 zone, COC concentrations were above their respective Maximum Contaminant Levels (MCLs) in groundwater samples collected from wells OW-3C, OW-11C, X-5B, and X-7C during the third and/or fourth quarters of 2011.

When the groundwater levels rise into unsaturated source zone soil in the winter, the groundwater transports COCs that are then carried downgradient. Implementation of source zone treatment will reduce the mass of COC available for transport by groundwater. Seasonal variations in COC concentrations in wells further north of the source zone appear to occur as a result of groundwater extraction pulling contaminated groundwater south towards the extraction well field. It is anticipated that an overall declining trend in COC concentrations will continue with the implementation of groundwater extraction and pesticide source zone treatment.

Measured groundwater elevations and respective gradients and velocities indicate that the extraction system has reversed the natural horizontal flow direction in the S-1 and S-2 zones north of wells OW-11 and X-7. However, the *Capture Zone Analysis* (CH2M HILL, 2011) indicated that total target volume capture in the S-1 and S-2 aquifer zones has not been achieved. The extraction system zone of capture will be reassessed following the in situ thermal treatment (winter 2012). There is target volume capture north of wells OW-11 and X-7, which may result in higher COC concentrations being detected in these wells as contaminated water is pulled south by the extraction system. Also, the potential for vertical migration of contaminated groundwater to the A-1 zone in this area appears to be greater than in the area closer to the source zone. Gradients measured in the A-1 zone were small, but the potential exists for A-1 zone groundwater to flow in a southerly direction toward the source zone.

Historical trends in detected COC concentrations, measured groundwater gradients, and estimated groundwater velocities indicate that most affected S-1 and S-2 aquifer groundwater will be collected by the extraction system. Historical trends for the primary COC concentrations detected in all monitored wells are evident in chemical time-series plots (included as Figures B-1 to B-4 in Appendix B) that present the recent 5-year monitoring history. Table C-1 in Appendix C provides comprehensive historical primary COC monitoring results. However, interpretation of these trends is complicated by variations in concentrations caused by the following factors:

- Variations in seasonal recharge (for example, drought or wet years).
- Complex hydrogeologic interactions between the three water-bearing zones (S-1, S-2, and A-1) .
- Changes in the treatment system (for example, pumping rates, well water level set points, distribution of treated water to the currently inactive injection wells).

The pump and treat system is discussed in further detail in Appendix E.

SECTION 1
1 Project Background

This report summarizes the groundwater monitoring data collected during the third and fourth Quarter 2011 events at the Frontier Fertilizer National Priorities List (NPL) site in Davis, California. Groundwater monitoring is conducted by the U.S. Environmental Protection Agency (EPA) to evaluate groundwater contamination resulting from past site activities and the effects of current removal action activities. Data collection was performed by ITSI Gilbane Company (ITSI Gilbane) under EPA Contract EP-S9-08-03, Task Order 056-LRLR-094R.

1.1 Site Description

The Frontier Fertilizer site is located at 3901 Second Street in Davis, Yolo County, California (Figure 1-1). The Frontier Fertilizer Superfund Site includes a triangular-shaped, 11.43-acre parcel (Assessor's Parcel Number 071-412-031) owned by Pine Tree Properties and approximately 7 acres north of the former disposal basin, which is part of a 10.98-acre parcel (Assessor's Parcel Number 071-411-07) known as the "Remainder Parcel." The geographic coordinates of the site are 38° 33' 9.5" north latitude and 121° 42' 7.0" west longitude (Township 8 North, Range 2 East, Section 12, Mt. Diablo Base and Meridian; Davis, California, 7.5-minute quadrangle). The Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database number is CAD071530380.

1.1.1 Location and History

The Frontier Fertilizer site is in an area zoned for light industrial development at the eastern edge of the City of Davis, California. The site is bounded on the south and east by Second Street; on the north by the new Mace Ranch Industrial Park; and on the west by two metal buildings and the new Mace Ranch Industrial Park. Construction of the Mace Ranch Industrial Park development has begun, and will affect the land north, east, and west of the site. The nearest residence is approximately 600 feet north of the site.

The Frontier Fertilizer site was first developed in the 1950s as an area to store agricultural equipment. In the 1970s, the site was used to store, mix, and distribute pesticides and fertilizer for local agricultural use. Pesticide handling was discontinued during the 1980s when toxic levels of pesticides were discovered in the wastewater that had been placed in an unlined disposal basin (see Figure 1-1). Several warehouses, shops, a pole barn, a labor camp complex, and a tomato grading station have been removed from the site. Figure 1-2 presents the locations of monitoring, extraction, agricultural, and residential wells on and in the vicinity of the site.

1.1.2 Hydrogeology

The Frontier Fertilizer site is underlain by Quaternary alluvium to depths exceeding 300 feet below ground surface (bgs). Below this depth, semi-consolidated units of clay and occasional sand/gravel extend to below 2,000 feet bgs. The alluvial deposits represent heterogeneous mixtures of gravel, sand, silt, and clay generated by the changing flowpath of Putah Creek over the past geologic epoch. Fine grained materials from ancient floodplains predominate in the upper 100 feet, interrupted by discontinuous sand stringers that can be up to 10 feet thick. Data do not indicate that continuous aquifers or aquitards exist in the top 100 feet, which include the

S-1 and S-2 aquifer zones. In these zones, sandy materials tend to be encountered interbedded with clays and silts that act to restrict the movement of groundwater. Significant variations in aquifer vertical and horizontal conductivities are typical across the S 1 and S-2 zones. Between 100 and 300 feet bgs, the subsurface is somewhat more stratified, with permeable sand units displaying greater continuity. Municipal and agricultural wells historically have utilized this depth interval, though recently the City has constructed wells in the deeper semi-consolidated units.I BET

Four general water bearing zones have been designated—from shallowest to deepest—as the S 1, S 2, A 1, and A 2 zones. For the purposes of site investigations, alluvial deposits have been subdivided into S-1 (water table to 60 feet below ground surface [bgs]), S-2 (60 to 90 feet bgs), and A-1 (90 to135 feet bgs). A 25- to 30 foot thick clay layer, designated as the A 1/A 2 aquitard, underlies the A 1 aquifer and appears to separate it from the A 2 aquifer. It may be effectively much thicker than 30 feet in some areas, as most A-2 production well screens occur below 200 feet bgs. The A 2 aquifer is a sequence of discontinuous gravel layers extending from 180 to 350 feet bgs. The average hydraulic conductivity values for the S-1, S-2, and A-1 zones are 18.4, 2.8, and 97 feet/day, respectively. The hydrogeology of the site is described in detail in the *Frontier Fertilizer Groundwater Model Update and Extraction Wellfield Plan* (CH2M HILL, 2003). Site monitoring wells are screened in the S-1, S-2, and A-1 zones and active extraction wells are constructed to extract groundwater from the S-1 and S-2 zones. The measured horizontal hydraulic gradient across the Site indicates a flow direction to the north/northeast for the S-1 and S-2 groundwater zones. Typically, groundwater potentiometric head, i.e. depth to groundwater measured in monitoring wells, in the S-1 and S-2 are at an annual low of approximately 30 feet bgs in late summer.

Groundwater levels fluctuate seasonally in the S-1, S-2, and A-1 zones, influenced by precipitation and water supply pumping. Groundwater is first encountered at a depth of between 10 and 20 feet below ground surface (bgs) in late winter, and at between 20 and 30 feet bgs in the fall. Typically, beginning in late spring, significant downward gradients have been measured in monitoring wells screened in the A-1 zone as the result of irrigation pumping from the A-1 and A-2 aquifers. Groundwater level measurements from nested monitoring wells and responses to pumping during aquifer tests suggest that the degree of hydraulic connection between the S-1, S-2, and A-1 zones varies greatly with location. The A-2 zone is not monitored by the current well network, but City of Davis well records indicate lower heads in this zone than in the A-1 zone, indicating a continued downward gradient.

1.2 Chemicals of Concern

The primary volatile organic chemicals of concern (COCs) were determined and described in the Final Interim Remedial Investigation Report for Frontier Fertilizer (Bechtel, 1997) after a comprehensive review of compounds detected in groundwater. The four primary COCs identified were:

- 1,2-dibromoethane (EDB).
- 1,2-dichloropropane (DCP).
- 1,2-dibromo-3-chloropropane (DBCP).
- carbon tetrachloride (CCl4).

These compounds currently are detected at concentrations above their respective California primary maximum contaminant levels (MCLs) in some of the monitoring wells. Anionic chemicals (that is, nitrate, nitrite, and sulfate), probably related to fertilizer processed at the site, also have been detected at concentrations above their MCLs. (The locations of the extraction and monitoring wells are shown on Figure 1-2.) Historical monitoring results for the primary COCs are presented in Appendixes B and C.

1.3 Groundwater Pump-and-Treat System

In early 1993, the California Environmental Protection Agency (Cal/EPA) Department of Toxic Substances Control (DTSC) installed a system to extract groundwater from monitoring wells MW-7B and MW-7C. The extracted groundwater was treated with granular activated carbon to remove the organic chemicals. This system was designed to extract groundwater at a flow rate of 0.25 gallon per minute (gpm) from each well. The system operated until May 1995, when it was dismantled. In July 1995, EPA replaced it with a larger system using emergency response authority. The larger system includes 16 extraction wells connected to a granular activated carbon treatment plant.

Groundwater monitoring wells X-5A, X-5B, and X-5C were installed in September and October 2000, and wells X-6A, X-6B, X-7B, and X-7C were installed in November 2001, to facilitate potential future expansion of the groundwater extraction system. Wells OW-15D, OW-19C, and OW-19D were installed in December 2001 to facilitate monitoring the A-1 zone between the site and City of Davis well #29. Wells X-8B, X-9B, X-10B, OW-20B, and OW-20C and piezometers PC-1B, PC-1C, PC-2B, and PC-2C were installed in August and September 2003 to enhance the extraction and monitoring system. Wells OW-18A-R, OW-18B-R, OW-18C-R, PW-1A, PW-1B, PW-1C, PW-2A, PW-2B, PW-2C, PW-3A, PW-3B, PW-3C, PW-4A, PW-4B, and PW-4C were installed in July 2008 to accommodate construction of a Target store. Wells OW-8A, OW-8B, OW-8C, PC-1B, and PC-1C were destroyed December 17, 2008, and wells OW-18A, OW-18B, OW-18C were destroyed in October 9, 2008, to accommodate construction of the Target store.

A construction summary of the extraction, injection, and monitoring wells and piezometers is provided in Table 1-1.

Six injection wells were installed to return treated groundwater to the aquifer, but have not been used since March 4, 1998. All of the treated groundwater currently is discharged to the City of Davis sanitary sewer (Revised Wastewater Discharge Permit #GRW001), and is no longer injected into the ground.

The extraction and treatment system has been reconfigured to optimize the collection of contaminated groundwater since its initial start-up in July 1995. The system is operated and maintained with the goal of minimizing component downtime (for example, individual well). System improvements and routine operation and maintenance continued throughout the report period. Maintenance has included the repair of electrical conductors and conveyance system plumbing, and replacement of failing pump motor controllers, pumps, and motors. Components necessary to complete X-6B, X-8B, X-9B, and X-10B as extraction wells and connect them to the treatment system were installed by the end of the fourth quarter of 2003. Extraction wells AW-2A, AW-2B, MW-7B, and X-1A were taken off line at the end of the fourth quarter of 2003 and the new extraction wells were brought on line on January 6, 2004. Data collected during quarterly groundwater monitoring events are used to evaluate the performance of the pump-and-treat system.

After the performance of the expanded system had been monitored for about 6 months, it was determined that X-9 and X-3A should be taken off line and MW-7B and X-1A should be brought on line. This adjustment was based primarily on the following factors: (1) no COCs were detected in either X-3A or X-9B, (2) pumping from the S-2 zone had not affected the S-1 zone significantly, and (3) high COC levels were detected in wells MW-7B and X-1A. This adjustment to the extraction system was performed in June 2004.

In the fall of 2006, upgrades to the pump-and-treat system included replacing temporary well heads, controls for extraction wells, and the Supervisory Control and Data Acquisition (SCADA) system. Above-ground well heads at wells MW-8A, MW-8B, MW-11A, MW-11B, MA-12A, and MW-12B were removed and replaced with below-ground well heads to improve protection of the well components and reduce worker safety hazards. Full voltage, non-reversing starters were replaced with variable-frequency drives (VFD) to optimize extraction from nine wells, and outdated VFDs were replaced with new VFDs on seven wells. Outdated SCADA components were replaced with new components.

Extraction system utilities were modified to accommodate the planned in situ thermal treatment in the summer of 2008. Most above-ground extraction well power and signal conductors were installed below ground, and double-wall high density polyethylene plumbing was installed to convey extracted groundwater to the treatment system. The well heads on extraction wells MW-7B and X-1A also were replaced.

A summary of pump-and-treat system performance monitoring results for the third and fourth quarters of 2011 is presented in Appendix E.

1.4 Electrical Resistance Heating

Electrical Resistance Heating includes a phased heating approach to remove COCs present in three different portions of pesticide source zone referred to as Stages 1, 2, and 3. In situ (in place) heating of the Stages is accomplished using electrical energy to heat soil and groundwater from 60 to 90 feet below ground surface that are a continuing source of groundwater contamination. Vapor emission controls include ambient air monitoring and an impermeable layer of plastic that covers the heated volume. Soil vapor generated is collected, treated, and monitored. Electrical Resistive Heating operations began February 23, 2011, and are expected to continue until October/November 2012.

1.5 Organizations Responsible for Groundwater Monitoring

Several agencies, including EPA and Cal/EPA DTSC, have installed and monitored groundwater wells at the Frontier Fertilizer NPL site. EPA's Emergency Response Section designed and constructed most of the existing groundwater pump-and-treat system, which was brought on line in 1995. EPA's Superfund Division has performed remedial investigation activities and designed and constructed system improvements, and is conducting feasibility study activities, operating and maintaining the groundwater pump-and-treat system, and monitoring groundwater quality. EPA's Quality Assurance Program reviews and approves work plans and procures and oversees the analytical laboratory and data validation services.

1.6 Report Organization

This report is organized as follows:

Section 1: Project Background. Provides a brief introduction to the site.

Section 2: Sampling and Analysis Methods. Describes the groundwater monitoring methods employed at the Site.

Section 3: Groundwater Level Monitoring. Presents measurement results and interprets the groundwater elevation measurements.

Section 4: Groundwater Quality Monitoring. Presents sample analytical results and interprets the results.

Section 5: Data Quality Assessment. Describes the results of the quality assurance/quality control (QA/QC) activities.

Section 6: Conclusions. Summarizes conclusions drawn from monitoring data.

Section 7: References. Provides a bibliography of referenced documents.

Appendix A: Hydrographs. Presents hydrographs for monitored wells.

Appendix B: Chemical Time Series Plots. Presents chemical time series plots for primary COCs detected in monitored wells.

Appendix C: Historical Analytical Results for COCs in Monitoring and Extraction Wells. Documents the historical analytical results for the primary COCs in groundwater samples collected from monitoring and extraction wells.

Appendix D: Groundwater Sampling Procedures. Provides a more detailed discussion of groundwater sampling methods.

Appendix E: Groundwater Pump-and-Treat System Monitoring Results. Summarizes system equipment monitoring and operations.

Appendix F: Sample Analysis and Groundwater Level Measurement Data (on CD-ROM). Contains laboratory analytical data and report narratives, data validation results, groundwater elevation data, and field data sheets.

TABLE 1-1
Well Construction Summary

Well ID	Zone	Type of Well	Northing	Easting	Installation Date	Installer	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth of Screen (feet bgs)	Depth of Filter Pack (feet bgs)	Completed Depth (feet bgs)	Total Depth (feet bgs)
AW-1	S-1	Monitoring	323243	2085047	NA	NA	32.00	33.74	20 to 30	17 to 23	30	32.1
AW-2A	S-1	Monitoring	322992.77	2085337.17	NA	NA	32.00	30.29	13 to 43	NA	45	45
AW-3	S-1	Monitoring	322869.95	2085487.1	1-Jun-85	LS	31.46	32.92	13 to 53	9 to 55	53	55
AW-4	S-1	Monitoring	322782.99	2085900.2	1-Jun-85	LS	31.47	32.88	15 to 32.5	12.5 to 39	32.5	39
AW-5	S-1	Monitoring	322970.79	2085685.2	1-Jun-85	LS	31.26	32.18	14 to 24	9 to 33	24	33
AW-6	S-1	Monitoring	322606.79	2085293.1	1-Jun-85	LS	31.96	31.70	13 to 23, 33 to 53	9 to 55	53	55
MW-3A	S-1	Monitoring	322705.96	2085692	7-Mar-86	LS	30.90	30.81	34 to 44	30 to 46	44	46
MW-5A	S-1	Monitoring	322842.18	2085060.1	1-Jul-87	LS	31.91	33.05	10 to 30	7 to 32	40	42
MW-5B	S-1	Monitoring	322818.94	2085061.5	1-Jul-87	LS	31.76	33.15	34 to 44	32 to 48	54	56
MW-6A	S-1	Monitoring	322382.75	2085335.9	7-Oct-87	LS	32.17	34.11	12.5 to 30	10 to 34	40	42
MW-6B	S-1	Monitoring	322385	2085345.9	7-Oct-87	LS	32.18	34.06	40 to 50	36 to 54	60	62
MW-7A	S-1	Monitoring	323047.76	2085261.9	27-Jul-87	LS	31.37	33.94	12.5 to 30	9 to 33	40	42
MW-7B	S-1	Extraction	323059.65	2085256.8	27-Jul-87	LS	31.27	29.81	36 to 46	34 to 49	56	58
MW-8A	S-1	Extraction	323259.17	2085268	12-Dec-89	GTI	31.41	29.75	25 to 50	24 to 50	50	50
MW-9A	S-1	Monitoring	323230.82	2085492.4	13-Dec-89	GTI	30.82	33.73	25 to 45	23 to 46	45	46
MW-10A	S-1	Monitoring	323363.89	2085108.4	15-Dec-89	GTI	32.02	34.88	25 to 45	23 to 46	50	50
MW-11A	S-1	Extraction	323410.05	2085266.9	14-Dec-89	GTI	31.29	29.70	24 to 45	23 to 45	45	45
MW-12A	S-1	Extraction	323379.77	2085538.9	14-Dec-89	GTI	30.92	29.20	25 to 45	24 to 45	45	45
MW-13A	S-1	Monitoring	323078.01	2085100.2	9-Dec-91	GTI	31.40	33.22	37 to 51	35 to 53	52	53
OW-1A	S-1	Monitoring	323298.84	2084941.1	19-Jul-95	B	32.62	34.82	42 to 57	39 to 59	59	59
OW-3A	S-1	Monitoring	323527.4	2085536.4	31-Jul-95	B	30.95	33.20	39 to 49	38 to 50	51	51
OW-4A	S-1	Monitoring	323381.97	2085640.8	4-Aug-95	B	30.71	32.99	37 to 47	35 to 49	49	49
OW-5A	S-1	Monitoring	324066.75	2084968.7	3-Nov-97	B	32.06	31.69	39 to 49	38 to 49	50	50
OW-6A	S-1	Monitoring	324336.77	2085287.6	4-Nov-97	B	30.87	30.51	37.5 to 42.5	38 to 44	43.5	43.5
OW-7A	S-1	Monitoring	324000.26	2086329	4-Nov-97	B	29.81	29.41	40 to 45	35.5 to 44	46	46

TABLE 1-1
Well Construction Summary

Well ID	Zone	Type of Well	Northing	Easting	Installation Date	Installer	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth of Screen (feet bgs)	Depth of Filter Pack (feet bgs)	Completed Depth (feet bgs)	Total Depth (feet bgs)
OW-8A Destroyed Dec-17-08	S-1	Monitoring	323449.71	2086237.9	5-Nov-97	B	31.08	30.65	40 to 45	36 to 48	46	46
OW-9A	S-1	Monitoring	324588.92	2085311.7	2-Jul-98	B	31.10	31.03	40 to 45	37 to 48.5	48.5	48.5
OW-10A	S-1	Monitoring	324271.63	2086668.4	9-Jul-98	B	27.50	29.99	32 to 42	29 to 44	46	46
OW-11A	S-1	Monitoring	323671.15	2085210.5	7-Nov-97	B	31.73	31.19	40 to 45	40 to 46	46	46
OW-12A	S-1	Monitoring	323847.27	2085759.4	10-Jul-98	B	30.40	30.21	43 to 53	41 to 56	56	56
OW-14A	S-1	Monitoring	323532.78	2084530.32	7-Dec-99	URS	32.93	32.32	38 to 48	33 to 50	48	150
OW-15A	S-1	Monitoring	324335.48	2084540.88	16-Nov-99	URS	34.04	33.86	38 to 48	34 to 50	48	165
OW-16A	S-1	Monitoring	325227.97	2085553.30	6-Dec-99	URS	32.04	31.86	36 to 46	31 to 50	46	170
OW-17A	S-1	Monitoring	325012.88	2086973.07	29-Nov-99	URS	27.85	27.45	26 to 36	22 to 40	36	150
OW-18A Destroyed 09-Oct-08	S-1	Monitoring	323774.06	2086947.01	18-Nov-99	URS	29.86	30.02	34 to 44	28 to 48	44	150
OW-18A-R	S-1	Monitoring	323775.87	2086966.55	21-Jul-08	KF	28.88	28.58	37.5 to 47.5	36 to 48	48	48
PW-1A	S-1	Monitoring	323352.29	2085935.30	14-Jul-08	KF	TBD	32.54	36 to 46	33.5 to 46.5	48.5	49.3
PW-2A	S-1	Monitoring	323581.49	2086236.99	23-Jun-08	KF	TBD	32.65	34 to 44	31.8 to 45	45	46.3
PW-3A	S-1	Monitoring	323420.66	2086386.24	30-Jun-08	KF	TBD	32.01	30 to 40	27.5 to 41	41	42.64
PW-4A	S-1	Monitoring	323141.50	2086392.78	08-Jul-08	KF	TBD	32.17	38.5 to 43.5	36.2 to 44	44	46.69
X-1A	S-1	Extraction	323052.76	2085194.2	22-Apr-95	EE	31.11	31.10	31 to 51	29 to 53.5	51	53.5
X-2A	S-1	Extraction	323253.4	2085153.8	26-Apr-95	EE	31.41	31.23	30 to 50	28 to 53.5	50	53.5
X-3A	S-1	Monitoring	323243	2085057.2	6-May-95	EE	32.17	32.02	30 to 50	28 to 53	50	53
X-4A	S-1	Extraction	323397.19	2085184.5	29-Apr-95	EE	31.65	31.37	28 to 48	26 to 53	48	53
X-5A	S-1	Monitoring	324255.6	2085174.35	10-Oct-00	URS	31.15	30.77	41 to 56	35 to 58	56	63
X-6A	S-1	Monitoring	323040.96	2085310.08	20-Nov-01	URS	30.89	34.65	20 to 60	18 to 70	60	70
IW-1	S-1:S-2	Injection	322934.14	2085059.4	18-May-95	EE	32.39	32.64	25 to 90	23 to 93	93	93
IW-2	S-1:S-2	Injection	322898.74	2085148.8	19-May-95	EE	31.95	32.07	25 to 90	23 to 93	93	93

TABLE 1-1
Well Construction Summary

Well ID	Zone	Type of Well	Northing	Easting	Installation Date	Installer	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth of Screen (feet bgs)	Depth of Filter Pack (feet bgs)	Completed Depth (feet bgs)	Total Depth (feet bgs)
IW-3	S-1:S-2	Injection	322874.85	2085215.1	21-May-95	EE	31.91	32.19	25 to 90	23 to 93	93	93
IW-4	S-1:S-2	Injection	322922.29	2085314.8	22-May-95	EE	31.34	31.37	25 to 90	23 to 93	93	93
IW-5	S-1:S-2	Injection	322948.45	2085358	23-May-95	EE	31.52	31.75	25 to 90	23 to 93	93	93
IW-6	S-1:S-2	Injection	322969.07	2085397.8	24-May-95	EE	31.27	31.65	25 to 90	23 to 93	93	93
AW-2B	S-2	Monitoring	322997	2085330	20-Apr-95	EE	32.00	32.57	73 to 93	71 to 97.5	93	97.5
MW-3B	S-2	Monitoring	322701.49	2085694.4	7-Mar-86	LS	30.90	30.62	66 to 76	61 to 78	76	78
MW-5C	S-2	Monitoring	322830.48	2085060.5	1-Jul-87	LS	31.81	33.15	70 to 80	65 to 80	90	94
MW-6C	S-2	Monitoring	322388.52	2085354.7	7-Oct-87	LS	32.26	34.08	70 to 80	70 to 80	90	93.5
MW-8B	S-2	Extraction	323257.05	2085285.6	21-Dec-89	GTI	31.27	29.65	80 to 90	75 to 90	90	90
MW-9B	S-2	Monitoring	323247.9	2085479.2	21-Dec-89	GTI	30.54	33.58	71 to 81	69 to 82	87	88
MW-10B	S-2	Monitoring	323361	2085079.2	14-Dec-89	GTI	31.08	34.15	67 to 77	64 to 90	77	90
MW-11B	S-2	Extraction	323407.7	2085274.8	28-Dec-99	GTI	31.57	29.83	65 to 75	62 to 90	75	90
MW-12B	S-2	Extraction	323379.03	2085553.9	27-Dec-89	GTI	30.73	29.17	67 to 77	64 to 90	77	90
MW-13B	S-2	Monitoring	323078.06	2085080.6	4-Dec-91	GTI	31.40	33.37	75 to 85	72 to 86	85.5	86
OW-1B	S-2	Monitoring	323310.53	2084941.2	17-Jul-95	B	32.41	34.62	68 to 88	65 to 90	88	90
OW-3B	S-2	Monitoring	323523.87	2085555.8	28-Jul-95	B	31.04	33.10	64 to 84	62 to 86	86	86
OW-4B	S-2	Monitoring	323366.94	2085634.3	3-Aug-95	B	30.76	33.02	65 to 85	62 to 87	87	87
OW-5B	S-2	Monitoring	324069.97	2084974.7	4-Nov-97	B	32.08	31.85	69 to 79	69 to 79	80	80
OW-7B	S-2	Monitoring	324008.55	2086335.1	5-Nov-97	B	29.76	29.29	68 to 73	67 to 72.5	74	74
OW-8B Destroyed Dec-17-08	S-2	Monitoring	323466.53	2086239.5	5-Nov-97	B	31.41	31.02	65.5 to 70.5	64.5 to 71.5	71.5	71.5
OW-9B	S-2	Monitoring	324588.67	2085306.6	1-Jul-98	B	31.10	31.02	65 to 75	62 to 77.5	78.5	78.5
OW-10B	S-2	Monitoring	324271.02	2086672.9	9-Jul-98	B	27.60	29.99	63 to 68	60 to 77.5	78.5	78.5
OW-11B	S-2	Monitoring	323672.63	2085217.3	7-Nov-97	B	31.68	31.51	68 to 73	66 to 73.5	74	74
OW-12B	S-2	Monitoring	323845.86	2085755	7-Jul-98	B	30.30	30.09	69 to 79	67 to 80	80	80

TABLE 1-1
Well Construction Summary

Well ID	Zone	Type of Well	Northing	Easting	Installation Date	Installer	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth of Screen (feet bgs)	Depth of Filter Pack (feet bgs)	Completed Depth (feet bgs)	Total Depth (feet bgs)
OW-13B	S-2	Monitoring	324326.67	2086332.5	8-Jul-98	B	30.20	29.95	70 to 75	67 to 82.5	83.5	83.5
OW-14B	S-2	Monitoring	323532.7	2084530.81	7-Dec-99	URS	32.93	32.63	64 to 74	62 to 79	74	150
OW-15B	S-2	Monitoring	324338.41	2084536.53	16-Nov-99	URS	33.93	33.79	64 to 74	62 to 78	74	165
OW-16B	S-2	Monitoring	325227.98	2085553.69	6-Dec-99	URS	32.04	31.87	66 to 76	64 to 80	76	170
OW-17B	S-2	Monitoring	325012.99	2086973.39	29-Nov-99	URS	27.85	27.39	56 to 66	54 to 70	66	150
OW-18B Destroyed 09-Oct-08	S-2	Monitoring	323773.83	2086946.46	18-Nov-99	URS	29.86	30.16	68 to 78	65 to 84	78	150
OW-18B-R	S-2	Monitoring	323768.07	2086963.67	17-Jul-08	KF	28.94	28.57	64 to 69	61.8 to 70	70	70
OW-20B	S-2	Monitoring	324164.48	2085453.07	12-Sep-03	CH	32	31.67	54 to 74	46 to 81	79	82
PC-1B Destroyed Dec-17-08	S-2	Piezometer	323386.82	2085958.00	27-Aug-03	CH	31	30.91	70 to 90	65.3 to 91	90.8	91
PC-2B	S-2	Piezometer	322938.60	2086017.57	3-Sep-03	CH	31	30.52	70 to 90	67 to 91	90.6	91
PW-1B	S-2	Monitoring	323342.00	2085936.55	11-Jul-08	KF	TBD	32.46	64 to 79	62 to 80	80	81.71
PW-2B	S-2	Monitoring	323580.99	2086229.77	23-Jun-08	KF	TBD	32.84	62 to 67	59 to 68	68	70.10
PW-3B	S-2	Monitoring	323420.48	2086393.87	30-Jun-08	KF	TBD	32.14	65 to 70	61.5 to 70	70	71.82
PW-4B	S-2	Monitoring	323133.19	2086392.61	07-Jul-08	KF	TBD	32.12	61.5 to 66.5	58.6 to 67	67	69.8
X-1B	S-2	Monitoring	323061.14	2085176.8	25-Apr-95	EE	31.13	34.20	65 to 85	63 to 89	85	90
X-2B	S-2	Extraction	323239.28	2085160	28-Apr-95	EE	31.46	31.61	71 to 91	69 to 94	91	94
X-3B	S-2	Extraction	323235.94	2085057.1	11-May-95	EE	32.36	31.79	65 to 90	62 to 93	90	93
X-4B	S-2	Extraction	323387.25	2085171.2	5-May-95	EE	31.38	31.28	68 to 88	66 to 91	88	91
X-6B	S-2	Extraction	323039.07	2085300.58	16-Nov-01	URS	31	28.64	67 to 97	64 to 102	97	102
X-7B	S-2	Monitoring	323677.30	2085243.11	7-Nov-01	URS	31.63	31.42	58 to 78	54 to 85	78	85
X-8B	S-2	Extraction	323520.89	2085572.33	29-Aug-03	CH	31	28.38	73 to 93	65.5 to 103	98	103.5
X-9B	S-2	Monitoring	323531.42	2085804.11	4-Sep-03	CH	31	28.62	60 to 80	54 to 85.5	85.0	101.0
X-10B	S-2	Extraction	323163.07	2085871.68	8-Sep-03	CH	31	28.16	50 to 70	44 to 75	75	101.0

TABLE 1-1
Well Construction Summary

Well ID	Zone	Type of Well	Northing	Easting	Installation Date	Installer	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth of Screen (feet bgs)	Depth of Filter Pack (feet bgs)	Completed Depth (feet bgs)	Total Depth (feet bgs)
MW-3C	A-1	Monitoring	322705.84	2085697	7-Mar-86	LS	30.90	30.62	116 to 126	112 to 135	126	140
MW-4C	A-1	Monitoring	322897.67	2085281.6	7-Mar-86	LS	31.45	31.29	114 to 124	110 to 140	124	145
MW-7D	A-1	Monitoring	323048.18	2085269	11-Dec-89	GTI	31.00	33.88	114 to 124	111 to 130	129	130
MW-9C	A-1	Monitoring	323232.23	2085460.2	12-Dec-89	GTI	30.57	33.29	115 to 125	110 to 128	125	128
MW-13C	A-1	Monitoring	323078.94	2085060.3	18-Nov-91	GTI	31.80	33.70	115 to 125	113 to 127	125	126
OW-1C	A-1	Monitoring	323309.4	2084948	23-Jul-95	B	32.29	34.58	112 to 137	110 to 138	138	138
OW-3C	A-1	Monitoring	323517.63	2085547.7	26-Jul-95	B	31.09	33.44	103 to 133	100 to 139	139	139
OW-4C	A-1	Monitoring	323379.66	2085629.7	2-Aug-95	B	30.70	32.94	113 to 145	110 to 147	147	瘣47
OW-5C	A-1	Monitoring	324063.01	2084962.2	15-Oct-97	S	32.13	31.75	93 to 103	94 to 104	104	104
OW-6B	A-1	Monitoring	324337.43	2085272.1	4-Nov-97	B	30.78	30.30	92 to 97	90 to 110	98	98
OW-6C	A-1	Monitoring	324337.22	2085279.3	16-Oct-97	S	30.83	30.31	124 to 134	122 to 135	135	135
OW-7C	A-1	Monitoring	324017.09	2086340.9	21-Oct -97	S	29.71	29.19	112.5 to 122.5	110 to 123.5	123.5	123.5
OW-8C Destroyed Dec-17-08	A-1	Monitoring	323458.05	2086223.3	13-Oct-97	B	31.37	31.05	109 to 119	108 to 120	120	120
OW-11C	A-1	Monitoring	323669.19	2085204.5	22-Oct-97	S	31.86	31.64	116 to 126	114.5 to 127	127	127
OW-14C	A-1	Monitoring	323533.13	2084530.41	7-Dec-99	URS	32.93	32.58	100 to 110	95 to 115	110	150
OW-15C	A-1	Monitoring	324335.62	2084540.91	16-Nov-99	URS	33.83	33.74	92 to 102	90 to 107	102	165
OW-15D	A-1	Monitoring	324329.36	2084536.14	10-Dec-01	URS	33.73	33.69	120 to 130	110 to 133.5	130	133.5
OW-16C	A-1	Monitoring	325228.41	2085553.42	6-Dec-99	URS	32.04	31.66	100 to 110	96 to 114	110	170
OW-17C	A-1	Monitoring	325013.38	2086973.16	29-Nov-99	URS	27.85	27.31	96 to 106	92 to 112	106	150
OW-18C Destroyed 09-Oct-08	A-1	Monitoring	323773.49	2086946.89	18-Nov-99	URS	29.86	30.12	110 to 120	105 to 125	120	150
OW-18C-R	A-1	Monitoring	323760.17	2086961.13	16-Jul-08	KF	29.00	28.66	109 to 119	106.8 to 120	120	120
OW-19C	A-1	Monitoring	324021.26	2084366.54	5-Dec-01	URS	36.47	36.43	95 to 105	85.5 to 108	105.5	108
OW-19D	A-1	Monitoring	324026.82	2084370.88	6-Dec-01	URS	36.34	36.03	120 to 130	110.5 to 134	130	134

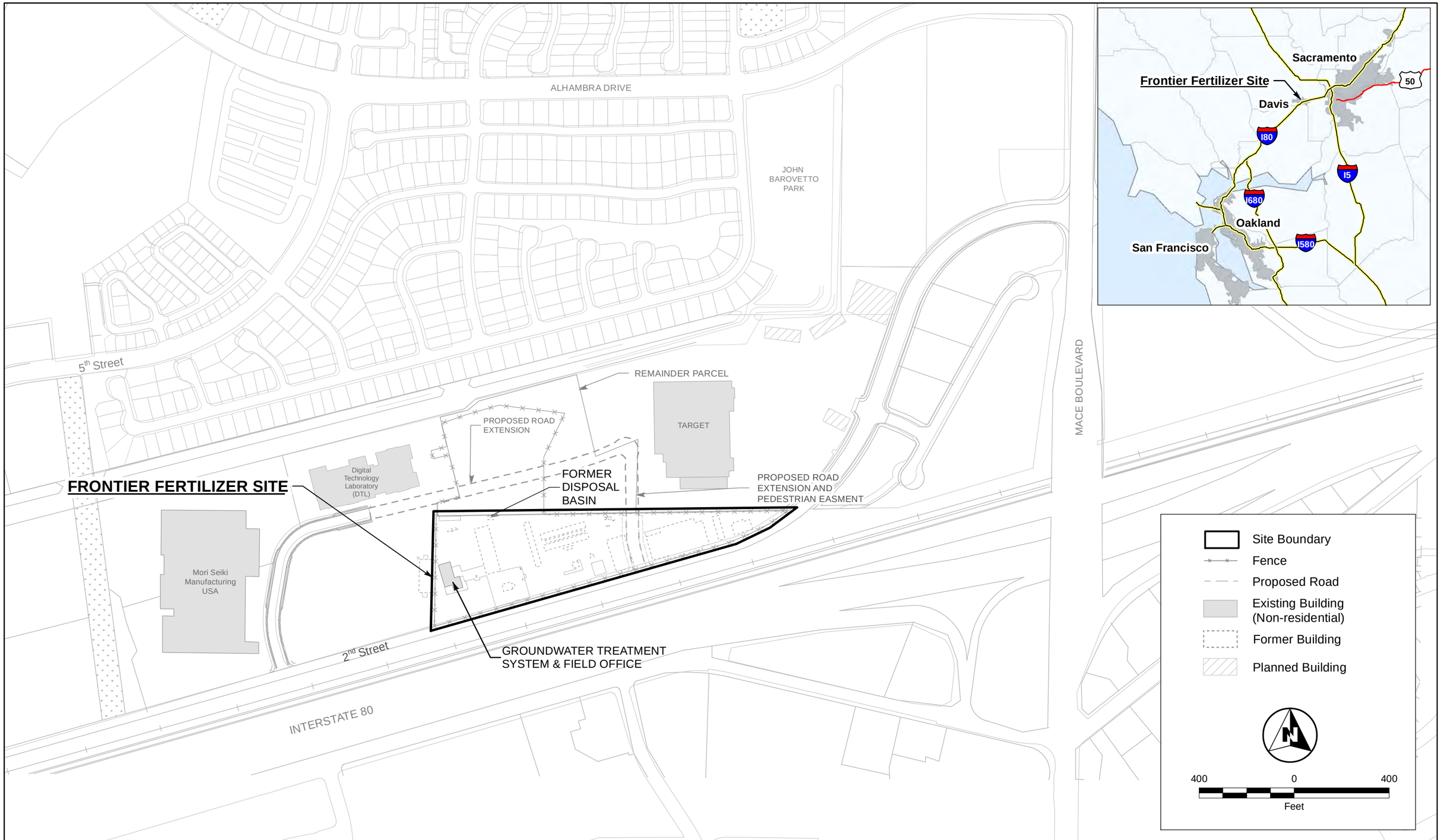
TABLE 1-1
Well Construction Summary

Well ID	Zone	Type of Well	Northing	Easting	Installation Date	Installer	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth of Screen (feet bgs)	Depth of Filter Pack (feet bgs)	Completed Depth (feet bgs)	Total Depth (feet bgs)
OW-20C	A-1	Monitoring	324159.69	2085452.81	11-Sep-03	CH	32	31.71	87 to 107	79 to 113.5	113.5	121.0
PC-1C Destroyed Dec-17-08	A-1	Piezometer	323391.56	2085968.02	26-Aug-03	CH	31	30.71	96 to 116	92.5 to 118	116.2	118.2
PC-2C	A-1	Piezometer	322939.58	2086028.33	2-Sep-03	CH	31	30.41	96 to 116	93 to 118	116	118
PW-1C	A-1	Monitoring	323334.37	2085938.37	10-Jul-08	KF	TBD	32.38	106 to 116	104 to 120	116	121
PW-2C	A-1	Monitoring	323581.04	2086220.89	19-Jun-08	KF	TBD	32.44	104 to 119	102 to 120	120	122.05
PW-3C	A-1	Monitoring	323421.42	2086402.05	26-Jun-08	KF	TBD	32.08	109.5 to 119.5	106.8 to 120	120	122.7
PW-4C	A-1	Monitoring	323125.52	2086392.33	03-Jul-08	KF	TBD	32.38	109.5 to 119.5	108.2 to 120	120	122.8
X-1C	A-1	Monitoring	323066.87	2085192.2	3-May-95	EE	31.40	30.80	111 to 131	108 to 134	131	134
X-5B	A-1	Monitoring	324245.33	2085173.66	4-Oct-00	URS	31.21	30.94	98 to 108	93 to 113	108	113
X-5C	A-1	Monitoring	324235.62	2085173.01	20-Sept-00	URS	31.25	30.79	115 to 125	110 to 130	125	159
X-7C	A-1	Monitoring	323674.36	2085235.54	2-Nov-01	URS	31.64	31.40	94 to 125	89 to 130	124	160

Notes:

amsl = above mean sea level
B = Bechtel
bgs = below ground surface
CH = CH2M HILL
EE = Ecology and Environment
GTI = Groundwater Technology, Inc.
KF = Kleinfelder
LS = Luhdorff and Scalmanini
NA = not available
S = Sierra
TBD = to be determined
URS = URS Corporation

Northing and Easting are in California State Plane coordinates, North American Datum of 1927 (NAD 27), Zone 2, measured in feet.



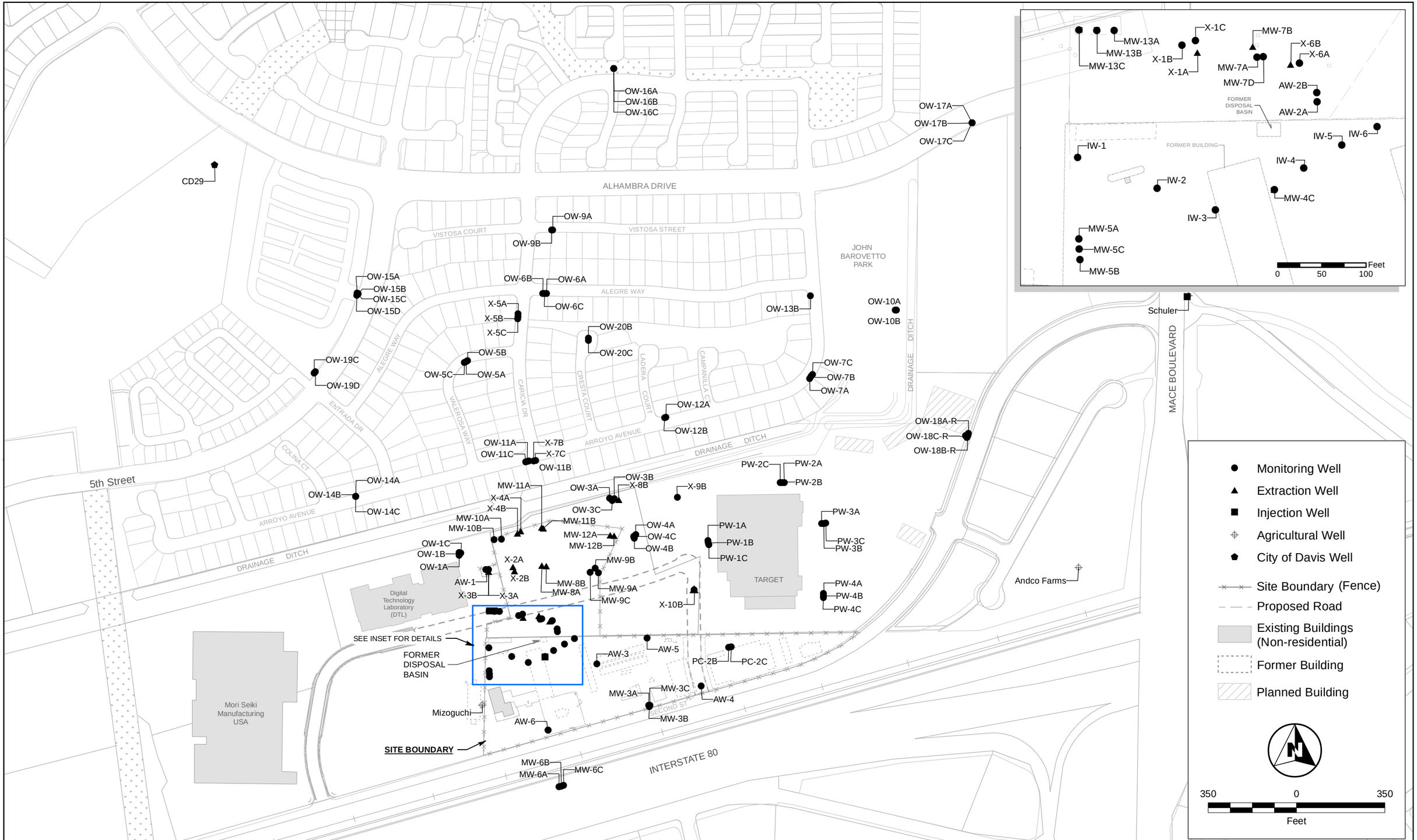
ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 1-1

SITE LOCATION

G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\Figure_1_Site_Loc.mxd 1/17/2013 [13:38 PM] LCARR, ITSI



ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 1-2

GROUNDWATER WELL LOCATIONS

G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\Figure_1_2_GW_well_locs.mxd 1/20/2013 [17:55 PM] LCARR, ITSI

SECTION 2
2 Sampling and Analysis Methods

The third and fourth quarter 2011 groundwater levels were measured and samples were collected, preserved, chilled, shipped, and analyzed in accordance with the *Sampling and Analysis Plan Update for the Frontier Fertilizer NPL Site Long-term Remedial Action* (ITSI, 2011). Groundwater levels are measured each quarter in all monitored wells, except for ANDCO and Schuler wells and City of Davis well 29. Table 2-1 presents the groundwater sampling frequency for all wells in the monitoring program. Groundwater samples are collected from wells identified with 4× during all quarterly monitoring events. Groundwater samples are collected from wells that were designated for 2× per year monitoring frequency only during the first and third quarter events. Groundwater samples are collected from wells designated for annual (1× per year) monitoring frequency only during the third quarter event.

The initial sampling frequency was coordinated with team members by the EPA in a May 22, 2002, e-mail. Sampling frequency was adjusted for monitoring wells near the Target store to enhance characterization of 1,2,3-trichloropropane (TCP). New wells installed to replace destroyed monitoring wells in well clusters OW-8, OW-18, and PC-1, located within the Target development parcel, are scheduled for quarterly monitoring until sufficient information is available to adjust the monitoring frequency. The schedule for monitoring of wells in well clusters PC-2 and OW-7 also has been adjusted to include quarterly sampling. Table 2-1 has been updated to include the newly installed wells, and presents the adjusted sampling schedule and typical sample analytical methods.

2.1 Methods for Determining Groundwater Levels

Groundwater level data are collected from monitoring and extraction wells during each quarterly monitoring event. Water levels are measured with an electronic water level meter from a fixed, surveyed reference point at the top of the well casing. Measurements are recorded to the nearest hundredth of a foot. For extraction wells connected to the treatment system, water levels are measured from the top of the well casing by dedicated transducers. Measurements are compared immediately to the measurements for the same quarter of the previous year to check for significant changes.

2.2 Methods for Collecting Groundwater Samples

The upgrade to dedicated inertial pump sampling in July 2004 improved the efficiency of sample collection and eliminated the need to prioritize the order of well sampling from the least contaminated to most contaminated well. The sequence of sample collection had been prioritized to reduce the potential for cross-contamination when non-dedicated sampling systems are used. An analysis of sample analytical results obtained since the upgrade and those obtained using previous sampling methods indicates that the dedicated sample collection method produces representative groundwater samples. Field data sheets are used by sampling technicians to record equipment calibration activities and results, and measurements and observations during

sampling at each well. Copies of the sheets are included in Appendix F (on CD-ROM) of this report.

2.2.1 Monitoring Well Sampling Method

A low-flow methodology using dedicated inertial pumps is used to purge and collect samples from monitoring wells. During purging and before sampling, groundwater indicator parameters, including temperature, pH, specific conductance, turbidity, dissolved oxygen, and oxidation-reduction potential, are measured and recorded. A more detailed description of the sampling method is included in Appendix D.

Particular care is taken to establish stable water levels when purging the well. A stable water level during purging indicates that groundwater is flowing from the formation into the well. Flow from wells typically is maintained at less than 0.5 liter per minute. After indicator parameters have stabilized, groundwater samples are collected from the pump discharge with no interruption in flow. If parameters do not stabilize, the variance to the sampling procedures is annotated on the field data sheets.

2.2.2 Extraction Well Sampling Method

Because the active extraction wells are pumped continuously, purging is not required. Before extraction wells are sampled, the operation and flow rate of each well pump is checked to verify its performance. The wells are then sampled directly from a sampling tap on the well head. If an extraction well is inactive, the pump is activated and the water level is monitored to confirm that the water level is stable before samples are collected.

2.3 Methods for Analyzing Groundwater Samples

For the third and fourth quarter 2011 events, groundwater samples were analyzed for volatile organic compounds (VOCs) by the EPA Contract Laboratory Program (CLP), using standardized procedure Multi-Media, Multi-Concentration, Organic Analytical Service for Superfund (SOM01.2). Most samples were analyzed using EPA Region 9 Laboratory Method 524.2 Selective Ion Monitoring (SIM) to detect EDB and DBCP for comparison to Maximum Contaminant Levels (MCLs) and to detect TCP for comparison to the California Public Health Goal for drinking water.

Samples are analyzed by Method 524.2 SIM on the basis of the historic levels of EDB, DBCP, or TCP reported for each well. If none of these COCs is detected above Method SOM01.2 quantitation limit (i.e., concentrations greater than 0.5 micrograms per liter [µg/L]), the well is added to the list for Method 524.2 SIM analysis during the next monitoring event.

TABLE 2-1
GROUNDWATER MONITORING STRATEGY
FRONTIER FERTILIZER NATIONAL PRIORITY LIST (NPL) SITE, DAVIS, CALIFORNIA

		1Q		2Q		3Q		4Q	
Well ID	**Frequency**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**
ANDCO	Discontinue monitoring								
CD 29		X	X	X	X	X	X	X	X
SCHULER	Discontinue monitoring								
AW-1		X	X			X	X		
AW-2A		X	X	X	X	X	X	X	X
AW-2B		X	X	X	X	X	X	X	X
AW-3	Discontinue monitoring, but continue to measure groundwater elevations								
AW-4	Discontinue monitoring, but continue to measure groundwater elevations								
AW-5	Discontinue monitoring, but continue to measure groundwater elevations								
AW-6	Discontinue monitoring, but continue to measure groundwater elevations								
MW-3A	1X					X	X		
MW-3B	1X					X	X		
MW-3C	1X					X	X		
MW-4C	1X					X	X		
MW-5A	2X	X	X			X	X		
MW-5B	2X	X	X			X	X		
MW-5C	2X	X	X			X	X		
MW-6A	1X					X	X		
MW-6B	1X					X	X		
MW-6C	1X					X	X		
MW-7A	4X	X		X		X		X	
MW-7B	4X	X		X		X		X	
MW-7D	4X	X	X	X	X	X	X	X	X
MW-8A	4X	X		X		X		X	
MW-8B	4X	X		X		X		X	
MW-9A	2X	X	X			X	X		

TABLE 2-1 CONTINUED
GROUNDWATER MONITORING STRATEGY
FRONTIER FERTILIZER NATIONAL PRIORITY LIST (NPL) SITE, DAVIS, CALIFORNIA

		1Q		2Q		3Q		4Q	
Well ID	**Frequency**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**
MW-9B	2X	X	X			X	X		
MW-9C	2X	X	X			X	X		
MW-10A	Discontinue monitoring, but continue to measure groundwater elevations								
MW-10B	Discontinue monitoring, but continue to measure groundwater elevations								
MW-11A	4X	X	X	X	X	X	X	X	X
MW-11B	4X	X		X		X		X	
MW-12A	4X	X	X	X	X	X	X	X	X
MW-12B	4X	X	X	X	X	X	X	X	X
MW-13A	1X					X	X		
MW-13B	4X	X	X	X	X	X	X	X	X
MW-13C	4X	X	X	X	X	X	X	X	X
OW-1A	1X					X	X		
OW-1B	1X					X	X		
OW-1C	4X	X	X	X	X	X	X	X	X
OW-3A	4X	X	X	X	X	X	X	X	X
OW-3B	4X	X	X	X	X	X	X	X	X
OW-3C	4X	X	X	X	X	X	X	X	X
OW-4A	4X	X	X	X	X	X	X	X	X
OW-4B	4X	X	X	X	X	X	X	X	X
OW-4C	4X	X	X	X	X	X	X	X	X
OW-5A	4X	X	X	X	X	X	X	X	X
OW-5B	4X	X	X	X	X	X	X	X	X
OW-5C	4X	X	X	X	X	X	X	X	X
OW-6A	4X	X	X	X	X	X	X	X	X
OW-6B	2X	X	X			X	X		
OW-6C	2X	X	X			X	X		

TABLE 2-1 CONTINUED
GROUNDWATER MONITORING STRATEGY
FRONTIER FERTILIZER NATIONAL PRIORITY LIST (NPL) SITE, DAVIS, CALIFORNIA

		1Q		2Q		3Q		4Q	
Well ID	**Frequency**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**
OW-7A	1X	X	X	X	X	X	X	X	X
OW-7B	1X	X	X	X	X	X	X	X	X
OW-7C	1X	X	X	X	X	X	X	X	X
OW-8A	Discontinue monitoring, well abandoned and replaced with PW-2A, PW-3A and PW-4A								
OW-8B	Discontinue monitoring, well abandoned and replaced with PW-2B, PW-3B and PW-4B								
OW-8C	Discontinue monitoring, well abandoned and replaced with PW-2C, PW-3C and PW-4C								
OW-9A	4X	X	X	X	X	X	X	X	X
OW-9B	4X	X	X	X	X	X	X	X	X
OW-10A	Discontinue monitoring, but continue to measure groundwater elevations								
OW-10B	Discontinue monitoring, but continue to measure groundwater elevations								
OW-11A	4X	X	X	X	X	X	X	X	X
OW-11B	4X	X		X		X		X	
OW-11C	4X	X		X		X		X	
OW-12A	4X	X	X	X	X	X	X	X	X
OW-12B	4X	X	X	X	X	X	X	X	X
OW-13B	1X					X	X		
OW-14A	1X					X	X		
OW-14B	1X					X	X		
OW-14C	4X	X	X	X	X	X	X	X	X
OW-15A	1X					X	X		
OW-15B	1X					X	X		
OW-15C	1X					X	X		
OW-15D	4X	X	X	X	X	X	X	X	X
OW-16A	1X					X	X		
OW-16B	1X					X	X		

TABLE 2-1 CONTINUED
GROUNDWATER MONITORING STRATEGY
FRONTIER FERTILIZER NATIONAL PRIORITY LIST (NPL) SITE, DAVIS, CALIFORNIA

		1Q		2Q		3Q		4Q	
Well ID	**Frequency**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**
OW-16C	1X					X	X		
OW-17A	Discontinue monitoring, but continue to measure groundwater elevations								
OW-17B	Discontinue monitoring, but continue to measure groundwater elevations								
OW-17C	Discontinue monitoring, but continue to measure groundwater elevations								
OW-18A	Discontinue monitoring, well abandoned and replaced with OW-18A-R								
OW-18B	Discontinue monitoring, well abandoned and replaced with OW-18B-R								
OW-18C	Discontinue monitoring, well abandoned and replaced with OW-18C-R								
0W-18A-R	4X	X	X	X	X	X	X	X	X
OW-18B-R	4X	X	X	X	X	X	X	X	X
OW-18C-R	4X	X	X	X	X	X	X	X	X
OW-19C	4X	X	X	X	X	X	X	X	X
OW-19D	4X	X	X	X	X	X	X	X	X
OW-20B	4X	X	X	X	X	X	X	X	X
OW-20C	4X	X	X	X	X	X	X	X	X
PC-1B	Discontinue monitoring, well abandoned and replaced with PW-1B								
PC-1C	Discontinue monitoring, well abandoned and replaced with PW-1C								
PC-2B	4X	X	X	X	X	X	X	X	X
PC-2C	4X	X	X	X	X	X	X	X	X
PW-1A	4X	X	X	X	X	X	X	X	X
PW-1B	4X	X	X	X	X	X	X	X	X
PW-1C	4X	X	X	X	X	X	X	X	X
PW-2A	4X	X	X	X	X	X	X	X	X
PW-2B	4X	X	X	X	X	X	X	X	X
PW-2C	4X	X	X	X	X	X	X	X	X

TABLE 2-1 CONTINUED
GROUNDWATER MONITORING STRATEGY
FRONTIER FERTILIZER NATIONAL PRIORITY LIST (NPL) SITE, DAVIS, CALIFORNIA

		1Q		2Q		3Q		4Q	
Well Id	**Frequency**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**	**SOM01.2**	**DBCP, EDB and TCP (504.1 or 524SIM)**
PW-3A	4X	X	X	X	X	X	X	X	X
PW-3B	4X	X	X	X	X	X	X	X	X
PW-3C	4X	X	X	X	X	X	X	X	X
PW-4A	4X	X	X	X	X	X	X	X	X
PW-4B	4X	X	X	X	X	X	X	X	X
PW-4C	4X	X	X	X	X	X	X	X	X
X-1A	4X	X		X		X		X	
X-1B	4X	X		X		X		X	
X-1C	4X	X	X	X	X	X	X	X	X
X-2A	4X	X	X	X	X	X	X	X	X
X-2B	4X	X	X	X	X	X	X	X	X
X-3A	4X	X	X	X	X	X	X	X	X
X-3B	4X	X	X	X	X	X	X	X	X
X-4A	4X	X	X	X	X	X	X	X	X
X-4B	4X	X	X	X	X	X	X	X	X
X-5A	4X	X	X	X	X	X	X	X	X
X-5B	4X	X	X	X	X	X	X	X	X
X-5C	4X	X	X	X	X	X	X	X	X
X-6A	4X	X	X	X	X	X	X	X	X
X-6B	4X	X		X		X		X	
X-7B	4X	X		X		X		X	
X-7C	4X	X		X		X		X	
X-8B	4X	X	X	X	X	X	X	X	X
X-9B	4X	X	X	X	X	X	X	X	X
X-10B	4X	X	X	X	X	X	X	X	X

SECTION 3
3 Groundwater Level Monitoring

On September 6-7, 2011, and November 28-29, 2011, groundwater level data representing the third and fourth quarters of 2011 were collected from all existing accessible wells to evaluate directions of groundwater flow within and between the S-1, S-2, and A-1 aquifer zones in the area of the Frontier Fertilizer NPL site. Well survey data are used to convert depth-to-groundwater measurements to groundwater elevations referenced to mean sea level. (Construction data for monitored wells are included in Table 1-1.) Extraction rates from three extraction wells (MW-7B, X-1A, and X-6B) near the pesticide source zone remained reduced by about 50% of their average normal operating rate, to minimize heat removal during in situ thermal treatment. The reduced extraction rates contributed to increased median water levels in S-1 and S-2 zone wells during the reporting period.

3.1 Groundwater Level Measurements

Groundwater elevations for the third and fourth quarters of 2011 are shown on Figures 3-1a and 3-1b; 3-2a and 3-2b; and 3-3a and 3-3b, representing wells screened in the S-1, S-2, and A-1 aquifer zones, respectively. Lines of equal potentiometric head (that is, groundwater elevation contours) are derived from measured groundwater elevations as depicted on the figures listed above to evaluate directions of groundwater flow (discussed in Sections 3.3 and 3.4). It should be noted that groundwater elevation contours are interpretive–and largely qualitative in nature–given the locations of groundwater level measurements and the heterogeneous subsurface. (The groundwater depths in each of the monitoring wells measured during the third and fourth quarters of 2011are presented in Appendix F.)

During the third quarter of 2011, groundwater elevations declined in all three groundwater zones from the winter and spring (first and second quarter) 2011 levels. Groundwater elevations were approximately 5.25, 5.17, and 16.55 feet lower in the S-1, S-2, and A-1 zones, respectively, than the elevations recorded during the second quarter of 2011. However, groundwater elevations were approximately 5.41, 5.31, and 4.06 feet higher in zones S-1, S-2, and A-1, respectively, for the third quarter 2011 than in the third quarter of 2010.

During the fourth quarter of 2011, groundwater elevations increased as part of the regular seasonal pattern. Compared to the previous quarter, median groundwater elevations in the S-1 and S-2 aquifer zones increased 0.09 and 0.93 feet, respectively. A larger increase in groundwater elevations from the previous quarter was noted in the A-1 zone, with a median increase of 12.69 feet. Groundwater elevations measured in the S-1 and S-2 aquifer zones during the fourth quarter of 2011 were about 4 feet higher than elevations measured during the fourth quarter of 2010. The median groundwater elevation in the A-1 zone during the fourth quarter of 2011 was about 3.2 feet higher than the same quarter of 2010.

Hydrographs for all the S-1, S-2, and A-1 monitoring wells, showing quarterly variations in groundwater levels, are presented in Appendix A. Horizontal gradients and linear velocities for the third and fourth quarters of 2011 are presented in Table 3-1.

Table 3-1
Horizontal Gradients and Linear Velocities
Third and Fourth Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

	S-1 Horizontal Gradients		S-2 Horizontal Gradients		Linear Velocities (feet/year)		
	Outside ROI	Near ROI	Outside ROI	Near ROI	S-1 zone	S-2 zone	A-1 zone
third Quarter	0.002 - 0.005	0.001 - 0.011	0.002 - 0.005	0.021 - 0.032	-10 - 129	40 - 220	0.48 - 1.01
fourth Quarter	0.001 - 0.002	0.003 - 0.014	0.001 - 0.002	0.015 - 0.022	20 - 170	16 - 191	0.14 - 0.29

Note:
ROI = Radius of influence of extraction well system

Typically, groundwater levels in the S-1, S-2, and A-1 zones are at an annual low in late summer (that is, during the third quarter), before the rainy season begins and following several months of irrigation pumping. Groundwater levels are at an annual high in late winter (that is, during the first quarter), at the end of the rainy season and following recovery from agricultural pumping. Seasonal fluctuations are largest in the A-1 aquifer (20 to 30 feet) because it is used as a source of irrigation water for nearby agricultural fields. Historical data indicate that S-1 and S-2 zone groundwater levels typically fluctuate 10 to 20 feet annually. In the area of the extraction well field, groundwater levels are influenced by extraction rates. Beyond the area influenced by the extraction system wells, groundwater levels fluctuate seasonally with precipitation and water supply pumping.

3.2 Horizontal Flow in the S-1 and S-2 Zones

Groundwater elevation data collected from monitoring wells screened in the same hydrostratigraphic unit at similar elevations are used to calculate horizontal gradients. Horizontal gradients between wells found to be parallel to flow (that is, perpendicular to the groundwater elevation contours depicted on Figures 3-1a and b and 3-2a and b) are used to estimate horizontal velocities in the S-1 and S-2 aquifer zones during the third and fourth quarters of 2011. Parameter values used to estimate horizontal velocities are presented in the groundwater elevation file in the CD included with this report (Appendix F).

The horizontal hydraulic gradients in the S-1 aquifer zone ranged from approximately 0.0022 to 0.0045 for the third quarter and 0.0010 to 0.0022 for the fourth quarter, outside the area of influence of the extraction wells. For areas near the extraction well field, the horizontal gradients in the S-1 aquifer zone for the third and fourth quarters of 2011 ranged from 0.0014 to 0.0114 and 0.0027 to 0.0136, respectively. The horizontal gradients in the S-2 zone were similar to those of S-1 outside of the extraction well area of influence, ranging from 0.0022 to 0.0046 for the third quarter 2011 and 0.0006 to 0.0023 for the fourth quarter. However S-2 aquifer zone gradients near the extraction well field were stronger, ranging from 0.0209 to 0.0323 for the third quarter of 2011 and 0.0145 to 0.0217 for the fourth quarter.

Horizontal gradients in the S-1 and S-2 zones indicate a tendency for groundwater flow toward the north-northeast during the third and fourth quarters of 2011, which is consistent with previous observations. Groundwater flows radially through the S-1 and S-2 zones to extraction wells in the well field area of influence. A steep gradient continues to be measured in the area

immediately south of the extraction well field, which includes the pesticide source zone. This large gradient (that is, potential for more groundwater movement toward the extraction system well field) is a result of the extraction wells reducing potentiometric head downgradient from the pesticide source zone. Groundwater gradients north of Arroyo Avenue also indicate that groundwater with detected COCs flows toward the extraction wells. Wells downgradient of the extraction system area of influence receive uncontaminated groundwater because groundwater containing COCs is collected by the extraction system upgradient. The extent of horizontal influence fluctuates based on S-1 and S-2 zone water levels. The extraction system maintained the S-1 and S-2 zone gradients, which indicate continued groundwater flow from north of Arroyo Avenue toward the extraction system well field. The steep gradients also indicate that hydraulic conductivities are lower south and west of the extraction well field. The extraction rates and operating schedules will continue to be monitored and adjusted to obtain the optimal capture effectiveness and minimize removal of heated water from the source zone.

Horizontal gradients are useful in the evaluation of groundwater flow direction and estimation of capture zones. However, these values do not indicate the velocity at which groundwater flows through the subsurface. To provide estimates of groundwater flow rates, linear velocities were calculated in the S-1 and S-2 aquifers for the third and fourth quarters of 2011. These linear velocities were calculated from OW-11 monitoring wells to MW-11 extraction wells. Calculations were performed using the horizontal gradients for the third and fourth quarters of 2011, hydraulic conductivity values from aquifer pump test data in the *Frontier Fertilizer Groundwater Model Update and Extraction Wellfield Plan* (CH2M HILL, 2003a), and aquifer material parameters from soil analysis in the *Final Supplemental Remedial Investigation Report No. 2* (CH2M HILL, 2003b). The range of conductivity values and aquifer parameters creates a range of groundwater flow rates through the heterogeneous subsurface. Although the range of calculated velocities accounts for some variability from heterogeneous soils, these calculations do not take into account other transport factors (such as diffusion, sorption, and variable saturation)

The third and fourth quarter 2011 linear velocity values calculated for the S-1 aquifer zone ranged from -10.3 to 129 feet per year and 20 to 170 feet per year, respectively, toward MW-11A, under the gradients estimated between wells OW-11A and MW-11A during these events. Linear velocity values in the S-2 aquifer zone ranged from 40 to 220 feet per year during the third quarter of 2011 and from 17 to 191 feet per year during the fourth quarter between wells OW-11B and MW-11B. These velocities are within the range of values calculated from 2010 and first half 2011 data. The negative velocity estimate for the third quarter S-1 aquifer zone results from higher elevations measured in wells MW-10A and OW-4A, located east and west of the extraction well field, respectively. Gradients between these wells and the extraction well field result in flow perpendicular to the gradient between OW-11A and MW-11A. If MW-10A and OW-4A elevations were not included in the algorithm, the gradient and velocity would be positive.

The above linear velocities are calculated using the Darcy equation for laminar groundwater flow. The basic equation is as follows:

$$v = q/\theta = - K\,í/\theta$$

where:

- v = linear velocity (L/T),
- q = specific discharge (L/T),
- θ = effective soil porosity (-),
- K = hydraulic conductivity (L/T), and
- $í$ = gradient (-).

The range in calculated linear velocities is produced by using a range of porosity and gradient values. The porosity range includes minimum and maximum values measured in soil core samples. This variation is used to account roughly for variability in soil materials. A range of hydraulic conductivity values is not used to account for soil heterogeneity, because these values themselves represent somewhat larger-scale variability as they are determined from pump tests. The range in gradient values represents the range in the driving force exerted on groundwater at various locations along the flow paths. Values of physical properties used to calculate velocity (for example, porosity, gradients, etc.) can be found in Appendix F, along with the measured groundwater elevations.

Horizontal gradients are calculated using OW-11 elevations and 1) an average of groundwater elevations from monitoring wells and, 2) from monitoring and extraction wells. Lower linear velocities are based on the average of groundwater elevations in monitoring wells closest to the northern edge of the extraction well field compared to those of OW-11. Higher linear velocities are derived from the gradient between the average elevation of the same monitoring wells and the extraction wells on the north end of the extraction well field compared to OW-11. Extraction wells on the north end of the extraction well field are closer to OW-11 than are the monitoring wells.

Gradients are calculated by the following equation:

$$í = (E_f - E_i)/d$$

where:

E_f = groundwater elevation at final destination (L),
E_i = groundwater elevation at initial location (L), and
d = distance between the locations (L).

The lower gradient value is calculated using groundwater monitoring well data near the extraction well field, despite the fact that some of these elevations do not reflect the groundwater depression caused by extraction from this area. A higher gradient value is calculated with elevation data from the monitoring and extraction wells.

The gradients for the S1-zone are calculated using the parameters and equations below:

$$\acute{\imath}_{max} = ([MW \,\&\, EW]_{Aavg} - OW11A_E)/d$$

$$\acute{\imath}_{min} = (MW_{Aavg} - OW11A_E)/d$$

where:

$\acute{\imath}_{max}$ is the high estimate and $\acute{\imath}_{min}$ is the low estimate of gradient values.

$[MW \,\&\, EW]_{Aavg}$ = average groundwater elevation from monitoring wells MW-10A, OW-3A, OW-4A, and X-4A and extraction wells MW-11A, and MW-12A (feet). (Note: OW-1A is not included in the S-1 gradient calculation since it is in an area of west-east flow, not north-to-south flow.)

MW_{Aavg} = average groundwater elevation from monitoring wells MW-10A, OW-3A, OW-4A and X-4A (feet). (Note: OW-1A is not included in S-1 gradient calculation since it is in an area of west-east flow, not north to south flow.)

$OW11A_E$ = groundwater elevation at well OW-11A (feet).

d = distance between MW-11A and OW-11A (that is, 271 feet).

The gradients for the S2-zone are calculated by the equations below:

$$\acute{\imath}_{max} = ([MW \,\&\, EW]_{Bavg} - OW11B_E)/d$$

$$\acute{\imath}_{min} = (MW_{Bavg} - OW11B_E)/d$$

where:

$[MW \& EW]_{Bavg}$	=	average groundwater elevation from monitoring wells MW-10B, OW-1B, OW-3B, OW-4B, and X-9B, and extraction wells MW-11B, MW-12B, X-4B and X-8B (feet).
MW_{Bavg}	=	average groundwater elevation from monitoring wells MW-10B, OW-1B, OW-3B, OW-4B, and X-9B (feet).
$OW11B_E$	=	groundwater elevation at well OW-11B (feet).
d	=	distance between MW-11B and OW-11B (that is, 271 feet).

Thus the maximum and minimum velocity estimates are calculated by the following equations:

$$v_{max} = - K \acute{\imath}_{max}/\theta_{min}$$

$$v_{min} = - K \acute{\imath}_{min}/\theta_{max}$$

An alternative method for estimating groundwater flow velocity can be used to estimate flow rate prior to the beginning of extraction. The low groundwater flow rate also can be estimated based on the date COCs were first detected in well OW-11B groundwater (1997), the date the facility began pesticide distribution (1972), and the distance from the former disposal basin to the OW-11 (700 feet). These parameters indicate that the net horizontal velocity would have to have been greater than 28 feet per year, because initial samples collected from OW-11 contained COCs.

3.3 Horizontal Flow in the A-1 Aquifer

The groundwater elevation measurements for the third and fourth quarters of 2011 indicate that the regional flow direction through the A-1 zone appears to be toward the south-southeast near the Frontier Fertilizer site. Historically, horizontal groundwater flow directions in the A-1 aquifer have been difficult to evaluate because of the similarity of groundwater level measurements (that is, small differences in potentiometric head across the monitored area). This flow trend often has been observed in the winter months, when agricultural pumping ceases and both vertical and lateral gradients become very small.

Figures 3-3a and 3-3b depict the groundwater elevation surface contours for the A-1 aquifer zone for the third and fourth quarters of 2011, respectively. The contours were generated with groundwater elevation data from wells screened in the deeper portion of the A-1 aquifer zone. The screen intervals of the deeper A-1 zone wells range from 104 feet bgs (highest top of screen depth) to 145 feet bgs (lowest bottom of screen depth). The horizontal flow in the A-1 aquifer zone for the third and fourth quarters of 2011 is illustrated on Figures 3-3a and 3-3b by contouring groundwater elevations from wells screened in the deeper part of the A-1 aquifer zone. During the irrigation season (approximately April through October), groundwater is pumped from the A-1 aquifer zone and below. Because of this, lower potentiometric heads commonly are measured in A-1 aquifer zone wells with deeper screened intervals.

The linear groundwater velocities for the third and fourth quarters of 2011 also were calculated for the A-1 aquifer zone at the same locations as in the S-1 and S-2 aquifer zones. These

calculations were made in the same manner as discussed above in Section 3.2. The third and fourth quarter 2011 linear velocity values calculated for the A-1 aquifer zone ranged from 0.48 to 1.01 feet/year and 0.14 to 0.29 feet/year, respectively, under the current gradient from well OW-11C to the MW-11 area. The third quarter 2011 velocities are quite similar to those observed during the third quarter 2010 event, and higher than those calculated for the second quarter 2011 event, while the velocities during the fourth quarter of 2011 are lower than those for the third quarter of 2011. Although hydraulic conductivity values are more than an order of magnitude higher in the A-1 aquifer zone than in the overlying zones, the horizontal flow rates have remained significantly lower than those in the S-1 and S-2 zones, because of the small horizontal gradients.

3.4 Vertical Gradients Between S-1, S-2, and A-1 Zones

Vertical hydraulic gradients between the S-1, S-2, and A-1 aquifer zones for the third and fourth quarters of 2011 were evaluated using groundwater level or potentiometric head measurements from nested well groups. The vertical gradients presented in Table 3-1 are calculated with the monitoring results for the third and fourth quarters of 2011. A negative gradient value indicates downward flow, and a positive gradient value indicates upward flow. Groundwater level measurements from the nested well groups suggest that the degree of hydraulic gradient between the S-1 and S-2 zones and between the S-2 and A-1 zones varies with location, but is generally significant. Downward gradients typically have been induced by agricultural and municipal wells screened in the A-1 zone and below.

Vertical gradients calculated during the third and fourth quarters of 2011 are shown in Table 3-2.

Table 3-2
Vertical Gradients

Shallow Well	Deep Well	Zones	September 2011	November 2011
AW-2A	AW-2B	S1-S2	-0.175	-0.104
MW-3A	MW-3B	S1-S2	-0.017	-0.009
MW-5A	MW-5C	S1-S2	-0.119	-0.033
MW-5B	MW-5C	S1-S2	-0.185	-0.051
MW-6A	MW-6C	S1-S2	-0.086	-0.019
MW-6B	MW-6C	S1-S2	-0.152	-0.032
MW-8A	**MW-8B**	S1-S2	-0.825	-0.804
MW-9A	MW-9B	S1-S2	-0.016	-0.004
MW-10A	MW-10B	S1-S2	-0.014	-0.007
MW-11A	**MW-11B**	S1-S2	-0.655	-0.810
MW-12A	**MW-12B**	S1-S2	-0.439	-0.676
MW-13A	MW-13B	S1-S2	-0.295	-0.117
OW-1A	OW-1B	S1-S2	-0.489	-0.262
OW-3A	OW-3B	S1-S2	-0.005	-0.001
OW-4A	OW-4B	S1-S2	-0.255	-0.060
OW-5A	OW-5B	S1-S2	0.000	-0.003

Table 3-2
Vertical Gradients

Shallow Well	Deep Well	Zones	September 2011	November 2011
OW-7A	OW-7B	S1-S2	-0.001	-0.041
OW-9A	OW-9B	S1-S2	-0.007	-0.011
OW-10A	OW-10B	S1-S2	-0.005	0.002
OW-11A	OW-11B	S1-S2	-0.003	0.001
OW-12A	OW-12B	S1-S2	-0.015	-0.010
OW-14A	OW-14B	S1-S2	-0.019	-0.002
OW-15A	OW-15B	S1-S2	-0.107	-0.031
OW-16A	OW-16B	S1-S2	-0.006	0.000
OW-17A	OW-17B	S1-S2	-0.003	0.000
X-1A	X-1B	S1-S2	-0.238	-0.105
X-2A	**X-2B**	S1-S2	-1.025	-1.041
X-3A	**X-3B**	S1-S2	-0.855	-0.888
X-4A	**X-4B**	S1-S2	-0.936	-0.138
X-6A	**X-6B**	S1-S2	-0.370	-0.436
PW-1A	PW-1B	S1-S2	-0.006	0.007
PW-2A	PW-2B	S1-S2	0.000	0.000
PW-3A	PW-3B	S1-S2	0.003	0.001
PW-4A	PW-4B	S1-S2	0.001	0.001
OW-18A-R	OW-18B-R	S1-S2	0.004	0.004
MW-3B	MW-3C	S2-A1	-0.402	-0.098
MW-9B	MW-9C	S2-A1	-0.345	-0.052
MW-13B	MW-13C	S2-A1	-0.219	-0.014
OW-1B	OW-1C	S2-A1	-0.088	0.016
OW-3B	OW-3C	S2-A1	-0.340	-0.056
OW-4B	OW-4C	S2-A1	-0.137	-0.010
OW-5B	OW-5C	S2-A1	-0.536	-0.138
OW-7B	OW-7C	S2-A1	-0.333	-0.057
OW-11B	OW-11C	S2-A1	-0.293	-0.070
OW-14B	OW-14C	S2-A1	-0.468	-0.197
OW-15B	OW-15C	S2-A1	-0.330	-0.074
OW-15B	OW-15D	S2-A1	-0.217	-0.060
OW-16B	OW-16C	S2-A1	-0.125	-0.006
OW-17B	OW-17C	S2-A1	-0.166	-0.024
OW-20B	OW-20C	S2-A1	-0.369	-0.083
PC-2B	PC-2C	S2-A1	-0.380	-0.067
X-1B	X-1C	S2-A1	-0.194	0.034

Table 3-2
Vertical Gradients

Shallow Well	Deep Well	Zones	September 2011	November 2011
X-7B	X-7C	S2-A1	-0.268	-0.075
PW-1B	PW-1C	S2-A1	-0.429	-0.094
PW-2B	PW-2C	S2-A1	-0.363	-0.103
PW-3B	PW-3C	S2-A1	-0.383	-0.113
PW-4B	PW-4C	S2-A1	-0.403	-0.104
OW-18B-R	OW-18C-R	S2-A1	-0.371	-0.087
MW-7A	MW-7D	S1-A1	-0.150	-0.008
MW-7B	MW-7D	S1-A1	-0.136	0.055
OW-6A	OW-6B	S1-A1	-0.223	-0.051
OW-6A	OW-6C	S1-A1	-0.163	-0.038
X-5A	X-5B	S1-A1	-0.228	-0.057
X-5A	X-5C	S1-A1	-0.198	-0.048

Notes:

Vertical gradient (deep - shallow) = difference in groundwater elevation (feet)/difference in mid-screen elevation (feet).

Positive gradients indicate upward gradient direction, and negative gradients indicate downward direction.

Bold values are pumping wells.

3.4.1 S-1/S-2 Vertical Gradients

The majority of the S-1/S-2 vertical gradients observed during the third and fourth quarters of 2011 were in the downward direction, both inside and outside the apparent area of the extraction well field influence. Upward or neutral gradients between S-1 and S-2 aquifer zones were measured in five well pairs (OW-5A/B, OW-18A-R/B-R, PW-2A/B, PW-3A/B, and PW-4A/B) during the third quarter of 2011. Similarly, preferred upward or neutral gradients between the S-1 and S-2 aquifer zones were observed in nine well pairs (OW-10A/B, OW-11A/B, OW-16A/B, OW-17A/B, PW-1A/B, PW-2A/B, PW-3A/B, PW-4A/B, and OW-18A-R/B-R) during the fourth quarter of 2011. Vertical gradients calculated between the S-1 and S-2 aquifer zones during the third and fourth quarters of 2011 ranged from -0.152 to 0.004 and from -0.04 to 0.004, respectively, in the areas beyond the extraction field zone of influence. The S-1/S-2 gradients during the third and fourth quarters of 2011 in the extraction well field area ranged from -0.489 to 0.003 and -0.436 to 0.007, respectively. The vertical gradients between aquifer zones S-1 and S-2 were similar in the third and fourth quarters of 2011 to those observed during the same quarters of 2010. The highest downward gradient values typically are encountered near the extraction well field. Extraction system pumping is the driver for the strong downward gradients in the upper hydrologic units in the extraction field area. Downward gradients away from the area influenced by the groundwater extraction system reflect regional gradients.

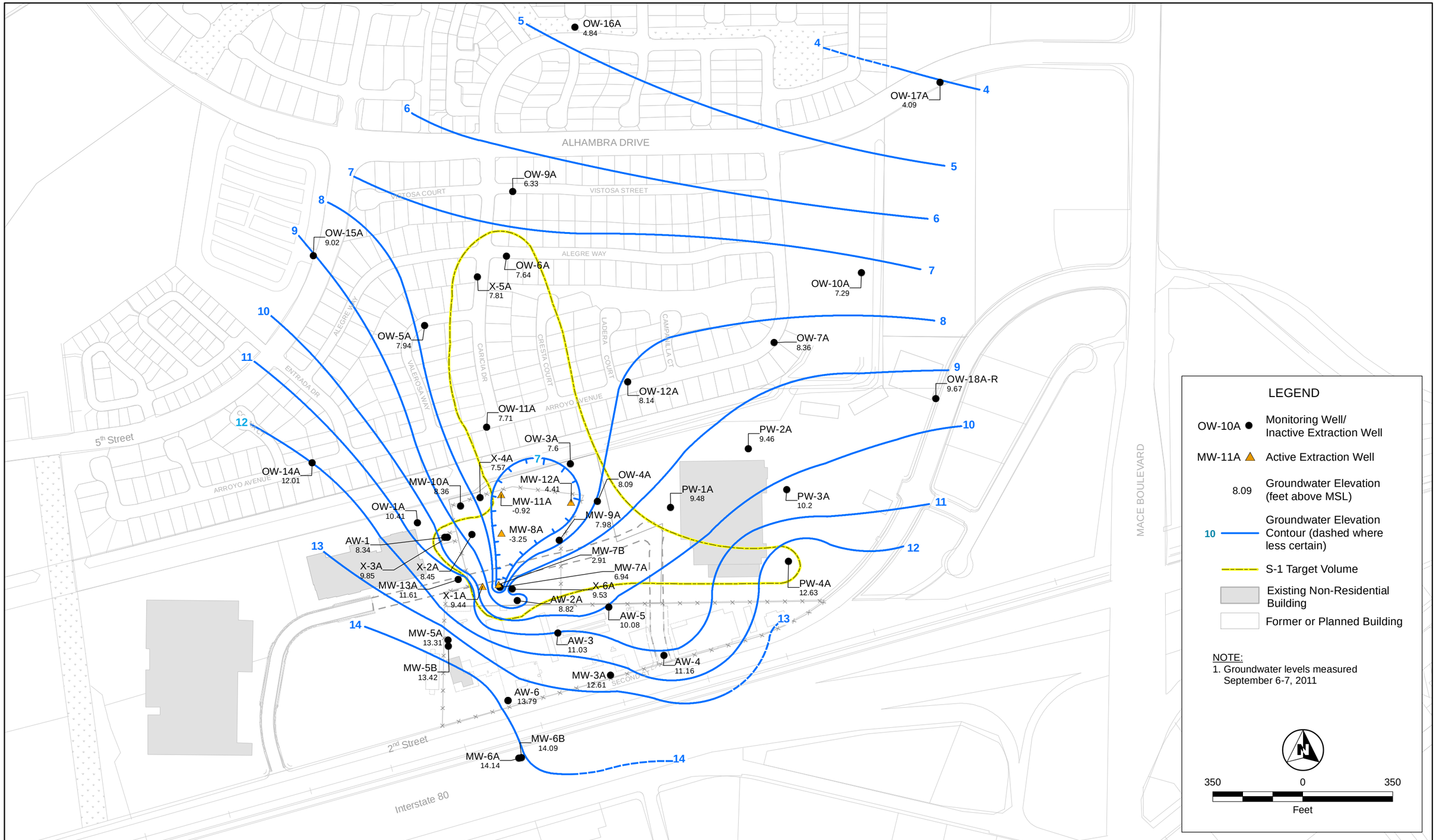
3.4.2 S-2/A-1 Vertical Gradients

Potentiometric head levels measured in the A-1 aquifer zone vary depending upon the screened interval, typically with downward-trending gradients within the A-1 zone. This is most clearly

shown in nested A-1 wells (OW-15C/D, OW-19C/D, OW-6B/C, and X-5B/C). The potentiometric head levels measured in A-1 wells were much lower during the third quarter of 2011 than in the fourth quarter. Downward gradients between the S-2 and A-1 aquifer zones were measured across most of the study area during the third and fourth quarters of 2011, and the calculated gradients between these zones were similar to those measured during the same quarters of 2010. No upward gradients between the S-2 and A-1 aquifer zones were measured during third quarter of 2011. Two well pairs (OW 1B/C and X-1B/C) exhibited an upward gradient between the S-2 and A-1 aquifer zones during the fourth quarter 2011 event.

Vertical gradients calculated between the S-2 and A-1 aquifer zones outside the apparent zone of influence of the extraction wells during the third and fourth quarters of 2011 ranged from -0.125 to -0.371, and from -0.006 to -0.087, respectively. Vertical gradients between the S-2 and A-1 aquifer zones in the apparent influence area of the extraction well field ranged from -0.54 to -0.09 during the third quarter of 2011, and from -0.197 to 0.03 during the fourth quarter. The regional downward gradients are consistent with the downward flow induced by irrigation pumping, predominant during the third quarter, while the local upward gradient is the result of extraction well field operations.

Gradients between the S-2 and A-1 aquifer zones vary more seasonally than those observed between the S-1 and S-2 aquifer zones. Gradients are more downward during the summer and less downward during the winter, when upward gradients dominate in the apparent influence area of the extraction well field.

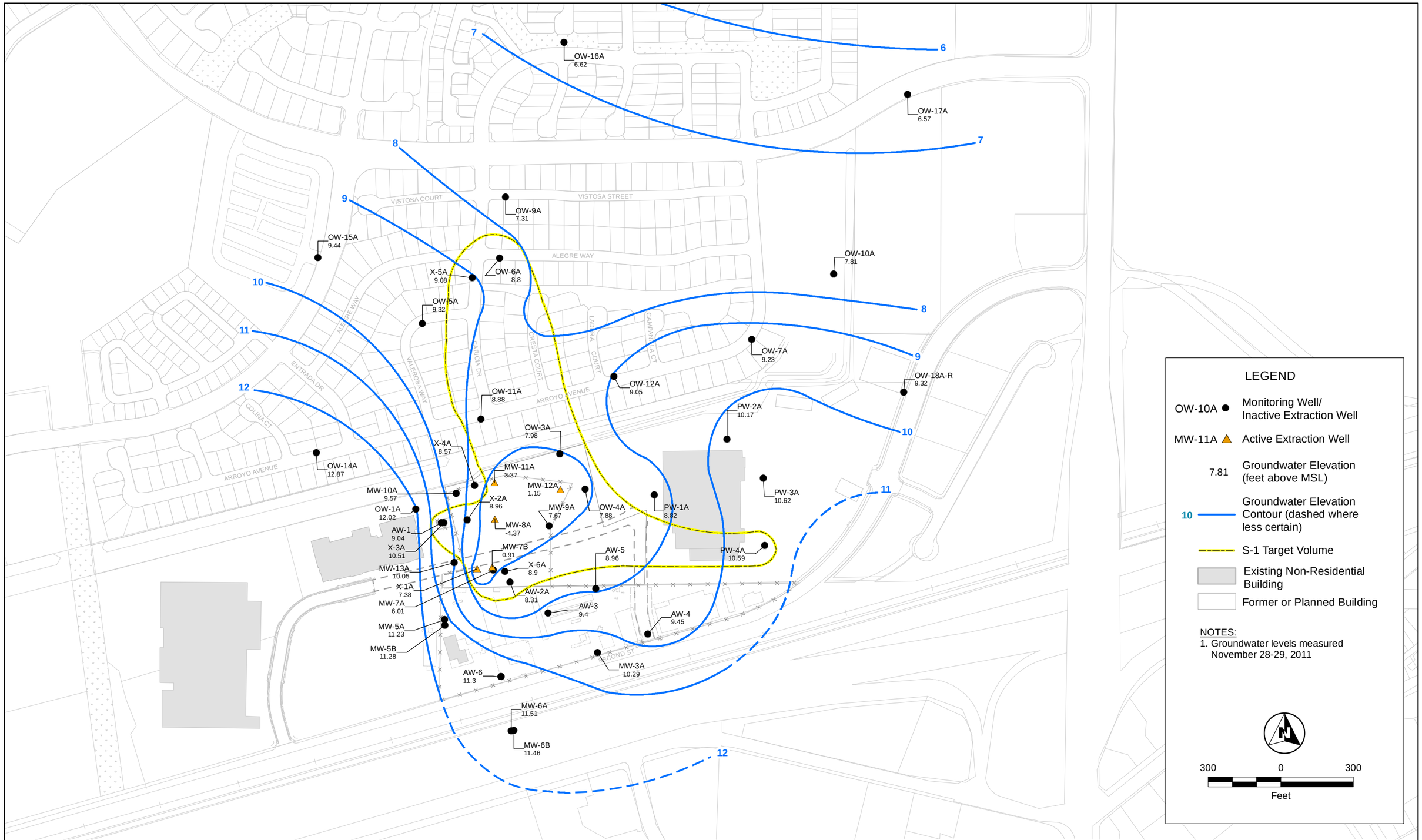


ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 3-1a
Groundwater Level Measurements and Elevation Contours in Zone S-1 During Third Quarter 2011

Path: G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\working_map_docs\FF_GW_Cont_3Q11_S1.mxd

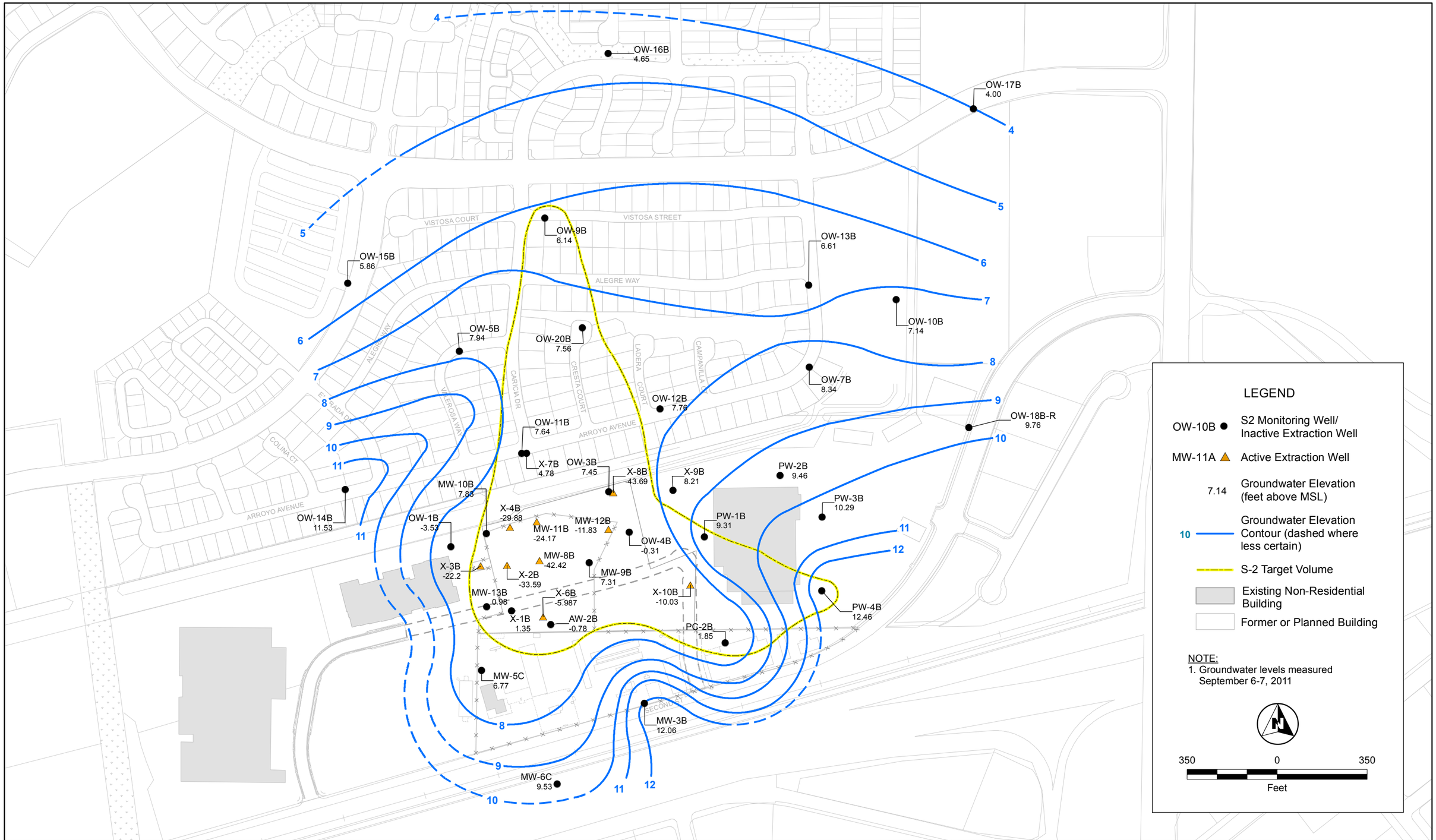


ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 3-1b
Groundwater Level Measurements and Elevation Contours in Zone S-1 During Fourth Quarter 2011

Path: G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\working_map_docs\FF_GW_Cont_4Q11_S1.mxd

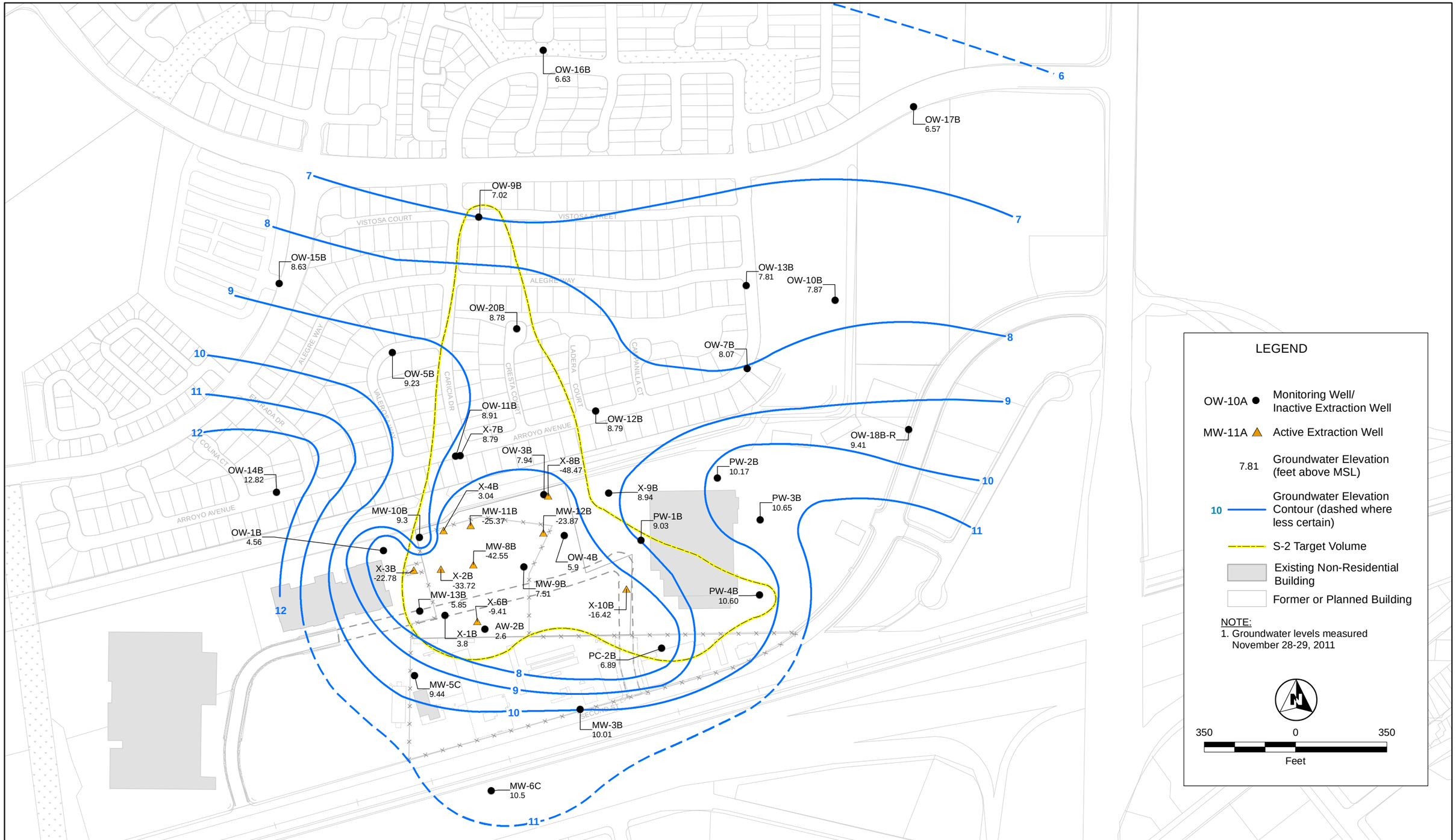


ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 3-2a
Groundwater Level Measurements and Elevation Contours in Zone S-2 During Third Quarter 2011

Path: G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\working_map_docs\FF_GW_Cont_3Q11_S2.mxd

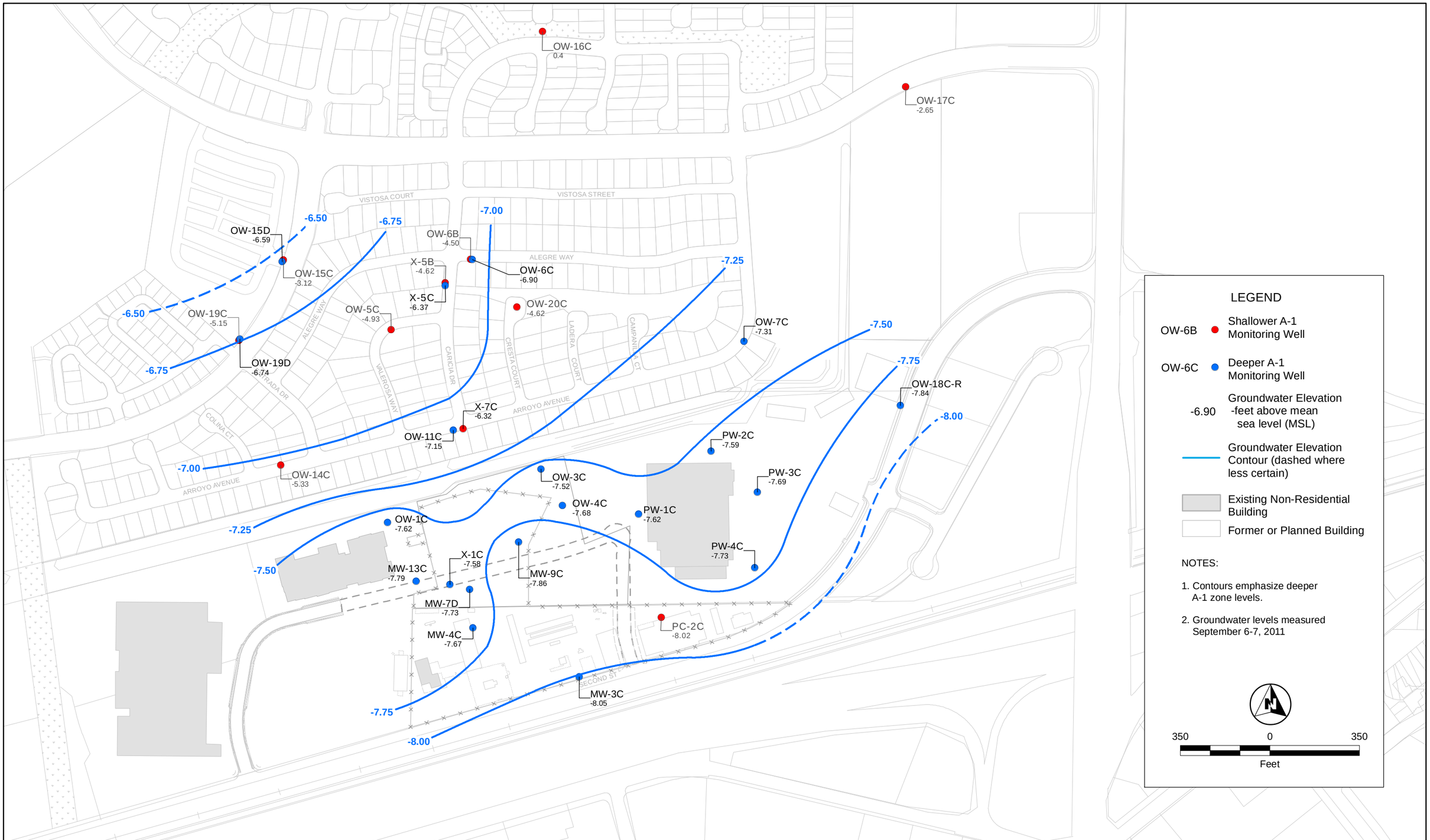


ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 3-2b
Groundwater Level Measurements and Elevation Contours in Zone S-2 During Fourth Quarter 2011

Path: G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\working_map_docs\FF_GW_Cont_4Q11_S2.mxd

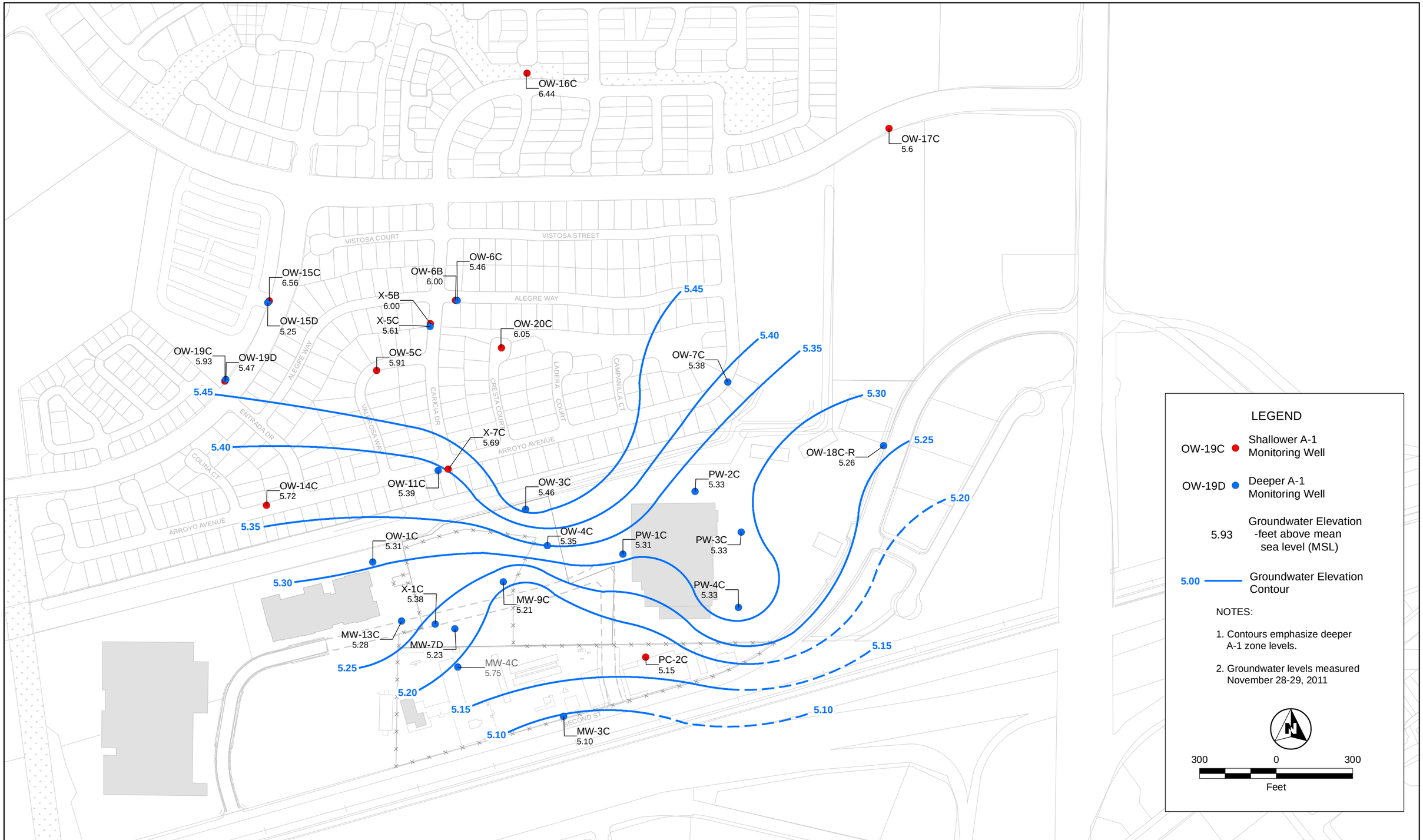


ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 3-3a
Groundwater Level Measurements and Elevation Contours in Zone A-1 During Third Quarter 2011

G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\working_map_docs\FF_GW_Cont_3Q11_A1.mxd 1/18/2013 LCARR, ITSI



ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 3-3b
Groundwater Level Measurements and Elevation Contours in Zone A-1 During Fourth Quarter 2011

Path: G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\working_map_docs\FF_GW_Cont_4Q11_A1.mxd

SECTION 4
4 Groundwater Quality Monitoring

Groundwater samples were collected according to the schedule outlined in Table 2-1. The sampling dates are listed below:

- third quarter 2011; 103 wells were sampled between September 7 and October 4, 2011; and,
- fourth quarter 2011; 76 wells were sampled between November 30 and December 16, 2011.

The following subsections describe the sample analytical results and distribution of the four primary VOCs: EDB, DBCP, DCP, and CCl_4. Also included is a summary of the wells in which other VOCs were detected above their respective primary MCLs. Files containing laboratory analytical reports can be found in Appendix F.

The following sampling issues were encountered during events covered in the report:

- During third quarter 2011, monitoring wells MW-5C, MW-6C, MW-13B, PC-2B, and X-1B had insufficient yields to maintain purging in accordance with sampling procedures. Monitoring well MW-4C was not sampled because the casing was collapsed at about 26 feet below ground surface.
- During fourth quarter 2011, monitoring wells MW-7A, MW-13B, PC-2B, and X-1B had insufficient yields to maintain purging in accordance with sampling procedures.

In wells with insufficient yields to maintain purging, purging was stopped after the water level had continuously dropped for over 30 minutes. Water samples from these wells were collected after the wells had recharged. Detailed sampling procedures are provided in Appendix D.

4.1 Groundwater Sampling Results

4.1.1 COC Sample Results

There are two primary classes of COCs related to the site: pesticides and fertilizers. Groundwater monitoring typically is focused on three pesticides–EDB, DCP, and DBCP–that were released at the site, and CCl_4, which may have been released at the site. These volatile organic chemicals are considered the primary COCs. All of the primary COCs are present in the site groundwater. Table 4-1 summarizes the detected concentrations of the primary COCs for each well and highlights the values that are above their respective California MCLs. Table 4-1 also presents detected concentrations of TCP, a non-primary COC.

The primary source from which pesticides and fertilizers were released to the environment is the former disposal basin (see Figure 1-1). Typically, the wells with the highest detected pesticide and fertilizer concentrations are screened in the S-1 and S-2 zones and located just north and downgradient of the former disposal basin, including wells in clusters X-1, X-6, MW-7, and AW-2. Concentrations recently measured in these wells are near their lowest levels, although some locations have risen slightly in the fourth quarter. The decline in concentrations indicates a reduced mass of COCs in the S-1 and S-2 zone groundwater immediately

downgradient of the pesticide source zone. Optimization of extraction near the pesticide source zone, including adding extraction well X-6B screened in the S-2 zone and adding variable frequency drives to all extraction wells to optimize well production, have enhanced groundwatercollection capacity. To optimize source zone treatment, extraction rates from MW-7B, X-1A, and X-6B were reduced to minimize removal of heat. Monitoring results for wells in X-7 and nearby OW-11 nested wells screened in the S-2 and A-1 zones indicate that another area exists, approximately 600 feet from the source zone, with elevated pesticide concentrations. A general decline in pesticide concentrations in these and other wells downgradient of wells near the pesticide source zone also indicate a reduction in the mass of COCs in the S-2 zone groundwater. A similar decline in COC concentrations is anticipated in the A-1 zone, although it will lag behind those in the S-2 zone. The S-1 and S-2 zone groundwater in these wells, which passed through the source zone prior to initiating groundwater extraction system operation, appears to be influenced by the extraction system.

The distribution of detected CCl_4 indicates a potential historical source zone east of the former pesticide disposal basin, and an apparent plume migration toward the north-northwest. The differences in the distribution of detected pesticides and CCl_4 likely are attributable to separate source zones, subsurface heterogeneity, and changes in groundwater flow directions, which may be influenced by agricultural pumping and seasonal variations. Recent measurements of CCl_4 concentrations indicate a general decline in the CCl_4 mass present in the groundwater. The addition of extraction wells X-8B and X-10B, and VFDs to optimize extraction well operation appear to have enhanced the extraction system's capacity to collect the groundwater containing CCl_4.

4.1.2 Non-Primary VOCs

The following VOCs have been detected at concentrations exceeding their MCL at the site. Although they are not COCs, their presence must be noted and is discussed below:

- **1,2-Dichloroethane.** During the third quarter of 2011, 1,2-DCA concentrations exceeded the MCL of 0.5 µg/L in groundwater samples collected from four wells (two S-1 wells: MW-7A and MW-7B; and two S-2 wells, MW-8B and X-6B). The highest 1,2-DCA concentration during the third quarter (1.7 µg/L) was detected in the sample collected from monitoring well MW-8B. During the fourth quarter of 2011, 1,2-DCA was detected at a concentration exceeding the MCL in one S-1 well (MW-7B) and three S-2 wells (MW-8B, X-6B, and X-10B). The highest 1,2-dichoroethane concentration during the fourth quarter (2.9 J µg/L) was detected in the sample collected from monitoring well MW-8B. All locations with concentrations of 1,2-DCA exceeding the MCL of 0.5 µg/L are extraction or monitoring wells within the extraction well field zone of influence.

- **Trichloropropane** TCP was detected at concentrations above the California Office of Environmental Health Hazard Assessment public health goal of 0.0007 µg/L during the third and fourth quarters of 2011. TCP detections are shown in Table 4-1. The presence of TCP between the public health goal of 0.0007 µg/L and the SOM01.2 reporting limit of 0.5 µg/L cannot be confirmed at wells where collected samples were not analyzed by EPA Method 524.2 SIM.

4.2 Distribution of Volatile Organic Chemicals of Concern

Concentrations of the COCs detected in groundwater samples collected during the third and fourth quarter 2011 events generally are similar to those observed during recent events. In most wells, detected COC concentrations continue to decline or are in the lower end of their historical ranges. Concentrations of COCs detected in wells screened in the A-1 zone indicate that vertical migration of contaminated groundwater from the S-1 and S-2 zones has occurred. Where detected in the A-1 zone, COC concentrations were above their respective MCLs in groundwater samples collected from wells OW-3C, OW-11C, X-5B, and X-7C during the third and/or fourth quarters of 2011. Analytical results for several samples, predominantly near the source zone, indicate an increase in COC concentrations relative to recent monitoring results. When the groundwater levels rise into unsaturated source zone soil in the winter, the groundwater contacts COCs and transports them downgradient. Seasonal variations in COC concentrations in wells farther north of the source zone appear to occur as a result of groundwater extraction pulling contaminated groundwater south toward the extraction well field. It is anticipated that an overall declining trend in COC concentrations will continue with the implementation of groundwater extraction and pesticide source zone treatment.

Measured groundwater elevations and respective gradients and velocities indicate that the extraction system has reversed the natural horizontal flow direction in the S-1 and S-2 zones north of wells OW-11 and X-7. However, the *Capture Zone Analysis* (CH2M HILL, 2011) indicated that total target volume capture in the S-1 and S-2 aquifer zones has not been achieved, irrespective of seasonal variation. Capture will be reassessed following the in situ thermal treatment (winter 2012). There is target volume capture north of wells OW-11 and X-7, which may result in higher COC concentrations being detected in these wells as contaminated water is pulled south by the extraction system. Also, the potential for vertical migration of contaminated groundwater to the A-1 zone in this area appears to be more prevalent than in the area closer to the source zone. Gradients measured in the A-1 zone were small, but the potential exists for A-1 zone groundwater to flow in a southerly direction toward the source zone. The third and fourth quarter 2011 COC-specific summaries are presented below, followed by subsections with COC results specific to the three monitored hydrogeologic zones.

Historical trends in detected COC concentrations, measured groundwater gradients, and estimated groundwater velocities indicate that most contaminated S-1 and S-2 aquifer groundwater will be collected by the extraction system. Historical trends for the primary COC concentrations detected in all monitored wells are evident in the chemical time-series plots (included as Figures B-1 to B-4 in Appendix B), which present the recent 5-year monitoring history. Table C-1 in Appendix C provides a comprehensive history of primary COC monitoring results. However, interpretation of these trends is complicated by variations in concentrations caused by the following factors:

- Variations in seasonal recharge (for example, drought or wet years).
- Complex hydrogeologic interaction between the three water-bearing zones (S-1, S-2, and A-1).
- Changes in the treatment system (for example, pumping rates, extraction well pump level set points, distribution of treated water to the currently inactive injection wells).

4.2.1 EDB, DCP, DBCP, and CCl4 in the S-1 Zone

Figures 4-1, 4-4, 4-7, and 4-10 show the distribution of COC concentrations in the S-1 zone during the third and fourth quarters of 2011. Analyses of samples collected from wells screened in the S-1 zone indicate that groundwater containing COCs has not spread to locations where COCs were not detected previously. Samples from wells where COCs have been detected historically indicate that groundwater concentrations are declining or near the lowest detected levels. A variance in the COC concentration trend was observed in the fourth quarter sample collected from monitoring well AW-2A, which contained the highest levels measured since 2005.

4.2.2 EDB, DCP, DBCP, and CCl4 in the S-2 Zone

Figures 4-2, 4-5, 4-8, and 4-11 show the distribution of COC concentrations in the S-2 zone during the first and second quarters of 2011. Analyses of samples collected from wells screened in the S-2 zone indicate that groundwater containing COCs has not spread to locations where COCs were not detected previously. Samples from wells where COCs have been detected historically indicate that groundwater concentrations are declining. Elevated COC concentrations in monitoring wells OW-11B, OW-20B, and X-7B, although in the low end of the historical range, are expected to continue as contaminated groundwater is pulled south toward the extraction wells.

4.2.3 EDB, DCP, DBCP, and CCl4 in the A-1 Aquifer

Figures 4-3, 4-6, 4-9, and 4-12 show the distribution of COC concentrations in the A-1 zone during the first and second quarters of 2011. Overall, the VOCs detected in A-1 wells generally appear to be on a downward trend or appear to be relatively stable. Future monitoring will confirm changes with time. (Samples could not be collected from MW-4C, one of the three wells that facilitated monitoring the A-1 zone near the source zone, as this well apparently was damaged during source zone treatment.)

4.2.4 City Well 29

The City of Davis well 29 is to be decommissioned by the city of Davis. It was not sampled during the third and fourth quarters of 2011.

Table 4-1
Summary of Primary COCs Detected in Monitoring and Extraction Wells
3rd and 4th Quarter 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Well ID	Aquifer Zone	Type of Well	Sample Date	VOC Method	Analyte	MCL	Result (ug/L)	Flag	Dilution
AW-1	S-1	Monitoring Well	9/9/2011	E524.2S	1,2,3-Trichloropropane		0.0053		1
AW-2A	S-1	Monitoring Well	9/9/2011	E524.2S	1,2,3-Trichloropropane		0.0092		1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	0.0031	J	1
			12/9/2011	CVOL	1,2-Dichloropropane	5	1.8		1
				E524.2S	1,2,3-Trichloropropane		0.47	J	1
				E524.2S	1,2-Dibromo-3-chloropropane	0.2	0.13	J	1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	**0.24**	J	1
AW-2B	S-2	Monitoring Well	9/9/2011	CVOL	1,2-Dichloropropane	5	**8**		1
				E524.2S	1,2,3-Trichloropropane		0.73		1
				E524.2S	1,2-Dibromo-3-chloropropane	0.2	**0.69**		1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	**0.083**		1
			12/8/2011	CVOL	1,2-Dichloropropane	5	**15**		1
				E524.2S	1,2,3-Trichloropropane		0.81		1
				E524.2S	1,2-Dibromo-3-chloropropane	0.2	0.093		1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	**0.091**		1
MW-3B	S-2	Monitoring Well	9/7/2011	E524.2S	1,2,3-Trichloropropane		0.0025	J	1
MW-5C	S-2	Monitoring Well	9/23/2011	E524.2S	1,2-Dibromoethane (EDB)	0.05	0.0092		1
MW-7A	S-1	Monitoring Well	9/8/2011	CVOL	1,2-Dichloroethane	0.5	**0.95**		1
				CVOL	1,2-Dichloropropane	5	**290**		40
				CVOL	1,3-Dichloropropane		1.8		1
				CVOL	Chlorobenzene		0.26	J	1
				CVOL	tert-Butyl Methyl Ether (MTBE)	13	0.42	J	1
			12/9/2011	CVOL	1,2-Dichloropropane	5	**500**		100
				CVOL	1,3-Dichloropropane		1.4		1
				CVOL	tert-Butyl Methyl Ether (MTBE)	13	0.62		1
MW-7B	S-1	Extraction Well	9/8/2011	CVOL	1,2,3-Trichloropropane		**19**		1
				CVOL	1,2-Dichloroethane	0.5	**0.69**		1
				CVOL	1,2-Dichloropropane	5	**150**		16
				CVOL	1,3-Dichloropropane		0.8		1
MW-7B (Duplicate)				CVOL	1,2,3-Trichloropropane		19		1
				CVOL	1,2-Dichloroethane	0.5	**0.64**		1
				CVOL	1,2-Dichloropropane	5	**160**		16
				CVOL	1,3-Dichloropropane		0.88		1
				CVOL	2,3-Dichloropropene		3.6		1
MW-7B			12/8/2011	CVOL	1,2,3-Trichloropropane		20		1
				CVOL	1,2-Dichloroethane	0.5	**0.98**		1
				CVOL	1,2-Dichloropropane	5	**250**		50
MW-7B (Duplicate)				CVOL	1,2,3-Trichloropropane		16		1

Table 4-1
Summary of Primary COCs Detected in Monitoring and Extraction Wells
3rd and 4th Quarter 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Well ID	Aquifer Zone	Type of Well	Sample Date	VOC Method	Analyte	MCL	Result (ug/L)	Flag	Dilution
				CVOL	1,2-Dichloroethane	0.5	**1**		1
				CVOL	1,2-Dichloropropane	5	**260**		25
				CVOL	1,3-Dichloropropane		0.85	J	1
				CVOL	Chlorobenzene		0.2	J	1
				CVOL	VINYL BROMIDE		0.26	J	1
MW-7D	A-1	Monitoring Well	9/8/2011	CVOL	1,2-Dichloropropane	5	1.1		1
				E524.2S	1,2,3-Trichloropropane		0.0038	J	1
			12/8/2011	CVOL	1,2-Dichloropropane	5	2.3		1
MW-8A	S-1	Extraction Well	9/9/2011	CVOL	1,2,3-Trichloropropane		0.34	J	1
				CVOL	1,2-Dibromoethane (EDB)	0.05	**0.39**	J	1
				CVOL	1,2-Dichloropropane	5	**5.2**		1
			12/6/2011	CVOL	1,2,3-Trichloropropane		0.58		1
				CVOL	1,2-Dibromoethane (EDB)	0.05	**0.47**	J	1
				CVOL	1,2-Dichloropropane	5	**7.9**		1
MW-8B	S-2	Extraction Well	9/9/2011	CVOL	1,1,2-Trichloroethane		0.28	J	1
				CVOL	1,1-Dichloroethane		0.44	J	1
				CVOL	1,2,3-Trichloropropane		17	J	40
				CVOL	1,2-Dibromoethane (EDB)	0.05	**14**		1
				CVOL	1,2-Dichloroethane	0.5	**1.7**		1
				CVOL	1,2-Dichloropropane	5	**530**		40
				CVOL	1,3-Dichloropropane		1.8		1
				CVOL	Chloroform		0.26	J	1
MW-8B (Duplicate)				CVOL	1,1,2-Trichloroethane		0.29	J	1
				CVOL	1,1-Dichloroethane		0.43	J	1
				CVOL	1,2,3-Trichloropropane		13	J	13
				CVOL	1,2-Dibromoethane (EDB)	0.05	**14**		1
				CVOL	1,2-Dichloroethane	0.5	**1.7**		1
				CVOL	1,2-Dichloropropane	5	**420**		40
				CVOL	1,3-Dichloropropane		1.8		1
				CVOL	Chloroform		2.28	J	1
MW-8B			12/6/2011	CVOL	1,1-Dichloroethane		0.75	J	1
				CVOL	1,2-Dichloroethane	0.5	**2.9**	J	1
				CVOL	1,2-Dichloropropane	5	**1400**	J	250
				CVOL	1,3-Dichloropropane		2.3	J	1
				CVOL	Chloroform		0.44	J	1
				CVOL	Methylcyclohexane		4.5	J	1
				CVOL	N-PROPYL CHLORIDE		14	J	1

Table 4-1
Summary of Primary COCs Detected in Monitoring and Extraction Wells
3rd and 4th Quarter 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Well ID	Aquifer Zone	Type of Well	Sample Date	VOC Method	Analyte	MCL	Result (ug/L)	Flag	Dilution
				CVOL	VINYL BROMIDE		2.1	J	1
MW-9B	A-1	Monitoring Well	9/15/2011	E524.2S	1,2,3-Trichloropropane		0.009		1
MW-9C	A-1	Monitoring Well	9/15/2011	CVOL	1,2-Dichloropropane	5	0.98	J	1
				E524.2S	1,2,3-Trichloropropane		0.0047	J	1
MW-11A	S-1	Extraction Well	9/15/2011	E524.2S	1,2,3-Trichloropropane		0.055		1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	**0.14**		1
MW-11A (Duplicate)				E524.2S	1,2,3-Trichloropropane		0.053		1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	**0.13**		1
MW-11A			12/6/2011	E524.2S	1,2,3-Trichloropropane		0.037		1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	**0.15**		1
MW-11B	S-2	Extraction Well	9/15/2011	CVOL	1,2,3-Trichloropropane		0.58		1
					1,2-Dibromoethane (EDB)	0.5	**0.63**		1
					1,2-Dichloropropane	5	**11**		1
			12/6/2011	CVOL	1,2,3-Trichloropropane		0.74		1
				CVOL	1,2-Dibromoethane (EDB)	0.05	**1.1**		1
				CVOL	1,2-Dichloropropane	5	**20**		1
MW-11B (Duplicate)				CVOL	1,2,3-Trichloropropane		1		1
				CVOL	1,2-Dibromoethane (EDB)	0.05	**1**		1
				CVOL	1,2-Dichloropropane	5	**20**		1
MW-12A	S-1	Extraction Well	9/26/2011	CVOL	Carbon Tetrachloride	0.5	**0.71**		1
				CVOL	Chloroform		0.31	J	1
				E524.2S	1,2,3-Trichloropropane		0.032		1
			12/9/2011	CVOL	Chloroform		0.75		1
				E524.2S	1,2,3-Trichloropropane		0.037		1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	0.0032	J	1
MW-12B	S-2	Extraction Well	9/26/2011	CVOL	1,2-Dichloropropane	5	0.34	J	1
				CVOL	Carbon Tetrachloride	0.5	**3.4**		1
				E524.2S	1,2,3-Trichloropropane		0.1		1
MW-12B (Duplicate)				CVOL	1,2-Dichloropropane	5	0.35	J	1
				CVOL	Carbon Tetrachloride	0.5	**3**		1
				E524.2S	1,2,3-Trichloropropane		0.099		1
MW-12B			12/9/2011	CVOL	Carbon Tetrachloride	0.5	**12**	J	1
				CVOL	Chloroform		0.82	J	1
				E524.2S	1,2,3-Trichloropropane		0.099	J	1
MW-13B	S-2	Monitoring Well	9/20/2011	CVOL	1,2-Dichloropropane	5	2.3		1
			12/8/2011	CVOL	1,2-Dichloropropane	5	4.4		1
				CVOL	Toluene		0.22	J	1

Table 4-1
Summary of Primary COCs Detected in Monitoring and Extraction Wells
3rd and 4th Quarter 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Well ID	Aquifer Zone	Type of Well	Sample Date	VOC Method	Analyte	MCL	Result (ug/L)	Flag	Dilution
MW-13B (Duplicate)				CVOL	1,2-Dichloropropane	5	4.5		1
				CVOL	1,3-Dichloropropane		0.33	J	1
MW-13C	A-1	Monitoring Well	12/5/2011	CVOL	1,2-Dichloropropane	5	0.36	J	1
OW-1C	A-1	Monitoring Well	9/19/2011	CVOL	1,2-Dichloropropane	5	0.89	J	1
				E524.2S	1,2,3-Trichloropropane		0.0053		1
			12/5/2011	CVOL	1,2-Dichloropropane	5	3.4		1
				E524.2S	1,2,3-Trichloropropane		0.011		1
OW-3A	S-1	Monitoring Well	9/23/2011	CVOL	Carbon Tetrachloride	0.5	**0.54**	J	1
				CVOL	Chloroform		0.31	J	1
				E524.2S	1,2,3-Trichloropropane		0.011		1
			12/15/2011	CVOL	Carbon Tetrachloride	0.5	**1.1**		1
				CVOL	Chloroform		0.6		1
				E524.2S	1,2,3-Trichloropropane		0.018		1
OW-3B	S-2	Monitoring Well	9/23/2011	CVOL	1,2-Dichloropropane	5	0.31	J	1
				CVOL	Carbon Tetrachloride	0.5	**8.6**	J	1
				CVOL	Chloroform		1.3		1
				E524.2S	1,2,3-Trichloropropane		0.18		1
			12/15/2011	CVOL	Carbon Tetrachloride	0.5	**6.3**		1
				CVOL	Chloroform		1.7		1
				E524.2S	1,2,3-Trichloropropane		0.17		1
OW-3C	A-1	Monitoring Well	9/23/2011	CVOL	Carbon Tetrachloride	0.5	**0.59**	J	1
				E524.2S	1,2,3-Trichloropropane		0.0057	J	1
			12/15/2011	CVOL	Carbon Tetrachloride	0.5	0.48	J	1
				E524.2S	1,2,3-Trichloropropane		0.0042	J	1
OW-4A	S-1	Monitoring Well	9/22/2011	CVOL	Carbon Tetrachloride	0.5	**0.88**	J	1
				CVOL	Chloroform		0.61		1
				E524.2S	1,2,3-Trichloropropane		0.022		1
			12/13/2011	CVOL	Carbon Tetrachloride	0.5	**1.2**		1
				CVOL	Chloroform		0.81		1
				E524.2S	1,2,3-Trichloropropane		0.019		1
OW-4B	S-2	Monitoring Well	9/22/2011	CVOL	1,2-Dichloropropane	5	0.35	J	1
				CVOL	Carbon Tetrachloride	0.5	**4.4**	J	1
				CVOL	Chloroform		0.37	J	1
				E524.2S	1,2,3-Trichloropropane		0.21	J	1
			12/13/2011	CVOL	Carbon Tetrachloride	0.5	**4.6**		1
				CVOL	Chloroform		0.46	J	1
				E524.2S	1,2,3-Trichloropropane		0.2		1

Table 4-1
Summary of Primary COCs Detected in Monitoring and Extraction Wells
3rd and 4th Quarter 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Well ID	Aquifer Zone	Type of Well	Sample Date	VOC Method	Analyte	MCL	Result (ug/L)	Flag	Dilution
OW-4C	A-1	Monitoring Well	9/22/2011	E524.2S	1,2,3-Trichloropropane		0.0042	J	1
			12/13/2011	E524.2S	1,2,3-Trichloropropane		0.0043	J	1
OW-5C	A-1	Monitoring Well	12/13/2011	E524.2S	1,2-Dibromo-3-chloropropane	0.2	0.0062	J	1
OW-7B	S-2	Monitoring Well	12/7/2011	E524.2S	1,2,3-Trichloropropane		0.0036	J	1
OW-9B	S-2	Monitoring Well	12/14/2011	CVOL	Carbon Tetrachloride	0.5	0.29	J	1
OW-11A	S-1	Monitoring Well	12/6/2011	E524.2S	1,2,3-Trichloropropane		0.014		1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	0.026		1
OW-11B	S-2	Monitoring Well	9/26/2011	CVOL	1,2,3-Trichloropropane		0.73		1
				CVOL	1,2-Dibromoethane (EDB)	0.05	**1.2**		1
				CVOL	1,2-Dichloropropane	5	**11**		1
			12/6/2011	CVOL	1,2,3-Trichloropropane		1.3		1
				CVOL	1,2-Dibromoethane (EDB)	0.05	**1.9**		1
				CVOL	1,2-Dichloropropane	5	**19**		1
OW-11C	A-1	Monitoring Well	9/26/2011	CVOL	1,2,3-Trichloropropane		1		1
				CVOL	1,2-Dibromoethane (EDB)	0.05	**0.84**		1
				CVOL	1,2-Dichloropropane	5	**17**		1
			12/6/2011	CVOL	1,2,3-Trichloropropane		1.1		1
				CVOL	1,2-Dibromoethane (EDB)	0.05	**1.3**		1
				CVOL	1,2-Dichloropropane	5	**33**		5
				CVOL	Vinyl Bromide		0.3	J	1
OW-12A	S-1	Monitoring Well	12/15/2011	E524.2S	1,2-Dibromo-3-chloropropane	0.2	0.0089	J	1
OW-14C	A-1	Monitoring Well	10/3/2011	E524.2S	1,2,3-Trichloropropane		0.0028	J	1
			12/14/2011	E524.2S	1,2,3-Trichloropropane		0.0047	J	1
OW-15D	A-1	Monitoring Well	12/12/2011	CVOL	Vinyl Bromide		0.22	J	1
OW-20B	S-2	Monitoring Well	9/28/2011	CVOL	Carbon Tetrachloride	0.5	**3.6**		1
				CVOL	Chloroform		0.89		1
				E524.2S	1,2,3-Trichloropropane		0.024		1
			12/14/2011	CVOL	Carbon Tetrachloride	0.5	**4.6**	J	1
				CVOL	Chloroform		1.5		1
				E524.2S	1,2,3-Trichloropropane		0.026		1
PC-2B	S-2	Piezometer	9/15/2011	CVOL	1,2-Dichloropropane	5	0.22	J	1
				CVOL	Carbon Tetrachloride	0.5	**2.5**		1
				E524.2S	1,2,3-Trichloropropane		0.0078		1
			12/7/2011	CVOL	1,2-Dichloropropane	5	0.4	J	1
				CVOL	Carbon Tetrachloride	0.5	**3.6**		1
				CVOL	Chloroform		0.22	J	1
				E524.2S	1,2,3-Trichloropropane		0.0082		1

Table 4-1
Summary of Primary COCs Detected in Monitoring and Extraction Wells
3rd and 4th Quarter 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Well ID	Aquifer Zone	Type of Well	Sample Date	VOC Method	Analyte	MCL	Result (ug/L)	Flag	Dilution
PW-1B	S-2	Monitoring Well	11/30/2011	CVOL	1,2-Dichloropropane	5	0.32	J	1
				E524.2S	1,2,3-Trichloropropane		0.0095		1
PW-1B (Duplicate)				E524.2S	1,2,3-Trichloropropane		0.0096		1
PW-2A	S-1	Monitoring Well	11/30/2011	CVOL	1,2,3-Trichlorobenzene		0.45	J	1
				CVOL	1,2,4-Trichlorobenzene		0.34	J	1
PW-4A	S-1	Monitoring Well	9/14/2011	E524.2S	1,2,3-Trichloropropane		0.0092		1
			12/2/2011	E524.2S	1,2,3-Trichloropropane		0.01		1
SB01			9/7/2011	CVOL	1,2-Dichloropropane	5	0.27	J	1
				CVOL	Acetone		4.2	J	1
				CVOL	Chloroform		0.21	J	1
SB02			10/4/2011	CVOL	Acetone		11		1
				CVOL	Chloroform		0.38	J	1
SB01	NA	Source Blank	9/7/2011	CVOL	1,2-Dichloropropane	5	0.27	J	1
				CVOL	Acetone		4.2		1
				CVOL	Chloroform		0.21	J	1
SB02	NA	Source Blank	10/3/2011	CVOL	Acetone		11		1
				CVOL	Chloroform		0.38	J	1
X-1A	S-1	Extraction Well	9/8/2011	CVOL	1,2-Dichloropropane	5	3		1
X-1A (Duplicate)			9/8/2011	CVOL	1,2-Dichloropropane	5	2.9		1
X-1A			12/8/2011	CVOL	1,2-Dichloropropane	5	**5.2**	J	1
X-1B	S-2	Extraction Well	9/9/2011	CVOL	1,2,3-Trichloropropane		5.1		1
				CVOL	1,2-Dichloropropane	5	**71**		10
			12/9/2011	CVOL	1,2,3-Trichloropropane		7.1		1
				CVOL	1,2-Dichloropropane	5	**200**		25
X-1C	A-1	Extraction Well	9/8/2011	CVOL	1,2-Dichloropropane	5	0.7	J	1
				E524.2S	1,2,3-Trichloropropane		0.0046	J	1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	0.0096		1
			12/8/2011	CVOL	1,2-Dichloropropane	5	1		1
				E524.2S	1,2,3-Trichloropropane		0.0028	J	1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	0.0034	J	1
X-2A	S-1	Extraction Well	12/6/2011	E524.2S	1,2-Dibromo-3-chloropropane	0.2	0.0096	J	1
X-2B	S-2	Extraction Well	9/29/2011	CVOL	1,2-Dibromoethane (EDB)	0.05	**0.29**	J	1
				CVOL	1,2-Dichloropropane	5	**5.1**		1
X-2B (Duplicate)				CVOL	1,2-Dibromoethane (EDB)	0.05	**0.32**	J	1
				CVOL	1,2-Dichloropropane	5	**5.2**		1
X-2B			12/6/2011	CVOL	1,2-Dichloropropane	5	**9.1**		1
X-3B	S-2	Extraction Well	9/9/2011	E524.2S	1,2,3-Trichloropropane		0.0068		1

Table 4-1
Summary of Primary COCs Detected in Monitoring and Extraction Wells
3rd and 4th Quarter 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Well ID	Aquifer Zone	Type of Well	Sample Date	VOC Method	Analyte	MCL	Result (ug/L)	Flag	Dilution
				E524.2S	1,2-Dibromo-3-chloropropane	0.2	0.005	J	1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	**0.056**		1
			12/9/2011	E524.2S	1,2,3-Trichloropropane		0.0068	J	1
				E524.2S	1,2-Dibromo-3-chloropropane	0.2	0.046	J	1
X-4B	S-2	Extraction Well	9/27/2011	CVOL	1,2-Dichloropropane	5	**15**		1
				E524.2S	1,2,3-Trichloropropane		0.76		1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	**0.38**		1
			12/6/2011	CVOL	1,2-Dichloropropane	5	**6.7**		1
				E524.2S	1,2,3-Trichloropropane		0.33		1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	**0.18**		1
X-5A	S-1	Monitoring Well	9/27/2011	CVOL	Carbon Tetrachloride	0.5	**0.76**		1
				E524.2S	1,2,3-Trichloropropane		0.013		1
			12/12/2011	CVOL	Carbon Tetrachloride	0.5	**0.74**		1
				E524.2S	1,2,3-Trichloropropane		0.013		1
X-5B	A-1	Monitoring Well	9/27/2011	CVOL	Carbon Tetrachloride	0.5	**0.97**		1
				CVOL	Chloroform		0.21	J	1
				E524.2S	1,2,3-Trichloropropane		0.0071		1
			12/12/2011	CVOL	Carbon Tetrachloride	0.5	**0.64**		1
				E524.2S	1,2,3-Trichloropropane		0.0035	J	1
X-6A	S-1	Extraction Well	9/8/2011	CVOL	1,2-Dichloropropane	5	**8.7**		1
				E524.2S	1,2,3-Trichloropropane		2.6		1
				E524.2S	1,2-Dibromo-3-chloropropane	0.2	0.055		1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	0.29		1
			12/8/2011	CVOL	1,2-Dichloropropane	5	**15**		1
				E524.2S	1,2,3-Trichloropropane		3		1
				E524.2S	1,2-Dibromo-3-chloropropane	0.2	0.033		1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	**0.24**		1
X-6B	S-2	Extraction Well	9/8/2011	CVOL	1,2,3-Trichloropropane		14		1
				CVOL	1,2-Dibromoethane (EDB)	0.05	**15**		1
				CVOL	1,2-Dichloroethane	0.5	**1.3**		1
				CVOL	1,2-Dichloropropane	5	**210**		25
				CVOL	1,3-Dichloropropane		1.5		1
				CVOL	Benzene	1	0.44	J	1
				CVOL	Chlorobenzene		0.73		1
				CVOL	tert-Butyl Methyl Ether (MTBE)	13	0.71		1
			12/8/2011	CVOL	1,2,3-Trichloropropane		6		1
				CVOL	1,2-Dibromoethane (EDB)	0.05	**18**		1

Table 4-1
Summary of Primary COCs Detected in Monitoring and Extraction Wells
3rd and 4th Quarter 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Well ID	Aquifer Zone	Type of Well	Sample Date	VOC Method	Analyte	MCL	Result (ug/L)	Flag	Dilution
				CVOL	1,2-Dichloroethane	0.5	**0.93**		1
				CVOL	1,2-Dichloropropane	5	**300**		25
				CVOL	1,3-Dichloropropane		0.72		1
				CVOL	Benzene	1	0.25	J	1
				CVOL	Chlorobenzene		0.51		1
				CVOL	Isopropylbenzene (Cumene)		0.15	J	1
				CVOL	Methylcyclohexane		0.64		1
				CVOL	tert-Butyl Methyl Ether (MTBE)	13	3.2		1
				CVOL	Vinyl Bromide		0.64		1
X-7B	S-2	Monitoring Well	9/26/2011	CVOL	1,2,3-Trichloropropane		**6.1**		1
				CVOL	1,2-Dibromoethane (EDB)	0.05	**4.5**		1
				CVOL	1,2-Dichloropropane	5	**120**		10
X-7B (Duplicate)				CVOL	1,2,3-Trichloropropane		6.1		1
				CVOL	1,2-Dibromoethane (EDB)	0.05	**4.6**		1
				CVOL	1,2-Dichloropropane	5	**130**		10
X-7B			12/7/2011	CVOL	1,2,3-Trichloropropane		11		1
				CVOL	1,2-Dibromoethane (EDB)	0.05	**13**		1
				CVOL	1,2-Dichloropropane	5	**300**		50
				CVOL	Vinyl Bromide		0.56		1
X-7C	A-1	Monitoring Well	9/26/2011	CVOL	1,2,3-Trichloropropane		1.1		1
				CVOL	1,2-Dibromoethane (EDB)	0.05	**0.61**		1
				CVOL	1,2-Dichloropropane	5	**44**		4
				CVOL	Carbon Tetrachloride	0.5	**0.59**		1
			12/6/2011	CVOL	1,2,3-Trichloropropane		1.3		1
				CVOL	1,2-Dibromoethane (EDB)	0.05	**0.95**		1
				CVOL	1,2-Dichloropropane	5	**73**		10
				CVOL	Carbon Tetrachloride	0.5	**0.67**		1
X-7C (Duplicate)				CVOL	1,2,3-Trichloropropane		1.6		1
				CVOL	1,2-Dibromoethane (EDB)	0.05	**1**		1
				CVOL	1,2-Dichloropropane	5	**73**		10
				CVOL	Carbon Tetrachloride	0.5	**0.73**		1
X-8B	S-2	Extraction Well	9/23/2011	CVOL	1,2-Dichloropropane	5	0.25	J	1
				CVOL	Carbon Tetrachloride	0.5	**5.5**		1
				CVOL	Chloroform		0.61		1
				E524.2S	1,2,3-Trichloropropane		0.034		1
			12/16/2011	CVOL	Carbon Tetrachloride	0.5	**7.9**		1
				CVOL	Chloroform		0.92		1

Table 4-1

Summary of Primary COCs Detected in Monitoring and Extraction Wells

3rd and 4th Quarter 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Well ID	Aquifer Zone	Type of Well	Sample Date	VOC Method	Analyte	MCL	Result (ug/L)	Flag	Dilution
				CVOL	1,2,3-Trichloropropane		0.038		1
X-10B	S-2	Extraction Well	9/22/2011	CVOL	Carbon Tetrachloride	0.5	**0.97**		1
				E524.2S	1,2,3-Trichloropropane		0.029		1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	0.0041	J	1
X-10B (Duplicate)				CVOL	Carbon Tetrachloride	0.5	**1.2**		1
				E524.2S	1,2,3-Trichloropropane		0.029		1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	0.004	J	1
X-10B			12/14/2011	CVOL	1,2-Dichloroethane	0.5	**0.99**		1
				CVOL	Carbon Tetrachloride	0.5	**1.6**		1
				E524.2S	1,2,3-Trichloropropane		0.033		1
				E524.2S	1,2-Dibromoethane (EDB)	0.05	0.0046	J	1

Notes:

J = The reported result for this analyte should be considered an estimated value.

R = The reported result for this analyte was rejected.

MCL = Maximum contaminant level.

ug/L = micrograms per liter

S-1 = Aquifer Zone S-1

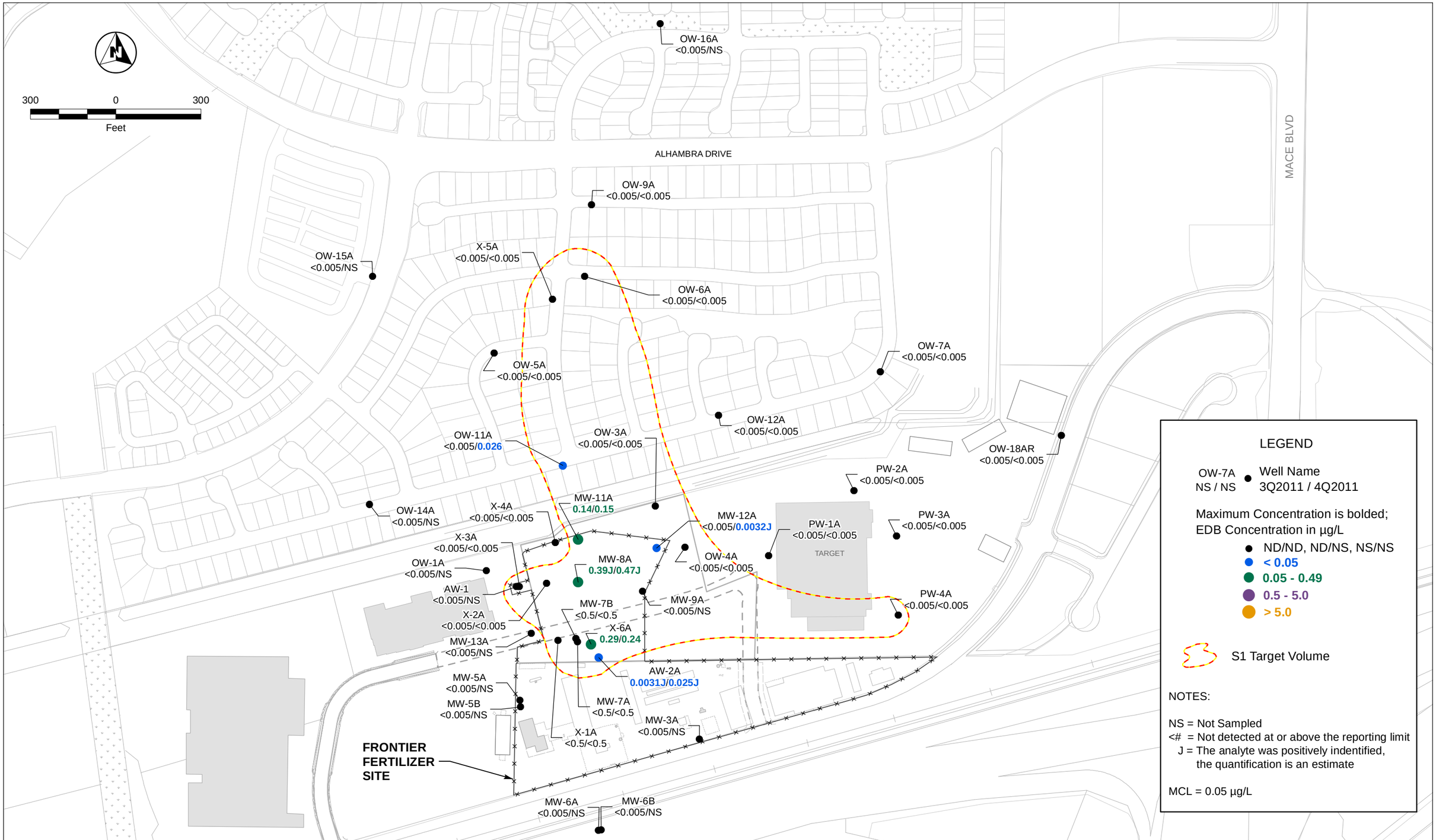
S-2 = Aquifer Zone S-2

A-1 = Aquifer Zone A-1

CVOL = Method TVOL (Trace Volatiles)

E524.2S = 524.2 SIM (Low level EDB/DBCP/TCP)

Bolded results exceed the MCL

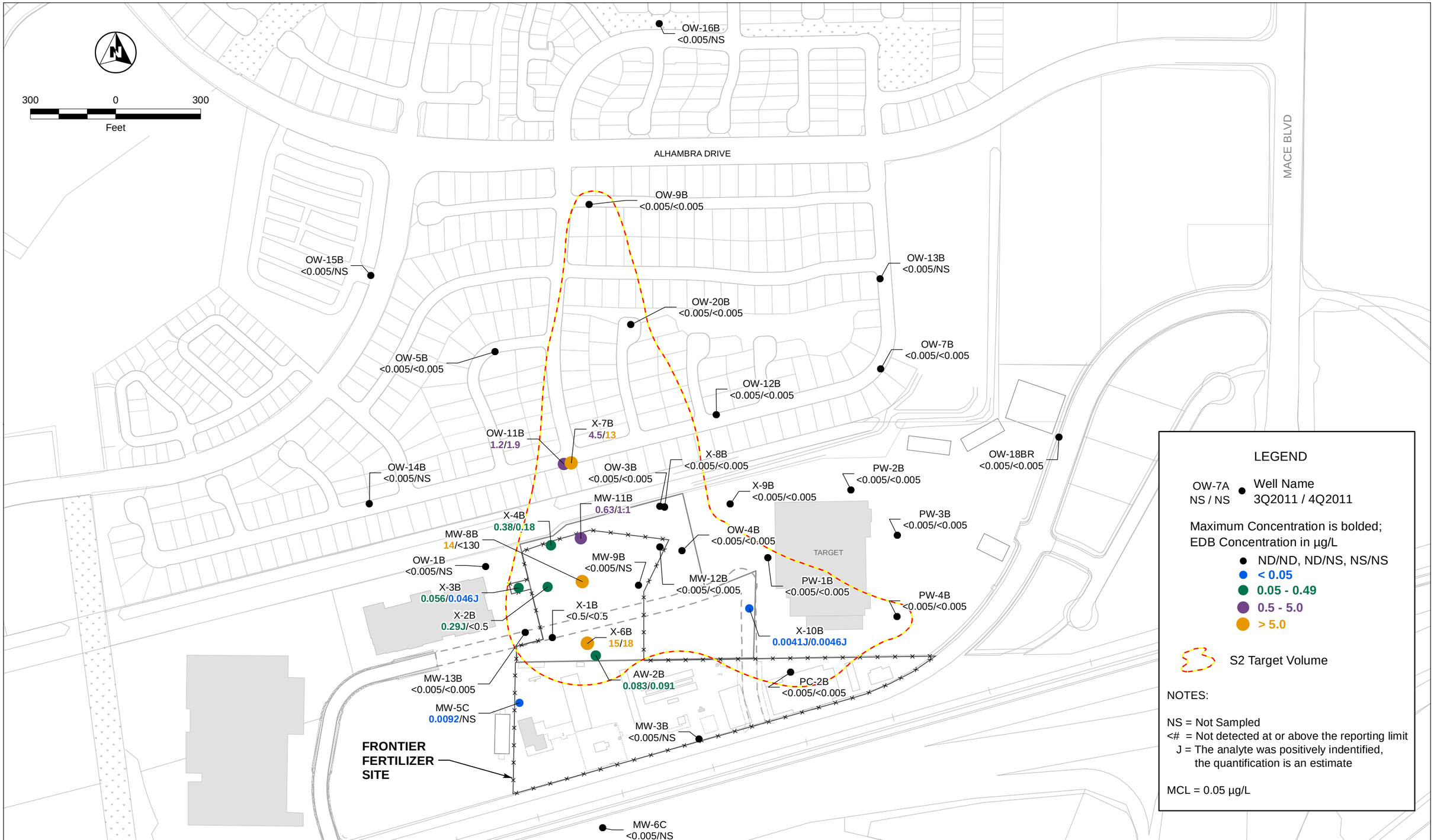


ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 4-1
EDB Concentrations (µg/L)
Detected in Zone S-1
During Third and Fourth Quarter 2011

G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\ChemResults\EDB_S1.mxd 1/20/2013 LCARR, ITSI

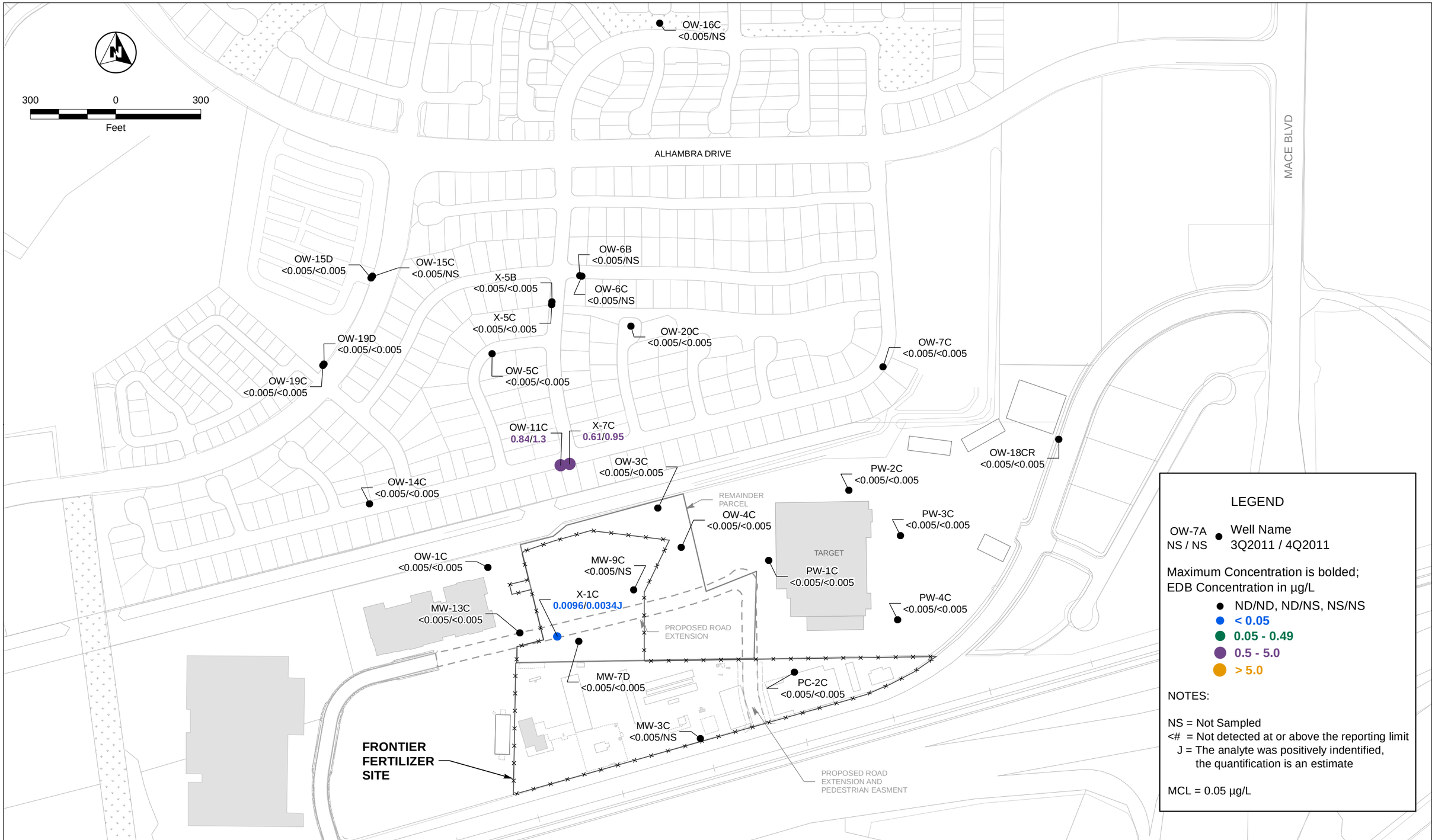


ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 4-2
EDB Concentrations (µg/L)
Detected in Zone S-2
During Third and Fourth Quarter 2011

G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\ChemResults\EDB_S2.mxd 1/20/2013 LCARR, ITSI

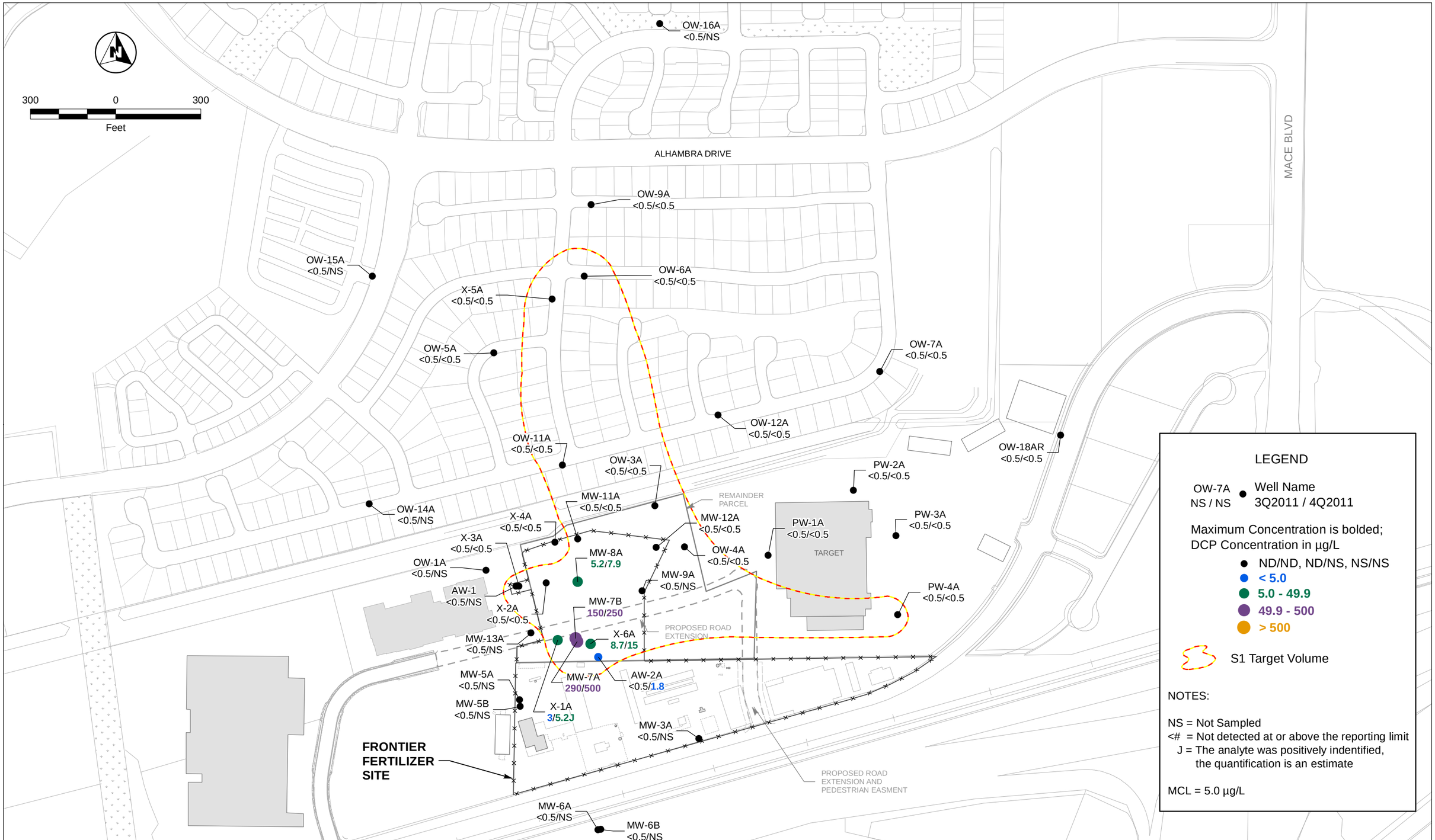


ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 4-3
EDB Concentrations (µg/L)
Detected in Zone A-1
During Third and Fourth Quarter 2011

G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\ChemResults\EDB_A1.mxd 1/20/2013 LCARR, ITSI

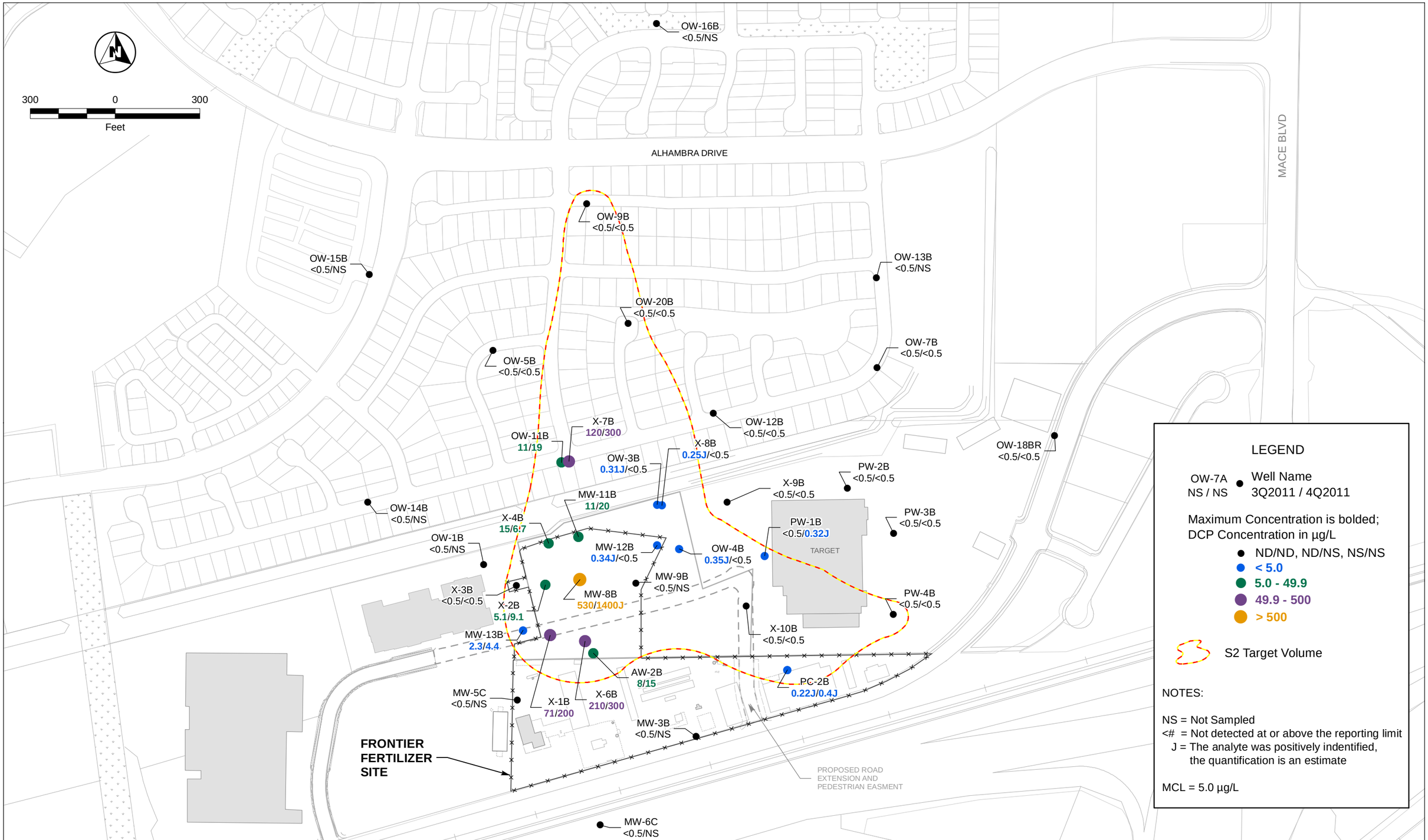


ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 4-4
DCP Concentrations (µg/L)
Detected in Zone S-1
During Third and Fourth Quarter 2011

G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\ChemResults\DCP_S1.mxd 1/20/2013 LCARR, ITSI

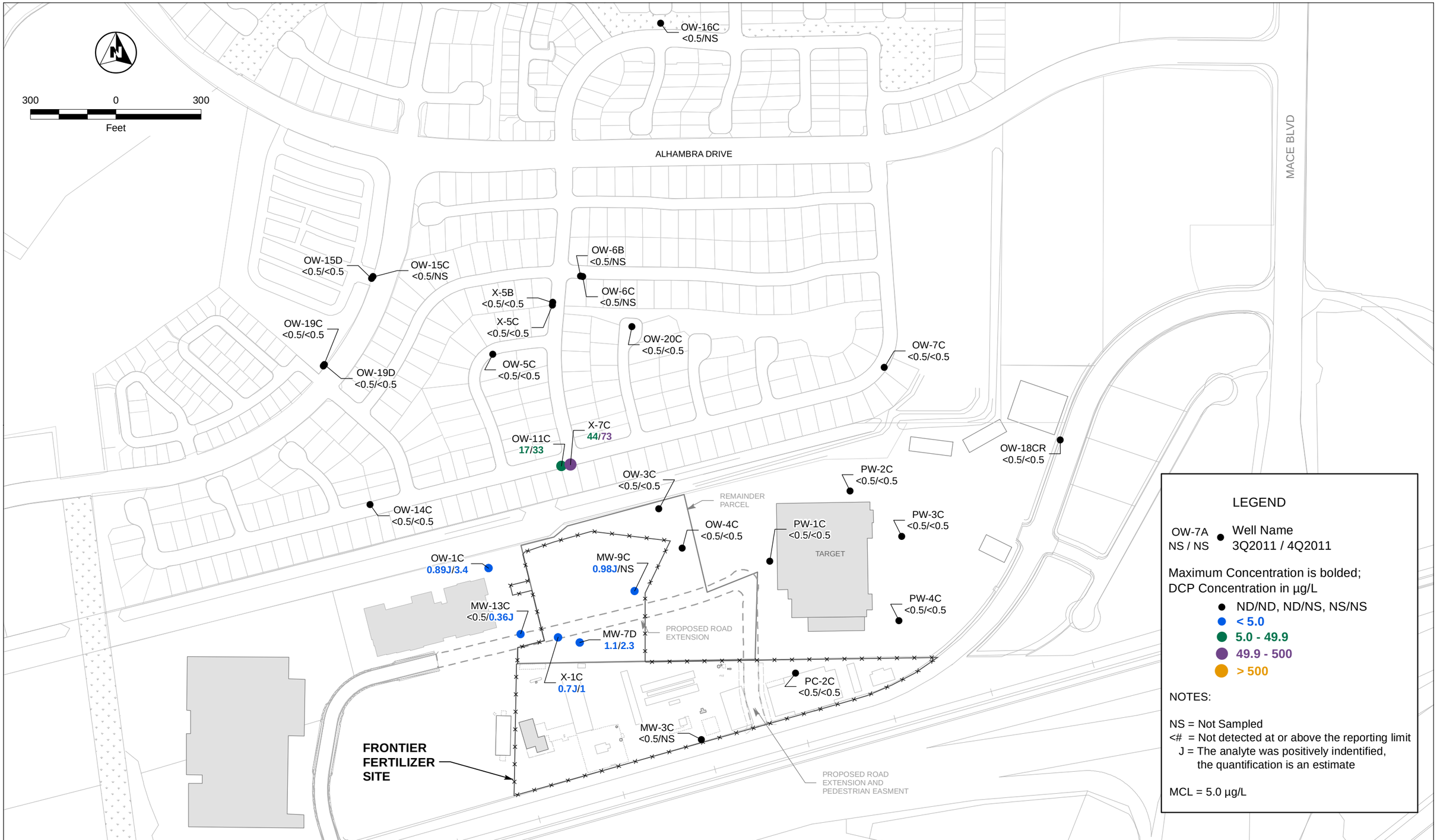


ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 4-5
DCP Concentrations (µg/L)
Detected in Zone S-2
During Third and Fourth Quarter 2011

G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\ChemResults\DCP_S2.mxd 1/20/2013 LCARR, ITSI

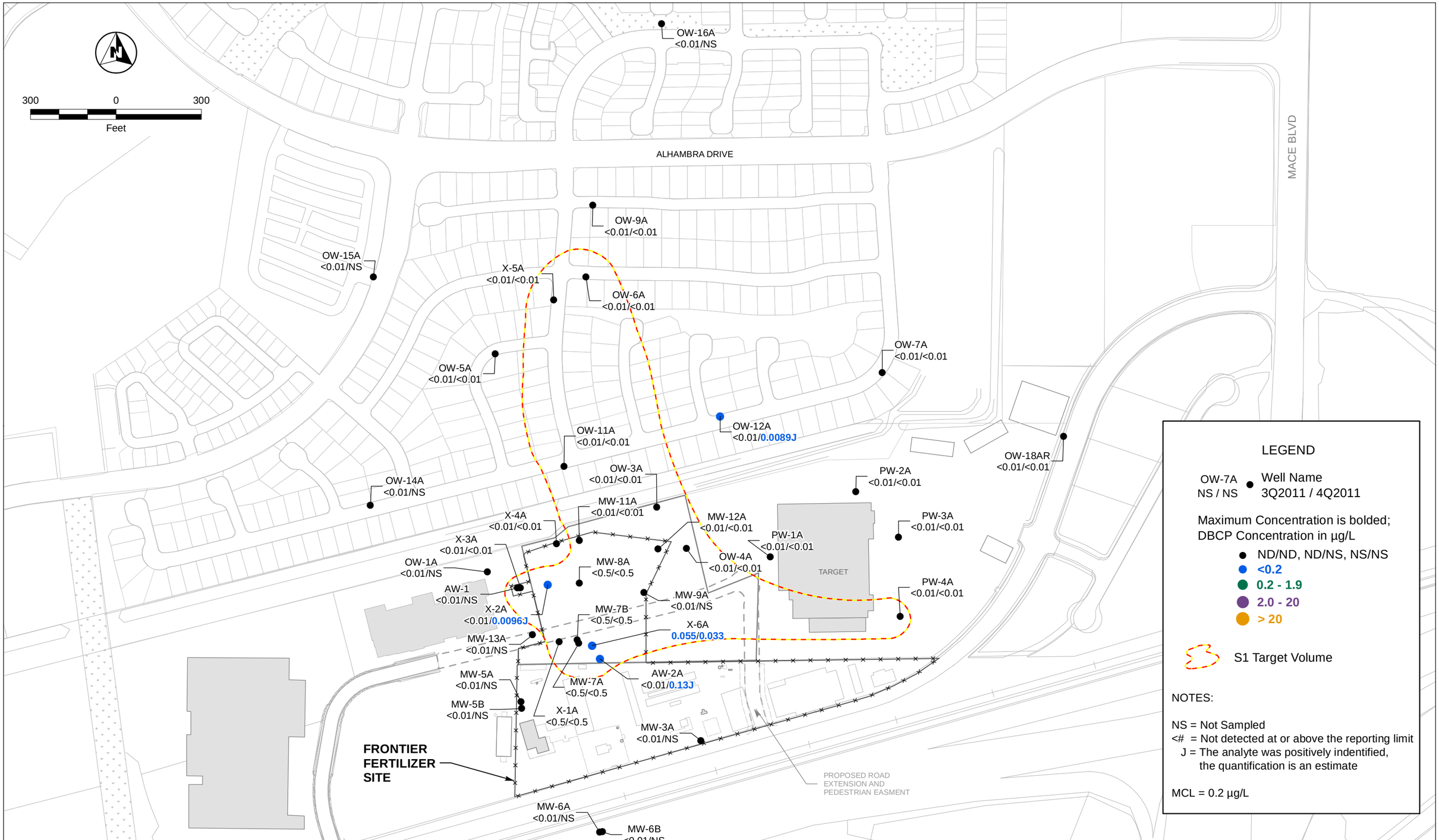


ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 4-6
DCP Concentrations (µg/L)
Detected in Zone A-1
During Third and Fourth Quarter 2011

G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\ChemResults\DCP_A1.mxd 1/20/2013 LCARR, ITSI

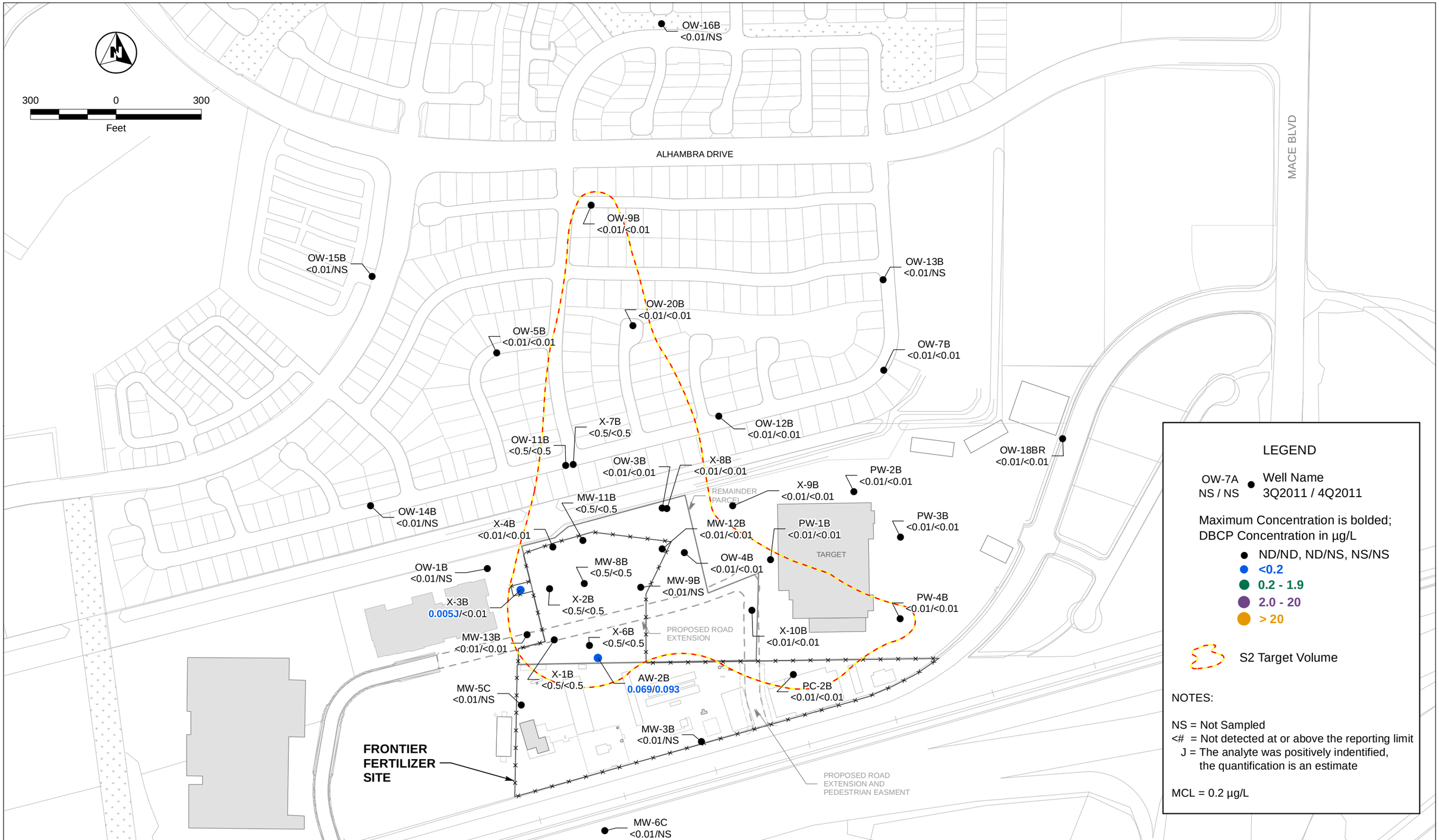


ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 4-7
DBCP Concentrations (µg/L)
Detected in Zone S-1
During Third and Fourth Quarter 2011

G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\ChemResults\DBCP_S1.mxd 1/20/2013 LCARR, ITSI

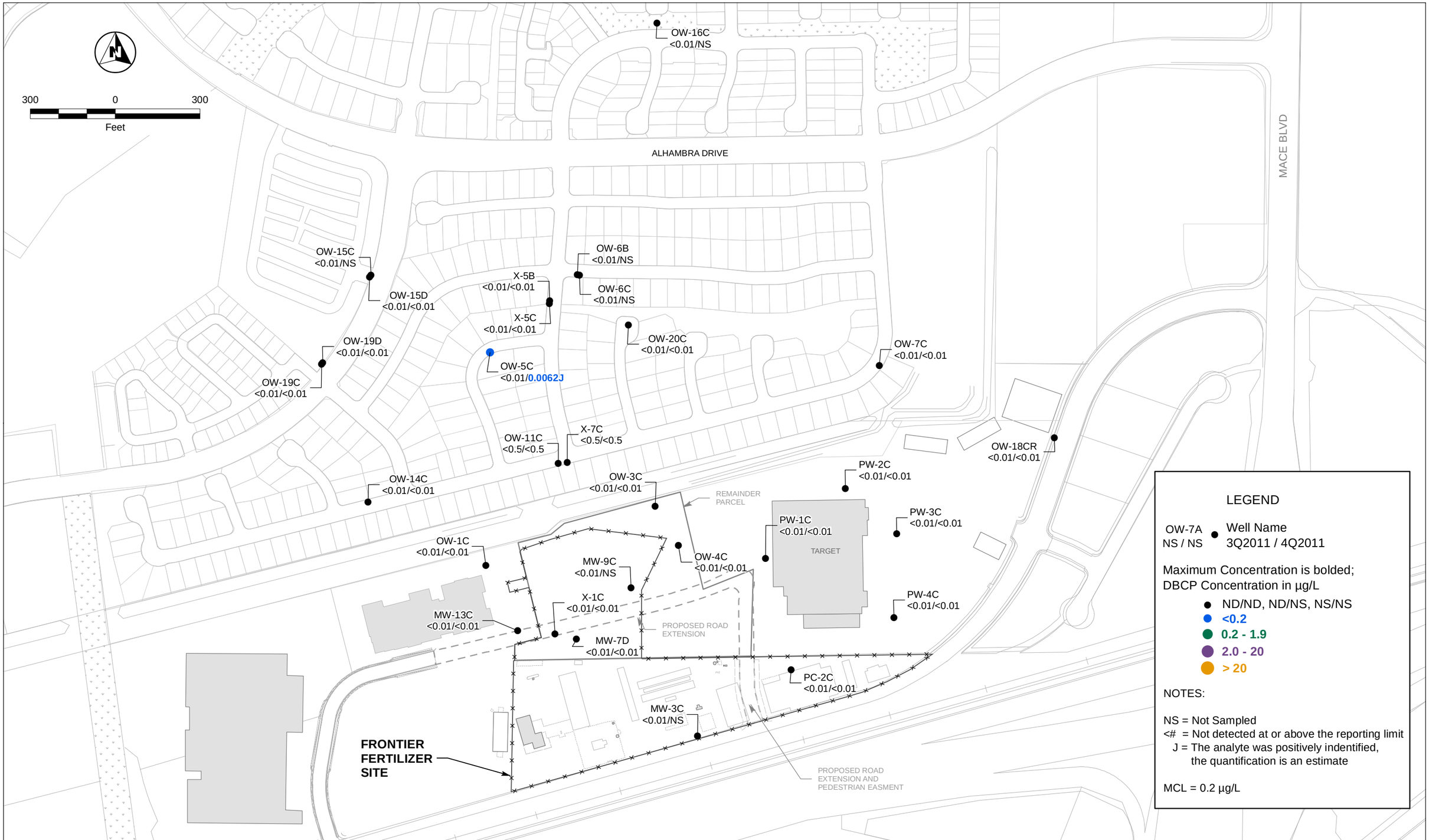


ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 4-8
DBCP Concentrations (µg/L)
Detected in Zone S-2
During Third and Fourth Quarter 2011

G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\ChemResults\DBCP_S2.mxd 1/20/2013 LCARR, ITSI

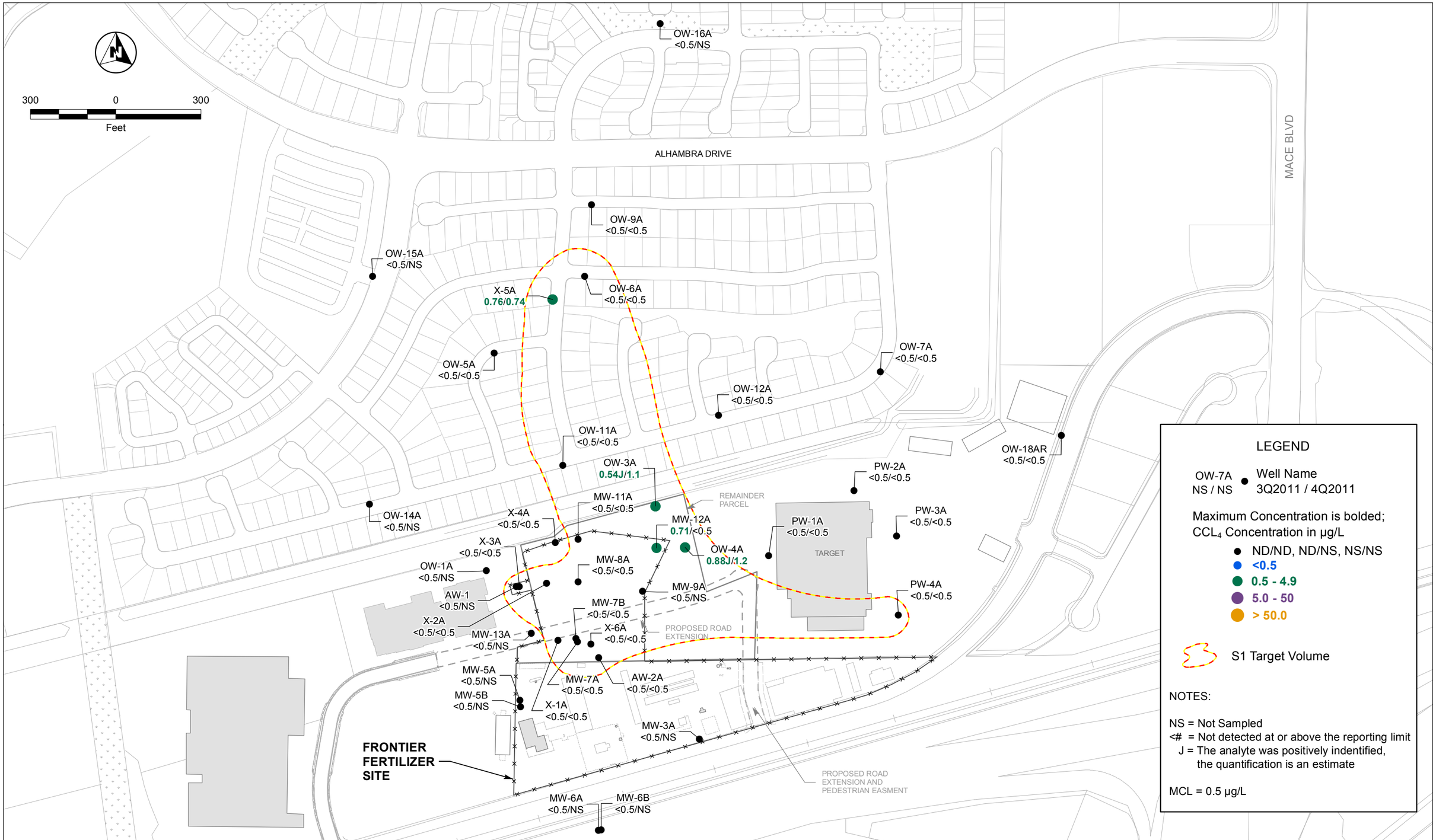


ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 4-9
DBCP Concentrations (µg/L)
Detected in Zone A-1
During Third and Fourth Quarter 2011

G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\ChemResults\DBCP_A1.mxd 1/18/2013 LCARR, ITSI

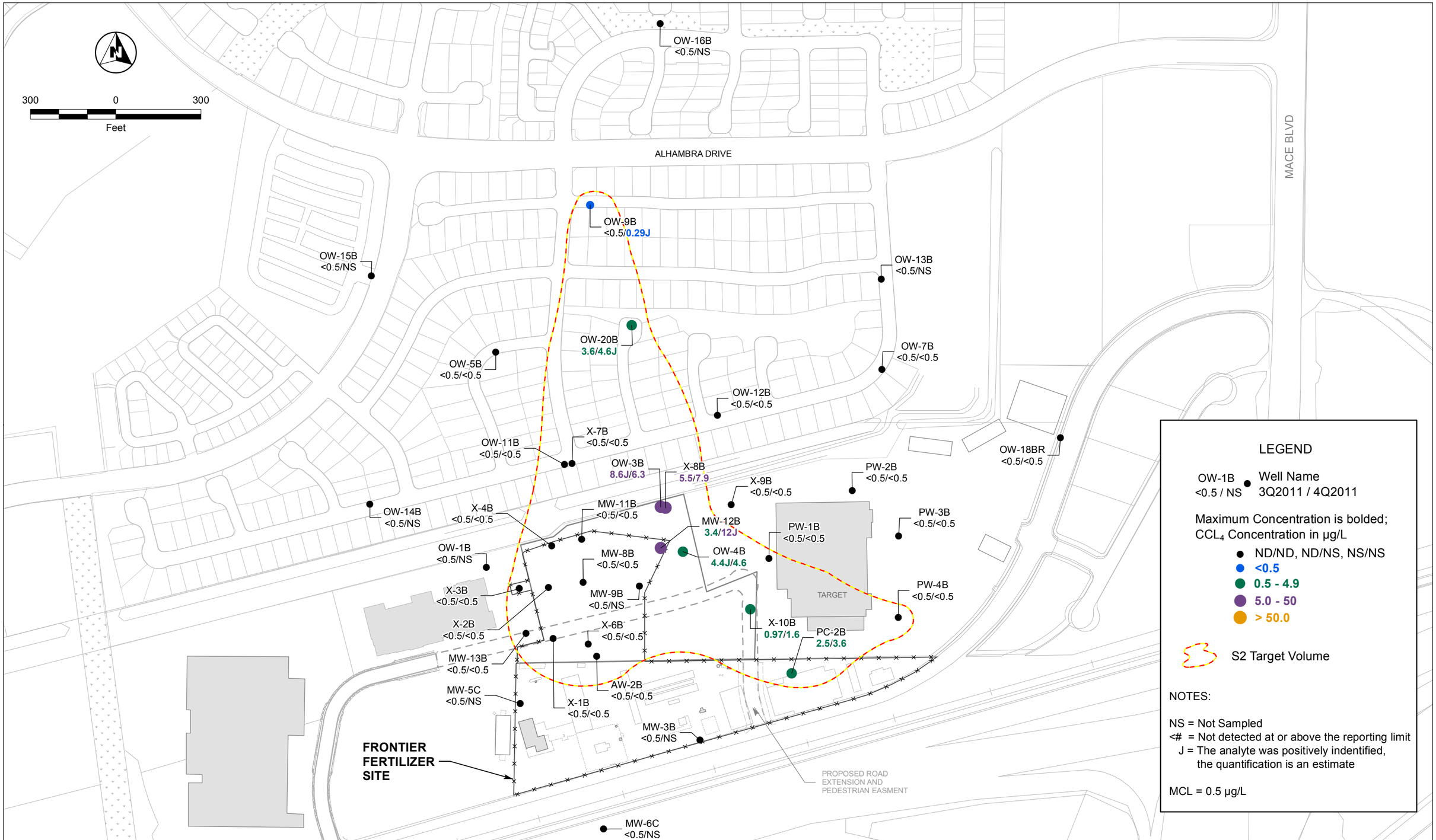


ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 4-10
Carbon Tetrachloride Concentrations (µg/L)
Detected in Zone S-1
During Third and Fourth Quarter 2011

G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\ChemResults\CTCL_S1.mxd 1/30/2013 LCARR, ITSI

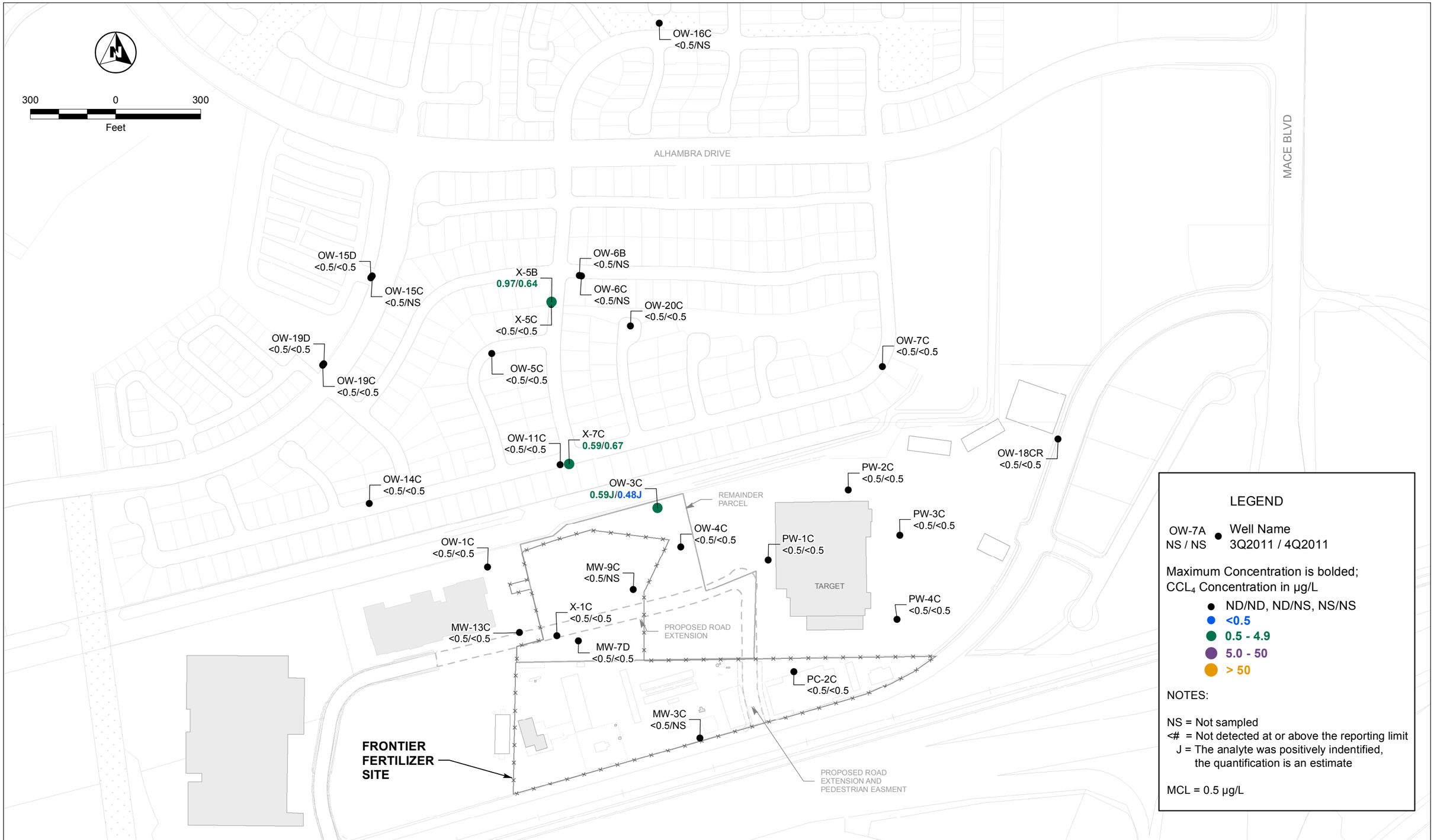


ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 4-11
Carbon Tetrachloride Concentrations (µg/L)
Detected in Zone S-2
During Third and Fourth Quarter 2011

G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\ChemResults\CTCL_S2.mxd 1/30/2013 LCARR, ITSI



ITSI Gilbane

FRONTIER FERTILIZER GROUNDWATER MONITORING REPORT
Contract No: EP-S9-08-03
Task Order No: TO-0056

FIGURE 4-12
Carbon Tetrachloride Concentrations (µg/L)
Detected in Zone A-1
During Third and Fourth Quarter 2011

G:\ArcGIS\EPA\Frontier_Fert\PROJECTS\GW_2011_3Q4Q_RPT\ChemResults\CTCL_A1.mxd 1/30/2013 LCARR, ITSI

SECTION 5
5 Data Quality Assessment

The chemical data quality for the last two quarters of 2011 was managed through the following tools and processes:

- The Sampling and Analysis Plan (SAP), which includes a quality assurance project plan (QAPP), and a field sampling plan (FSP) to define procedures and functional policies for data of known and appropriate quality (SAP ITSI, 2011).
- The data quality objective (DQO) process as documented in the Sampling and Analysis Plan (SAP; ITSI, 2011).
- Laboratory quality assurance audits.
- Data validation and data quality assessment.

The following subsections describe the analytical program methodology, data validation process, assessment methodology, and findings.

5.1 Analytical Program/Methodology

The analytical parameters and the associated analytical methods for the project, which are the standard EPA analytical method references, are contained in the project-specific SAP (ITSI, 2011).

Analyses were carried out through the EPA contract laboratory program (CLP) and the EPA Region 9 Laboratory, in accordance with CLP methodology and standard EPA methods for the Region 9 Laboratory, and were modified for lower detections where needed. Quality assurance/quality control (QA/QC) was done in accordance with CLP and Region 9 Laboratory standard operating procedures. Table 5-1 shows the analytes for 2011 data and the associated measurement performance criteria.

The QAPP identifies the following method-specific QC requirements directly or through reference:

- Level of effort (frequency of QC checks) for each QC procedure.
- Quantitative acceptance limits for QC data.
- Corrective action requirements for the laboratories for QC data that are outside the acceptance limits.
- Detection limit requirements.

These requirements (as well as EPA Region 9 Laboratory and CLP standard operating procedures) have been followed as the project analytical requirements by the laboratory. The analytical laboratory established method detection limits (MDLs) in accordance with Title 40, Part 136, Appendix B, of the Code of Federal Regulations (CFR) before the start of the work to ensure that laboratory-specific limits complied with the QAPP specifications.

TABLE 5-1
Measurement Performance Criteria
1st and 2nd Quarter 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Analyte	Method	Accuracy (Percent Recovery)	Precision (Relative Percent Deviation)	Completeness (Percent)
Volatiles	CLP VOA SOM01.2 using Modification Reference No. 1530.1.	70-130	±30	90
	EPA 524.2 SIM	70-130	±30	90

Notes:

CLP = Contract Laboratory Program methods and QC limits
EPA = U.S. Environmental Protection Agency
SIM = Selective ion monitoring, methodology used with gas chromatography/mass spectroscopy measurements for lower detection of analytes as needed by regulatory criteria
VOA = volatile organic analytes

5.2 Data Validation and Findings

5.2.1 Data Validation Methodology

All data (100 percent) have been evaluated independently of the laboratory by project chemists in accordance with current EPA National Functional Guidance.

CLP sample data have been reviewed outside the laboratories by EPA using semi-automated data review. Additionally, a minimum of 10 percent of the data have been reviewed by the EPA Quality Assurance Office or its designee using EPA National Functional Guidance for the QC specifications identified in the project QAPP for each specific parameter; these data were flagged in accordance with the project QAPP, and the review was performed at the Tier 3 level per regional designation. All the EPA Region 9 Laboratory data have been reviewed by EPA lab chemists for all the QC parameters as well as for the identification and quantitation of the analytes. Independent Tier 1b review was performed on all EPA Region 9 Laboratory data by the ITSI Gilbane Project Chemist.

5.2.2 Reporting

Sample- and parameter-specific independent data validation reports for the CLP and EPA Region 9 Laboratory data are provided in Appendix F (on CD). Data validation findings and qualifications/flags for these reports are summarized in Tables 5-2a and 5-2b. Internal EPA Region 9 Laboratory data QA review reports are presented in the laboratory data packages in the narrative section.

Each report has subsections that correspond to the internal QC check requirements for that specific method as identified in the project QAPP and EPA data validation functional guidances. If laboratory data were found to deviate from the specifications, the subsection provides quantitative details for the QC data deviation and the associated affected samples and provides flags according to defined conventions.

5.2.3 Flagging Conventions, Data Validation Findings

QAPP criteria and EPA data validation functional guidance were used to determine flagging conventions. Data validation flags have been entered into the database and subsequently into project reports. Data validation findings and qualifications/flags are summarized in Tables 5-2a and 5-2b for Tier 3 validation of CLP data.

For all SDGs, more than 90 percent of data were found to be within criteria as shown in Tables 5-2a and 5-2b and in the electronic database.

Data presented in this report include validation flags.

5.2.4 Data Storage

Backup information for the data evaluation and validation findings includes the following:

- Laboratory hard-copy packages, assembled in SDG units, which include all QC data. These packages are stored at the EPA Region 9 Laboratory and EPA CLP.
- Laboratory electronic databases, which include all sample concentration data with laboratory data flags and a subset of laboratory QC data.
- Chain-of-custody forms and tracking records in project files as well as in the laboratory.
- Laboratory bench records and sample custody logs maintained by the laboratory.
- Project electronic databases, including validation flags stored with project files; electronic database structure/content are in accordance with project/program specifications.

5.2.5 Data Quality Assessment and Quality Control Data

Data quality objectives have been prescribed in the QAPP in terms of precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters. This section describes the assessment for each parameter. Associated data for the PARCC parameters are in laboratory hard-copy packages, and a subset of these parameters is found in laboratory and project electronic databases.

The following tables provide data associated with the PARCC evaluations:

- Precision: field duplicate Tables 5-3a and 5-3b, and matrix spike duplicate recovery Tables 5-7a and 5-7b.
- Accuracy: field blank Tables 5-4a, b; surrogate Tables 5-5a, b; lab control standards Tables 5-6a, b; matrix spike recovery Tables 5-7a, b.
- Representativeness: field blank Tables 5-4a, b.
- Comparability: field duplicate Tables 5-3a, b).
- Completeness: data validation summary Tables 5-2a, b.

Accuracy measurement data include laboratory control sample and matrix spike recovery data for both organic and inorganic analytical parameters, as well as surrogate recovery data for organic parameters. Surrogate recoveries are summarized in Tables 5-5a and 5-5b, (third and fourth quarters of 2011, respectively). Laboratory control standard recoveries are

provided in Tables 5-6a and 5-6b, (third and fourth quarters 2011). Matrix spike recoveries are provided in Tables 5-7a and 5-7b (third and fourth quarters 2011). Evaluation of these data is shown in the appended data validation reports (Appendix F). Recoveries were within limits (over 90 percent). Therefore, accuracy goals have been met.

Precision measurement data include laboratory, matrix spike duplicate, and field duplicate data expressed as relative percent deviation. Field duplicate measurements are shown in Tables 5-3a and 5-3b. The evaluation of lab and matrix spike duplicates can be seen in the appended data validation reports (Appendix F). Laboratory and matrix spike duplicate data were generally found to be within acceptance criteria (shown in the validation reports and in Tables 5-2a 5-2b, 5-7a, and 5-7b); therefore, no significant lab precision bias has been noted. Field duplicate relative percent recoveries (Tables 5-3aand 5-3b) do not indicate significant field bias. The larger deviations noted for some of the analytes are intrinsic to the limitations of the measurements, such as the proximity of the reported concentrations to the detection limits. The observed deviations also reflect the heterogeneity of the contaminant distribution in the measured media; the heterogeneity depends on the nature of the molecules and the media. Data users have taken these findings into consideration in their decision processes. Thus, overall project precision targets are also met, and no significant biases are noted.

Representativeness is a measure of how closely the measured results reflect the actual concentrations or distribution of the chemical compounds in the sampled media. Representativeness is assessed in both qualitative and quantitative terms. The qualitative aspects of representativeness are discussed in terms of the design of the field sampling plan, sampling techniques, sample handling protocols, and associated documentation. Quantitative measures of representativeness include field and laboratory blank measurements to identify whether contamination was introduced through field or laboratory operations. Field duplicate measurements (Tables 5-3a and 5-3b) are used to establish variability. Factors that affect this variability are discussed above. Field blank results and associated evaluations are shown in Tables 5-4a1, 5-4a2, 5-4b1, and 5-4b2. For sample results where the concentration is less than the associated field blank detection (two times the detected concentrations for common lab artifacts), the sample results are qualified as non-detects. These field blank qualifications have not affected project decisions or the needed representativeness. Samples also were qualified for laboratory blanks through the validation reports, and no significant bias was noted.

Comparability expresses the confidence with which one dataset can be compared to another. Comparability of data has been established through use of the following:

- Standard analytical methods and QC procedures established in the project QAPP.
- Consistent reporting units for a specified procedure.
- MDLs for all analytical parameters that were established in accordance with 40 CFR Part 136, Appendix B, before the start of the analyses to meet the project requirements.

Completeness in this report is assessed as a measure of the amount of valid data obtained from the analytical measurements. Field activity completeness is assessed within the context of the overall sampling design. Data validation summaries are presented in Tables 5-2a and 5-2b for the third and fourth quarters of 2011, respectively. Data completeness was found to be above 90 percent for all the data. Thus, completeness goals were achieved.

Table 5-2A
Data Validation Summary, Third Quarter 2011
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Sample ID	Analyte	Flag	Reason	Validation
MW9C-A311, OW1C-A311, X1C-A311, OW4B-A311, PC2B-A311, X8B-A311	1,2-Dichloropropane	J (detects)	Detected in the associated source blank	1b
OW15C-A311	1,2,3-Trichloropropane 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	R (rejects)	MS Recovery	1b
MW5B-A311, OW3B-A311	1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane 1,2-Dichloroethane Carbon Tetrachloride Methyl Acetate Methylene Chloride tert-Butyl Methyl Ether Trichlorofluoromethane	J (detects)/UJ (nondetects)	Surrogate	3
MW5A-A311, OW16A-A311, OW16B-A311, OW16C-A311, OW18AR-A311, OW18BR-A311, OW18CR-A311, OW3A-A311, OW3C-A311, OW4A-A311, OW4B-A311, OW4C-A311, OW6B-A311	1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane 1,2-Dichloroethane Carbon Tetrachloride Methyl Acetate Methylene Chloride tert-Butyl Methyl Ether Trichlorofluoromethane	J (detects)/UJ (nondetects)	Surrogate	1b
MW5A-A311, OW16B-A311, OW18AR-A311, OW3A-A311,OW3C-A311, OW4A-A311, OW4B-A311, OW4C-A311, X10B-B311	1,1,2,2-Tetrachloroethane	J (detects)/UJ (nondetects)		1b
PW4C-A311	1,1-Dichloroethene cis-1,2-Dichloroethylene trans-1,2-Dichloroethene	U (nondetects)		1b
TB02-A311, TB03-A311	1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane 1,2-Dibromo-3-chloropropane 1,2-Dichloroethane Carbon Tetrachloride Methyl Acetate Methylene Chloride tert-Butyl Methyl Ether Trichlorofluoromethane	UJ (nondetects)		1b
X10B-B311	1,1,2,2-Tetrachloroethane	UJ (nondetects)		1b
OW4C-A311	1,2,3-Trichloropropane	J (detects)	Sample Receipt Condition	1b
OW4B-A311	1,2,3-Trichloropropane 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	J (detects)/UJ (undetects)	Sample Receipt Condition	1b 1b
OW4C-A311	1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	J (detects)/UJ (undetects)		

Table 5-2B
Data Validation Summary, Fourth Quarter 2011
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Sample ID	Analyte	Flag	Reason	Validation
MW7B-A411, MW7B-B411	1,3-Dichloropropane	UJ (nondetects)	Field Duplicate	1b
MW7B-A411, MW7D-A411, MW13B-A411, MW13B-B411, TB02-A411, X1B-A411	Methylene Chloride	U (nondetects)	Method Blank Contamination	1b/3
PW2C-A411, PW3A-A411	Methylene Chloride	UJ (nondetects)	Method and Storage Blank Contamination/Hold time	1b
MW12B-A411, MW7A-A411, MW7B-B411, MW11B-A411, MW8A-A411, MW8B-A411, PC2B-A411, SB02-A411, X6B-A411	Methylene Chloride	U/UJ (nondetects)	Method and Storage Blank Contamination	1b/3
PC2C-A411, X6A-A411	Methylene Chloride	UJ (nondetects)	Method and Storage Blank Contamination/Surrogate	1b
X1C-A411	Methylcyclohexane	UJ (nondetects)		1b
AW2B-A411	Methylene Chloride	UJ (nondetects)	Method Blank Contamination/Surrogate	1b/3
MW7B-A411, OW7A, A411, OW12A-A411, OW12B-A411, OW14C-A411, OW3A-A411, OW3B-A411, OW6A-A411, OW9A-B411, OW9B-A411, X1C-A411, X10B-A411, X5B-A411, X5C-A411, X5C-B411, X7B-A411	1,2,3-Trichlorobenzene	UJ (nondetects)	Continuing Calibration Verification	1b/3
MW8A-A411	Bromodichloromethane	UJ (nondetects)		1b
MW7B-A411, MW12A-A411, MW12B-A411, MW8B-A411, OW7A-A411, OW18BR-A411, PW1A-A411, PW1C-A411, PW3B-A411, PW3C-A411, PW4A-A411, PW4B-A411, PW4C-A411, SB01-A411, TB01-A411, TB02-A411, X1B-A411, X1C-A411, X2A-A411, X3A-A411, X3B-A411, X4B-A411, X7B-A411,	Bromodichloromethane	UJ (nondetects)		1b/3
PW1A-A411	1,2-Dibromo-3-chloropropane	UJ (nondetects)	MS RPD	1b
PW1A-A411	1,2-Dibromoethane (EDB)	UJ (nondetects)		1b/3
AW2A-A411, AW2B-A411, MW11A-A411, MW11B-A411, MW11B-B411, MW12A-A411, MW12B-A411, MW13B-A411, MW13B-B411, MW13C-A411, MW7A-A411, MW7B-A411, MW7B-B411, MW7D-A411, MW8A-A411, MW8B-A411, OW11A-A411, OW11B-A411, OW11C-A411, OW15D-A411, OW18AR-A411, OW18BR-A411, OW18CR-A411, OW19C-A411, OW19C-B411, OW19D-A411,	N-PROPYL CHLORIDE	J (detects)/R (rejected)	Initial Calibration RRF	1b/3

Table 5-2B
Data Validation Summary, Fourth Quarter 2011
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Sample ID	Analyte	Flag	Reason	Validation
OW1C-A411, OW4A-A411, OW4B-A411, OW4C-A411, OW5A-A411, OW5B-A411, OW5C-A411, OW7A-A411, OW7B-A411, OW7C-A411, PC2B-A411, PC2C-A411, PW1A-A411, PW1B-A411, PW1B-B411, PW1C-A411, PW2A-A411, PW2B-A411, PW3B-A411, PW3C-A411, PW4A-A411, PW4B-A411, PW4C-A411, SB01-A411, TB01-A411, TB02-A411, X1A-A411, X1B-A411, X1C-A411, X2A-A411, X2B-A411, X3A-A411, X3B-A411, X4A-A411, X4B-A411, X5A-A411, X6A-A411, X6B-A411, X7B-A411, X7C-A411, X7C-B411, X9B-A411	N-PROPYL CHLORIDE	J (detects)/R (rejected)	Initial Calibration RRF	1b/3
PW2C-A411, PW3A-A411	1,1,1-Trichloroethane	UJ (nondetects)	Test Hold Time	1b
	1,1,2,2-Tetrachloroethane			
	1,1,2-Trichloro-1,2,2-trifluoroethane			
	1,1,2-Trichloroethane			
	1,1-Dichloroethane			
	1,1-Dichloroethene			
	1,1-Dichloropropene			
	1,2,3-Trichlorobenzene			
	1,2,4-Trichlorobenzene			
	1,2-Dichlorobenzene			
	1,2-Dichloroethane			
	1,2-Dichloropropane			
	1,3-Dichlorobenzene			
	1,3-Dichloropropane			
	1,4-Dichlorobenzene			
	2,3-DIBROMOPROPENE			
	2,3-Dichloropropene			
	2-Bromo-1-chloropropane			
	2-Butanone (MEK)			
	2-Hexanone			
	4-Methyl-2-pentanone (MIBK)			
	Acetone			
	Benzene			
	Bromodichloromethane			
	Bromodichloromethane			
	Bromoform			
	Carbon Disulfide			
	Carbon Tetrachloride			
	Chlorobenzene			
	Chloroethane			
	Chloroform			
	Chloromethane			
	cis-1,2-Dichloroethylene			
	cis-1,3-Dichloropropene			
	Cyclohexane			
	Dibromochloromethane			
	Dichlorodifluoromethane			
	Ethylbenzene			
	Isopropyl Chloride			
	Isopropylbenzene (Cumene)			
	m,p-Xylene			
	Methyl Acetate			
	Methylcyclohexane			
	o-Xylene			
	Styrene			
	tert-Butyl Methyl Ether (MTBE)			
	Tetrachloroethene (PCE)			
	Toluene			
	trans-1,2-Dichloroethene			
	trans-1,3-Dichloropropene			
	Trichloroethene (TCE)			
	Trichlorofluoromethane			
	VINYL BROMIDE			
	Vinyl Chloride			
PW3A-A411	Bromomethane	UJ (nondetects)		1b
PW2C-A411	Bromomethane	UJ (nondetects)	Test Hold Time/Continuing Calibration Verificatior	1b
PW2C-A411, PW3A-A411	N-PROPYL CHLORIDE	R (rejected)	Test Hold Time/Initial Calibration RRF	1b

Table 5-2B
Data Validation Summary, Fourth Quarter 2011
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Sample ID	Analyte	Flag	Reason	Validation
MW13C-A411, PW1A-A411, PW1C-A411	Methylene Chloride	U (nondetects)	Storage blank	1b
OW12A-A411	1,2-Dibromo-3-chloropropane	J (detects)	Matrix Spike	1b
MW13B-A411	1,2-Dibromoethane (EDB)	UJ (nondetects)		1b
OW7C-A411	1,1,1-Trichloroethane	UJ (nondetects)	Surrogate	1b
AW2A-A411, AW2B-A411, OW20B-A411, OW4C-A411, OW5B-A411, OW7B-A411, PC2C-A411, TB03-A411, X1C-A411, X6A-A411	1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane Methyl Acetate tert-Butyl Methyl Ether (MTBE) Trichlorofluoromethane	UJ (nondetects)	Surrogate	1b/3
AW2A-A411, AW2B-A411, MW11B-A411, MW12A-A411, MW13B-A411, MW13B-B411, MW13C-A411, MW7A-A411, MW7B-B411, MW7D-A411, OW11A-A411, OW11C-A411, OW18AR-A411, OW18BR-A411, OW18CR-A411, OW4B-A411, OW7B-A411, OW9A-B411, PC2C-A411, PW1B-A411, PW1B-B411, PW3C-A411, PW4C-A411, SB01-A411, TB01-A411, TB03-A411, X1B-A411, X1C-A411, X2B-A411, X4A-A411, X4B-A411, X6A-A411, X6B-A411, X7C-A411, X8B-A411, X9B-A411	1,1,2,2-Tetrachloroethane	UJ (nondetects)		1b/3
OW7B-A411	1,1,2-Trichloroethane cis-1,3-Dichloropropene trans-1,3-Dichloropropene	UJ (nondetects)		3
OW20B-A411	1,1-Dichloroethane	UJ (nondetects)		1b
MW11B-A411, MW7A-A411, MW7B-B411, OW11C-A411, TB01-A411, TB03-A411, X1B-A411, X2B-A411, X6B-A411, X7C-A411	1,2-Dibromo-3-chloropropane	UJ (nondetects)		1b/3
TB03-A411	1,2-Dibromoethane (EDB)	UJ (nondetects)		
AW2A-A411, AW2B-A411, OW4C-A411, OW5B-A411, OW7B-A411, PC2C-A411, TB03-A411, X1C-A411, X6A-A411	1,2-Dichloroethane	J (detects)/UJ (nondetects)		1b/3
AW2A-A411, AW2B-A411, MW12B-A411, OW20B-A411, OW4C-A411, OW5B-A411, OW7B-A411, PC2C-A411, TB03-A411, X1C-A411, X6A-A411	Carbon Tetrachloride	J (detects)/UJ (nondetects)		1b/3
X1A-A411	1,2-Dichloropropane	J (detects		1b
MW12B-A411	Chloroform	J (detects		1b
OW20B-A411	Dibromochloromethane Isopropylbenzene (Cumene)	UJ (nondetects)		
OW4C-A411, OW5B-A411, TB03-A411	Methylene Chloride	UJ (nondetects)		1b
MW8B-A411	VINYL BROMIDE	J (detects)		
AW2A-A411	Methylcyclohexane	UJ (nondetects)	Surrogate/Method and Storage Blank Contaminatior	1b
OW7B-A411, OW20B-A411	Methylene Chloride	UJ (nondetects)		1b
AW2A-A411, MW12A-A411, MW12B-A411, X3A-A411, X3B-A411	1,2,3-Trichloropropane 1,2-Dibromo-3-chloropropane	J (detects)	Receipt Temperature	1b
MW12A-A411	1,2-Dibromoethane (EDB)	J (detects)		1b
AW2A-A411, MW12B-A411, X3A-A411, X3B-A411	1,2-Dibromoethane (EDB)	J (detects)		1b
TB02-A411	1,2,3-Trichloropropane 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	UJ (nondetects)	Receipt Temperature/Sample Receipt Condition	1b

Table 5-3A

Summary Field Duplicate Results, Third Quarter 2011, Groundwater Monitoring

Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Well ID	Sample Date	Method	Analyte	Sample Result (ug/L)		Duplicate Result (ug/L)		Relative Percent Difference (%)
MW-11A	9/15/2011	E524.2S	1,2,3-Trichloropropane	0.055		0.053		4%
		E524.2S	1,2-Dibromoethane (EDB)	0.14		0.13		7%
MW-12B	9/26/2011	CVOL	1,2-Dichloropropane	0.34	J	0.35		3%
		CVOL	Carbon Tetrachloride	3.4		3.00		13%
MW-12B	9/26/2011	E524.2S	1,2,3-Trichloropropane	0.1		0.099		1%
MW-7B	9/8/2011	CVOL	1,2,3-Trichloropropane	19		19		0%
		CVOL	1,2-Dichloroethane	0.69		0.64		8%
		CVOL	1,2-Dichloropropane	150		160		6%
		CVOL	1,3-Dichloropropane	0.8		0.88		10%
		CVOL	2,3-Dichloropropene	0.5	U	3.6		151%
MW-8B	9/9/2011	CVOL	1,1,2-Trichloroethane	0.28	J	0.290	J	4%
		CVOL	1,1-Dichloroethane	0.44	J	0.430	J	2%
		CVOL	1,2,3-Trichloropropane	17	J	13.0	J	27%
		CVOL	1,2-Dibromoethane (EDB)	14		14.0		0%
		CVOL	1,2-Dichloroethane	1.7		1.7		0%
		CVOL	1,2-Dichloropropane	530		420		23.2
		CVOL	1,3-Dichloropropane	1.8		1.8		0%
MW-8B	9/9/2011	CVOL	Chloroform	0.26	J	0.28	J	7%
X-10B	9/22/2011	CVOL	Carbon Tetrachloride	0.97		1.2		21%
		E524.2S	1,2,3-Trichloropropane	0.029		0.029		0%
		E524.2S	1,2-Dibromoethane (EDB)	0.0041		0.004		2%
X-1A	9/8/2011	CVOL	1,2-Dichloropropane	3.0		2.9		3%
X-2B	9/29/2011	CVOL	1,2-Dibromoethane (EDB)	0.29	J	0.320	J	10%
		CVOL	1,2-Dichloropropane	5.1		5.2		2%
X-7B	9/26/2011	CVOL	1,2,3-Trichloropropane	6.1		6.1		0%
		CVOL	1,2-Dibromoethane (EDB)	4.5		4.6		2%
		CVOL	1,2-Dichloropropane	120		130		8%

Notes:

No constituents detected in X-4A (CVOL), X-5C (CVOL), X-9B (CVOL)

CVOL = Method TVOL (Trace Volatiles) SOM01.2

E524.2S = Method 524.2 SIM

U = Analyte was not detected and associated result is the quantitation limit.

ug/L = microgram per liter

Table 5-3B
Summary of Field Duplicate Results, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Well ID	Sample Date	Method	Analyte	Sample Result (ug/L)		Duplicate Result (ug/L)		Relative Percent Difference (%)
MW-11B	12/6/2011	CVOL	1,2,3-Trichloropropane	0.74		1.0		30%
		CVOL	1,2-Dibromoethane (EDB)	1.1		1.0		10%
		CVOL	1,2-Dichloropropane	20		20		0%
MW-13B	12/8/2011	CVOL	1,2-Dichloropropane	4.4		4.5		2%
		CVOL	1,3-Dichloropropane	0.5	U	0.33	J	41%
		CVOL	Toluene	0.22	J	0.5	U	78%
MW-7B	12/8/2011	CVOL	1,2,3-Trichloropropane	20		16		22%
		CVOL	1,2-Dichloroethane	0.98		1.0		2%
		CVOL	1,2-Dichloropropane	250		260		4%
		CVOL	1,3-Dichloropropane	0.50	UJ	0.85	J	52%
		CVOL	Chlorobenzene	0.50	U	0.20	J	86%
MW-7B	12/8/2011	CVOL	VINYL BROMIDE	0.50	U	0.26	J	63%
OW-9A	12/14/2011	E524.2S	1,2,3-Trichloropropane	0.005	U	0.0034	J	38%
PW-1B	11/30/2011	CVOL	1,2-Dichloropropane	0.32	J	0.5	U	44%
		E524.2S	1,2,3-Trichloropropane	9.5		9.6		1%
X-7C	12/6/2011	CVOL	1,2,3-Trichloropropane	1.3		1.6		21%
		CVOL	1,2-Dibromoethane (EDB)	0.95		1.0		5%
		CVOL	1,2-Dichloropropane	73		73		0%
		CVOL	Carbon Tetrachloride	0.67		0.73		9%

Notes:

No constituents detected in MW-13B (E524.2S), OW-19C (E524.2S/CVOL), OW-9A (CVOL), X-5C (E524.2S/CVOL)

CVOL = Method TVOL (Trace Volatiles) SOM01.2

E524.2S = Method 524.2 SIM

J = Estimated value

U = Analyte was not detected and associated result is the quantitation limit.

UJ = Analyte was not estimated not detected

ug/L = microgram per liter

Table 5-4A1

Chemicals Detected in Water Used to Make Blanks, Third Quarter 2011, Groundwater Monitoring

Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Well ID	Sample Date	Method Code	Analyte	Result (ug/L)	
SB01	9/7/2011	CVOL	1,2-Dichloropropane	0.27	J
	9/7/2011	CVOL	Acetone	4.2	J
	9/7/2011	CVOL	Chloroform	0.21	J
SB02	10/4/2011	CVOL	Acetone	11	
	10/4/2011	CVOL	Chloroform	0.38	J

Notes:

CVOL = Method TVOL (Trace Volatiles) SOM01.2

J = The reported result for this analyte should be considered an estimated value.

ug/L = microgram per liter

Table 5-4A2

Chemicals Detected in Field Blanks with Respective Sample Results, Third Quarter 2011, Groundwater Monitoring

Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer Site, Davis, California

Well ID	Sample Date	Method Code	Analyte	Field Blank Result (ug/L)		Normal Sample Result (ug/L)	
MW-11A	9/15/2011	CVOL	Chloroform	0.23	J	0.5	U
MW-7B	9/8/2011	CVOL	1,2-Dichloropropane	0.21	J	150	
MW-7B	9/8/2011	CVOL	Acetone	3.9	J	5	U
X-10B	9/22/2011	CVOL	Chloroform	0.22	J	0.5	U
X-1A	9/8/2011	CVOL	Acetone	4.4	J	5	U
X-9B	9/21/2011	CVOL	Chloroform	0.23	J	0.5	U

Notes:

CVOL = Method TVOL (Trace Volatiles) SOM01.2

J = The reported result for this analyte should be considered an estimated value.

ug/L = microgram per liter

Table 5-4B1

Chemicals Detected in Water Used to Make Blanks, Fourth Quarter 2011, Groundwater Monitoring

Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Well ID	Sample Date	Method Code	Analyte	Result (ug/L)
No analytes were detected				

Notes:

CVOL = Method TVOL (Trace Volatiles) SOM01.2

J = The reported result for this analyte should be considered an estimated value.

ug/L = microgram per liter

Table 5-4B2

Chemicals Detected in Field Blanks with Respective Sample Results, Fourth Quarter 2011, Groundwater Monitoring

Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer Site, Davis, California

Well ID	Sample Date	Method Code	Analyte	Field Blank Result (ug/L)		Normal Sample Result (ug/L)	
MW-13B	12/8/2011	CVOL	Chloroform	0.54		0.5	U
OW-9A	12/14/2011	CVOL	Chloroform	0.56		0.5	U
PW-1B	11/30/2011	CVOL	Chloroform	0.56		0.5	U
X-7C	12/6/2011	CVOL	Toluene	0.22	J	0.5	U

Notes:

CVOL = Method TVOL (Trace Volatiles) SOM01.2

J = The reported result for this analyte should be considered an estimated value.

ug/L = microgram per liter

Table 5-5A
Srrogate Summary, Third Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
AW1-A311	Primary Sample	1109025-01	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	96	70	130	%Rec
AW2A-A311	Primary Sample	1109025-02	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	96	70	130	%Rec
AW2B-A311	Primary Sample	1109025-03	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	94	70	130	%Rec
AW2B-A311RE	Primary Sample	1109025-03RE2	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	90	70	130	%Rec
MW11A-A311	Primary Sample	1109044-01	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	90	70	130	%Rec
MW11A-B311	Duplicate Sample	1109044-02	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	90	70	130	%Rec
MW12A-A311	Primary Sample	1109074-01	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	101	70	130	%Rec
MW12B-A311	Primary Sample	1109074-02	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	110	70	130	%Rec
MW12B-B311	Duplicate Sample	1109074-03	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	108	70	130	%Rec
MW13A-A311	Primary Sample	1109053-01	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	84	70	130	%Rec
MW13B-A311	Primary Sample	1109053-02	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	88	70	130	%Rec
MW13C-A311	Primary Sample	1109053-03	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	89	70	130	%Rec
MW3A-A311	Primary Sample	1109030-01	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	97	70	130	%Rec
MW3B-A311	Primary Sample	1109020-01	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	93	70	130	%Rec
MW3C-A311	Primary Sample	1109020-02	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	94	70	130	%Rec
MW5A-A311RE	Primary Sample	1109063-01RE1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	83	70	130	%Rec
MW5B-A311	Primary Sample	1109063-02	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	82	70	130	%Rec
MW5C-A311	Primary Sample	1109064-01	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	97	70	130	%Rec
MW6A-A311	Primary Sample	1109083-01	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	87	70	130	%Rec
MW6B-A311	Primary Sample	1109083-02	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	88	70	130	%Rec
MW6C-A311	Primary Sample	1110001-01	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	95	70	130	%Rec
MW7D-A311	Primary Sample	1109020-04	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	96	70	130	%Rec
MW9A-A311	Primary Sample	1109044-04	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	88	70	130	%Rec
MW9B-A311	Primary Sample	1109044-05	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	84	70	130	%Rec
MW9C-A311	Primary Sample	1109044-06	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	91	70	130	%Rec
OW11A-A311	Primary Sample	1109074-05	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	99	70	130	%Rec
OW12A-A311	Primary Sample	1109083-03	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	89	70	130	%Rec
OW12B-A311	Primary Sample	1109083-04	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	90	70	130	%Rec
OW13B-A311	Primary Sample	1110003-01	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	100	70	130	%Rec
OW14A-A311	Primary Sample	1110003-02	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	98	70	130	%Rec
OW14B-A311	Primary Sample	1110003-03	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	97	70	130	%Rec
OW14C-A311	Primary Sample	1110003-04	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	99	70	130	%Rec
OW15A-A311	Primary Sample	1109030-02	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	95	70	130	%Rec
OW15B-A311	Primary Sample	1109030-03	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	94	70	130	%Rec
OW15C-A311	Primary Sample	1109030-04	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	93	70	130	%Rec
OW15D-A311	Primary Sample	1109030-05	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	93	70	130	%Rec
OW16A-A311	Primary Sample	1109063-03	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	83	70	130	%Rec
OW16B-A311RE	Primary Sample	1109063-04RE1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	82	70	130	%Rec
OW16C-A311	Primary Sample	1109063-05	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	83	70	130	%Rec
OW18AR-A311	Primary Sample	1109053-04	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	86	70	130	%Rec
OW18BR-A311	Primary Sample	1109053-05	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	86	70	130	%Rec
OW18CR-A311	Primary Sample	1109053-06	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	84	70	130	%Rec
OW19C-A311	Primary Sample	1109030-06	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	92	70	130	%Rec
OW19D-A311	Primary Sample	1109030-07	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	91	70	130	%Rec
OW1A-A311	Primary Sample	1109053-07	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	86	70	130	%Rec
OW1B-A311RE	Primary Sample	1109053-08RE1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	82	70	130	%Rec
OW1C-A311RE	Primary Sample	1109053-09RE1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	83	70	130	%Rec
OW20B-A311	Primary Sample	1109083-05	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	88	70	130	%Rec
OW20C-A311	Primary Sample	1109083-06	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	85	70	130	%Rec
OW3A-A311	Primary Sample	1109064-02	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	96	70	130	%Rec
OW3B-A311	Primary Sample	1109064-03	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	95	70	130	%Rec
OW3C-A311	Primary Sample	1109064-04	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	98	70	130	%Rec
OW4A-A311	Primary Sample	1109063-06	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	84	70	130	%Rec
OW4B-A311	Primary Sample	1109063-07	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	82	70	130	%Rec
OW4C-A311RE	Primary Sample	1109063-08RE1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	93	70	130	%Rec
OW5A-A311	Primary Sample	1110001-02	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	94	70	130	%Rec
OW5B-A311	Primary Sample	1110001-03	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	123	70	130	%Rec
OW5C-A311	Primary Sample	1110001-04	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	99	70	130	%Rec
OW6A-A311	Primary Sample	1109083-07	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	88	70	130	%Rec
OW6B-A311	Primary Sample	1109083-08	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	81	70	130	%Rec
OW6C-A311	Primary Sample	1109083-09	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	87	70	130	%Rec
OW7A-A311	Primary Sample	1110003-05	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	95	70	130	%Rec
OW7B-A311	Primary Sample	1110003-06	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	96	70	130	%Rec
OW7C-A311	Primary Sample	1110003-07	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	96	70	130	%Rec
OW9A-A311	Primary Sample	1109074-06	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	100	70	130	%Rec
OW9B-A311	Primary Sample	1109074-07	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	101	70	130	%Rec
PC2B-A311	Primary Sample	1109044-07	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	90	70	130	%Rec
PC2C-A311	Primary Sample	1109044-08	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	92	70	130	%Rec
PW1A-A311	Primary Sample	1109030-08	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	92	70	130	%Rec
PW1B-A311	Primary Sample	1109030-09	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	93	70	130	%Rec
PW1C-A311	Primary Sample	1109030-10	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	92	70	130	%Rec
PW2A-A311	Primary Sample	1109044-09	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	90	70	130	%Rec
PW2B-A311	Primary Sample	1109044-10	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	88	70	130	%Rec
PW2C-A311	Primary Sample	1109044-11	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	82	70	130	%Rec
PW3A-A311	Primary Sample	1109030-11	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	90	70	130	%Rec
PW3B-A311	Primary Sample	1109030-12	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	92	70	130	%Rec

Table 5-5A
Srrogate Summary, Third Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
PW3C-A311	Primary Sample	1109030-13	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	93	70	130	%Rec
PW4A-A311	Primary Sample	1109044-12	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	83	70	130	%Rec
PW4B-A311	Primary Sample	1109044-13	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	86	70	130	%Rec
PW4C-A311	Primary Sample	1109044-14	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	86	70	130	%Rec
SB01-A311	Primary Sample	1109020-05	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	103	70	130	%Rec
SB02-A311	Primary Sample	1110003-08	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	99	70	130	%Rec
ug/L = microgram per liter								
X10B-A311	Primary Sample	1109063-09	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	83	70	130	%Rec
X10B-B311	Duplicate Sample	1109063-10	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	80	70	130	%Rec
X1C-A311	Primary Sample	1109020-07	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	93	70	130	%Rec
X2A-A311	Primary Sample	1109083-10	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	89	70	130	%Rec
X3A-A311	Primary Sample	1109025-05	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	100	70	130	%Rec
X3B-A311RE	Primary Sample	1109025-06RE1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	94	70	130	%Rec
X4A-A311	Primary Sample	1109083-12	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	92	70	130	%Rec
X4A-B311	Duplicate Sample	1109083-13	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	92	70	130	%Rec
X4B-A311	Primary Sample	1109074-08	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	98	70	130	%Rec
X4B-A311RE	Primary Sample	1109074-08RE1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	92	70	130	%Rec
X5A-A311	Primary Sample	1109074-09	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	97	70	130	%Rec
X5B-A311	Primary Sample	1109074-10	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	99	70	130	%Rec
X5C-A311	Primary Sample	1109074-11	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	96	70	130	%Rec
X5C-B311	Duplicate Sample	1109074-12	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	99	70	130	%Rec
X6A-A311	Primary Sample	1109020-08	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	95	70	130	%Rec
X6A-A311RE	Primary Sample	1109020-08RE2	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	96	70	130	%Rec
X8B-A311	Primary Sample	1109064-06	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	94	70	130	%Rec
X9B-A311	Primary Sample	1109063-12	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	82	70	130	%Rec
X9B-B311	Duplicate Sample	1109063-13	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	81	70	130	%Rec
Y8113	Primary Sample	K1866-03A	CVOL	1,1,2,2-Tetrachloroethane-d2	97	73	125	%Rec
Y8113	Primary Sample	K1866-03A	CVOL	1,1-Dichloroethene-d2	68	55	104	%Rec
Y8113	Primary Sample	K1866-03A	CVOL	1,2-Dichlorobenzene-d4	95	80	131	%Rec
Y8113	Primary Sample	K1866-03A	CVOL	1,2-Dichloroethane-d4	83	78	129	%Rec
Y8113	Primary Sample	K1866-03A	CVOL	1,2-Dichloropropane-d6	90	79	124	%Rec
Y8113	Primary Sample	K1866-03A	CVOL	2-Butanone-d5	76	49	155	%Rec
Y8113	Primary Sample	K1866-03A	CVOL	2-Hexanone-d5	85	28	135	%Rec
Y8113	Primary Sample	K1866-03A	CVOL	Benzene-d6	106	77	124	%Rec
Y8113	Primary Sample	K1866-03A	CVOL	Chloroethane-d5	79	71	131	%Rec
Y8113	Primary Sample	K1866-03A	CVOL	Chloroform-d	88	78	121	%Rec
Y8113	Primary Sample	K1866-03A	CVOL	Toluene-d8	109	77	121	%Rec
Y8113	Primary Sample	K1866-03A	CVOL	trans-1,3-Dichloropropene-d4	107	73	121	%Rec
Y8113	Primary Sample	K1866-03A	CVOL	Vinyl chloride-d3	72	65	131	%Rec
Y8114	Primary Sample	K1866-04A	CVOL	1,1,2,2-Tetrachloroethane-d2	94	73	125	%Rec
Y8114	Primary Sample	K1866-04A	CVOL	1,1-Dichloroethene-d2	66	55	104	%Rec
Y8114	Primary Sample	K1866-04A	CVOL	1,2-Dichlorobenzene-d4	88	80	131	%Rec
Y8114	Primary Sample	K1866-04A	CVOL	1,2-Dichloroethane-d4	81	78	129	%Rec
Y8114	Primary Sample	K1866-04A	CVOL	1,2-Dichloropropane-d6	95	79	124	%Rec
Y8114	Primary Sample	K1866-04A	CVOL	2-Butanone-d5	72	49	155	%Rec
Y8114	Primary Sample	K1866-04A	CVOL	2-Hexanone-d5	85	28	135	%Rec
Y8114	Primary Sample	K1866-04A	CVOL	Benzene-d6	111	77	124	%Rec
Y8114	Primary Sample	K1866-04A	CVOL	Chloroethane-d5	78	71	131	%Rec
Y8114	Primary Sample	K1866-04A	CVOL	Chloroform-d	86	78	121	%Rec
Y8114	Primary Sample	K1866-04A	CVOL	Toluene-d8	111	77	121	%Rec
Y8114	Primary Sample	K1866-04A	CVOL	trans-1,3-Dichloropropene-d4	106	73	121	%Rec
Y8114	Primary Sample	K1866-04A	CVOL	Vinyl chloride-d3	71	65	131	%Rec
Y8115	Primary Sample	K1866-19A	CVOL	1,1,2,2-Tetrachloroethane-d2	98	73	125	%Rec
Y8115	Primary Sample	K1866-19A	CVOL	1,1-Dichloroethene-d2	73	55	104	%Rec
Y8115	Primary Sample	K1866-19A	CVOL	1,2-Dichlorobenzene-d4	100	80	131	%Rec
Y8115	Primary Sample	K1866-19A	CVOL	1,2-Dichloroethane-d4	79	78	129	%Rec
Y8115	Primary Sample	K1866-19A	CVOL	1,2-Dichloropropane-d6	89	79	124	%Rec
Y8115	Primary Sample	K1866-19A	CVOL	2-Butanone-d5	72	49	155	%Rec
Y8115	Primary Sample	K1866-19A	CVOL	2-Hexanone-d5	78	28	135	%Rec
Y8115	Primary Sample	K1866-19A	CVOL	Benzene-d6	105	77	124	%Rec
Y8115	Primary Sample	K1866-19A	CVOL	Chloroethane-d5	82	71	131	%Rec
Y8115	Primary Sample	K1866-19A	CVOL	Chloroform-d	87	78	121	%Rec
Y8115	Primary Sample	K1866-19A	CVOL	Toluene-d8	108	77	121	%Rec
Y8115	Primary Sample	K1866-19A	CVOL	trans-1,3-Dichloropropene-d4	105	73	121	%Rec
Y8115	Primary Sample	K1866-19A	CVOL	Vinyl chloride-d3	74	65	131	%Rec
Y8148	Primary Sample	K1866-20A	CVOL	1,1,2,2-Tetrachloroethane-d2	97	73	125	%Rec
Y8148	Primary Sample	K1866-20A	CVOL	1,1-Dichloroethene-d2	71	55	104	%Rec
Y8148	Primary Sample	K1866-20A	CVOL	1,2-Dichlorobenzene-d4	92	80	131	%Rec
Y8148	Primary Sample	K1866-20A	CVOL	1,2-Dichloroethane-d4	83	78	129	%Rec
Y8148	Primary Sample	K1866-20A	CVOL	1,2-Dichloropropane-d6	94	79	124	%Rec
Y8148	Primary Sample	K1866-20A	CVOL	2-Butanone-d5	74	49	155	%Rec
Y8148	Primary Sample	K1866-20A	CVOL	2-Hexanone-d5	72	28	135	%Rec
Y8148	Primary Sample	K1866-20A	CVOL	Benzene-d6	108	77	124	%Rec
Y8148	Primary Sample	K1866-20A	CVOL	Chloroethane-d5	80	71	131	%Rec
Y8148	Primary Sample	K1866-20A	CVOL	Chloroform-d	86	78	121	%Rec
Y8148	Primary Sample	K1866-20A	CVOL	Toluene-d8	111	77	121	%Rec
Y8148	Primary Sample	K1866-20A	CVOL	trans-1,3-Dichloropropene-d4	111	73	121	%Rec

Table 5-5A
Srrogate Summary, Third Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y8148	Primary Sample	K1866-20A	CVOL	Vinyl chloride-d3	75	65	131	%Rec
Y8149	Primary Sample	K1892-01A	CVOL	1,1,2,2-Tetrachloroethane-d2	96	73	125	%Rec
Y8149	Primary Sample	K1892-01A	CVOL	1,1-Dichloroethene-d2	70	55	104	%Rec
Y8149	Primary Sample	K1892-01A	CVOL	1,2-Dichlorobenzene-d4	96	80	131	%Rec
Y8149	Primary Sample	K1892-01A	CVOL	1,2-Dichloroethane-d4	80	78	129	%Rec
Y8149	Primary Sample	K1892-01A	CVOL	1,2-Dichloropropane-d6	86	79	124	%Rec
Y8149	Primary Sample	K1892-01A	CVOL	2-Butanone-d5	73	49	155	%Rec
Y8149	Primary Sample	K1892-01A	CVOL	2-Hexanone-d5	76	28	135	%Rec
Y8149	Primary Sample	K1892-01A	CVOL	Benzene-d6	105	77	124	%Rec
Y8149	Primary Sample	K1892-01A	CVOL	Chloroethane-d5	78	71	131	%Rec
Y8149	Primary Sample	K1892-01A	CVOL	Chloroform-d	85	78	121	%Rec
Y8149	Primary Sample	K1892-01A	CVOL	Toluene-d8	106	77	121	%Rec
Y8149	Primary Sample	K1892-01A	CVOL	trans-1,3-Dichloropropene-d4	109	73	121	%Rec
Y8149	Primary Sample	K1892-01A	CVOL	Vinyl chloride-d3	72	65	131	%Rec
Y8150	Primary Sample	K1892-02A	CVOL	1,1,2,2-Tetrachloroethane-d2	95	73	125	%Rec
Y8150	Primary Sample	K1892-02A	CVOL	1,1-Dichloroethene-d2	67	55	104	%Rec
Y8150	Primary Sample	K1892-02A	CVOL	1,2-Dichlorobenzene-d4	102	80	131	%Rec
Y8150	Primary Sample	K1892-02A	CVOL	1,2-Dichloroethane-d4	79	78	129	%Rec
Y8150	Primary Sample	K1892-02A	CVOL	1,2-Dichloropropane-d6	89	79	124	%Rec
Y8150	Primary Sample	K1892-02A	CVOL	2-Butanone-d5	71	49	155	%Rec
Y8150	Primary Sample	K1892-02A	CVOL	2-Hexanone-d5	77	28	135	%Rec
Y8150	Primary Sample	K1892-02A	CVOL	Benzene-d6	104	77	124	%Rec
Y8150	Primary Sample	K1892-02A	CVOL	Chloroethane-d5	79	71	131	%Rec
Y8150	Primary Sample	K1892-02A	CVOL	Chloroform-d	85	78	121	%Rec
Y8150	Primary Sample	K1892-02A	CVOL	Toluene-d8	106	77	121	%Rec
Y8150	Primary Sample	K1892-02A	CVOL	trans-1,3-Dichloropropene-d4	103	73	121	%Rec
Y8150	Primary Sample	K1892-02A	CVOL	Vinyl chloride-d3	71	65	131	%Rec
Y8151	Primary Sample	K1866-05A	CVOL	1,1,2,2-Tetrachloroethane-d2	96	73	125	%Rec
Y8151	Primary Sample	K1866-05A	CVOL	1,1-Dichloroethene-d2	68	55	104	%Rec
Y8151	Primary Sample	K1866-05A	CVOL	1,2-Dichlorobenzene-d4	99	80	131	%Rec
Y8151	Primary Sample	K1866-05A	CVOL	1,2-Dichloroethane-d4	82	78	129	%Rec
Y8151	Primary Sample	K1866-05A	CVOL	1,2-Dichloropropane-d6	93	79	124	%Rec
Y8151	Primary Sample	K1866-05A	CVOL	2-Butanone-d5	71	49	155	%Rec
Y8151	Primary Sample	K1866-05A	CVOL	2-Hexanone-d5	79	28	135	%Rec
Y8151	Primary Sample	K1866-05A	CVOL	Benzene-d6	107	77	124	%Rec
Y8151	Primary Sample	K1866-05A	CVOL	Chloroethane-d5	77	71	131	%Rec
Y8151	Primary Sample	K1866-05A	CVOL	Chloroform-d	86	78	121	%Rec
Y8151	Primary Sample	K1866-05A	CVOL	Toluene-d8	109	77	121	%Rec
Y8151	Primary Sample	K1866-05A	CVOL	trans-1,3-Dichloropropene-d4	104	73	121	%Rec
Y8151	Primary Sample	K1866-05A	CVOL	Vinyl chloride-d3	72	65	131	%Rec
Y8152	Primary Sample	K1866-06A	CVOL	1,1,2,2-Tetrachloroethane-d2	94	73	125	%Rec
Y8152	Primary Sample	K1866-06A	CVOL	1,1-Dichloroethene-d2	72	55	104	%Rec
Y8152	Primary Sample	K1866-06A	CVOL	1,2-Dichlorobenzene-d4	121	80	131	%Rec
Y8152	Primary Sample	K1866-06A	CVOL	1,2-Dichloroethane-d4	77	78	129	%Rec
Y8152	Primary Sample	K1866-06A	CVOL	1,2-Dichloropropane-d6	90	79	124	%Rec
Y8152	Primary Sample	K1866-06A	CVOL	2-Butanone-d5	74	49	155	%Rec
Y8152	Primary Sample	K1866-06A	CVOL	2-Hexanone-d5	71	28	135	%Rec
Y8152	Primary Sample	K1866-06A	CVOL	Benzene-d6	107	77	124	%Rec
Y8152	Primary Sample	K1866-06A	CVOL	Chloroethane-d5	78	71	131	%Rec
Y8152	Primary Sample	K1866-06A	CVOL	Chloroform-d	87	78	121	%Rec
Y8152	Primary Sample	K1866-06A	CVOL	Toluene-d8	111	77	121	%Rec
Y8152	Primary Sample	K1866-06A	CVOL	trans-1,3-Dichloropropene-d4	104	73	121	%Rec
Y8152	Primary Sample	K1866-06A	CVOL	Vinyl chloride-d3	74	65	131	%Rec
Y8153	Primary Sample	K1866-07A	CVOL	1,1,2,2-Tetrachloroethane-d2	99	73	125	%Rec
Y8153	Primary Sample	K1866-07A	CVOL	1,1-Dichloroethene-d2	71	55	104	%Rec
Y8153	Primary Sample	K1866-07A	CVOL	1,2-Dichlorobenzene-d4	99	80	131	%Rec
Y8153	Primary Sample	K1866-07A	CVOL	1,2-Dichloroethane-d4	82	78	129	%Rec
Y8153	Primary Sample	K1866-07A	CVOL	1,2-Dichloropropane-d6	90	79	124	%Rec
Y8153	Primary Sample	K1866-07A	CVOL	2-Butanone-d5	71	49	155	%Rec
Y8153	Primary Sample	K1866-07A	CVOL	2-Hexanone-d5	74	28	135	%Rec
Y8153	Primary Sample	K1866-07A	CVOL	Benzene-d6	105	77	124	%Rec
Y8153	Primary Sample	K1866-07A	CVOL	Chloroethane-d5	78	71	131	%Rec
Y8153	Primary Sample	K1866-07A	CVOL	Chloroform-d	86	78	121	%Rec
Y8153	Primary Sample	K1866-07A	CVOL	Toluene-d8	105	77	121	%Rec
Y8153	Primary Sample	K1866-07A	CVOL	trans-1,3-Dichloropropene-d4	106	73	121	%Rec
Y8153	Primary Sample	K1866-07A	CVOL	Vinyl chloride-d3	72	65	131	%Rec
Y8154	Primary Sample	K1892-04A	CVOL	1,1,2,2-Tetrachloroethane-d2	134	73	125	%Rec
Y8154	Primary Sample	K1892-04A	CVOL	1,1-Dichloroethene-d2	68	55	104	%Rec
Y8154	Primary Sample	K1892-04A	CVOL	1,2-Dichlorobenzene-d4	108	80	131	%Rec
Y8154	Primary Sample	K1892-04A	CVOL	1,2-Dichloroethane-d4	112	78	129	%Rec
Y8154	Primary Sample	K1892-04A	CVOL	1,2-Dichloropropane-d6	95	79	124	%Rec
Y8154	Primary Sample	K1892-04A	CVOL	2-Butanone-d5	116	49	155	%Rec
Y8154	Primary Sample	K1892-04A	CVOL	2-Hexanone-d5	124	28	135	%Rec
Y8154	Primary Sample	K1892-04A	CVOL	Benzene-d6	94	77	124	%Rec
Y8154	Primary Sample	K1892-04A	CVOL	Chloroethane-d5	76	71	131	%Rec
Y8154	Primary Sample	K1892-04A	CVOL	Chloroform-d	97	78	121	%Rec
Y8154	Primary Sample	K1892-04A	CVOL	Toluene-d8	92	77	121	%Rec

Table 5-5A
Srrogate Summary, Third Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y8154	Primary Sample	K1892-04A	CVOL	trans-1,3-Dichloropropene-d4	134	73	121	%Rec
Y8154	Primary Sample	K1892-04A	CVOL	Vinyl chloride-d3	71	65	131	%Rec
Y8155	Primary Sample	K1892-05A	CVOL	1,1,2,2-Tetrachloroethane-d2	136	73	125	%Rec
Y8155	Primary Sample	K1892-05A	CVOL	1,1-Dichloroethene-d2	69	55	104	%Rec
Y8155	Primary Sample	K1892-05A	CVOL	1,2-Dichlorobenzene-d4	106	80	131	%Rec
Y8155	Primary Sample	K1892-05A	CVOL	1,2-Dichloroethane-d4	121	78	129	%Rec
Y8155	Primary Sample	K1892-05A	CVOL	1,2-Dichloropropane-d6	94	79	124	%Rec
Y8155	Primary Sample	K1892-05A	CVOL	2-Butanone-d5	123	49	155	%Rec
Y8155	Primary Sample	K1892-05A	CVOL	2-Hexanone-d5	118	28	135	%Rec
Y8155	Primary Sample	K1892-05A	CVOL	Benzene-d6	92	77	124	%Rec
Y8155	Primary Sample	K1892-05A	CVOL	Chloroethane-d5	78	71	131	%Rec
Y8155	Primary Sample	K1892-05A	CVOL	Chloroform-d	99	78	121	%Rec
Y8155	Primary Sample	K1892-05A	CVOL	Toluene-d8	91	77	121	%Rec
Y8155	Primary Sample	K1892-05A	CVOL	trans-1,3-Dichloropropene-d4	134	73	121	%Rec
Y8155	Primary Sample	K1892-05A	CVOL	Vinyl chloride-d3	72	65	131	%Rec
Y8156	Primary Sample	K1892-06A	CVOL	1,1,2,2-Tetrachloroethane-d2	128	73	125	%Rec
Y8156	Primary Sample	K1892-06A	CVOL	1,1-Dichloroethene-d2	73	55	104	%Rec
Y8156	Primary Sample	K1892-06A	CVOL	1,2-Dichlorobenzene-d4	102	80	131	%Rec
Y8156	Primary Sample	K1892-06A	CVOL	1,2-Dichloroethane-d4	121	78	129	%Rec
Y8156	Primary Sample	K1892-06A	CVOL	1,2-Dichloropropane-d6	93	79	124	%Rec
Y8156	Primary Sample	K1892-06A	CVOL	2-Butanone-d5	117	49	155	%Rec
Y8156	Primary Sample	K1892-06A	CVOL	2-Hexanone-d5	118	28	135	%Rec
Y8156	Primary Sample	K1892-06A	CVOL	Benzene-d6	93	77	124	%Rec
Y8156	Primary Sample	K1892-06A	CVOL	Chloroethane-d5	77	71	131	%Rec
Y8156	Primary Sample	K1892-06A	CVOL	Chloroform-d	99	78	121	%Rec
Y8156	Primary Sample	K1892-06A	CVOL	Toluene-d8	90	77	121	%Rec
Y8156	Primary Sample	K1892-06A	CVOL	trans-1,3-Dichloropropene-d4	115	73	121	%Rec
Y8156	Primary Sample	K1892-06A	CVOL	Vinyl chloride-d3	68	65	131	%Rec
Y8162	Primary Sample	K1866-08A	CVOL	1,1,2,2-Tetrachloroethane-d2	93	73	125	%Rec
Y8162	Primary Sample	K1866-08A	CVOL	1,1-Dichloroethene-d2	71	55	104	%Rec
Y8162	Primary Sample	K1866-08A	CVOL	1,2-Dichlorobenzene-d4	98	80	131	%Rec
Y8162	Primary Sample	K1866-08A	CVOL	1,2-Dichloroethane-d4	84	78	129	%Rec
Y8162	Primary Sample	K1866-08A	CVOL	1,2-Dichloropropane-d6	91	79	124	%Rec
Y8162	Primary Sample	K1866-08A	CVOL	2-Butanone-d5	71	49	155	%Rec
Y8162	Primary Sample	K1866-08A	CVOL	2-Hexanone-d5	69	28	135	%Rec
Y8162	Primary Sample	K1866-08A	CVOL	Benzene-d6	103	77	124	%Rec
Y8162	Primary Sample	K1866-08A	CVOL	Chloroethane-d5	78	71	131	%Rec
Y8162	Primary Sample	K1866-08A	CVOL	Chloroform-d	88	78	121	%Rec
Y8162	Primary Sample	K1866-08A	CVOL	Toluene-d8	106	77	121	%Rec
Y8162	Primary Sample	K1866-08A	CVOL	trans-1,3-Dichloropropene-d4	101	73	121	%Rec
Y8162	Primary Sample	K1866-08A	CVOL	Vinyl chloride-d3	70	65	131	%Rec
Y8163	Primary Sample	K1866-09A	CVOL	1,1,2,2-Tetrachloroethane-d2	97	73	125	%Rec
Y8163	Primary Sample	K1866-09A	CVOL	1,1-Dichloroethene-d2	67	55	104	%Rec
Y8163	Primary Sample	K1866-09A	CVOL	1,2-Dichlorobenzene-d4	91	80	131	%Rec
Y8163	Primary Sample	K1866-09A	CVOL	1,2-Dichloroethane-d4	83	78	129	%Rec
Y8163	Primary Sample	K1866-09A	CVOL	1,2-Dichloropropane-d6	94	79	124	%Rec
Y8163	Primary Sample	K1866-09A	CVOL	2-Butanone-d5	73	49	155	%Rec
Y8163	Primary Sample	K1866-09A	CVOL	2-Hexanone-d5	78	28	135	%Rec
Y8163	Primary Sample	K1866-09A	CVOL	Benzene-d6	110	77	124	%Rec
Y8163	Primary Sample	K1866-09A	CVOL	Chloroethane-d5	78	71	131	%Rec
Y8163	Primary Sample	K1866-09A	CVOL	Chloroform-d	84	78	121	%Rec
Y8163	Primary Sample	K1866-09A	CVOL	Toluene-d8	110	77	121	%Rec
Y8163	Primary Sample	K1866-09A	CVOL	trans-1,3-Dichloropropene-d4	105	73	121	%Rec
Y8163	Primary Sample	K1866-09A	CVOL	Vinyl chloride-d3	73	65	131	%Rec
Y8164	Primary Sample	K1892-07A	CVOL	1,1,2,2-Tetrachloroethane-d2	121	73	125	%Rec
Y8164	Primary Sample	K1892-07A	CVOL	1,1-Dichloroethene-d2	69	55	104	%Rec
Y8164	Primary Sample	K1892-07A	CVOL	1,2-Dichlorobenzene-d4	107	80	131	%Rec
Y8164	Primary Sample	K1892-07A	CVOL	1,2-Dichloroethane-d4	112	78	129	%Rec
Y8164	Primary Sample	K1892-07A	CVOL	1,2-Dichloropropane-d6	89	79	124	%Rec
Y8164	Primary Sample	K1892-07A	CVOL	2-Butanone-d5	114	49	155	%Rec
Y8164	Primary Sample	K1892-07A	CVOL	2-Hexanone-d5	119	28	135	%Rec
Y8164	Primary Sample	K1892-07A	CVOL	Benzene-d6	94	77	124	%Rec
Y8164	Primary Sample	K1892-07A	CVOL	Chloroethane-d5	74	71	131	%Rec
Y8164	Primary Sample	K1892-07A	CVOL	Chloroform-d	94	78	121	%Rec
Y8164	Primary Sample	K1892-07A	CVOL	Toluene-d8	90	77	121	%Rec
Y8164	Primary Sample	K1892-07A	CVOL	trans-1,3-Dichloropropene-d4	131	73	121	%Rec
Y8164	Primary Sample	K1892-07A	CVOL	Vinyl chloride-d3	69	65	131	%Rec
Y8165	Primary Sample	K1892-08A	CVOL	1,1,2,2-Tetrachloroethane-d2	129	73	125	%Rec
Y8165	Primary Sample	K1892-08A	CVOL	1,1-Dichloroethene-d2	66	55	104	%Rec
Y8165	Primary Sample	K1892-08A	CVOL	1,2-Dichlorobenzene-d4	110	80	131	%Rec
Y8165	Primary Sample	K1892-08A	CVOL	1,2-Dichloroethane-d4	117	78	129	%Rec
Y8165	Primary Sample	K1892-08A	CVOL	1,2-Dichloropropane-d6	93	79	124	%Rec
Y8165	Primary Sample	K1892-08A	CVOL	2-Butanone-d5	117	49	155	%Rec
Y8165	Primary Sample	K1892-08A	CVOL	2-Hexanone-d5	120	28	135	%Rec
Y8165	Primary Sample	K1892-08A	CVOL	Benzene-d6	92	77	124	%Rec
Y8165	Primary Sample	K1892-08A	CVOL	Chloroethane-d5	75	71	131	%Rec
Y8165	Primary Sample	K1892-08A	CVOL	Chloroform-d	96	78	121	%Rec

Table 5-5A
Srrogate Summary, Third Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y8165	Primary Sample	K1892-08A	CVOL	Toluene-d8	91	77	121	%Rec
Y8165	Primary Sample	K1892-08A	CVOL	trans-1,3-Dichloropropene-d4	125	73	121	%Rec
Y8165	Primary Sample	K1892-08A	CVOL	Vinyl chloride-d3	68	65	131	%Rec
Y8166	Primary Sample	K1892-09A	CVOL	1,1,2,2-Tetrachloroethane-d2	129	73	125	%Rec
Y8166	Primary Sample	K1892-09A	CVOL	1,1-Dichloroethene-d2	68	55	104	%Rec
Y8166	Primary Sample	K1892-09A	CVOL	1,2-Dichlorobenzene-d4	107	80	131	%Rec
Y8166	Primary Sample	K1892-09A	CVOL	1,2-Dichloroethane-d4	115	78	129	%Rec
Y8166	Primary Sample	K1892-09A	CVOL	1,2-Dichloropropane-d6	93	79	124	%Rec
Y8166	Primary Sample	K1892-09A	CVOL	2-Butanone-d5	118	49	155	%Rec
Y8166	Primary Sample	K1892-09A	CVOL	2-Hexanone-d5	120	28	135	%Rec
Y8166	Primary Sample	K1892-09A	CVOL	Benzene-d6	91	77	124	%Rec
Y8166	Primary Sample	K1892-09A	CVOL	Chloroethane-d5	75	71	131	%Rec
Y8166	Primary Sample	K1892-09A	CVOL	Chloroform-d	97	78	121	%Rec
Y8166	Primary Sample	K1892-09A	CVOL	Toluene-d8	90	77	121	%Rec
Y8166	Primary Sample	K1892-09A	CVOL	trans-1,3-Dichloropropene-d4	129	73	121	%Rec
Y8166	Primary Sample	K1892-09A	CVOL	Vinyl chloride-d3	68	65	131	%Rec
Y8167	Primary Sample	K1892-10A	CVOL	1,1,2,2-Tetrachloroethane-d2	138	73	125	%Rec
Y8167	Primary Sample	K1892-10A	CVOL	1,1-Dichloroethene-d2	67	55	104	%Rec
Y8167	Primary Sample	K1892-10A	CVOL	1,2-Dichlorobenzene-d4	108	80	131	%Rec
Y8167	Primary Sample	K1892-10A	CVOL	1,2-Dichloroethane-d4	115	78	129	%Rec
Y8167	Primary Sample	K1892-10A	CVOL	1,2-Dichloropropane-d6	96	79	124	%Rec
Y8167	Primary Sample	K1892-10A	CVOL	2-Butanone-d5	120	49	155	%Rec
Y8167	Primary Sample	K1892-10A	CVOL	2-Hexanone-d5	118	28	135	%Rec
Y8167	Primary Sample	K1892-10A	CVOL	Benzene-d6	95	77	124	%Rec
Y8167	Primary Sample	K1892-10A	CVOL	Chloroethane-d5	79	71	131	%Rec
Y8167	Primary Sample	K1892-10A	CVOL	Chloroform-d	100	78	121	%Rec
Y8167	Primary Sample	K1892-10A	CVOL	Toluene-d8	91	77	121	%Rec
Y8167	Primary Sample	K1892-10A	CVOL	trans-1,3-Dichloropropene-d4	128	73	121	%Rec
Y8167	Primary Sample	K1892-10A	CVOL	Vinyl chloride-d3	72	65	131	%Rec
Y8180	Primary Sample	K1866-10A	CVOL	1,1,2,2-Tetrachloroethane-d2	94	73	125	%Rec
Y8180	Primary Sample	K1866-10A	CVOL	1,1-Dichloroethene-d2	75	55	104	%Rec
Y8180	Primary Sample	K1866-10A	CVOL	1,2-Dichlorobenzene-d4	106	80	131	%Rec
Y8180	Primary Sample	K1866-10A	CVOL	1,2-Dichloroethane-d4	82	78	129	%Rec
Y8180	Primary Sample	K1866-10A	CVOL	1,2-Dichloropropane-d6	90	79	124	%Rec
Y8180	Primary Sample	K1866-10A	CVOL	2-Butanone-d5	72	49	155	%Rec
Y8180	Primary Sample	K1866-10A	CVOL	2-Hexanone-d5	76	28	135	%Rec
Y8180	Primary Sample	K1866-10A	CVOL	Benzene-d6	103	77	124	%Rec
Y8180	Primary Sample	K1866-10A	CVOL	Chloroethane-d5	79	71	131	%Rec
Y8180	Primary Sample	K1866-10A	CVOL	Chloroform-d	86	78	121	%Rec
Y8180	Primary Sample	K1866-10A	CVOL	Toluene-d8	104	77	121	%Rec
Y8180	Primary Sample	K1866-10A	CVOL	trans-1,3-Dichloropropene-d4	101	73	121	%Rec
Y8180	Primary Sample	K1866-10A	CVOL	Vinyl chloride-d3	71	65	131	%Rec
Y8181	Primary Sample	K1866-11A	CVOL	1,1,2,2-Tetrachloroethane-d2	88	73	125	%Rec
Y8181	Primary Sample	K1866-11A	CVOL	1,1-Dichloroethene-d2	72	55	104	%Rec
Y8181	Primary Sample	K1866-11A	CVOL	1,2-Dichlorobenzene-d4	102	80	131	%Rec
Y8181	Primary Sample	K1866-11A	CVOL	1,2-Dichloroethane-d4	82	78	129	%Rec
Y8181	Primary Sample	K1866-11A	CVOL	1,2-Dichloropropane-d6	88	79	124	%Rec
Y8181	Primary Sample	K1866-11A	CVOL	2-Butanone-d5	73	49	155	%Rec
Y8181	Primary Sample	K1866-11A	CVOL	2-Hexanone-d5	77	28	135	%Rec
Y8181	Primary Sample	K1866-11A	CVOL	Benzene-d6	101	77	124	%Rec
Y8181	Primary Sample	K1866-11A	CVOL	Chloroethane-d5	79	71	131	%Rec
Y8181	Primary Sample	K1866-11A	CVOL	Chloroform-d	87	78	121	%Rec
Y8181	Primary Sample	K1866-11A	CVOL	Toluene-d8	102	77	121	%Rec
Y8181	Primary Sample	K1866-11A	CVOL	trans-1,3-Dichloropropene-d4	90	73	121	%Rec
Y8181	Primary Sample	K1866-11A	CVOL	Vinyl chloride-d3	70	65	131	%Rec
Y81A1	Primary Sample	K1866-12A	CVOL	1,1,2,2-Tetrachloroethane-d2	88	73	125	%Rec
Y81A1	Primary Sample	K1866-12A	CVOL	1,1-Dichloroethene-d2	73	55	104	%Rec
Y81A1	Primary Sample	K1866-12A	CVOL	1,2-Dichlorobenzene-d4	85	80	131	%Rec
Y81A1	Primary Sample	K1866-12A	CVOL	1,2-Dichloroethane-d4	84	78	129	%Rec
Y81A1	Primary Sample	K1866-12A	CVOL	1,2-Dichloropropane-d6	93	79	124	%Rec
Y81A1	Primary Sample	K1866-12A	CVOL	2-Butanone-d5	71	49	155	%Rec
Y81A1	Primary Sample	K1866-12A	CVOL	2-Hexanone-d5	77	28	135	%Rec
Y81A1	Primary Sample	K1866-12A	CVOL	Benzene-d6	106	77	124	%Rec
Y81A1	Primary Sample	K1866-12A	CVOL	Chloroethane-d5	79	71	131	%Rec
Y81A1	Primary Sample	K1866-12A	CVOL	Chloroform-d	88	78	121	%Rec
Y81A1	Primary Sample	K1866-12A	CVOL	Toluene-d8	108	77	121	%Rec
Y81A1	Primary Sample	K1866-12A	CVOL	trans-1,3-Dichloropropene-d4	98	73	121	%Rec
Y81A1	Primary Sample	K1866-12A	CVOL	Vinyl chloride-d3	74	65	131	%Rec
Y81A2	Primary Sample	K1866-13A	CVOL	1,1,2,2-Tetrachloroethane-d2	98	73	125	%Rec
Y81A2	Primary Sample	K1866-13A	CVOL	1,1-Dichloroethene-d2	69	55	104	%Rec
Y81A2	Primary Sample	K1866-13A	CVOL	1,2-Dichlorobenzene-d4	102	80	131	%Rec
Y81A2	Primary Sample	K1866-13A	CVOL	1,2-Dichloroethane-d4	80	78	129	%Rec
Y81A2	Primary Sample	K1866-13A	CVOL	1,2-Dichloropropane-d6	92	79	124	%Rec
Y81A2	Primary Sample	K1866-13A	CVOL	2-Butanone-d5	71	49	155	%Rec
Y81A2	Primary Sample	K1866-13A	CVOL	2-Hexanone-d5	79	28	135	%Rec
Y81A2	Primary Sample	K1866-13A	CVOL	Benzene-d6	107	77	124	%Rec
Y81A2	Primary Sample	K1866-13A	CVOL	Chloroethane-d5	78	71	131	%Rec

Table 5-5A
Srrogate Summary, Third Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y81A2	Primary Sample	K1866-13A	CVOL	Chloroform-d	86	78	121	%Rec
Y81A2	Primary Sample	K1866-13A	CVOL	Toluene-d8	108	77	121	%Rec
Y81A2	Primary Sample	K1866-13A	CVOL	trans-1,3-Dichloropropene-d4	99	73	121	%Rec
Y81A2	Primary Sample	K1866-13A	CVOL	Vinyl chloride-d3	70	65	131	%Rec
Y81A3	Duplicate Sample	K1866-14A	CVOL	1,1,2,2-Tetrachloroethane-d2	89	73	125	%Rec
Y81A3	Duplicate Sample	K1866-14A	CVOL	1,1-Dichloroethene-d2	70	55	104	%Rec
Y81A3	Duplicate Sample	K1866-14A	CVOL	1,2-Dichlorobenzene-d4	86	80	131	%Rec
Y81A3	Duplicate Sample	K1866-14A	CVOL	1,2-Dichloroethane-d4	82	78	129	%Rec
Y81A3	Duplicate Sample	K1866-14A	CVOL	1,2-Dichloropropane-d6	88	79	124	%Rec
Y81A3	Duplicate Sample	K1866-14A	CVOL	2-Butanone-d5	73	49	155	%Rec
Y81A3	Duplicate Sample	K1866-14A	CVOL	2-Hexanone-d5	72	28	135	%Rec
Y81A3	Duplicate Sample	K1866-14A	CVOL	Benzene-d6	105	77	124	%Rec
Y81A3	Duplicate Sample	K1866-14A	CVOL	Chloroethane-d5	78	71	131	%Rec
Y81A3	Duplicate Sample	K1866-14A	CVOL	Chloroform-d	88	78	121	%Rec
Y81A3	Duplicate Sample	K1866-14A	CVOL	Toluene-d8	107	77	121	%Rec
Y81A3	Duplicate Sample	K1866-14A	CVOL	trans-1,3-Dichloropropene-d4	94	73	121	%Rec
Y81A3	Duplicate Sample	K1866-14A	CVOL	Vinyl chloride-d3	72	65	131	%Rec
Y81A7	Primary Sample	K1866-16A	CVOL	1,1,2,2-Tetrachloroethane-d2	93	73	125	%Rec
Y81A7	Primary Sample	K1866-16A	CVOL	1,1-Dichloroethene-d2	68	55	104	%Rec
Y81A7	Primary Sample	K1866-16A	CVOL	1,2-Dichlorobenzene-d4	103	80	131	%Rec
Y81A7	Primary Sample	K1866-16A	CVOL	1,2-Dichloroethane-d4	87	78	129	%Rec
Y81A7	Primary Sample	K1866-16A	CVOL	1,2-Dichloropropane-d6	91	79	124	%Rec
Y81A7	Primary Sample	K1866-16A	CVOL	2-Butanone-d5	71	49	155	%Rec
Y81A7	Primary Sample	K1866-16A	CVOL	2-Hexanone-d5	72	28	135	%Rec
Y81A7	Primary Sample	K1866-16A	CVOL	Benzene-d6	105	77	124	%Rec
Y81A7	Primary Sample	K1866-16A	CVOL	Chloroethane-d5	81	71	131	%Rec
Y81A7	Primary Sample	K1866-16A	CVOL	Chloroform-d	84	78	121	%Rec
Y81A7	Primary Sample	K1866-16A	CVOL	Toluene-d8	108	77	121	%Rec
Y81A7	Primary Sample	K1866-16A	CVOL	trans-1,3-Dichloropropene-d4	99	73	121	%Rec
Y81A7	Primary Sample	K1866-16A	CVOL	Vinyl chloride-d3	69	65	131	%Rec
Y81A8	Duplicate Sample	K1866-17A	CVOL	1,1,2,2-Tetrachloroethane-d2	102	73	125	%Rec
Y81A8	Duplicate Sample	K1866-17A	CVOL	1,1-Dichloroethene-d2	73	55	104	%Rec
Y81A8	Duplicate Sample	K1866-17A	CVOL	1,2-Dichlorobenzene-d4	88	80	131	%Rec
Y81A8	Duplicate Sample	K1866-17A	CVOL	1,2-Dichloroethane-d4	87	78	129	%Rec
Y81A8	Duplicate Sample	K1866-17A	CVOL	1,2-Dichloropropane-d6	92	79	124	%Rec
Y81A8	Duplicate Sample	K1866-17A	CVOL	2-Butanone-d5	75	49	155	%Rec
Y81A8	Duplicate Sample	K1866-17A	CVOL	2-Hexanone-d5	71	28	135	%Rec
Y81A8	Duplicate Sample	K1866-17A	CVOL	Benzene-d6	108	77	124	%Rec
Y81A8	Duplicate Sample	K1866-17A	CVOL	Chloroethane-d5	82	71	131	%Rec
Y81A8	Duplicate Sample	K1866-17A	CVOL	Chloroform-d	88	78	121	%Rec
Y81A8	Duplicate Sample	K1866-17A	CVOL	Toluene-d8	109	77	121	%Rec
Y81A8	Duplicate Sample	K1866-17A	CVOL	trans-1,3-Dichloropropene-d4	101	73	121	%Rec
Y81A8	Duplicate Sample	K1866-17A	CVOL	Vinyl chloride-d3	74	65	131	%Rec
Y81C1	Primary Sample	K1866-02A	CVOL	1,1,2,2-Tetrachloroethane-d2	97	73	125	%Rec
Y81C1	Primary Sample	K1866-02A	CVOL	1,1-Dichloroethene-d2	67	55	104	%Rec
Y81C1	Primary Sample	K1866-02A	CVOL	1,2-Dichlorobenzene-d4	100	80	131	%Rec
Y81C1	Primary Sample	K1866-02A	CVOL	1,2-Dichloroethane-d4	83	78	129	%Rec
Y81C1	Primary Sample	K1866-02A	CVOL	1,2-Dichloropropane-d6	91	79	124	%Rec
Y81C1	Primary Sample	K1866-02A	CVOL	2-Butanone-d5	75	49	155	%Rec
Y81C1	Primary Sample	K1866-02A	CVOL	2-Hexanone-d5	76	28	135	%Rec
Y81C1	Primary Sample	K1866-02A	CVOL	Benzene-d6	105	77	124	%Rec
Y81C1	Primary Sample	K1866-02A	CVOL	Chloroethane-d5	78	71	131	%Rec
Y81C1	Primary Sample	K1866-02A	CVOL	Chloroform-d	86	78	121	%Rec
Y81C1	Primary Sample	K1866-02A	CVOL	Toluene-d8	106	77	121	%Rec
Y81C1	Primary Sample	K1866-02A	CVOL	trans-1,3-Dichloropropene-d4	109	73	121	%Rec
Y81C1	Primary Sample	K1866-02A	CVOL	Vinyl chloride-d3	71	65	131	%Rec
Y81C1DL	Primary Sample	K1866-02ADL	CVOL	1,1,2,2-Tetrachloroethane-d2	94	73	125	%Rec
Y81C1DL	Primary Sample	K1866-02ADL	CVOL	1,1-Dichloroethene-d2	75	55	104	%Rec
Y81C1DL	Primary Sample	K1866-02ADL	CVOL	1,2-Dichlorobenzene-d4	98	80	131	%Rec
Y81C1DL	Primary Sample	K1866-02ADL	CVOL	1,2-Dichloroethane-d4	80	78	129	%Rec
Y81C1DL	Primary Sample	K1866-02ADL	CVOL	1,2-Dichloropropane-d6	89	79	124	%Rec
Y81C1DL	Primary Sample	K1866-02ADL	CVOL	2-Butanone-d5	77	49	155	%Rec
Y81C1DL	Primary Sample	K1866-02ADL	CVOL	2-Hexanone-d5	75	28	135	%Rec
Y81C1DL	Primary Sample	K1866-02ADL	CVOL	Benzene-d6	104	77	124	%Rec
Y81C1DL	Primary Sample	K1866-02ADL	CVOL	Chloroethane-d5	79	71	131	%Rec
Y81C1DL	Primary Sample	K1866-02ADL	CVOL	Chloroform-d	88	78	121	%Rec
Y81C1DL	Primary Sample	K1866-02ADL	CVOL	Toluene-d8	105	77	121	%Rec
Y81C1DL	Primary Sample	K1866-02ADL	CVOL	trans-1,3-Dichloropropene-d4	96	73	121	%Rec
Y81C1DL	Primary Sample	K1866-02ADL	CVOL	Vinyl chloride-d3	74	65	131	%Rec
Y81E5	Primary Sample	K1892-12A	CVOL	1,1,2,2-Tetrachloroethane-d2	137	73	125	%Rec
Y81E5	Primary Sample	K1892-12A	CVOL	1,1-Dichloroethene-d2	67	55	104	%Rec
Y81E5	Primary Sample	K1892-12A	CVOL	1,2-Dichlorobenzene-d4	103	80	131	%Rec
Y81E5	Primary Sample	K1892-12A	CVOL	1,2-Dichloroethane-d4	120	78	129	%Rec
Y81E5	Primary Sample	K1892-12A	CVOL	1,2-Dichloropropane-d6	99	79	124	%Rec
Y81E5	Primary Sample	K1892-12A	CVOL	2-Butanone-d5	116	49	155	%Rec
Y81E5	Primary Sample	K1892-12A	CVOL	2-Hexanone-d5	119	28	135	%Rec
Y81E5	Primary Sample	K1892-12A	CVOL	Benzene-d6	101	77	124	%Rec

Table 5-5A
Srrogate Summary, Third Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y81E5	Primary Sample	K1892-12A	CVOL	Chloroethane-d5	75	71	131	%Rec
Y81E5	Primary Sample	K1892-12A	CVOL	Chloroform-d	98	78	121	%Rec
Y81E5	Primary Sample	K1892-12A	CVOL	Toluene-d8	97	77	121	%Rec
Y81E5	Primary Sample	K1892-12A	CVOL	trans-1,3-Dichloropropene-d4	140	73	121	%Rec
Y81E5	Primary Sample	K1892-12A	CVOL	Vinyl chloride-d3	69	65	131	%Rec

Notes:

E524.2S = Method 524.2 SIM

CVOL = Method TVOL (Trace Volatiles) SOM01.2

%Rec = Percent recovery

QAQC = quality assurance/quality control

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
AW2A-A411	Primary Sample	1112023-01RE1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	79	70	130	%Rec
AW2B-A411	Primary Sample	1112022-01	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	86	70	130	%Rec
AW2B-A411	Primary Sample	1112022-01RE1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	94	70	130	%Rec
MW11A-A411	Primary Sample	1112018-01	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	95	70	130	%Rec
MW12A-A411	Primary Sample	1112023-02RE2	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	76	70	130	%Rec
MW12B-A411	Primary Sample	1112023-03	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	89	70	130	%Rec
MW13B-A411	Primary Sample	1112022-02	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	88	70	130	%Rec
MW13B-B411	Duplicate Sample	1112022-03	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	93	70	130	%Rec
MW13C-A411	Primary Sample	1112018-03	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	98	70	130	%Rec
MW7D-A411	Primary Sample	1112022-06	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	93	70	130	%Rec
OW11A-A411	Primary Sample	1112018-04	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	98	70	130	%Rec
OW12A-A411	Primary Sample	1112041-01	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	82	70	130	%Rec
OW12B-A411	Primary Sample	1112041-02	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	74	70	130	%Rec
OW14C-A411	Primary Sample	1112041-03	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	83	70	130	%Rec
OW15D-A411	Primary Sample	1112035-01	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	70	70	130	%Rec
OW18AR-A411	Primary Sample	1112018-05	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	95	70	130	%Rec
OW18BR-A411	Primary Sample	1112018-06	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	96	70	130	%Rec
OW18CR-A411	Primary Sample	1112018-07	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	95	70	130	%Rec
OW19C-A411	Primary Sample	1112035-02	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	72	70	130	%Rec
OW19C-B411	Duplicate Sample	1112035-03	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	75	70	130	%Rec
OW19D-A411	Primary Sample	1112035-05	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	75	70	130	%Rec
OW1C-A411	Primary Sample	1112018-08	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	94	70	130	%Rec
OW20B-A411	Primary Sample	1112041-04	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	78	70	130	%Rec
OW20C-A411	Primary Sample	1112041-05	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	78	70	130	%Rec
OW3A-A411	Primary Sample	1112041-06	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	75	70	130	%Rec
OW3B-A411	Primary Sample	1112041-07	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	78	70	130	%Rec
OW3C-A411	Primary Sample	1112041-08	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	78	70	130	%Rec
OW4A-A411	Primary Sample	1112035-06	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	70	70	130	%Rec
OW4B-A411	Primary Sample	1112035-07	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	72	70	130	%Rec
OW4C-A411	Primary Sample	1112035-08	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	72	70	130	%Rec
OW5A-A411	Primary Sample	1112035-09	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	94	70	130	%Rec
OW5B-A411	Primary Sample	1112035-10	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	96	70	130	%Rec
OW5C-A411	Primary Sample	1112035-11	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	92	70	130	%Rec
OW6A-A411	Primary Sample	1112041-09	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	75	70	130	%Rec
OW7A-A411	Primary Sample	1112022-07	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	84	70	130	%Rec
OW7B-A411	Primary Sample	1112022-08RE1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	82	70	130	%Rec
OW7C-A411	Primary Sample	1112022-09RE1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	91	70	130	%Rec
OW9A-A411	Primary Sample	1112041-10	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	93	70	130	%Rec
OW9A-B411	Duplicate Sample	1112041-11	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	96	70	130	%Rec
OW9B-A411	Primary Sample	1112041-13	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	95	70	130	%Rec
PC2B-A411	Primary Sample	1112022-10	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	96	70	130	%Rec
PC2C-A411	Primary Sample	1112022-11RE1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	71	70	130	%Rec
PW1A-A411	Primary Sample	1112009-01	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	97	70	130	%Rec
PW1B-A411	Primary Sample	1112009-02	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	94	70	130	%Rec
PW1B-B411	Duplicate Sample	1112009-03	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	89	70	130	%Rec
PW1C-A411	Primary Sample	1112009-05	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	91	70	130	%Rec
PW2A-A411	Primary Sample	1112009-06	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	89	70	130	%Rec
PW2B-A411	Primary Sample	1112009-07	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	91	70	130	%Rec
PW2C-A411	Primary Sample	1112009-08	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	92	70	130	%Rec
PW3A-A411	Primary Sample	1112009-09	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	92	70	130	%Rec
PW3B-A411	Primary Sample	1112009-10	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	94	70	130	%Rec
PW3C-A411	Primary Sample	1112009-11	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	91	70	130	%Rec
PW4A-A411	Primary Sample	1112010-01	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	95	70	130	%Rec
PW4B-A411	Primary Sample	1112010-02	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	91	70	130	%Rec
PW4C-A411	Primary Sample	1112010-03	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	91	70	130	%Rec
SB01-A411	Primary Sample	1112009-12	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	96	70	130	%Rec
SB02-A411	Primary Sample	1112041-14	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	94	70	130	%Rec
X10B-A411	Primary Sample	1112041-15	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	96	70	130	%Rec
X1C-A411	Primary Sample	1112022-12	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	88	70	130	%Rec
X2A-A411	Primary Sample	1112018-09	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	97	70	130	%Rec
X3A-A411	Primary Sample	1112023-05	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	90	70	130	%Rec
X3B-A411	Primary Sample	1112023-06	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	89	70	130	%Rec
X4A-A411	Primary Sample	1112018-10	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	97	70	130	%Rec
X4B-A411	Primary Sample	1112018-11	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	91	70	130	%Rec
X5A-A411	Primary Sample	1112035-12	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	91	70	130	%Rec
X5B-A411	Primary Sample	1112035-13	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	91	70	130	%Rec
X5C-A411	Primary Sample	1112035-14	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	90	70	130	%Rec
X5C-B411	Duplicate Sample	1112035-15	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	92	70	130	%Rec
X6A-A411	Primary Sample	1112022-13	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	90	70	130	%Rec
X6A-A411	Primary Sample	1112022-13RE1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	91	70	130	%Rec
X8B-A411	Primary Sample	1112044-02	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	92	70	130	%Rec
X9B-A411	Primary Sample	1112010-05	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	93	70	130	%Rec
Y84B3	Primary Sample	0015046-01	CVOL	1,1,2,2-Tetrachloroethane-d2	68	73	125	%Rec
Y84B3	Primary Sample	0015046-01	CVOL	1,1-Dichloroethene-d2	79	55	104	%Rec
Y84B3	Primary Sample	0015046-01	CVOL	1,2-Dichlorobenzene-d4	99	80	131	%Rec
Y84B3	Primary Sample	0015046-01	CVOL	1,2-Dichloroethane-d4	76	78	129	%Rec
Y84B3	Primary Sample	0015046-01	CVOL	1,2-Dichloropropane-d6	89	79	124	%Rec

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y84B3	Primary Sample	0015046-01	CVOL	2-Butanone-d5	60	49	155	%Rec
Y84B3	Primary Sample	0015046-01	CVOL	2-Hexanone-d5	58	28	135	%Rec
Y84B3	Primary Sample	0015046-01	CVOL	Benzene-d6	102	77	124	%Rec
Y84B3	Primary Sample	0015046-01	CVOL	Chloroethane-d5	130	71	131	%Rec
Y84B3	Primary Sample	0015046-01	CVOL	Chloroform-d	91	78	121	%Rec
Y84B3	Primary Sample	0015046-01	CVOL	Toluene-d8	103	77	121	%Rec
Y84B3	Primary Sample	0015046-01	CVOL	trans-1,3-Dichloropropene-d4	79	73	121	%Rec
Y84B3	Primary Sample	0015046-01	CVOL	Vinyl Chloride-d3	115	65	131	%Rec
Y84B4	Primary Sample	0015040-01	CVOL	1,1,2,2-Tetrachloroethane-d2	68	73	125	%Rec
Y84B4	Primary Sample	0015040-01	CVOL	1,1-Dichloroethene-d2	84	55	104	%Rec
Y84B4	Primary Sample	0015040-01	CVOL	1,2-Dichlorobenzene-d4	98	80	131	%Rec
Y84B4	Primary Sample	0015040-01	CVOL	1,2-Dichloroethane-d4	77	78	129	%Rec
Y84B4	Primary Sample	0015040-01	CVOL	1,2-Dichloropropane-d6	92	79	124	%Rec
Y84B4	Primary Sample	0015040-01	CVOL	2-Butanone-d5	62	49	155	%Rec
Y84B4	Primary Sample	0015040-01	CVOL	2-Hexanone-d5	58	28	135	%Rec
Y84B4	Primary Sample	0015040-01	CVOL	Benzene-d6	105	77	124	%Rec
Y84B4	Primary Sample	0015040-01	CVOL	Chloroethane-d5	137	71	131	%Rec
Y84B4	Primary Sample	0015040-01	CVOL	Chloroform-d	94	78	121	%Rec
Y84B4	Primary Sample	0015040-01	CVOL	Toluene-d8	107	77	121	%Rec
Y84B4	Primary Sample	0015040-01	CVOL	trans-1,3-Dichloropropene-d4	80	73	121	%Rec
Y84B4	Primary Sample	0015040-01	CVOL	Vinyl Chloride-d3	118	65	131	%Rec
Y84B5	Primary Sample	0015046-02	CVOL	1,1,2,2-Tetrachloroethane-d2	70	73	125	%Rec
Y84B5	Primary Sample	0015046-02	CVOL	1,1-Dichloroethene-d2	84	55	104	%Rec
Y84B5	Primary Sample	0015046-02	CVOL	1,2-Dichlorobenzene-d4	100	80	131	%Rec
Y84B5	Primary Sample	0015046-02	CVOL	1,2-Dichloroethane-d4	81	78	129	%Rec
Y84B5	Primary Sample	0015046-02	CVOL	1,2-Dichloropropane-d6	95	79	124	%Rec
Y84B5	Primary Sample	0015046-02	CVOL	2-Butanone-d5	62	49	155	%Rec
Y84B5	Primary Sample	0015046-02	CVOL	2-Hexanone-d5	61	28	135	%Rec
Y84B5	Primary Sample	0015046-02	CVOL	Benzene-d6	109	77	124	%Rec
Y84B5	Primary Sample	0015046-02	CVOL	Chloroethane-d5	142	71	131	%Rec
Y84B5	Primary Sample	0015046-02	CVOL	Chloroform-d	98	78	121	%Rec
Y84B5	Primary Sample	0015046-02	CVOL	Toluene-d8	109	77	121	%Rec
Y84B5	Primary Sample	0015046-02	CVOL	trans-1,3-Dichloropropene-d4	84	73	121	%Rec
Y84B5	Primary Sample	0015046-02	CVOL	Vinyl Chloride-d3	120	65	131	%Rec
Y84B5DL	Primary Sample	0015046-02RE1	CVOL	1,1,2,2-Tetrachloroethane-d2	88	73	125	%Rec
Y84B5DL	Primary Sample	0015046-02RE1	CVOL	1,1-Dichloroethene-d2	80	55	104	%Rec
Y84B5DL	Primary Sample	0015046-02RE1	CVOL	1,2-Dichlorobenzene-d4	105	80	131	%Rec
Y84B5DL	Primary Sample	0015046-02RE1	CVOL	1,2-Dichloroethane-d4	96	78	129	%Rec
Y84B5DL	Primary Sample	0015046-02RE1	CVOL	1,2-Dichloropropane-d6	96	79	124	%Rec
Y84B5DL	Primary Sample	0015046-02RE1	CVOL	2-Butanone-d5	97	49	155	%Rec
Y84B5DL	Primary Sample	0015046-02RE1	CVOL	2-Hexanone-d5	79	28	135	%Rec
Y84B5DL	Primary Sample	0015046-02RE1	CVOL	Benzene-d6	103	77	124	%Rec
Y84B5DL	Primary Sample	0015046-02RE1	CVOL	Chloroethane-d5	134	71	131	%Rec
Y84B5DL	Primary Sample	0015046-02RE1	CVOL	Chloroform-d	102	78	121	%Rec
Y84B5DL	Primary Sample	0015046-02RE1	CVOL	Toluene-d8	104	77	121	%Rec
Y84B5DL	Primary Sample	0015046-02RE1	CVOL	trans-1,3-Dichloropropene-d4	97	73	121	%Rec
Y84B5DL	Primary Sample	0015046-02RE1	CVOL	Vinyl Chloride-d3	108	65	131	%Rec
Y84B6	Primary Sample	0015040-02	CVOL	1,1,2,2-Tetrachloroethane-d2	73	73	125	%Rec
Y84B6	Primary Sample	0015040-02	CVOL	1,1-Dichloroethene-d2	74	55	104	%Rec
Y84B6	Primary Sample	0015040-02	CVOL	1,2-Dichlorobenzene-d4	102	80	131	%Rec
Y84B6	Primary Sample	0015040-02	CVOL	1,2-Dichloroethane-d4	88	78	129	%Rec
Y84B6	Primary Sample	0015040-02	CVOL	1,2-Dichloropropane-d6	98	79	124	%Rec
Y84B6	Primary Sample	0015040-02	CVOL	2-Butanone-d5	89	49	155	%Rec
Y84B6	Primary Sample	0015040-02	CVOL	2-Hexanone-d5	78	28	135	%Rec
Y84B6	Primary Sample	0015040-02	CVOL	Benzene-d6	104	77	124	%Rec
Y84B6	Primary Sample	0015040-02	CVOL	Chloroethane-d5	126	71	131	%Rec
Y84B6	Primary Sample	0015040-02	CVOL	Chloroform-d	97	78	121	%Rec
Y84B6	Primary Sample	0015040-02	CVOL	Toluene-d8	104	77	121	%Rec
Y84B6	Primary Sample	0015040-02	CVOL	trans-1,3-Dichloropropene-d4	79	73	121	%Rec
Y84B6	Primary Sample	0015040-02	CVOL	Vinyl Chloride-d3	127	65	131	%Rec
Y84B6DL	Primary Sample	0015040-02RE1	CVOL	1,1,2,2-Tetrachloroethane-d2	85	73	125	%Rec
Y84B6DL	Primary Sample	0015040-02RE1	CVOL	1,1-Dichloroethene-d2	74	55	104	%Rec
Y84B6DL	Primary Sample	0015040-02RE1	CVOL	1,2-Dichlorobenzene-d4	101	80	131	%Rec
Y84B6DL	Primary Sample	0015040-02RE1	CVOL	1,2-Dichloroethane-d4	93	78	129	%Rec
Y84B6DL	Primary Sample	0015040-02RE1	CVOL	1,2-Dichloropropane-d6	95	79	124	%Rec
Y84B6DL	Primary Sample	0015040-02RE1	CVOL	2-Butanone-d5	94	49	155	%Rec
Y84B6DL	Primary Sample	0015040-02RE1	CVOL	2-Hexanone-d5	81	28	135	%Rec
Y84B6DL	Primary Sample	0015040-02RE1	CVOL	Benzene-d6	100	77	124	%Rec
Y84B6DL	Primary Sample	0015040-02RE1	CVOL	Chloroethane-d5	125	71	131	%Rec
Y84B6DL	Primary Sample	0015040-02RE1	CVOL	Chloroform-d	96	78	121	%Rec
Y84B6DL	Primary Sample	0015040-02RE1	CVOL	Toluene-d8	99	77	121	%Rec
Y84B6DL	Primary Sample	0015040-02RE1	CVOL	trans-1,3-Dichloropropene-d4	97	73	121	%Rec
Y84B6DL	Primary Sample	0015040-02RE1	CVOL	Vinyl Chloride-d3	100	65	131	%Rec
Y84B7	Duplicate Sample	0015040-03	CVOL	1,1,2,2-Tetrachloroethane-d2	72	73	125	%Rec
Y84B7	Duplicate Sample	0015040-03	CVOL	1,1-Dichloroethene-d2	77	55	104	%Rec
Y84B7	Duplicate Sample	0015040-03	CVOL	1,2-Dichlorobenzene-d4	97	80	131	%Rec
Y84B7	Duplicate Sample	0015040-03	CVOL	1,2-Dichloroethane-d4	80	78	129	%Rec

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y84B7	Duplicate Sample	0015040-03	CVOL	1,2-Dichloropropane-d6	90	79	124	%Rec
Y84B7	Duplicate Sample	0015040-03	CVOL	2-Butanone-d5	77	49	155	%Rec
Y84B7	Duplicate Sample	0015040-03	CVOL	2-Hexanone-d5	71	28	135	%Rec
Y84B7	Duplicate Sample	0015040-03	CVOL	Benzene-d6	101	77	124	%Rec
Y84B7	Duplicate Sample	0015040-03	CVOL	Chloroethane-d5	118	71	131	%Rec
Y84B7	Duplicate Sample	0015040-03	CVOL	Chloroform-d	92	78	121	%Rec
Y84B7	Duplicate Sample	0015040-03	CVOL	Toluene-d8	102	77	121	%Rec
Y84B7	Duplicate Sample	0015040-03	CVOL	trans-1,3-Dichloropropene-d4	86	73	121	%Rec
Y84B7	Duplicate Sample	0015040-03	CVOL	Vinyl Chloride-d3	97	65	131	%Rec
Y84B7DL	Duplicate Sample	0015040-03RE1	CVOL	1,1,2,2-Tetrachloroethane-d2	78	73	125	%Rec
Y84B7DL	Duplicate Sample	0015040-03RE1	CVOL	1,1-Dichloroethene-d2	79	55	104	%Rec
Y84B7DL	Duplicate Sample	0015040-03RE1	CVOL	1,2-Dichlorobenzene-d4	102	80	131	%Rec
Y84B7DL	Duplicate Sample	0015040-03RE1	CVOL	1,2-Dichloroethane-d4	87	78	129	%Rec
Y84B7DL	Duplicate Sample	0015040-03RE1	CVOL	1,2-Dichloropropane-d6	95	79	124	%Rec
Y84B7DL	Duplicate Sample	0015040-03RE1	CVOL	2-Butanone-d5	81	49	155	%Rec
Y84B7DL	Duplicate Sample	0015040-03RE1	CVOL	2-Hexanone-d5	70	28	135	%Rec
Y84B7DL	Duplicate Sample	0015040-03RE1	CVOL	Benzene-d6	102	77	124	%Rec
Y84B7DL	Duplicate Sample	0015040-03RE1	CVOL	Chloroethane-d5	128	71	131	%Rec
Y84B7DL	Duplicate Sample	0015040-03RE1	CVOL	Chloroform-d	97	78	121	%Rec
Y84B7DL	Duplicate Sample	0015040-03RE1	CVOL	Toluene-d8	104	77	121	%Rec
Y84B7DL	Duplicate Sample	0015040-03RE1	CVOL	trans-1,3-Dichloropropene-d4	91	73	121	%Rec
Y84B7DL	Duplicate Sample	0015040-03RE1	CVOL	Vinyl Chloride-d3	105	65	131	%Rec
Y84B9	Primary Sample	0015040-05	CVOL	1,1,2,2-Tetrachloroethane-d2	67	73	125	%Rec
Y84B9	Primary Sample	0015040-05	CVOL	1,1-Dichloroethene-d2	78	55	104	%Rec
Y84B9	Primary Sample	0015040-05	CVOL	1,2-Dichlorobenzene-d4	99	80	131	%Rec
Y84B9	Primary Sample	0015040-05	CVOL	1,2-Dichloroethane-d4	78	78	129	%Rec
Y84B9	Primary Sample	0015040-05	CVOL	1,2-Dichloropropane-d6	91	79	124	%Rec
Y84B9	Primary Sample	0015040-05	CVOL	2-Butanone-d5	61	49	155	%Rec
Y84B9	Primary Sample	0015040-05	CVOL	2-Hexanone-d5	57	28	135	%Rec
Y84B9	Primary Sample	0015040-05	CVOL	Benzene-d6	103	77	124	%Rec
Y84B9	Primary Sample	0015040-05	CVOL	Chloroethane-d5	125	71	131	%Rec
Y84B9	Primary Sample	0015040-05	CVOL	Chloroform-d	92	78	121	%Rec
Y84B9	Primary Sample	0015040-05	CVOL	Toluene-d8	105	77	121	%Rec
Y84B9	Primary Sample	0015040-05	CVOL	trans-1,3-Dichloropropene-d4	81	73	121	%Rec
Y84B9	Primary Sample	0015040-05	CVOL	Vinyl Chloride-d3	103	65	131	%Rec
Y84C0	Primary Sample	0015031-01	CVOL	1,1,2,2-Tetrachloroethane-d2	75	73	125	%Rec
Y84C0	Primary Sample	0015031-01	CVOL	1,1-Dichloroethene-d2	74	55	104	%Rec
Y84C0	Primary Sample	0015031-01	CVOL	1,2-Dichlorobenzene-d4	99	80	131	%Rec
Y84C0	Primary Sample	0015031-01	CVOL	1,2-Dichloroethane-d4	91	78	129	%Rec
Y84C0	Primary Sample	0015031-01	CVOL	1,2-Dichloropropane-d6	97	79	124	%Rec
Y84C0	Primary Sample	0015031-01	CVOL	2-Butanone-d5	91	49	155	%Rec
Y84C0	Primary Sample	0015031-01	CVOL	2-Hexanone-d5	77	28	135	%Rec
Y84C0	Primary Sample	0015031-01	CVOL	Benzene-d6	95	77	124	%Rec
Y84C0	Primary Sample	0015031-01	CVOL	Chloroethane-d5	126	71	131	%Rec
Y84C0	Primary Sample	0015031-01	CVOL	Chloroform-d	95	78	121	%Rec
Y84C0	Primary Sample	0015031-01	CVOL	Toluene-d8	99	77	121	%Rec
Y84C0	Primary Sample	0015031-01	CVOL	trans-1,3-Dichloropropene-d4	88	73	121	%Rec
Y84C0	Primary Sample	0015031-01	CVOL	Vinyl Chloride-d3	117	65	131	%Rec
Y84C1	Primary Sample	0015031-02	CVOL	1,1,2,2-Tetrachloroethane-d2	81	73	125	%Rec
Y84C1	Primary Sample	0015031-02	CVOL	1,1-Dichloroethene-d2	82	55	104	%Rec
Y84C1	Primary Sample	0015031-02	CVOL	1,2-Dichlorobenzene-d4	101	80	131	%Rec
Y84C1	Primary Sample	0015031-02	CVOL	1,2-Dichloroethane-d4	97	78	129	%Rec
Y84C1	Primary Sample	0015031-02	CVOL	1,2-Dichloropropane-d6	104	79	124	%Rec
Y84C1	Primary Sample	0015031-02	CVOL	2-Butanone-d5	94	49	155	%Rec
Y84C1	Primary Sample	0015031-02	CVOL	2-Hexanone-d5	85	28	135	%Rec
Y84C1	Primary Sample	0015031-02	CVOL	Benzene-d6	101	77	124	%Rec
Y84C1	Primary Sample	0015031-02	CVOL	Chloroethane-d5	149	71	131	%Rec
Y84C1	Primary Sample	0015031-02	CVOL	Chloroform-d	99	78	121	%Rec
Y84C1	Primary Sample	0015031-02	CVOL	Toluene-d8	103	77	121	%Rec
Y84C1	Primary Sample	0015031-02	CVOL	trans-1,3-Dichloropropene-d4	95	73	121	%Rec
Y84C1	Primary Sample	0015031-02	CVOL	Vinyl Chloride-d3	121	65	131	%Rec
Y84C1DL	Primary Sample	0015031-02RE1	CVOL	1,1,2,2-Tetrachloroethane-d2	84	73	125	%Rec
Y84C1DL	Primary Sample	0015031-02RE1	CVOL	1,1-Dichloroethene-d2	75	55	104	%Rec
Y84C1DL	Primary Sample	0015031-02RE1	CVOL	1,2-Dichlorobenzene-d4	99	80	131	%Rec
Y84C1DL	Primary Sample	0015031-02RE1	CVOL	1,2-Dichloroethane-d4	107	78	129	%Rec
Y84C1DL	Primary Sample	0015031-02RE1	CVOL	1,2-Dichloropropane-d6	93	79	124	%Rec
Y84C1DL	Primary Sample	0015031-02RE1	CVOL	2-Butanone-d5	116	49	155	%Rec
Y84C1DL	Primary Sample	0015031-02RE1	CVOL	2-Hexanone-d5	96	28	135	%Rec
Y84C1DL	Primary Sample	0015031-02RE1	CVOL	Benzene-d6	95	77	124	%Rec
Y84C1DL	Primary Sample	0015031-02RE1	CVOL	Chloroethane-d5	131	71	131	%Rec
Y84C1DL	Primary Sample	0015031-02RE1	CVOL	Chloroform-d	99	78	121	%Rec
Y84C1DL	Primary Sample	0015031-02RE1	CVOL	Toluene-d8	96	77	121	%Rec
Y84C1DL	Primary Sample	0015031-02RE1	CVOL	trans-1,3-Dichloropropene-d4	96	73	121	%Rec
Y84C1DL	Primary Sample	0015031-02RE1	CVOL	Vinyl Chloride-d3	127	65	131	%Rec
Y84C2	Primary Sample	0015031-03	CVOL	1,1,2,2-Tetrachloroethane-d2	75	73	125	%Rec
Y84C2	Primary Sample	0015031-03	CVOL	1,1-Dichloroethene-d2	76	55	104	%Rec
Y84C2	Primary Sample	0015031-03	CVOL	1,2-Dichlorobenzene-d4	100	80	131	%Rec

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y84C2	Primary Sample	0015031-03	CVOL	1,2-Dichloroethane-d4	92	78	129	%Rec
Y84C2	Primary Sample	0015031-03	CVOL	1,2-Dichloropropane-d6	91	79	124	%Rec
Y84C2	Primary Sample	0015031-03	CVOL	2-Butanone-d5	89	49	155	%Rec
Y84C2	Primary Sample	0015031-03	CVOL	2-Hexanone-d5	79	28	135	%Rec
Y84C2	Primary Sample	0015031-03	CVOL	Benzene-d6	100	77	124	%Rec
Y84C2	Primary Sample	0015031-03	CVOL	Chloroethane-d5	141	71	131	%Rec
Y84C2	Primary Sample	0015031-03	CVOL	Chloroform-d	95	78	121	%Rec
Y84C2	Primary Sample	0015031-03	CVOL	Toluene-d8	105	77	121	%Rec
Y84C2	Primary Sample	0015031-03	CVOL	trans-1,3-Dichloropropene-d4	83	73	121	%Rec
Y84C2	Primary Sample	0015031-03	CVOL	Vinyl Chloride-d3	147	65	131	%Rec
Y84C3	Primary Sample	0015031-04	CVOL	1,1,2,2-Tetrachloroethane-d2	63	73	125	%Rec
Y84C3	Primary Sample	0015031-04	CVOL	1,1-Dichloroethene-d2	80	55	104	%Rec
Y84C3	Primary Sample	0015031-04	CVOL	1,2-Dichlorobenzene-d4	97	80	131	%Rec
Y84C3	Primary Sample	0015031-04	CVOL	1,2-Dichloroethane-d4	85	78	129	%Rec
Y84C3	Primary Sample	0015031-04	CVOL	1,2-Dichloropropane-d6	92	79	124	%Rec
Y84C3	Primary Sample	0015031-04	CVOL	2-Butanone-d5	64	49	155	%Rec
Y84C3	Primary Sample	0015031-04	CVOL	2-Hexanone-d5	60	28	135	%Rec
Y84C3	Primary Sample	0015031-04	CVOL	Benzene-d6	104	77	124	%Rec
Y84C3	Primary Sample	0015031-04	CVOL	Chloroethane-d5	142	71	131	%Rec
Y84C3	Primary Sample	0015031-04	CVOL	Chloroform-d	94	78	121	%Rec
Y84C3	Primary Sample	0015031-04	CVOL	Toluene-d8	107	77	121	%Rec
Y84C3	Primary Sample	0015031-04	CVOL	trans-1,3-Dichloropropene-d4	74	73	121	%Rec
Y84C3	Primary Sample	0015031-04	CVOL	Vinyl Chloride-d3	149	65	131	%Rec
Y84C4	Duplicate Sample	0015031-05	CVOL	1,1,2,2-Tetrachloroethane-d2	74	73	125	%Rec
Y84C4	Duplicate Sample	0015031-05	CVOL	1,1-Dichloroethene-d2	75	55	104	%Rec
Y84C4	Duplicate Sample	0015031-05	CVOL	1,2-Dichlorobenzene-d4	96	80	131	%Rec
Y84C4	Duplicate Sample	0015031-05	CVOL	1,2-Dichloroethane-d4	90	78	129	%Rec
Y84C4	Duplicate Sample	0015031-05	CVOL	1,2-Dichloropropane-d6	93	79	124	%Rec
Y84C4	Duplicate Sample	0015031-05	CVOL	2-Butanone-d5	86	49	155	%Rec
Y84C4	Duplicate Sample	0015031-05	CVOL	2-Hexanone-d5	77	28	135	%Rec
Y84C4	Duplicate Sample	0015031-05	CVOL	Benzene-d6	103	77	124	%Rec
Y84C4	Duplicate Sample	0015031-05	CVOL	Chloroethane-d5	144	71	131	%Rec
Y84C4	Duplicate Sample	0015031-05	CVOL	Chloroform-d	97	78	121	%Rec
Y84C4	Duplicate Sample	0015031-05	CVOL	Toluene-d8	106	77	121	%Rec
Y84C4	Duplicate Sample	0015031-05	CVOL	trans-1,3-Dichloropropene-d4	85	73	121	%Rec
Y84C4	Duplicate Sample	0015031-05	CVOL	Vinyl Chloride-d3	143	65	131	%Rec
Y84C6	Primary Sample	0015046-03	CVOL	1,1,2,2-Tetrachloroethane-d2	72	73	125	%Rec
Y84C6	Primary Sample	0015046-03	CVOL	1,1-Dichloroethene-d2	71	55	104	%Rec
Y84C6	Primary Sample	0015046-03	CVOL	1,2-Dichlorobenzene-d4	96	80	131	%Rec
Y84C6	Primary Sample	0015046-03	CVOL	1,2-Dichloroethane-d4	85	78	129	%Rec
Y84C6	Primary Sample	0015046-03	CVOL	1,2-Dichloropropane-d6	89	79	124	%Rec
Y84C6	Primary Sample	0015046-03	CVOL	2-Butanone-d5	78	49	155	%Rec
Y84C6	Primary Sample	0015046-03	CVOL	2-Hexanone-d5	71	28	135	%Rec
Y84C6	Primary Sample	0015046-03	CVOL	Benzene-d6	98	77	124	%Rec
Y84C6	Primary Sample	0015046-03	CVOL	Chloroethane-d5	132	71	131	%Rec
Y84C6	Primary Sample	0015046-03	CVOL	Chloroform-d	94	78	121	%Rec
Y84C6	Primary Sample	0015046-03	CVOL	Toluene-d8	99	77	121	%Rec
Y84C6	Primary Sample	0015046-03	CVOL	trans-1,3-Dichloropropene-d4	81	73	121	%Rec
Y84C6	Primary Sample	0015046-03	CVOL	Vinyl Chloride-d3	131	65	131	%Rec
Y84C7	Primary Sample	0015046-04	CVOL	1,1,2,2-Tetrachloroethane-d2	78	73	125	%Rec
Y84C7	Primary Sample	0015046-04	CVOL	1,1-Dichloroethene-d2	80	55	104	%Rec
Y84C7	Primary Sample	0015046-04	CVOL	1,2-Dichlorobenzene-d4	101	80	131	%Rec
Y84C7	Primary Sample	0015046-04	CVOL	1,2-Dichloroethane-d4	93	78	129	%Rec
Y84C7	Primary Sample	0015046-04	CVOL	1,2-Dichloropropane-d6	98	79	124	%Rec
Y84C7	Primary Sample	0015046-04	CVOL	2-Butanone-d5	85	49	155	%Rec
Y84C7	Primary Sample	0015046-04	CVOL	2-Hexanone-d5	79	28	135	%Rec
Y84C7	Primary Sample	0015046-04	CVOL	Benzene-d6	100	77	124	%Rec
Y84C7	Primary Sample	0015046-04	CVOL	Chloroethane-d5	136	71	131	%Rec
Y84C7	Primary Sample	0015046-04	CVOL	Chloroform-d	99	78	121	%Rec
Y84C7	Primary Sample	0015046-04	CVOL	Toluene-d8	102	77	121	%Rec
Y84C7	Primary Sample	0015046-04	CVOL	trans-1,3-Dichloropropene-d4	85	73	121	%Rec
Y84C7	Primary Sample	0015046-04	CVOL	Vinyl Chloride-d3	137	65	131	%Rec
Y84C8	Primary Sample	0015040-06	CVOL	1,1,2,2-Tetrachloroethane-d2	71	73	125	%Rec
Y84C8	Primary Sample	0015040-06	CVOL	1,1-Dichloroethene-d2	76	55	104	%Rec
Y84C8	Primary Sample	0015040-06	CVOL	1,2-Dichlorobenzene-d4	99	80	131	%Rec
Y84C8	Primary Sample	0015040-06	CVOL	1,2-Dichloroethane-d4	79	78	129	%Rec
Y84C8	Primary Sample	0015040-06	CVOL	1,2-Dichloropropane-d6	91	79	124	%Rec
Y84C8	Primary Sample	0015040-06	CVOL	2-Butanone-d5	73	49	155	%Rec
Y84C8	Primary Sample	0015040-06	CVOL	2-Hexanone-d5	66	28	135	%Rec
Y84C8	Primary Sample	0015040-06	CVOL	Benzene-d6	103	77	124	%Rec
Y84C8	Primary Sample	0015040-06	CVOL	Chloroethane-d5	121	71	131	%Rec
Y84C8	Primary Sample	0015040-06	CVOL	Chloroform-d	93	78	121	%Rec
Y84C8	Primary Sample	0015040-06	CVOL	Toluene-d8	104	77	121	%Rec
Y84C8	Primary Sample	0015040-06	CVOL	trans-1,3-Dichloropropene-d4	85	73	121	%Rec
Y84C8	Primary Sample	0015040-06	CVOL	Vinyl Chloride-d3	101	65	131	%Rec
Y84C9	Duplicate Sample	0015040-07	CVOL	1,1,2,2-Tetrachloroethane-d2	72	73	125	%Rec
Y84C9	Duplicate Sample	0015040-07	CVOL	1,1-Dichloroethene-d2	82	55	104	%Rec

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y84C9	Duplicate Sample	0015040-07	CVOL	1,2-Dichlorobenzene-d4	102	80	131	%Rec
Y84C9	Duplicate Sample	0015040-07	CVOL	1,2-Dichloroethane-d4	81	78	129	%Rec
Y84C9	Duplicate Sample	0015040-07	CVOL	1,2-Dichloropropane-d6	93	79	124	%Rec
Y84C9	Duplicate Sample	0015040-07	CVOL	2-Butanone-d5	73	49	155	%Rec
Y84C9	Duplicate Sample	0015040-07	CVOL	2-Hexanone-d5	63	28	135	%Rec
Y84C9	Duplicate Sample	0015040-07	CVOL	Benzene-d6	108	77	124	%Rec
Y84C9	Duplicate Sample	0015040-07	CVOL	Chloroethane-d5	128	71	131	%Rec
Y84C9	Duplicate Sample	0015040-07	CVOL	Chloroform-d	97	78	121	%Rec
Y84C9	Duplicate Sample	0015040-07	CVOL	Toluene-d8	110	77	121	%Rec
Y84C9	Duplicate Sample	0015040-07	CVOL	trans-1,3-Dichloropropene-d4	89	73	121	%Rec
Y84C9	Duplicate Sample	0015040-07	CVOL	Vinyl Chloride-d3	109	65	131	%Rec
Y84D1	Primary Sample	0015031-07	CVOL	1,1,2,2-Tetrachloroethane-d2	60	73	125	%Rec
Y84D1	Primary Sample	0015031-07	CVOL	1,1-Dichloroethene-d2	77	55	104	%Rec
Y84D1	Primary Sample	0015031-07	CVOL	1,2-Dichlorobenzene-d4	102	80	131	%Rec
Y84D1	Primary Sample	0015031-07	CVOL	1,2-Dichloroethane-d4	82	78	129	%Rec
Y84D1	Primary Sample	0015031-07	CVOL	1,2-Dichloropropane-d6	86	79	124	%Rec
Y84D1	Primary Sample	0015031-07	CVOL	2-Butanone-d5	71	49	155	%Rec
Y84D1	Primary Sample	0015031-07	CVOL	2-Hexanone-d5	65	28	135	%Rec
Y84D1	Primary Sample	0015031-07	CVOL	Benzene-d6	94	77	124	%Rec
Y84D1	Primary Sample	0015031-07	CVOL	Chloroethane-d5	120	71	131	%Rec
Y84D1	Primary Sample	0015031-07	CVOL	Chloroform-d	90	78	121	%Rec
Y84D1	Primary Sample	0015031-07	CVOL	Toluene-d8	98	77	121	%Rec
Y84D1	Primary Sample	0015031-07	CVOL	trans-1,3-Dichloropropene-d4	77	73	121	%Rec
Y84D1	Primary Sample	0015031-07	CVOL	Vinyl Chloride-d3	124	65	131	%Rec
Y84D2	Primary Sample	0015031-08	CVOL	1,1,2,2-Tetrachloroethane-d2	75	73	125	%Rec
Y84D2	Primary Sample	0015031-08	CVOL	1,1-Dichloroethene-d2	76	55	104	%Rec
Y84D2	Primary Sample	0015031-08	CVOL	1,2-Dichlorobenzene-d4	97	80	131	%Rec
Y84D2	Primary Sample	0015031-08	CVOL	1,2-Dichloroethane-d4	88	78	129	%Rec
Y84D2	Primary Sample	0015031-08	CVOL	1,2-Dichloropropane-d6	93	79	124	%Rec
Y84D2	Primary Sample	0015031-08	CVOL	2-Butanone-d5	84	49	155	%Rec
Y84D2	Primary Sample	0015031-08	CVOL	2-Hexanone-d5	75	28	135	%Rec
Y84D2	Primary Sample	0015031-08	CVOL	Benzene-d6	100	77	124	%Rec
Y84D2	Primary Sample	0015031-08	CVOL	Chloroethane-d5	122	71	131	%Rec
Y84D2	Primary Sample	0015031-08	CVOL	Chloroform-d	96	78	121	%Rec
Y84D2	Primary Sample	0015031-08	CVOL	Toluene-d8	102	77	121	%Rec
Y84D2	Primary Sample	0015031-08	CVOL	trans-1,3-Dichloropropene-d4	90	73	121	%Rec
Y84D2	Primary Sample	0015031-08	CVOL	Vinyl Chloride-d3	120	65	131	%Rec
Y84D3	Primary Sample	0015085-01	CVOL	1,1,2,2-Tetrachloroethane-d2	76	73	125	%Rec
Y84D3	Primary Sample	0015085-01	CVOL	1,1-Dichloroethene-d2	74	55	104	%Rec
Y84D3	Primary Sample	0015085-01	CVOL	1,2-Dichlorobenzene-d4	101	80	131	%Rec
Y84D3	Primary Sample	0015085-01	CVOL	1,2-Dichloroethane-d4	78	78	129	%Rec
Y84D3	Primary Sample	0015085-01	CVOL	1,2-Dichloropropane-d6	86	79	124	%Rec
Y84D3	Primary Sample	0015085-01	CVOL	2-Butanone-d5	77	49	155	%Rec
Y84D3	Primary Sample	0015085-01	CVOL	2-Hexanone-d5	74	28	135	%Rec
Y84D3	Primary Sample	0015085-01	CVOL	Benzene-d6	100	77	124	%Rec
Y84D3	Primary Sample	0015085-01	CVOL	Chloroethane-d5	119	71	131	%Rec
Y84D3	Primary Sample	0015085-01	CVOL	Chloroform-d	91	78	121	%Rec
Y84D3	Primary Sample	0015085-01	CVOL	Toluene-d8	102	77	121	%Rec
Y84D3	Primary Sample	0015085-01	CVOL	trans-1,3-Dichloropropene-d4	84	73	121	%Rec
Y84D3	Primary Sample	0015085-01	CVOL	Vinyl Chloride-d3	103	65	131	%Rec
Y84D4	Primary Sample	0015085-02	CVOL	1,1,2,2-Tetrachloroethane-d2	80	73	125	%Rec
Y84D4	Primary Sample	0015085-02	CVOL	1,1-Dichloroethene-d2	74	55	104	%Rec
Y84D4	Primary Sample	0015085-02	CVOL	1,2-Dichlorobenzene-d4	106	80	131	%Rec
Y84D4	Primary Sample	0015085-02	CVOL	1,2-Dichloroethane-d4	84	78	129	%Rec
Y84D4	Primary Sample	0015085-02	CVOL	1,2-Dichloropropane-d6	87	79	124	%Rec
Y84D4	Primary Sample	0015085-02	CVOL	2-Butanone-d5	77	49	155	%Rec
Y84D4	Primary Sample	0015085-02	CVOL	2-Hexanone-d5	76	28	135	%Rec
Y84D4	Primary Sample	0015085-02	CVOL	Benzene-d6	103	77	124	%Rec
Y84D4	Primary Sample	0015085-02	CVOL	Chloroethane-d5	128	71	131	%Rec
Y84D4	Primary Sample	0015085-02	CVOL	Chloroform-d	95	78	121	%Rec
Y84D4	Primary Sample	0015085-02	CVOL	Toluene-d8	105	77	121	%Rec
Y84D4	Primary Sample	0015085-02	CVOL	trans-1,3-Dichloropropene-d4	83	73	121	%Rec
Y84D4	Primary Sample	0015085-02	CVOL	Vinyl Chloride-d3	109	65	131	%Rec
Y84D5	Primary Sample	0015085-03	CVOL	1,1,2,2-Tetrachloroethane-d2	84	73	125	%Rec
Y84D5	Primary Sample	0015085-03	CVOL	1,1-Dichloroethene-d2	75	55	104	%Rec
Y84D5	Primary Sample	0015085-03	CVOL	1,2-Dichlorobenzene-d4	106	80	131	%Rec
Y84D5	Primary Sample	0015085-03	CVOL	1,2-Dichloroethane-d4	83	78	129	%Rec
Y84D5	Primary Sample	0015085-03	CVOL	1,2-Dichloropropane-d6	89	79	124	%Rec
Y84D5	Primary Sample	0015085-03	CVOL	2-Butanone-d5	77	49	155	%Rec
Y84D5	Primary Sample	0015085-03	CVOL	2-Hexanone-d5	78	28	135	%Rec
Y84D5	Primary Sample	0015085-03	CVOL	Benzene-d6	104	77	124	%Rec
Y84D5	Primary Sample	0015085-03	CVOL	Chloroethane-d5	129	71	131	%Rec
Y84D5	Primary Sample	0015085-03	CVOL	Chloroform-d	95	78	121	%Rec
Y84D5	Primary Sample	0015085-03	CVOL	Toluene-d8	107	77	121	%Rec
Y84D5	Primary Sample	0015085-03	CVOL	trans-1,3-Dichloropropene-d4	82	73	121	%Rec
Y84D5	Primary Sample	0015085-03	CVOL	Vinyl Chloride-d3	110	65	131	%Rec
Y84D6	Primary Sample	0015059-01	CVOL	1,1,2,2-Tetrachloroethane-d2	81	73	125	%Rec

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y84D6	Primary Sample	0015059-01	CVOL	1,1-Dichloroethene-d2	72	55	104	%Rec
Y84D6	Primary Sample	0015059-01	CVOL	1,2-Dichlorobenzene-d4	102	80	131	%Rec
Y84D6	Primary Sample	0015059-01	CVOL	1,2-Dichloroethane-d4	82	78	129	%Rec
Y84D6	Primary Sample	0015059-01	CVOL	1,2-Dichloropropane-d6	87	79	124	%Rec
Y84D6	Primary Sample	0015059-01	CVOL	2-Butanone-d5	88	49	155	%Rec
Y84D6	Primary Sample	0015059-01	CVOL	2-Hexanone-d5	87	28	135	%Rec
Y84D6	Primary Sample	0015059-01	CVOL	Benzene-d6	97	77	124	%Rec
Y84D6	Primary Sample	0015059-01	CVOL	Chloroethane-d5	112	71	131	%Rec
Y84D6	Primary Sample	0015059-01	CVOL	Chloroform-d	92	78	121	%Rec
Y84D6	Primary Sample	0015059-01	CVOL	Toluene-d8	101	77	121	%Rec
Y84D6	Primary Sample	0015059-01	CVOL	trans-1,3-Dichloropropene-d4	90	73	121	%Rec
Y84D6	Primary Sample	0015059-01	CVOL	Vinyl Chloride-d3	97	65	131	%Rec
Y84D7	Primary Sample	0015059-02	CVOL	1,1,2,2-Tetrachloroethane-d2	69	73	125	%Rec
Y84D7	Primary Sample	0015059-02	CVOL	1,1-Dichloroethene-d2	76	55	104	%Rec
Y84D7	Primary Sample	0015059-02	CVOL	1,2-Dichlorobenzene-d4	101	80	131	%Rec
Y84D7	Primary Sample	0015059-02	CVOL	1,2-Dichloroethane-d4	78	78	129	%Rec
Y84D7	Primary Sample	0015059-02	CVOL	1,2-Dichloropropane-d6	89	79	124	%Rec
Y84D7	Primary Sample	0015059-02	CVOL	2-Butanone-d5	64	49	155	%Rec
Y84D7	Primary Sample	0015059-02	CVOL	2-Hexanone-d5	64	28	135	%Rec
Y84D7	Primary Sample	0015059-02	CVOL	Benzene-d6	107	77	124	%Rec
Y84D7	Primary Sample	0015059-02	CVOL	Chloroethane-d5	118	71	131	%Rec
Y84D7	Primary Sample	0015059-02	CVOL	Chloroform-d	90	78	121	%Rec
Y84D7	Primary Sample	0015059-02	CVOL	Toluene-d8	110	77	121	%Rec
Y84D7	Primary Sample	0015059-02	CVOL	trans-1,3-Dichloropropene-d4	83	73	121	%Rec
Y84D7	Primary Sample	0015059-02	CVOL	Vinyl Chloride-d3	107	65	131	%Rec
Y84D8	Primary Sample	0015059-03	CVOL	1,1,2,2-Tetrachloroethane-d2	73	73	125	%Rec
Y84D8	Primary Sample	0015059-03	CVOL	1,1-Dichloroethene-d2	76	55	104	%Rec
Y84D8	Primary Sample	0015059-03	CVOL	1,2-Dichlorobenzene-d4	103	80	131	%Rec
Y84D8	Primary Sample	0015059-03	CVOL	1,2-Dichloroethane-d4	76	78	129	%Rec
Y84D8	Primary Sample	0015059-03	CVOL	1,2-Dichloropropane-d6	88	79	124	%Rec
Y84D8	Primary Sample	0015059-03	CVOL	2-Butanone-d5	65	49	155	%Rec
Y84D8	Primary Sample	0015059-03	CVOL	2-Hexanone-d5	65	28	135	%Rec
Y84D8	Primary Sample	0015059-03	CVOL	Benzene-d6	102	77	124	%Rec
Y84D8	Primary Sample	0015059-03	CVOL	Chloroethane-d5	119	71	131	%Rec
Y84D8	Primary Sample	0015059-03	CVOL	Chloroform-d	92	78	121	%Rec
Y84D8	Primary Sample	0015059-03	CVOL	Toluene-d8	106	77	121	%Rec
Y84D8	Primary Sample	0015059-03	CVOL	trans-1,3-Dichloropropene-d4	82	73	121	%Rec
Y84D8	Primary Sample	0015059-03	CVOL	Vinyl Chloride-d3	107	65	131	%Rec
Y84D9	Primary Sample	0015059-04	CVOL	1,1,2,2-Tetrachloroethane-d2	80	73	125	%Rec
Y84D9	Primary Sample	0015059-04	CVOL	1,1-Dichloroethene-d2	80	55	104	%Rec
Y84D9	Primary Sample	0015059-04	CVOL	1,2-Dichlorobenzene-d4	107	80	131	%Rec
Y84D9	Primary Sample	0015059-04	CVOL	1,2-Dichloroethane-d4	84	78	129	%Rec
Y84D9	Primary Sample	0015059-04	CVOL	1,2-Dichloropropane-d6	92	79	124	%Rec
Y84D9	Primary Sample	0015059-04	CVOL	2-Butanone-d5	78	49	155	%Rec
Y84D9	Primary Sample	0015059-04	CVOL	2-Hexanone-d5	75	28	135	%Rec
Y84D9	Primary Sample	0015059-04	CVOL	Benzene-d6	106	77	124	%Rec
Y84D9	Primary Sample	0015059-04	CVOL	Chloroethane-d5	125	71	131	%Rec
Y84D9	Primary Sample	0015059-04	CVOL	Chloroform-d	96	78	121	%Rec
Y84D9	Primary Sample	0015059-04	CVOL	Toluene-d8	108	77	121	%Rec
Y84D9	Primary Sample	0015059-04	CVOL	trans-1,3-Dichloropropene-d4	88	73	121	%Rec
Y84D9	Primary Sample	0015059-04	CVOL	Vinyl Chloride-d3	110	65	131	%Rec
Y84E0	Primary Sample	0015059-05	CVOL	1,1,2,2-Tetrachloroethane-d2	74	73	125	%Rec
Y84E0	Primary Sample	0015059-05	CVOL	1,1-Dichloroethene-d2	76	55	104	%Rec
Y84E0	Primary Sample	0015059-05	CVOL	1,2-Dichlorobenzene-d4	101	80	131	%Rec
Y84E0	Primary Sample	0015059-05	CVOL	1,2-Dichloroethane-d4	75	78	129	%Rec
Y84E0	Primary Sample	0015059-05	CVOL	1,2-Dichloropropane-d6	84	79	124	%Rec
Y84E0	Primary Sample	0015059-05	CVOL	2-Butanone-d5	70	49	155	%Rec
Y84E0	Primary Sample	0015059-05	CVOL	2-Hexanone-d5	70	28	135	%Rec
Y84E0	Primary Sample	0015059-05	CVOL	Benzene-d6	99	77	124	%Rec
Y84E0	Primary Sample	0015059-05	CVOL	Chloroethane-d5	115	71	131	%Rec
Y84E0	Primary Sample	0015059-05	CVOL	Chloroform-d	90	78	121	%Rec
Y84E0	Primary Sample	0015059-05	CVOL	Toluene-d8	104	77	121	%Rec
Y84E0	Primary Sample	0015059-05	CVOL	trans-1,3-Dichloropropene-d4	83	73	121	%Rec
Y84E0	Primary Sample	0015059-05	CVOL	Vinyl Chloride-d3	103	65	131	%Rec
Y84E1	Primary Sample	0015059-06	CVOL	1,1,2,2-Tetrachloroethane-d2	74	73	125	%Rec
Y84E1	Primary Sample	0015059-06	CVOL	1,1-Dichloroethene-d2	77	55	104	%Rec
Y84E1	Primary Sample	0015059-06	CVOL	1,2-Dichlorobenzene-d4	102	80	131	%Rec
Y84E1	Primary Sample	0015059-06	CVOL	1,2-Dichloroethane-d4	80	78	129	%Rec
Y84E1	Primary Sample	0015059-06	CVOL	1,2-Dichloropropane-d6	86	79	124	%Rec
Y84E1	Primary Sample	0015059-06	CVOL	2-Butanone-d5	68	49	155	%Rec
Y84E1	Primary Sample	0015059-06	CVOL	2-Hexanone-d5	67	28	135	%Rec
Y84E1	Primary Sample	0015059-06	CVOL	Benzene-d6	101	77	124	%Rec
Y84E1	Primary Sample	0015059-06	CVOL	Chloroethane-d5	120	71	131	%Rec
Y84E1	Primary Sample	0015059-06	CVOL	Chloroform-d	92	78	121	%Rec
Y84E1	Primary Sample	0015059-06	CVOL	Toluene-d8	105	77	121	%Rec
Y84E1	Primary Sample	0015059-06	CVOL	trans-1,3-Dichloropropene-d4	83	73	121	%Rec
Y84E1	Primary Sample	0015059-06	CVOL	Vinyl Chloride-d3	108	65	131	%Rec

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y84E2	Primary Sample	0015085-04	CVOL	1,1,2,2-Tetrachloroethane-d2	81	73	125	%Rec
Y84E2	Primary Sample	0015085-04	CVOL	1,1-Dichloroethene-d2	74	55	104	%Rec
Y84E2	Primary Sample	0015085-04	CVOL	1,2-Dichlorobenzene-d4	105	80	131	%Rec
Y84E2	Primary Sample	0015085-04	CVOL	1,2-Dichloroethane-d4	81	78	129	%Rec
Y84E2	Primary Sample	0015085-04	CVOL	1,2-Dichloropropane-d6	89	79	124	%Rec
Y84E2	Primary Sample	0015085-04	CVOL	2-Butanone-d5	76	49	155	%Rec
Y84E2	Primary Sample	0015085-04	CVOL	2-Hexanone-d5	76	28	135	%Rec
Y84E2	Primary Sample	0015085-04	CVOL	Benzene-d6	102	77	124	%Rec
Y84E2	Primary Sample	0015085-04	CVOL	Chloroethane-d5	126	71	131	%Rec
Y84E2	Primary Sample	0015085-04	CVOL	Chloroform-d	93	78	121	%Rec
Y84E2	Primary Sample	0015085-04	CVOL	Toluene-d8	105	77	121	%Rec
Y84E2	Primary Sample	0015085-04	CVOL	trans-1,3-Dichloropropene-d4	85	73	121	%Rec
Y84E2	Primary Sample	0015085-04	CVOL	Vinyl Chloride-d3	108	65	131	%Rec
Y84E3	Primary Sample	0015040-09	CVOL	1,1,2,2-Tetrachloroethane-d2	80	73	125	%Rec
Y84E3	Primary Sample	0015040-09	CVOL	1,1-Dichloroethene-d2	76	55	104	%Rec
Y84E3	Primary Sample	0015040-09	CVOL	1,2-Dichlorobenzene-d4	104	80	131	%Rec
Y84E3	Primary Sample	0015040-09	CVOL	1,2-Dichloroethane-d4	92	78	129	%Rec
Y84E3	Primary Sample	0015040-09	CVOL	1,2-Dichloropropane-d6	92	79	124	%Rec
Y84E3	Primary Sample	0015040-09	CVOL	2-Butanone-d5	87	49	155	%Rec
Y84E3	Primary Sample	0015040-09	CVOL	2-Hexanone-d5	78	28	135	%Rec
Y84E3	Primary Sample	0015040-09	CVOL	Benzene-d6	100	77	124	%Rec
Y84E3	Primary Sample	0015040-09	CVOL	Chloroethane-d5	133	71	131	%Rec
Y84E3	Primary Sample	0015040-09	CVOL	Chloroform-d	96	78	121	%Rec
Y84E3	Primary Sample	0015040-09	CVOL	Toluene-d8	104	77	121	%Rec
Y84E3	Primary Sample	0015040-09	CVOL	trans-1,3-Dichloropropene-d4	84	73	121	%Rec
Y84E3	Primary Sample	0015040-09	CVOL	Vinyl Chloride-d3	128	65	131	%Rec
Y84E4	Primary Sample	0015040-10	CVOL	1,1,2,2-Tetrachloroethane-d2	59	73	125	%Rec
Y84E4	Primary Sample	0015040-10	CVOL	1,1-Dichloroethene-d2	75	55	104	%Rec
Y84E4	Primary Sample	0015040-10	CVOL	1,2-Dichlorobenzene-d4	93	80	131	%Rec
Y84E4	Primary Sample	0015040-10	CVOL	1,2-Dichloroethane-d4	68	78	129	%Rec
Y84E4	Primary Sample	0015040-10	CVOL	1,2-Dichloropropane-d6	85	79	124	%Rec
Y84E4	Primary Sample	0015040-10	CVOL	2-Butanone-d5	54	49	155	%Rec
Y84E4	Primary Sample	0015040-10	CVOL	2-Hexanone-d5	50	28	135	%Rec
Y84E4	Primary Sample	0015040-10	CVOL	Benzene-d6	98	77	124	%Rec
Y84E4	Primary Sample	0015040-10	CVOL	Chloroethane-d5	123	71	131	%Rec
Y84E4	Primary Sample	0015040-10	CVOL	Chloroform-d	88	78	121	%Rec
Y84E4	Primary Sample	0015040-10	CVOL	Toluene-d8	101	77	121	%Rec
Y84E4	Primary Sample	0015040-10	CVOL	trans-1,3-Dichloropropene-d4	72	73	121	%Rec
Y84E4	Primary Sample	0015040-10	CVOL	Vinyl Chloride-d3	102	65	131	%Rec
Y84E5	Primary Sample	0015040-11	CVOL	1,1,2,2-Tetrachloroethane-d2	70	73	125	%Rec
Y84E5	Primary Sample	0015040-11	CVOL	1,1-Dichloroethene-d2	81	55	104	%Rec
Y84E5	Primary Sample	0015040-11	CVOL	1,2-Dichlorobenzene-d4	101	80	131	%Rec
Y84E5	Primary Sample	0015040-11	CVOL	1,2-Dichloroethane-d4	79	78	129	%Rec
Y84E5	Primary Sample	0015040-11	CVOL	1,2-Dichloropropane-d6	92	79	124	%Rec
Y84E5	Primary Sample	0015040-11	CVOL	2-Butanone-d5	67	49	155	%Rec
Y84E5	Primary Sample	0015040-11	CVOL	2-Hexanone-d5	63	28	135	%Rec
Y84E5	Primary Sample	0015040-11	CVOL	Benzene-d6	104	77	124	%Rec
Y84E5	Primary Sample	0015040-11	CVOL	Chloroethane-d5	124	71	131	%Rec
Y84E5	Primary Sample	0015040-11	CVOL	Chloroform-d	94	78	121	%Rec
Y84E5	Primary Sample	0015040-11	CVOL	Toluene-d8	106	77	121	%Rec
Y84E5	Primary Sample	0015040-11	CVOL	trans-1,3-Dichloropropene-d4	85	73	121	%Rec
Y84E5	Primary Sample	0015040-11	CVOL	Vinyl Chloride-d3	107	65	131	%Rec
Y84E6	Primary Sample	0015085-05	CVOL	1,1,2,2-Tetrachloroethane-d2	81	73	125	%Rec
Y84E6	Primary Sample	0015085-05	CVOL	1,1-Dichloroethene-d2	76	55	104	%Rec
Y84E6	Primary Sample	0015085-05	CVOL	1,2-Dichlorobenzene-d4	107	80	131	%Rec
Y84E6	Primary Sample	0015085-05	CVOL	1,2-Dichloroethane-d4	83	78	129	%Rec
Y84E6	Primary Sample	0015085-05	CVOL	1,2-Dichloropropane-d6	88	79	124	%Rec
Y84E6	Primary Sample	0015085-05	CVOL	2-Butanone-d5	75	49	155	%Rec
Y84E6	Primary Sample	0015085-05	CVOL	2-Hexanone-d5	75	28	135	%Rec
Y84E6	Primary Sample	0015085-05	CVOL	Benzene-d6	103	77	124	%Rec
Y84E6	Primary Sample	0015085-05	CVOL	Chloroethane-d5	127	71	131	%Rec
Y84E6	Primary Sample	0015085-05	CVOL	Chloroform-d	95	78	121	%Rec
Y84E6	Primary Sample	0015085-05	CVOL	Toluene-d8	106	77	121	%Rec
Y84E6	Primary Sample	0015085-05	CVOL	trans-1,3-Dichloropropene-d4	81	73	121	%Rec
Y84E6	Primary Sample	0015085-05	CVOL	Vinyl Chloride-d3	111	65	131	%Rec
Y84E7	Duplicate Sample	0015085-06	CVOL	1,1,2,2-Tetrachloroethane-d2	71	73	125	%Rec
Y84E7	Duplicate Sample	0015085-06	CVOL	1,1-Dichloroethene-d2	80	55	104	%Rec
Y84E7	Duplicate Sample	0015085-06	CVOL	1,2-Dichlorobenzene-d4	104	80	131	%Rec
Y84E7	Duplicate Sample	0015085-06	CVOL	1,2-Dichloroethane-d4	78	78	129	%Rec
Y84E7	Duplicate Sample	0015085-06	CVOL	1,2-Dichloropropane-d6	89	79	124	%Rec
Y84E7	Duplicate Sample	0015085-06	CVOL	2-Butanone-d5	63	49	155	%Rec
Y84E7	Duplicate Sample	0015085-06	CVOL	2-Hexanone-d5	59	28	135	%Rec
Y84E7	Duplicate Sample	0015085-06	CVOL	Benzene-d6	105	77	124	%Rec
Y84E7	Duplicate Sample	0015085-06	CVOL	Chloroethane-d5	126	71	131	%Rec
Y84E7	Duplicate Sample	0015085-06	CVOL	Chloroform-d	93	78	121	%Rec
Y84E7	Duplicate Sample	0015085-06	CVOL	Toluene-d8	108	77	121	%Rec
Y84E7	Duplicate Sample	0015085-06	CVOL	trans-1,3-Dichloropropene-d4	78	73	121	%Rec

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y84E7	Duplicate Sample	0015085-06	CVOL	Vinyl Chloride-d3	115	65	131	%Rec
Y84E9	Primary Sample	0015085-08	CVOL	1,1,2,2-Tetrachloroethane-d2	80	73	125	%Rec
Y84E9	Primary Sample	0015085-08	CVOL	1,1-Dichloroethene-d2	76	55	104	%Rec
Y84E9	Primary Sample	0015085-08	CVOL	1,2-Dichlorobenzene-d4	109	80	131	%Rec
Y84E9	Primary Sample	0015085-08	CVOL	1,2-Dichloroethane-d4	81	78	129	%Rec
Y84E9	Primary Sample	0015085-08	CVOL	1,2-Dichloropropane-d6	89	79	124	%Rec
Y84E9	Primary Sample	0015085-08	CVOL	2-Butanone-d5	76	49	155	%Rec
Y84E9	Primary Sample	0015085-08	CVOL	2-Hexanone-d5	78	28	135	%Rec
Y84E9	Primary Sample	0015085-08	CVOL	Benzene-d6	104	77	124	%Rec
Y84E9	Primary Sample	0015085-08	CVOL	Chloroethane-d5	129	71	131	%Rec
Y84E9	Primary Sample	0015085-08	CVOL	Chloroform-d	94	78	121	%Rec
Y84E9	Primary Sample	0015085-08	CVOL	Toluene-d8	106	77	121	%Rec
Y84E9	Primary Sample	0015085-08	CVOL	trans-1,3-Dichloropropene-d4	82	73	121	%Rec
Y84E9	Primary Sample	0015085-08	CVOL	Vinyl Chloride-d3	110	65	131	%Rec
Y84F0	Primary Sample	0015031-09	CVOL	1,1,2,2-Tetrachloroethane-d2	71	73	125	%Rec
Y84F0	Primary Sample	0015031-09	CVOL	1,1-Dichloroethene-d2	77	55	104	%Rec
Y84F0	Primary Sample	0015031-09	CVOL	1,2-Dichlorobenzene-d4	98	80	131	%Rec
Y84F0	Primary Sample	0015031-09	CVOL	1,2-Dichloroethane-d4	83	78	129	%Rec
Y84F0	Primary Sample	0015031-09	CVOL	1,2-Dichloropropane-d6	90	79	124	%Rec
Y84F0	Primary Sample	0015031-09	CVOL	2-Butanone-d5	76	49	155	%Rec
Y84F0	Primary Sample	0015031-09	CVOL	2-Hexanone-d5	72	28	135	%Rec
Y84F0	Primary Sample	0015031-09	CVOL	Benzene-d6	99	77	124	%Rec
Y84F0	Primary Sample	0015031-09	CVOL	Chloroethane-d5	127	71	131	%Rec
Y84F0	Primary Sample	0015031-09	CVOL	Chloroform-d	91	78	121	%Rec
Y84F0	Primary Sample	0015031-09	CVOL	Toluene-d8	105	77	121	%Rec
Y84F0	Primary Sample	0015031-09	CVOL	trans-1,3-Dichloropropene-d4	85	73	121	%Rec
Y84F0	Primary Sample	0015031-09	CVOL	Vinyl Chloride-d3	130	65	131	%Rec
Y84F1	Primary Sample	0015031-10	CVOL	1,1,2,2-Tetrachloroethane-d2	73	73	125	%Rec
Y84F1	Primary Sample	0015031-10	CVOL	1,1-Dichloroethene-d2	76	55	104	%Rec
Y84F1	Primary Sample	0015031-10	CVOL	1,2-Dichlorobenzene-d4	100	80	131	%Rec
Y84F1	Primary Sample	0015031-10	CVOL	1,2-Dichloroethane-d4	95	78	129	%Rec
Y84F1	Primary Sample	0015031-10	CVOL	1,2-Dichloropropane-d6	94	79	124	%Rec
Y84F1	Primary Sample	0015031-10	CVOL	2-Butanone-d5	84	49	155	%Rec
Y84F1	Primary Sample	0015031-10	CVOL	2-Hexanone-d5	77	28	135	%Rec
Y84F1	Primary Sample	0015031-10	CVOL	Benzene-d6	98	77	124	%Rec
Y84F1	Primary Sample	0015031-10	CVOL	Chloroethane-d5	138	71	131	%Rec
Y84F1	Primary Sample	0015031-10	CVOL	Chloroform-d	98	78	121	%Rec
Y84F1	Primary Sample	0015031-10	CVOL	Toluene-d8	102	77	121	%Rec
Y84F1	Primary Sample	0015031-10	CVOL	trans-1,3-Dichloropropene-d4	87	73	121	%Rec
Y84F1	Primary Sample	0015031-10	CVOL	Vinyl Chloride-d3	137	65	131	%Rec
Y84F2	Primary Sample	0015031-11	CVOL	1,1,2,2-Tetrachloroethane-d2	65	73	125	%Rec
Y84F2	Primary Sample	0015031-11	CVOL	1,1-Dichloroethene-d2	80	55	104	%Rec
Y84F2	Primary Sample	0015031-11	CVOL	1,2-Dichlorobenzene-d4	98	80	131	%Rec
Y84F2	Primary Sample	0015031-11	CVOL	1,2-Dichloroethane-d4	78	78	129	%Rec
Y84F2	Primary Sample	0015031-11	CVOL	1,2-Dichloropropane-d6	87	79	124	%Rec
Y84F2	Primary Sample	0015031-11	CVOL	2-Butanone-d5	67	49	155	%Rec
Y84F2	Primary Sample	0015031-11	CVOL	2-Hexanone-d5	63	28	135	%Rec
Y84F2	Primary Sample	0015031-11	CVOL	Benzene-d6	100	77	124	%Rec
Y84F2	Primary Sample	0015031-11	CVOL	Chloroethane-d5	123	71	131	%Rec
Y84F2	Primary Sample	0015031-11	CVOL	Chloroform-d	90	78	121	%Rec
Y84F2	Primary Sample	0015031-11	CVOL	Toluene-d8	106	77	121	%Rec
Y84F2	Primary Sample	0015031-11	CVOL	trans-1,3-Dichloropropene-d4	79	73	121	%Rec
Y84F2	Primary Sample	0015031-11	CVOL	Vinyl Chloride-d3	129	65	131	%Rec
Y84F2DL	Primary Sample	0015031-11RE1	CVOL	1,1,2,2-Tetrachloroethane-d2	77	73	125	%Rec
Y84F2DL	Primary Sample	0015031-11RE1	CVOL	1,1-Dichloroethene-d2	80	55	104	%Rec
Y84F2DL	Primary Sample	0015031-11RE1	CVOL	1,2-Dichlorobenzene-d4	99	80	131	%Rec
Y84F2DL	Primary Sample	0015031-11RE1	CVOL	1,2-Dichloroethane-d4	98	78	129	%Rec
Y84F2DL	Primary Sample	0015031-11RE1	CVOL	1,2-Dichloropropane-d6	97	79	124	%Rec
Y84F2DL	Primary Sample	0015031-11RE1	CVOL	2-Butanone-d5	89	49	155	%Rec
Y84F2DL	Primary Sample	0015031-11RE1	CVOL	2-Hexanone-d5	78	28	135	%Rec
Y84F2DL	Primary Sample	0015031-11RE1	CVOL	Benzene-d6	103	77	124	%Rec
Y84F2DL	Primary Sample	0015031-11RE1	CVOL	Chloroethane-d5	144	71	131	%Rec
Y84F2DL	Primary Sample	0015031-11RE1	CVOL	Chloroform-d	100	78	121	%Rec
Y84F2DL	Primary Sample	0015031-11RE1	CVOL	Toluene-d8	104	77	121	%Rec
Y84F2DL	Primary Sample	0015031-11RE1	CVOL	trans-1,3-Dichloropropene-d4	88	73	121	%Rec
Y84F2DL	Primary Sample	0015031-11RE1	CVOL	Vinyl Chloride-d3	143	65	131	%Rec
Y84F3	Primary Sample	0015085-09	CVOL	1,1,2,2-Tetrachloroethane-d2	80	73	125	%Rec
Y84F3	Primary Sample	0015085-09	CVOL	1,1-Dichloroethene-d2	74	55	104	%Rec
Y84F3	Primary Sample	0015085-09	CVOL	1,2-Dichlorobenzene-d4	104	80	131	%Rec
Y84F3	Primary Sample	0015085-09	CVOL	1,2-Dichloroethane-d4	83	78	129	%Rec
Y84F3	Primary Sample	0015085-09	CVOL	1,2-Dichloropropane-d6	86	79	124	%Rec
Y84F3	Primary Sample	0015085-09	CVOL	2-Butanone-d5	80	49	155	%Rec
Y84F3	Primary Sample	0015085-09	CVOL	2-Hexanone-d5	79	28	135	%Rec
Y84F3	Primary Sample	0015085-09	CVOL	Benzene-d6	100	77	124	%Rec
Y84F3	Primary Sample	0015085-09	CVOL	Chloroethane-d5	123	71	131	%Rec
Y84F3	Primary Sample	0015085-09	CVOL	Chloroform-d	95	78	121	%Rec
Y84F3	Primary Sample	0015085-09	CVOL	Toluene-d8	103	77	121	%Rec

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y84F3	Primary Sample	0015085-09	CVOL	trans-1,3-Dichloropropene-d4	82	73	121	%Rec
Y84F3	Primary Sample	0015085-09	CVOL	Vinyl Chloride-d3	106	65	131	%Rec
Y84F4	Primary Sample	0015085-10	CVOL	1,1,2,2-Tetrachloroethane-d2	85	73	125	%Rec
Y84F4	Primary Sample	0015085-10	CVOL	1,1-Dichloroethene-d2	75	55	104	%Rec
Y84F4	Primary Sample	0015085-10	CVOL	1,2-Dichlorobenzene-d4	106	80	131	%Rec
Y84F4	Primary Sample	0015085-10	CVOL	1,2-Dichloroethane-d4	81	78	129	%Rec
Y84F4	Primary Sample	0015085-10	CVOL	1,2-Dichloropropane-d6	89	79	124	%Rec
Y84F4	Primary Sample	0015085-10	CVOL	2-Butanone-d5	82	49	155	%Rec
Y84F4	Primary Sample	0015085-10	CVOL	2-Hexanone-d5	82	28	135	%Rec
Y84F4	Primary Sample	0015085-10	CVOL	Benzene-d6	102	77	124	%Rec
Y84F4	Primary Sample	0015085-10	CVOL	Chloroethane-d5	128	71	131	%Rec
Y84F4	Primary Sample	0015085-10	CVOL	Chloroform-d	93	78	121	%Rec
Y84F4	Primary Sample	0015085-10	CVOL	Toluene-d8	105	77	121	%Rec
Y84F4	Primary Sample	0015085-10	CVOL	trans-1,3-Dichloropropene-d4	85	73	121	%Rec
Y84F4	Primary Sample	0015085-10	CVOL	Vinyl Chloride-d3	107	65	131	%Rec
Y84F5	Primary Sample	0015085-11	CVOL	1,1,2,2-Tetrachloroethane-d2	78	73	125	%Rec
Y84F5	Primary Sample	0015085-11	CVOL	1,1-Dichloroethene-d2	78	55	104	%Rec
Y84F5	Primary Sample	0015085-11	CVOL	1,2-Dichlorobenzene-d4	107	80	131	%Rec
Y84F5	Primary Sample	0015085-11	CVOL	1,2-Dichloroethane-d4	79	78	129	%Rec
Y84F5	Primary Sample	0015085-11	CVOL	1,2-Dichloropropane-d6	90	79	124	%Rec
Y84F5	Primary Sample	0015085-11	CVOL	2-Butanone-d5	68	49	155	%Rec
Y84F5	Primary Sample	0015085-11	CVOL	2-Hexanone-d5	71	28	135	%Rec
Y84F5	Primary Sample	0015085-11	CVOL	Benzene-d6	105	77	124	%Rec
Y84F5	Primary Sample	0015085-11	CVOL	Chloroethane-d5	128	71	131	%Rec
Y84F5	Primary Sample	0015085-11	CVOL	Chloroform-d	94	78	121	%Rec
Y84F5	Primary Sample	0015085-11	CVOL	Toluene-d8	107	77	121	%Rec
Y84F5	Primary Sample	0015085-11	CVOL	trans-1,3-Dichloropropene-d4	79	73	121	%Rec
Y84F5	Primary Sample	0015085-11	CVOL	Vinyl Chloride-d3	115	65	131	%Rec
Y84F6	Primary Sample	0015059-07	CVOL	1,1,2,2-Tetrachloroethane-d2	77	73	125	%Rec
Y84F6	Primary Sample	0015059-07	CVOL	1,1-Dichloroethene-d2	74	55	104	%Rec
Y84F6	Primary Sample	0015059-07	CVOL	1,2-Dichlorobenzene-d4	103	80	131	%Rec
Y84F6	Primary Sample	0015059-07	CVOL	1,2-Dichloroethane-d4	79	78	129	%Rec
Y84F6	Primary Sample	0015059-07	CVOL	1,2-Dichloropropane-d6	89	79	124	%Rec
Y84F6	Primary Sample	0015059-07	CVOL	2-Butanone-d5	76	49	155	%Rec
Y84F6	Primary Sample	0015059-07	CVOL	2-Hexanone-d5	76	28	135	%Rec
Y84F6	Primary Sample	0015059-07	CVOL	Benzene-d6	102	77	124	%Rec
Y84F6	Primary Sample	0015059-07	CVOL	Chloroethane-d5	121	71	131	%Rec
Y84F6	Primary Sample	0015059-07	CVOL	Chloroform-d	92	78	121	%Rec
Y84F6	Primary Sample	0015059-07	CVOL	Toluene-d8	104	77	121	%Rec
Y84F6	Primary Sample	0015059-07	CVOL	trans-1,3-Dichloropropene-d4	84	73	121	%Rec
Y84F6	Primary Sample	0015059-07	CVOL	Vinyl Chloride-d3	104	65	131	%Rec
Y84F7	Primary Sample	0015031-12	CVOL	1,1,2,2-Tetrachloroethane-d2	67	73	125	%Rec
Y84F7	Primary Sample	0015031-12	CVOL	1,1-Dichloroethene-d2	81	55	104	%Rec
Y84F7	Primary Sample	0015031-12	CVOL	1,2-Dichlorobenzene-d4	102	80	131	%Rec
Y84F7	Primary Sample	0015031-12	CVOL	1,2-Dichloroethane-d4	88	78	129	%Rec
Y84F7	Primary Sample	0015031-12	CVOL	1,2-Dichloropropane-d6	90	79	124	%Rec
Y84F7	Primary Sample	0015031-12	CVOL	2-Butanone-d5	82	49	155	%Rec
Y84F7	Primary Sample	0015031-12	CVOL	2-Hexanone-d5	71	28	135	%Rec
Y84F7	Primary Sample	0015031-12	CVOL	Benzene-d6	101	77	124	%Rec
Y84F7	Primary Sample	0015031-12	CVOL	Chloroethane-d5	135	71	131	%Rec
Y84F7	Primary Sample	0015031-12	CVOL	Chloroform-d	96	78	121	%Rec
Y84F7	Primary Sample	0015031-12	CVOL	Toluene-d8	105	77	121	%Rec
Y84F7	Primary Sample	0015031-12	CVOL	trans-1,3-Dichloropropene-d4	81	73	121	%Rec
Y84F7	Primary Sample	0015031-12	CVOL	Vinyl Chloride-d3	137	65	131	%Rec
Y84F8	Primary Sample	0015031-13	CVOL	1,1,2,2-Tetrachloroethane-d2	72	73	125	%Rec
Y84F8	Primary Sample	0015031-13	CVOL	1,1-Dichloroethene-d2	77	55	104	%Rec
Y84F8	Primary Sample	0015031-13	CVOL	1,2-Dichlorobenzene-d4	104	80	131	%Rec
Y84F8	Primary Sample	0015031-13	CVOL	1,2-Dichloroethane-d4	86	78	129	%Rec
Y84F8	Primary Sample	0015031-13	CVOL	1,2-Dichloropropane-d6	91	79	124	%Rec
Y84F8	Primary Sample	0015031-13	CVOL	2-Butanone-d5	92	49	155	%Rec
Y84F8	Primary Sample	0015031-13	CVOL	2-Hexanone-d5	82	28	135	%Rec
Y84F8	Primary Sample	0015031-13	CVOL	Benzene-d6	99	77	124	%Rec
Y84F8	Primary Sample	0015031-13	CVOL	Chloroethane-d5	134	71	131	%Rec
Y84F8	Primary Sample	0015031-13	CVOL	Chloroform-d	96	78	121	%Rec
Y84F8	Primary Sample	0015031-13	CVOL	Toluene-d8	104	77	121	%Rec
Y84F8	Primary Sample	0015031-13	CVOL	trans-1,3-Dichloropropene-d4	86	73	121	%Rec
Y84F8	Primary Sample	0015031-13	CVOL	Vinyl Chloride-d3	136	65	131	%Rec
Y84F9	Primary Sample	0015031-14	CVOL	1,1,2,2-Tetrachloroethane-d2	67	73	125	%Rec
Y84F9	Primary Sample	0015031-14	CVOL	1,1-Dichloroethene-d2	79	55	104	%Rec
Y84F9	Primary Sample	0015031-14	CVOL	1,2-Dichlorobenzene-d4	96	80	131	%Rec
Y84F9	Primary Sample	0015031-14	CVOL	1,2-Dichloroethane-d4	86	78	129	%Rec
Y84F9	Primary Sample	0015031-14	CVOL	1,2-Dichloropropane-d6	87	79	124	%Rec
Y84F9	Primary Sample	0015031-14	CVOL	2-Butanone-d5	69	49	155	%Rec
Y84F9	Primary Sample	0015031-14	CVOL	2-Hexanone-d5	66	28	135	%Rec
Y84F9	Primary Sample	0015031-14	CVOL	Benzene-d6	99	77	124	%Rec
Y84F9	Primary Sample	0015031-14	CVOL	Chloroethane-d5	127	71	131	%Rec
Y84F9	Primary Sample	0015031-14	CVOL	Chloroform-d	92	78	121	%Rec

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y84F9	Primary Sample	0015031-14	CVOL	Toluene-d8	103	77	121	%Rec
Y84F9	Primary Sample	0015031-14	CVOL	trans-1,3-Dichloropropene-d4	82	73	121	%Rec
Y84F9	Primary Sample	0015031-14	CVOL	Vinyl Chloride-d3	131	65	131	%Rec
Y84G0	Primary Sample	0015059-08	CVOL	1,1,2,2-Tetrachloroethane-d2	73	73	125	%Rec
Y84G0	Primary Sample	0015059-08	CVOL	1,1-Dichloroethene-d2	75	55	104	%Rec
Y84G0	Primary Sample	0015059-08	CVOL	1,2-Dichlorobenzene-d4	105	80	131	%Rec
Y84G0	Primary Sample	0015059-08	CVOL	1,2-Dichloroethane-d4	78	78	129	%Rec
Y84G0	Primary Sample	0015059-08	CVOL	1,2-Dichloropropane-d6	88	79	124	%Rec
Y84G0	Primary Sample	0015059-08	CVOL	2-Butanone-d5	67	49	155	%Rec
Y84G0	Primary Sample	0015059-08	CVOL	2-Hexanone-d5	66	28	135	%Rec
Y84G0	Primary Sample	0015059-08	CVOL	Benzene-d6	102	77	124	%Rec
Y84G0	Primary Sample	0015059-08	CVOL	Chloroethane-d5	120	71	131	%Rec
Y84G0	Primary Sample	0015059-08	CVOL	Chloroform-d	92	78	121	%Rec
Y84G0	Primary Sample	0015059-08	CVOL	Toluene-d8	106	77	121	%Rec
Y84G0	Primary Sample	0015059-08	CVOL	trans-1,3-Dichloropropene-d4	80	73	121	%Rec
Y84G0	Primary Sample	0015059-08	CVOL	Vinyl Chloride-d3	105	65	131	%Rec
Y84G1	Duplicate Sample	0015059-09	CVOL	1,1,2,2-Tetrachloroethane-d2	81	73	125	%Rec
Y84G1	Duplicate Sample	0015059-09	CVOL	1,1-Dichloroethene-d2	80	55	104	%Rec
Y84G1	Duplicate Sample	0015059-09	CVOL	1,2-Dichlorobenzene-d4	107	80	131	%Rec
Y84G1	Duplicate Sample	0015059-09	CVOL	1,2-Dichloroethane-d4	83	78	129	%Rec
Y84G1	Duplicate Sample	0015059-09	CVOL	1,2-Dichloropropane-d6	90	79	124	%Rec
Y84G1	Duplicate Sample	0015059-09	CVOL	2-Butanone-d5	72	49	155	%Rec
Y84G1	Duplicate Sample	0015059-09	CVOL	2-Hexanone-d5	74	28	135	%Rec
Y84G1	Duplicate Sample	0015059-09	CVOL	Benzene-d6	105	77	124	%Rec
Y84G1	Duplicate Sample	0015059-09	CVOL	Chloroethane-d5	120	71	131	%Rec
Y84G1	Duplicate Sample	0015059-09	CVOL	Chloroform-d	93	78	121	%Rec
Y84G1	Duplicate Sample	0015059-09	CVOL	Toluene-d8	110	77	121	%Rec
Y84G1	Duplicate Sample	0015059-09	CVOL	trans-1,3-Dichloropropene-d4	90	73	121	%Rec
Y84G1	Duplicate Sample	0015059-09	CVOL	Vinyl Chloride-d3	109	65	131	%Rec
Y84G3	Primary Sample	0015059-11	CVOL	1,1,2,2-Tetrachloroethane-d2	81	73	125	%Rec
Y84G3	Primary Sample	0015059-11	CVOL	1,1-Dichloroethene-d2	77	55	104	%Rec
Y84G3	Primary Sample	0015059-11	CVOL	1,2-Dichlorobenzene-d4	109	80	131	%Rec
Y84G3	Primary Sample	0015059-11	CVOL	1,2-Dichloroethane-d4	86	78	129	%Rec
Y84G3	Primary Sample	0015059-11	CVOL	1,2-Dichloropropane-d6	89	79	124	%Rec
Y84G3	Primary Sample	0015059-11	CVOL	2-Butanone-d5	79	49	155	%Rec
Y84G3	Primary Sample	0015059-11	CVOL	2-Hexanone-d5	79	28	135	%Rec
Y84G3	Primary Sample	0015059-11	CVOL	Benzene-d6	103	77	124	%Rec
Y84G3	Primary Sample	0015059-11	CVOL	Chloroethane-d5	123	71	131	%Rec
Y84G3	Primary Sample	0015059-11	CVOL	Chloroform-d	95	78	121	%Rec
Y84G3	Primary Sample	0015059-11	CVOL	Toluene-d8	106	77	121	%Rec
Y84G3	Primary Sample	0015059-11	CVOL	trans-1,3-Dichloropropene-d4	89	73	121	%Rec
Y84G3	Primary Sample	0015059-11	CVOL	Vinyl Chloride-d3	110	65	131	%Rec
Y84G4	Primary Sample	0015085-12	CVOL	1,1,2,2-Tetrachloroethane-d2	71	73	125	%Rec
Y84G4	Primary Sample	0015085-12	CVOL	1,1-Dichloroethene-d2	77	55	104	%Rec
Y84G4	Primary Sample	0015085-12	CVOL	1,2-Dichlorobenzene-d4	102	80	131	%Rec
Y84G4	Primary Sample	0015085-12	CVOL	1,2-Dichloroethane-d4	75	78	129	%Rec
Y84G4	Primary Sample	0015085-12	CVOL	1,2-Dichloropropane-d6	87	79	124	%Rec
Y84G4	Primary Sample	0015085-12	CVOL	2-Butanone-d5	68	49	155	%Rec
Y84G4	Primary Sample	0015085-12	CVOL	2-Hexanone-d5	67	28	135	%Rec
Y84G4	Primary Sample	0015085-12	CVOL	Benzene-d6	102	77	124	%Rec
Y84G4	Primary Sample	0015085-12	CVOL	Chloroethane-d5	123	71	131	%Rec
Y84G4	Primary Sample	0015085-12	CVOL	Chloroform-d	92	78	121	%Rec
Y84G4	Primary Sample	0015085-12	CVOL	Toluene-d8	105	77	121	%Rec
Y84G4	Primary Sample	0015085-12	CVOL	trans-1,3-Dichloropropene-d4	79	73	121	%Rec
Y84G4	Primary Sample	0015085-12	CVOL	Vinyl Chloride-d3	111	65	131	%Rec
Y84G5	Primary Sample	0015085-13	CVOL	1,1,2,2-Tetrachloroethane-d2	81	73	125	%Rec
Y84G5	Primary Sample	0015085-13	CVOL	1,1-Dichloroethene-d2	72	55	104	%Rec
Y84G5	Primary Sample	0015085-13	CVOL	1,2-Dichlorobenzene-d4	104	80	131	%Rec
Y84G5	Primary Sample	0015085-13	CVOL	1,2-Dichloroethane-d4	81	78	129	%Rec
Y84G5	Primary Sample	0015085-13	CVOL	1,2-Dichloropropane-d6	84	79	124	%Rec
Y84G5	Primary Sample	0015085-13	CVOL	2-Butanone-d5	81	49	155	%Rec
Y84G5	Primary Sample	0015085-13	CVOL	2-Hexanone-d5	84	28	135	%Rec
Y84G5	Primary Sample	0015085-13	CVOL	Benzene-d6	98	77	124	%Rec
Y84G5	Primary Sample	0015085-13	CVOL	Chloroethane-d5	121	71	131	%Rec
Y84G5	Primary Sample	0015085-13	CVOL	Chloroform-d	91	78	121	%Rec
Y84G5	Primary Sample	0015085-13	CVOL	Toluene-d8	101	77	121	%Rec
Y84G5	Primary Sample	0015085-13	CVOL	trans-1,3-Dichloropropene-d4	84	73	121	%Rec
Y84G5	Primary Sample	0015085-13	CVOL	Vinyl Chloride-d3	104	65	131	%Rec
Y84G6	Primary Sample	0015040-12	CVOL	1,1,2,2-Tetrachloroethane-d2	73	73	125	%Rec
Y84G6	Primary Sample	0015040-12	CVOL	1,1-Dichloroethene-d2	74	55	104	%Rec
Y84G6	Primary Sample	0015040-12	CVOL	1,2-Dichlorobenzene-d4	101	80	131	%Rec
Y84G6	Primary Sample	0015040-12	CVOL	1,2-Dichloroethane-d4	83	78	129	%Rec
Y84G6	Primary Sample	0015040-12	CVOL	1,2-Dichloropropane-d6	93	79	124	%Rec
Y84G6	Primary Sample	0015040-12	CVOL	2-Butanone-d5	73	49	155	%Rec
Y84G6	Primary Sample	0015040-12	CVOL	2-Hexanone-d5	69	28	135	%Rec
Y84G6	Primary Sample	0015040-12	CVOL	Benzene-d6	103	77	124	%Rec
Y84G6	Primary Sample	0015040-12	CVOL	Chloroethane-d5	120	71	131	%Rec

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y84G6	Primary Sample	0015040-12	CVOL	Chloroform-d	93	78	121	%Rec
Y84G6	Primary Sample	0015040-12	CVOL	Toluene-d8	104	77	121	%Rec
Y84G6	Primary Sample	0015040-12	CVOL	trans-1,3-Dichloropropene-d4	88	73	121	%Rec
Y84G6	Primary Sample	0015040-12	CVOL	Vinyl Chloride-d3	98	65	131	%Rec
Y84G7	Primary Sample	0015040-13	CVOL	1,1,2,2-Tetrachloroethane-d2	66	73	125	%Rec
Y84G7	Primary Sample	0015040-13	CVOL	1,1-Dichloroethene-d2	77	55	104	%Rec
Y84G7	Primary Sample	0015040-13	CVOL	1,2-Dichlorobenzene-d4	98	80	131	%Rec
Y84G7	Primary Sample	0015040-13	CVOL	1,2-Dichloroethane-d4	75	78	129	%Rec
Y84G7	Primary Sample	0015040-13	CVOL	1,2-Dichloropropane-d6	89	79	124	%Rec
Y84G7	Primary Sample	0015040-13	CVOL	2-Butanone-d5	62	49	155	%Rec
Y84G7	Primary Sample	0015040-13	CVOL	2-Hexanone-d5	54	28	135	%Rec
Y84G7	Primary Sample	0015040-13	CVOL	Benzene-d6	102	77	124	%Rec
Y84G7	Primary Sample	0015040-13	CVOL	Chloroethane-d5	127	71	131	%Rec
Y84G7	Primary Sample	0015040-13	CVOL	Chloroform-d	92	78	121	%Rec
Y84G7	Primary Sample	0015040-13	CVOL	Toluene-d8	103	77	121	%Rec
Y84G7	Primary Sample	0015040-13	CVOL	trans-1,3-Dichloropropene-d4	81	73	121	%Rec
Y84G7	Primary Sample	0015040-13	CVOL	Vinyl Chloride-d3	105	65	131	%Rec
Y84G8	Primary Sample	0015021-01	CVOL	1,1,2,2-Tetrachloroethane-d2	91	73	125	%Rec
Y84G8	Primary Sample	0015021-01	CVOL	1,1-Dichloroethene-d2	79	55	104	%Rec
Y84G8	Primary Sample	0015021-01	CVOL	1,2-Dichlorobenzene-d4	110	80	131	%Rec
Y84G8	Primary Sample	0015021-01	CVOL	1,2-Dichloroethane-d4	114	78	129	%Rec
Y84G8	Primary Sample	0015021-01	CVOL	1,2-Dichloropropane-d6	111	79	124	%Rec
Y84G8	Primary Sample	0015021-01	CVOL	2-Butanone-d5	121	49	155	%Rec
Y84G8	Primary Sample	0015021-01	CVOL	2-Hexanone-d5	101	28	135	%Rec
Y84G8	Primary Sample	0015021-01	CVOL	Benzene-d6	105	77	124	%Rec
Y84G8	Primary Sample	0015021-01	CVOL	Chloroethane-d5	128	71	131	%Rec
Y84G8	Primary Sample	0015021-01	CVOL	Chloroform-d	109	78	121	%Rec
Y84G8	Primary Sample	0015021-01	CVOL	Toluene-d8	101	77	121	%Rec
Y84G8	Primary Sample	0015021-01	CVOL	trans-1,3-Dichloropropene-d4	106	73	121	%Rec
Y84G8	Primary Sample	0015021-01	CVOL	Vinyl Chloride-d3	116	65	131	%Rec
Y84G9	Primary Sample	0015021-02	CVOL	1,1,2,2-Tetrachloroethane-d2	69	73	125	%Rec
Y84G9	Primary Sample	0015021-02	CVOL	1,1-Dichloroethene-d2	74	55	104	%Rec
Y84G9	Primary Sample	0015021-02	CVOL	1,2-Dichlorobenzene-d4	97	80	131	%Rec
Y84G9	Primary Sample	0015021-02	CVOL	1,2-Dichloroethane-d4	87	78	129	%Rec
Y84G9	Primary Sample	0015021-02	CVOL	1,2-Dichloropropane-d6	91	79	124	%Rec
Y84G9	Primary Sample	0015021-02	CVOL	2-Butanone-d5	81	49	155	%Rec
Y84G9	Primary Sample	0015021-02	CVOL	2-Hexanone-d5	71	28	135	%Rec
Y84G9	Primary Sample	0015021-02	CVOL	Benzene-d6	92	77	124	%Rec
Y84G9	Primary Sample	0015021-02	CVOL	Chloroethane-d5	130	71	131	%Rec
Y84G9	Primary Sample	0015021-02	CVOL	Chloroform-d	91	78	121	%Rec
Y84G9	Primary Sample	0015021-02	CVOL	Toluene-d8	98	77	121	%Rec
Y84G9	Primary Sample	0015021-02	CVOL	trans-1,3-Dichloropropene-d4	82	73	121	%Rec
Y84G9	Primary Sample	0015021-02	CVOL	Vinyl Chloride-d3	111	65	131	%Rec
Y84H0	Duplicate Sample	0015021-03	CVOL	1,1,2,2-Tetrachloroethane-d2	70	73	125	%Rec
Y84H0	Duplicate Sample	0015021-03	CVOL	1,1-Dichloroethene-d2	76	55	104	%Rec
Y84H0	Duplicate Sample	0015021-03	CVOL	1,2-Dichlorobenzene-d4	99	80	131	%Rec
Y84H0	Duplicate Sample	0015021-03	CVOL	1,2-Dichloroethane-d4	82	78	129	%Rec
Y84H0	Duplicate Sample	0015021-03	CVOL	1,2-Dichloropropane-d6	90	79	124	%Rec
Y84H0	Duplicate Sample	0015021-03	CVOL	2-Butanone-d5	75	49	155	%Rec
Y84H0	Duplicate Sample	0015021-03	CVOL	2-Hexanone-d5	69	28	135	%Rec
Y84H0	Duplicate Sample	0015021-03	CVOL	Benzene-d6	95	77	124	%Rec
Y84H0	Duplicate Sample	0015021-03	CVOL	Chloroethane-d5	134	71	131	%Rec
Y84H0	Duplicate Sample	0015021-03	CVOL	Chloroform-d	90	78	121	%Rec
Y84H0	Duplicate Sample	0015021-03	CVOL	Toluene-d8	100	77	121	%Rec
Y84H0	Duplicate Sample	0015021-03	CVOL	trans-1,3-Dichloropropene-d4	83	73	121	%Rec
Y84H0	Duplicate Sample	0015021-03	CVOL	Vinyl Chloride-d3	115	65	131	%Rec
Y84H2	Primary Sample	0015021-05	CVOL	1,1,2,2-Tetrachloroethane-d2	106	73	125	%Rec
Y84H2	Primary Sample	0015021-05	CVOL	1,1-Dichloroethene-d2	75	55	104	%Rec
Y84H2	Primary Sample	0015021-05	CVOL	1,2-Dichlorobenzene-d4	109	80	131	%Rec
Y84H2	Primary Sample	0015021-05	CVOL	1,2-Dichloroethane-d4	120	78	129	%Rec
Y84H2	Primary Sample	0015021-05	CVOL	1,2-Dichloropropane-d6	113	79	124	%Rec
Y84H2	Primary Sample	0015021-05	CVOL	2-Butanone-d5	150	49	155	%Rec
Y84H2	Primary Sample	0015021-05	CVOL	2-Hexanone-d5	128	28	135	%Rec
Y84H2	Primary Sample	0015021-05	CVOL	Benzene-d6	102	77	124	%Rec
Y84H2	Primary Sample	0015021-05	CVOL	Chloroethane-d5	146	71	131	%Rec
Y84H2	Primary Sample	0015021-05	CVOL	Chloroform-d	106	78	121	%Rec
Y84H2	Primary Sample	0015021-05	CVOL	Toluene-d8	96	77	121	%Rec
Y84H2	Primary Sample	0015021-05	CVOL	trans-1,3-Dichloropropene-d4	114	73	121	%Rec
Y84H2	Primary Sample	0015021-05	CVOL	Vinyl Chloride-d3	113	65	131	%Rec
Y84H3	Primary Sample	0015021-06	CVOL	1,1,2,2-Tetrachloroethane-d2	75	73	125	%Rec
Y84H3	Primary Sample	0015021-06	CVOL	1,1-Dichloroethene-d2	73	55	104	%Rec
Y84H3	Primary Sample	0015021-06	CVOL	1,2-Dichlorobenzene-d4	101	80	131	%Rec
Y84H3	Primary Sample	0015021-06	CVOL	1,2-Dichloroethane-d4	89	78	129	%Rec
Y84H3	Primary Sample	0015021-06	CVOL	1,2-Dichloropropane-d6	92	79	124	%Rec
Y84H3	Primary Sample	0015021-06	CVOL	2-Butanone-d5	87	49	155	%Rec
Y84H3	Primary Sample	0015021-06	CVOL	2-Hexanone-d5	82	28	135	%Rec
Y84H3	Primary Sample	0015021-06	CVOL	Benzene-d6	92	77	124	%Rec

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y84H3	Primary Sample	0015021-06	CVOL	Chloroethane-d5	124	71	131	%Rec
Y84H3	Primary Sample	0015021-06	CVOL	Chloroform-d	92	78	121	%Rec
Y84H3	Primary Sample	0015021-06	CVOL	Toluene-d8	97	77	121	%Rec
Y84H3	Primary Sample	0015021-06	CVOL	trans-1,3-Dichloropropene-d4	87	73	121	%Rec
Y84H3	Primary Sample	0015021-06	CVOL	Vinyl Chloride-d3	106	65	131	%Rec
Y84H4	Primary Sample	0015021-07	CVOL	1,1,2,2-Tetrachloroethane-d2	80	73	125	%Rec
Y84H4	Primary Sample	0015021-07	CVOL	1,1-Dichloroethene-d2	76	55	104	%Rec
Y84H4	Primary Sample	0015021-07	CVOL	1,2-Dichlorobenzene-d4	102	80	131	%Rec
Y84H4	Primary Sample	0015021-07	CVOL	1,2-Dichloroethane-d4	87	78	129	%Rec
Y84H4	Primary Sample	0015021-07	CVOL	1,2-Dichloropropane-d6	93	79	124	%Rec
Y84H4	Primary Sample	0015021-07	CVOL	2-Butanone-d5	86	49	155	%Rec
Y84H4	Primary Sample	0015021-07	CVOL	2-Hexanone-d5	84	28	135	%Rec
Y84H4	Primary Sample	0015021-07	CVOL	Benzene-d6	92	77	124	%Rec
Y84H4	Primary Sample	0015021-07	CVOL	Chloroethane-d5	135	71	131	%Rec
Y84H4	Primary Sample	0015021-07	CVOL	Chloroform-d	94	78	121	%Rec
Y84H4	Primary Sample	0015021-07	CVOL	Toluene-d8	99	77	121	%Rec
Y84H4	Primary Sample	0015021-07	CVOL	trans-1,3-Dichloropropene-d4	88	73	121	%Rec
Y84H4	Primary Sample	0015021-07	CVOL	Vinyl Chloride-d3	113	65	131	%Rec
Y84H5	Primary Sample	0015021-08	CVOL	1,1,2,2-Tetrachloroethane-d2	87	73	125	%Rec
Y84H5	Primary Sample	0015021-08	CVOL	1,1-Dichloroethene-d2	108	55	104	%Rec
Y84H5	Primary Sample	0015021-08	CVOL	1,2-Dichlorobenzene-d4	101	80	131	%Rec
Y84H5	Primary Sample	0015021-08	CVOL	1,2-Dichloroethane-d4	108	78	129	%Rec
Y84H5	Primary Sample	0015021-08	CVOL	1,2-Dichloropropane-d6	93	79	124	%Rec
Y84H5	Primary Sample	0015021-08	CVOL	2-Butanone-d5	110	49	155	%Rec
Y84H5	Primary Sample	0015021-08	CVOL	2-Hexanone-d5	93	28	135	%Rec
Y84H5	Primary Sample	0015021-08	CVOL	Benzene-d6	97	77	124	%Rec
Y84H5	Primary Sample	0015021-08	CVOL	Chloroethane-d5	136	71	131	%Rec
Y84H5	Primary Sample	0015021-08	CVOL	Chloroform-d	99	78	121	%Rec
Y84H5	Primary Sample	0015021-08	CVOL	Toluene-d8	99	77	121	%Rec
Y84H5	Primary Sample	0015021-08	CVOL	trans-1,3-Dichloropropene-d4	98	73	121	%Rec
Y84H5	Primary Sample	0015021-08	CVOL	Vinyl Chloride-d3	137	65	131	%Rec
Y84H6	Primary Sample	0015021-09	CVOL	1,1,2,2-Tetrachloroethane-d2	82	73	125	%Rec
Y84H6	Primary Sample	0015021-09	CVOL	1,1-Dichloroethene-d2	79	55	104	%Rec
Y84H6	Primary Sample	0015021-09	CVOL	1,2-Dichlorobenzene-d4	101	80	131	%Rec
Y84H6	Primary Sample	0015021-09	CVOL	1,2-Dichloroethane-d4	102	78	129	%Rec
Y84H6	Primary Sample	0015021-09	CVOL	1,2-Dichloropropane-d6	97	79	124	%Rec
Y84H6	Primary Sample	0015021-09	CVOL	2-Butanone-d5	104	49	155	%Rec
Y84H6	Primary Sample	0015021-09	CVOL	2-Hexanone-d5	87	28	135	%Rec
Y84H6	Primary Sample	0015021-09	CVOL	Benzene-d6	100	77	124	%Rec
Y84H6	Primary Sample	0015021-09	CVOL	Chloroethane-d5	140	71	131	%Rec
Y84H6	Primary Sample	0015021-09	CVOL	Chloroform-d	99	78	121	%Rec
Y84H6	Primary Sample	0015021-09	CVOL	Toluene-d8	104	77	121	%Rec
Y84H6	Primary Sample	0015021-09	CVOL	trans-1,3-Dichloropropene-d4	91	73	121	%Rec
Y84H6	Primary Sample	0015021-09	CVOL	Vinyl Chloride-d3	141	65	131	%Rec
Y84H7	Primary Sample	0015021-10	CVOL	1,1,2,2-Tetrachloroethane-d2	74	73	125	%Rec
Y84H7	Primary Sample	0015021-10	CVOL	1,1-Dichloroethene-d2	72	55	104	%Rec
Y84H7	Primary Sample	0015021-10	CVOL	1,2-Dichlorobenzene-d4	102	80	131	%Rec
Y84H7	Primary Sample	0015021-10	CVOL	1,2-Dichloroethane-d4	89	78	129	%Rec
Y84H7	Primary Sample	0015021-10	CVOL	1,2-Dichloropropane-d6	92	79	124	%Rec
Y84H7	Primary Sample	0015021-10	CVOL	2-Butanone-d5	88	49	155	%Rec
Y84H7	Primary Sample	0015021-10	CVOL	2-Hexanone-d5	82	28	135	%Rec
Y84H7	Primary Sample	0015021-10	CVOL	Benzene-d6	93	77	124	%Rec
Y84H7	Primary Sample	0015021-10	CVOL	Chloroethane-d5	138	71	131	%Rec
Y84H7	Primary Sample	0015021-10	CVOL	Chloroform-d	95	78	121	%Rec
Y84H7	Primary Sample	0015021-10	CVOL	Toluene-d8	97	77	121	%Rec
Y84H7	Primary Sample	0015021-10	CVOL	trans-1,3-Dichloropropene-d4	82	73	121	%Rec
Y84H7	Primary Sample	0015021-10	CVOL	Vinyl Chloride-d3	111	65	131	%Rec
Y84H8	Primary Sample	0015021-11	CVOL	1,1,2,2-Tetrachloroethane-d2	72	73	125	%Rec
Y84H8	Primary Sample	0015021-11	CVOL	1,1-Dichloroethene-d2	76	55	104	%Rec
Y84H8	Primary Sample	0015021-11	CVOL	1,2-Dichlorobenzene-d4	104	80	131	%Rec
Y84H8	Primary Sample	0015021-11	CVOL	1,2-Dichloroethane-d4	90	78	129	%Rec
Y84H8	Primary Sample	0015021-11	CVOL	1,2-Dichloropropane-d6	93	79	124	%Rec
Y84H8	Primary Sample	0015021-11	CVOL	2-Butanone-d5	88	49	155	%Rec
Y84H8	Primary Sample	0015021-11	CVOL	2-Hexanone-d5	76	28	135	%Rec
Y84H8	Primary Sample	0015021-11	CVOL	Benzene-d6	97	77	124	%Rec
Y84H8	Primary Sample	0015021-11	CVOL	Chloroethane-d5	140	71	131	%Rec
Y84H8	Primary Sample	0015021-11	CVOL	Chloroform-d	95	78	121	%Rec
Y84H8	Primary Sample	0015021-11	CVOL	Toluene-d8	100	77	121	%Rec
Y84H8	Primary Sample	0015021-11	CVOL	trans-1,3-Dichloropropene-d4	88	73	121	%Rec
Y84H8	Primary Sample	0015021-11	CVOL	Vinyl Chloride-d3	112	65	131	%Rec
Y84H9	Primary Sample	0015026-01	CVOL	1,1,2,2-Tetrachloroethane-d2	78	73	125	%Rec
Y84H9	Primary Sample	0015026-01	CVOL	1,1-Dichloroethene-d2	80	55	104	%Rec
Y84H9	Primary Sample	0015026-01	CVOL	1,2-Dichlorobenzene-d4	104	80	131	%Rec
Y84H9	Primary Sample	0015026-01	CVOL	1,2-Dichloroethane-d4	90	78	129	%Rec
Y84H9	Primary Sample	0015026-01	CVOL	1,2-Dichloropropane-d6	96	79	124	%Rec
Y84H9	Primary Sample	0015026-01	CVOL	2-Butanone-d5	84	49	155	%Rec
Y84H9	Primary Sample	0015026-01	CVOL	2-Hexanone-d5	73	28	135	%Rec

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y84H9	Primary Sample	0015026-01	CVOL	Benzene-d6	97	77	124	%Rec
Y84H9	Primary Sample	0015026-01	CVOL	Chloroethane-d5	126	71	131	%Rec
Y84H9	Primary Sample	0015026-01	CVOL	Chloroform-d	96	78	121	%Rec
Y84H9	Primary Sample	0015026-01	CVOL	Toluene-d8	101	77	121	%Rec
Y84H9	Primary Sample	0015026-01	CVOL	trans-1,3-Dichloropropene-d4	89	73	121	%Rec
Y84H9	Primary Sample	0015026-01	CVOL	Vinyl Chloride-d3	118	65	131	%Rec
Y84J0	Primary Sample	0015026-02	CVOL	1,1,2,2-Tetrachloroethane-d2	78	73	125	%Rec
Y84J0	Primary Sample	0015026-02	CVOL	1,1-Dichloroethene-d2	73	55	104	%Rec
Y84J0	Primary Sample	0015026-02	CVOL	1,2-Dichlorobenzene-d4	98	80	131	%Rec
Y84J0	Primary Sample	0015026-02	CVOL	1,2-Dichloroethane-d4	83	78	129	%Rec
Y84J0	Primary Sample	0015026-02	CVOL	1,2-Dichloropropane-d6	94	79	124	%Rec
Y84J0	Primary Sample	0015026-02	CVOL	2-Butanone-d5	79	49	155	%Rec
Y84J0	Primary Sample	0015026-02	CVOL	2-Hexanone-d5	73	28	135	%Rec
Y84J0	Primary Sample	0015026-02	CVOL	Benzene-d6	95	77	124	%Rec
Y84J0	Primary Sample	0015026-02	CVOL	Chloroethane-d5	134	71	131	%Rec
Y84J0	Primary Sample	0015026-02	CVOL	Chloroform-d	93	78	121	%Rec
Y84J0	Primary Sample	0015026-02	CVOL	Toluene-d8	97	77	121	%Rec
Y84J0	Primary Sample	0015026-02	CVOL	trans-1,3-Dichloropropene-d4	86	73	121	%Rec
Y84J0	Primary Sample	0015026-02	CVOL	Vinyl Chloride-d3	115	65	131	%Rec
Y84J1	Primary Sample	0015026-03	CVOL	1,1,2,2-Tetrachloroethane-d2	69	73	125	%Rec
Y84J1	Primary Sample	0015026-03	CVOL	1,1-Dichloroethene-d2	75	55	104	%Rec
Y84J1	Primary Sample	0015026-03	CVOL	1,2-Dichlorobenzene-d4	96	80	131	%Rec
Y84J1	Primary Sample	0015026-03	CVOL	1,2-Dichloroethane-d4	82	78	129	%Rec
Y84J1	Primary Sample	0015026-03	CVOL	1,2-Dichloropropane-d6	97	79	124	%Rec
Y84J1	Primary Sample	0015026-03	CVOL	2-Butanone-d5	65	49	155	%Rec
Y84J1	Primary Sample	0015026-03	CVOL	2-Hexanone-d5	63	28	135	%Rec
Y84J1	Primary Sample	0015026-03	CVOL	Benzene-d6	98	77	124	%Rec
Y84J1	Primary Sample	0015026-03	CVOL	Chloroethane-d5	143	71	131	%Rec
Y84J1	Primary Sample	0015026-03	CVOL	Chloroform-d	92	78	121	%Rec
Y84J1	Primary Sample	0015026-03	CVOL	Toluene-d8	103	77	121	%Rec
Y84J1	Primary Sample	0015026-03	CVOL	trans-1,3-Dichloropropene-d4	87	73	121	%Rec
Y84J1	Primary Sample	0015026-03	CVOL	Vinyl Chloride-d3	114	65	131	%Rec
Y84J2	Primary Sample	0015040-14	CVOL	1,1,2,2-Tetrachloroethane-d2	79	73	125	%Rec
Y84J2	Primary Sample	0015040-14	CVOL	1,1-Dichloroethene-d2	74	55	104	%Rec
Y84J2	Primary Sample	0015040-14	CVOL	1,2-Dichlorobenzene-d4	102	80	131	%Rec
Y84J2	Primary Sample	0015040-14	CVOL	1,2-Dichloroethane-d4	94	78	129	%Rec
Y84J2	Primary Sample	0015040-14	CVOL	1,2-Dichloropropane-d6	91	79	124	%Rec
Y84J2	Primary Sample	0015040-14	CVOL	2-Butanone-d5	96	49	155	%Rec
Y84J2	Primary Sample	0015040-14	CVOL	2-Hexanone-d5	86	28	135	%Rec
Y84J2	Primary Sample	0015040-14	CVOL	Benzene-d6	101	77	124	%Rec
Y84J2	Primary Sample	0015040-14	CVOL	Chloroethane-d5	135	71	131	%Rec
Y84J2	Primary Sample	0015040-14	CVOL	Chloroform-d	97	78	121	%Rec
Y84J2	Primary Sample	0015040-14	CVOL	Toluene-d8	100	77	121	%Rec
Y84J2	Primary Sample	0015040-14	CVOL	trans-1,3-Dichloropropene-d4	81	73	121	%Rec
Y84J2	Primary Sample	0015040-14	CVOL	Vinyl Chloride-d3	129	65	131	%Rec
Y84J3	Primary Sample	0015046-05	CVOL	1,1,2,2-Tetrachloroethane-d2	70	73	125	%Rec
Y84J3	Primary Sample	0015046-05	CVOL	1,1-Dichloroethene-d2	77	55	104	%Rec
Y84J3	Primary Sample	0015046-05	CVOL	1,2-Dichlorobenzene-d4	97	80	131	%Rec
Y84J3	Primary Sample	0015046-05	CVOL	1,2-Dichloroethane-d4	90	78	129	%Rec
Y84J3	Primary Sample	0015046-05	CVOL	1,2-Dichloropropane-d6	90	79	124	%Rec
Y84J3	Primary Sample	0015046-05	CVOL	2-Butanone-d5	88	49	155	%Rec
Y84J3	Primary Sample	0015046-05	CVOL	2-Hexanone-d5	82	28	135	%Rec
Y84J3	Primary Sample	0015046-05	CVOL	Benzene-d6	95	77	124	%Rec
Y84J3	Primary Sample	0015046-05	CVOL	Chloroethane-d5	130	71	131	%Rec
Y84J3	Primary Sample	0015046-05	CVOL	Chloroform-d	96	78	121	%Rec
Y84J3	Primary Sample	0015046-05	CVOL	Toluene-d8	99	77	121	%Rec
Y84J3	Primary Sample	0015046-05	CVOL	trans-1,3-Dichloropropene-d4	85	73	121	%Rec
Y84J3	Primary Sample	0015046-05	CVOL	Vinyl Chloride-d3	129	65	131	%Rec
Y84J3DL	Primary Sample	0015046-05RE1	CVOL	1,1,2,2-Tetrachloroethane-d2	76	73	125	%Rec
Y84J3DL	Primary Sample	0015046-05RE1	CVOL	1,1-Dichloroethene-d2	89	55	104	%Rec
Y84J3DL	Primary Sample	0015046-05RE1	CVOL	1,2-Dichlorobenzene-d4	101	80	131	%Rec
Y84J3DL	Primary Sample	0015046-05RE1	CVOL	1,2-Dichloroethane-d4	90	78	129	%Rec
Y84J3DL	Primary Sample	0015046-05RE1	CVOL	1,2-Dichloropropane-d6	101	79	124	%Rec
Y84J3DL	Primary Sample	0015046-05RE1	CVOL	2-Butanone-d5	72	49	155	%Rec
Y84J3DL	Primary Sample	0015046-05RE1	CVOL	2-Hexanone-d5	61	28	135	%Rec
Y84J3DL	Primary Sample	0015046-05RE1	CVOL	Benzene-d6	112	77	124	%Rec
Y84J3DL	Primary Sample	0015046-05RE1	CVOL	Chloroethane-d5	143	71	131	%Rec
Y84J3DL	Primary Sample	0015046-05RE1	CVOL	Chloroform-d	103	78	121	%Rec
Y84J3DL	Primary Sample	0015046-05RE1	CVOL	Toluene-d8	112	77	121	%Rec
Y84J3DL	Primary Sample	0015046-05RE1	CVOL	trans-1,3-Dichloropropene-d4	91	73	121	%Rec
Y84J3DL	Primary Sample	0015046-05RE1	CVOL	Vinyl Chloride-d3	122	65	131	%Rec
Y84J4	Primary Sample	0015040-15	CVOL	1,1,2,2-Tetrachloroethane-d2	69	73	125	%Rec
Y84J4	Primary Sample	0015040-15	CVOL	1,1-Dichloroethene-d2	80	55	104	%Rec
Y84J4	Primary Sample	0015040-15	CVOL	1,2-Dichlorobenzene-d4	97	80	131	%Rec
Y84J4	Primary Sample	0015040-15	CVOL	1,2-Dichloroethane-d4	77	78	129	%Rec
Y84J4	Primary Sample	0015040-15	CVOL	1,2-Dichloropropane-d6	89	79	124	%Rec
Y84J4	Primary Sample	0015040-15	CVOL	2-Butanone-d5	69	49	155	%Rec

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y84J4	Primary Sample	0015040-15	CVOL	2-Hexanone-d5	64	28	135	%Rec
Y84J4	Primary Sample	0015040-15	CVOL	Benzene-d6	101	77	124	%Rec
Y84J4	Primary Sample	0015040-15	CVOL	Chloroethane-d5	121	71	131	%Rec
Y84J4	Primary Sample	0015040-15	CVOL	Chloroform-d	91	78	121	%Rec
Y84J4	Primary Sample	0015040-15	CVOL	Toluene-d8	103	77	121	%Rec
Y84J4	Primary Sample	0015040-15	CVOL	trans-1,3-Dichloropropene-d4	84	73	121	%Rec
Y84J4	Primary Sample	0015040-15	CVOL	Vinyl Chloride-d3	103	65	131	%Rec
Y84J5	Primary Sample	0015031-15	CVOL	1,1,2,2-Tetrachloroethane-d2	75	73	125	%Rec
Y84J5	Primary Sample	0015031-15	CVOL	1,1-Dichloroethene-d2	76	55	104	%Rec
Y84J5	Primary Sample	0015031-15	CVOL	1,2-Dichlorobenzene-d4	98	80	131	%Rec
Y84J5	Primary Sample	0015031-15	CVOL	1,2-Dichloroethane-d4	89	78	129	%Rec
Y84J5	Primary Sample	0015031-15	CVOL	1,2-Dichloropropane-d6	88	79	124	%Rec
Y84J5	Primary Sample	0015031-15	CVOL	2-Butanone-d5	83	49	155	%Rec
Y84J5	Primary Sample	0015031-15	CVOL	2-Hexanone-d5	75	28	135	%Rec
Y84J5	Primary Sample	0015031-15	CVOL	Benzene-d6	99	77	124	%Rec
Y84J5	Primary Sample	0015031-15	CVOL	Chloroethane-d5	128	71	131	%Rec
Y84J5	Primary Sample	0015031-15	CVOL	Chloroform-d	96	78	121	%Rec
Y84J5	Primary Sample	0015031-15	CVOL	Toluene-d8	100	77	121	%Rec
Y84J5	Primary Sample	0015031-15	CVOL	trans-1,3-Dichloropropene-d4	82	73	121	%Rec
Y84J5	Primary Sample	0015031-15	CVOL	Vinyl Chloride-d3	130	65	131	%Rec
Y84J6	Primary Sample	0015031-16	CVOL	1,1,2,2-Tetrachloroethane-d2	72	73	125	%Rec
Y84J6	Primary Sample	0015031-16	CVOL	1,1-Dichloroethene-d2	75	55	104	%Rec
Y84J6	Primary Sample	0015031-16	CVOL	1,2-Dichlorobenzene-d4	97	80	131	%Rec
Y84J6	Primary Sample	0015031-16	CVOL	1,2-Dichloroethane-d4	86	78	129	%Rec
Y84J6	Primary Sample	0015031-16	CVOL	1,2-Dichloropropane-d6	88	79	124	%Rec
Y84J6	Primary Sample	0015031-16	CVOL	2-Butanone-d5	79	49	155	%Rec
Y84J6	Primary Sample	0015031-16	CVOL	2-Hexanone-d5	74	28	135	%Rec
Y84J6	Primary Sample	0015031-16	CVOL	Benzene-d6	96	77	124	%Rec
Y84J6	Primary Sample	0015031-16	CVOL	Chloroethane-d5	116	71	131	%Rec
Y84J6	Primary Sample	0015031-16	CVOL	Chloroform-d	90	78	121	%Rec
Y84J6	Primary Sample	0015031-16	CVOL	Toluene-d8	101	77	121	%Rec
Y84J6	Primary Sample	0015031-16	CVOL	trans-1,3-Dichloropropene-d4	85	73	121	%Rec
Y84J6	Primary Sample	0015031-16	CVOL	Vinyl Chloride-d3	121	65	131	%Rec
Y84J7	Primary Sample	0015046-06	CVOL	1,1,2,2-Tetrachloroethane-d2	73	73	125	%Rec
Y84J7	Primary Sample	0015046-06	CVOL	1,1-Dichloroethene-d2	78	55	104	%Rec
Y84J7	Primary Sample	0015046-06	CVOL	1,2-Dichlorobenzene-d4	101	80	131	%Rec
Y84J7	Primary Sample	0015046-06	CVOL	1,2-Dichloroethane-d4	89	78	129	%Rec
Y84J7	Primary Sample	0015046-06	CVOL	1,2-Dichloropropane-d6	90	79	124	%Rec
Y84J7	Primary Sample	0015046-06	CVOL	2-Butanone-d5	92	49	155	%Rec
Y84J7	Primary Sample	0015046-06	CVOL	2-Hexanone-d5	82	28	135	%Rec
Y84J7	Primary Sample	0015046-06	CVOL	Benzene-d6	100	77	124	%Rec
Y84J7	Primary Sample	0015046-06	CVOL	Chloroethane-d5	132	71	131	%Rec
Y84J7	Primary Sample	0015046-06	CVOL	Chloroform-d	97	78	121	%Rec
Y84J7	Primary Sample	0015046-06	CVOL	Toluene-d8	99	77	121	%Rec
Y84J7	Primary Sample	0015046-06	CVOL	trans-1,3-Dichloropropene-d4	86	73	121	%Rec
Y84J7	Primary Sample	0015046-06	CVOL	Vinyl Chloride-d3	132	65	131	%Rec
Y84J8	Primary Sample	0015046-07	CVOL	1,1,2,2-Tetrachloroethane-d2	74	73	125	%Rec
Y84J8	Primary Sample	0015046-07	CVOL	1,1-Dichloroethene-d2	76	55	104	%Rec
Y84J8	Primary Sample	0015046-07	CVOL	1,2-Dichlorobenzene-d4	105	80	131	%Rec
Y84J8	Primary Sample	0015046-07	CVOL	1,2-Dichloroethane-d4	91	78	129	%Rec
Y84J8	Primary Sample	0015046-07	CVOL	1,2-Dichloropropane-d6	96	79	124	%Rec
Y84J8	Primary Sample	0015046-07	CVOL	2-Butanone-d5	83	49	155	%Rec
Y84J8	Primary Sample	0015046-07	CVOL	2-Hexanone-d5	81	28	135	%Rec
Y84J8	Primary Sample	0015046-07	CVOL	Benzene-d6	101	77	124	%Rec
Y84J8	Primary Sample	0015046-07	CVOL	Chloroethane-d5	138	71	131	%Rec
Y84J8	Primary Sample	0015046-07	CVOL	Chloroform-d	102	78	121	%Rec
Y84J8	Primary Sample	0015046-07	CVOL	Toluene-d8	100	77	121	%Rec
Y84J8	Primary Sample	0015046-07	CVOL	trans-1,3-Dichloropropene-d4	87	73	121	%Rec
Y84J8	Primary Sample	0015046-07	CVOL	Vinyl Chloride-d3	139	65	131	%Rec
Y84J9	Primary Sample	0015031-17	CVOL	1,1,2,2-Tetrachloroethane-d2	70	73	125	%Rec
Y84J9	Primary Sample	0015031-17	CVOL	1,1-Dichloroethene-d2	74	55	104	%Rec
Y84J9	Primary Sample	0015031-17	CVOL	1,2-Dichlorobenzene-d4	104	80	131	%Rec
Y84J9	Primary Sample	0015031-17	CVOL	1,2-Dichloroethane-d4	86	78	129	%Rec
Y84J9	Primary Sample	0015031-17	CVOL	1,2-Dichloropropane-d6	93	79	124	%Rec
Y84J9	Primary Sample	0015031-17	CVOL	2-Butanone-d5	85	49	155	%Rec
Y84J9	Primary Sample	0015031-17	CVOL	2-Hexanone-d5	77	28	135	%Rec
Y84J9	Primary Sample	0015031-17	CVOL	Benzene-d6	98	77	124	%Rec
Y84J9	Primary Sample	0015031-17	CVOL	Chloroethane-d5	122	71	131	%Rec
Y84J9	Primary Sample	0015031-17	CVOL	Chloroform-d	94	78	121	%Rec
Y84J9	Primary Sample	0015031-17	CVOL	Toluene-d8	103	77	121	%Rec
Y84J9	Primary Sample	0015031-17	CVOL	trans-1,3-Dichloropropene-d4	89	73	121	%Rec
Y84J9	Primary Sample	0015031-17	CVOL	Vinyl Chloride-d3	122	65	131	%Rec
Y84K0	Primary Sample	0015031-18	CVOL	1,1,2,2-Tetrachloroethane-d2	67	73	125	%Rec
Y84K0	Primary Sample	0015031-18	CVOL	1,1-Dichloroethene-d2	79	55	104	%Rec
Y84K0	Primary Sample	0015031-18	CVOL	1,2-Dichlorobenzene-d4	100	80	131	%Rec
Y84K0	Primary Sample	0015031-18	CVOL	1,2-Dichloroethane-d4	84	78	129	%Rec
Y84K0	Primary Sample	0015031-18	CVOL	1,2-Dichloropropane-d6	88	79	124	%Rec

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y84K0	Primary Sample	0015031-18	CVOL	2-Butanone-d5	71	49	155	%Rec
Y84K0	Primary Sample	0015031-18	CVOL	2-Hexanone-d5	62	28	135	%Rec
Y84K0	Primary Sample	0015031-18	CVOL	Benzene-d6	101	77	124	%Rec
Y84K0	Primary Sample	0015031-18	CVOL	Chloroethane-d5	137	71	131	%Rec
Y84K0	Primary Sample	0015031-18	CVOL	Chloroform-d	99	78	121	%Rec
Y84K0	Primary Sample	0015031-18	CVOL	Toluene-d8	103	77	121	%Rec
Y84K0	Primary Sample	0015031-18	CVOL	trans-1,3-Dichloropropene-d4	78	73	121	%Rec
Y84K0	Primary Sample	0015031-18	CVOL	Vinyl Chloride-d3	139	65	131	%Rec
Y84K1	Primary Sample	0015059-12	CVOL	1,1,2,2-Tetrachloroethane-d2	73	73	125	%Rec
Y84K1	Primary Sample	0015059-12	CVOL	1,1-Dichloroethene-d2	81	55	104	%Rec
Y84K1	Primary Sample	0015059-12	CVOL	1,2-Dichlorobenzene-d4	107	80	131	%Rec
Y84K1	Primary Sample	0015059-12	CVOL	1,2-Dichloroethane-d4	79	78	129	%Rec
Y84K1	Primary Sample	0015059-12	CVOL	1,2-Dichloropropane-d6	89	79	124	%Rec
Y84K1	Primary Sample	0015059-12	CVOL	2-Butanone-d5	69	49	155	%Rec
Y84K1	Primary Sample	0015059-12	CVOL	2-Hexanone-d5	70	28	135	%Rec
Y84K1	Primary Sample	0015059-12	CVOL	Benzene-d6	105	77	124	%Rec
Y84K1	Primary Sample	0015059-12	CVOL	Chloroethane-d5	126	71	131	%Rec
Y84K1	Primary Sample	0015059-12	CVOL	Chloroform-d	94	78	121	%Rec
Y84K1	Primary Sample	0015059-12	CVOL	Toluene-d8	108	77	121	%Rec
Y84K1	Primary Sample	0015059-12	CVOL	trans-1,3-Dichloropropene-d4	84	73	121	%Rec
Y84K1	Primary Sample	0015059-12	CVOL	Vinyl Chloride-d3	113	65	131	%Rec
Y84K2	Primary Sample	0015060-01	CVOL	1,1,2,2-Tetrachloroethane-d2	75	73	125	%Rec
Y84K2	Primary Sample	0015060-01	CVOL	1,1-Dichloroethene-d2	77	55	104	%Rec
Y84K2	Primary Sample	0015060-01	CVOL	1,2-Dichlorobenzene-d4	103	80	131	%Rec
Y84K2	Primary Sample	0015060-01	CVOL	1,2-Dichloroethane-d4	82	78	129	%Rec
Y84K2	Primary Sample	0015060-01	CVOL	1,2-Dichloropropane-d6	88	79	124	%Rec
Y84K2	Primary Sample	0015060-01	CVOL	2-Butanone-d5	76	49	155	%Rec
Y84K2	Primary Sample	0015060-01	CVOL	2-Hexanone-d5	74	28	135	%Rec
Y84K2	Primary Sample	0015060-01	CVOL	Benzene-d6	102	77	124	%Rec
Y84K2	Primary Sample	0015060-01	CVOL	Chloroethane-d5	125	71	131	%Rec
Y84K2	Primary Sample	0015060-01	CVOL	Chloroform-d	93	78	121	%Rec
Y84K2	Primary Sample	0015060-01	CVOL	Toluene-d8	106	77	121	%Rec
Y84K2	Primary Sample	0015060-01	CVOL	trans-1,3-Dichloropropene-d4	84	73	121	%Rec
Y84K2	Primary Sample	0015060-01	CVOL	Vinyl Chloride-d3	109	65	131	%Rec
Y84K3	Primary Sample	0015060-02	CVOL	1,1,2,2-Tetrachloroethane-d2	82	73	125	%Rec
Y84K3	Primary Sample	0015060-02	CVOL	1,1-Dichloroethene-d2	71	55	104	%Rec
Y84K3	Primary Sample	0015060-02	CVOL	1,2-Dichlorobenzene-d4	104	80	131	%Rec
Y84K3	Primary Sample	0015060-02	CVOL	1,2-Dichloroethane-d4	80	78	129	%Rec
Y84K3	Primary Sample	0015060-02	CVOL	1,2-Dichloropropane-d6	87	79	124	%Rec
Y84K3	Primary Sample	0015060-02	CVOL	2-Butanone-d5	80	49	155	%Rec
Y84K3	Primary Sample	0015060-02	CVOL	2-Hexanone-d5	81	28	135	%Rec
Y84K3	Primary Sample	0015060-02	CVOL	Benzene-d6	101	77	124	%Rec
Y84K3	Primary Sample	0015060-02	CVOL	Chloroethane-d5	120	71	131	%Rec
Y84K3	Primary Sample	0015060-02	CVOL	Chloroform-d	91	78	121	%Rec
Y84K3	Primary Sample	0015060-02	CVOL	Toluene-d8	102	77	121	%Rec
Y84K3	Primary Sample	0015060-02	CVOL	trans-1,3-Dichloropropene-d4	83	73	121	%Rec
Y84K3	Primary Sample	0015060-02	CVOL	Vinyl Chloride-d3	105	65	131	%Rec
Y84K4	Duplicate Sample	0015060-03	CVOL	1,1,2,2-Tetrachloroethane-d2	79	73	125	%Rec
Y84K4	Duplicate Sample	0015060-03	CVOL	1,1-Dichloroethene-d2	72	55	104	%Rec
Y84K4	Duplicate Sample	0015060-03	CVOL	1,2-Dichlorobenzene-d4	104	80	131	%Rec
Y84K4	Duplicate Sample	0015060-03	CVOL	1,2-Dichloroethane-d4	81	78	129	%Rec
Y84K4	Duplicate Sample	0015060-03	CVOL	1,2-Dichloropropane-d6	85	79	124	%Rec
Y84K4	Duplicate Sample	0015060-03	CVOL	2-Butanone-d5	76	49	155	%Rec
Y84K4	Duplicate Sample	0015060-03	CVOL	2-Hexanone-d5	77	28	135	%Rec
Y84K4	Duplicate Sample	0015060-03	CVOL	Benzene-d6	98	77	124	%Rec
Y84K4	Duplicate Sample	0015060-03	CVOL	Chloroethane-d5	120	71	131	%Rec
Y84K4	Duplicate Sample	0015060-03	CVOL	Chloroform-d	91	78	121	%Rec
Y84K4	Duplicate Sample	0015060-03	CVOL	Toluene-d8	101	77	121	%Rec
Y84K4	Duplicate Sample	0015060-03	CVOL	trans-1,3-Dichloropropene-d4	81	73	121	%Rec
Y84K4	Duplicate Sample	0015060-03	CVOL	Vinyl Chloride-d3	101	65	131	%Rec
Y84K6	Primary Sample	0015040-16	CVOL	1,1,2,2-Tetrachloroethane-d2	65	73	125	%Rec
Y84K6	Primary Sample	0015040-16	CVOL	1,1-Dichloroethene-d2	81	55	104	%Rec
Y84K6	Primary Sample	0015040-16	CVOL	1,2-Dichlorobenzene-d4	97	80	131	%Rec
Y84K6	Primary Sample	0015040-16	CVOL	1,2-Dichloroethane-d4	76	78	129	%Rec
Y84K6	Primary Sample	0015040-16	CVOL	1,2-Dichloropropane-d6	93	79	124	%Rec
Y84K6	Primary Sample	0015040-16	CVOL	2-Butanone-d5	60	49	155	%Rec
Y84K6	Primary Sample	0015040-16	CVOL	2-Hexanone-d5	57	28	135	%Rec
Y84K6	Primary Sample	0015040-16	CVOL	Benzene-d6	107	77	124	%Rec
Y84K6	Primary Sample	0015040-16	CVOL	Chloroethane-d5	132	71	131	%Rec
Y84K6	Primary Sample	0015040-16	CVOL	Chloroform-d	93	78	121	%Rec
Y84K6	Primary Sample	0015040-16	CVOL	Toluene-d8	108	77	121	%Rec
Y84K6	Primary Sample	0015040-16	CVOL	trans-1,3-Dichloropropene-d4	82	73	121	%Rec
Y84K6	Primary Sample	0015040-16	CVOL	Vinyl Chloride-d3	111	65	131	%Rec
Y84K7	Primary Sample	0015040-17	CVOL	1,1,2,2-Tetrachloroethane-d2	70	73	125	%Rec
Y84K7	Primary Sample	0015040-17	CVOL	1,1-Dichloroethene-d2	79	55	104	%Rec
Y84K7	Primary Sample	0015040-17	CVOL	1,2-Dichlorobenzene-d4	100	80	131	%Rec
Y84K7	Primary Sample	0015040-17	CVOL	1,2-Dichloroethane-d4	82	78	129	%Rec

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y84K7	Primary Sample	0015040-17	CVOL	1,2-Dichloropropane-d6	93	79	124	%Rec
Y84K7	Primary Sample	0015040-17	CVOL	2-Butanone-d5	68	49	155	%Rec
Y84K7	Primary Sample	0015040-17	CVOL	2-Hexanone-d5	67	28	135	%Rec
Y84K7	Primary Sample	0015040-17	CVOL	Benzene-d6	104	77	124	%Rec
Y84K7	Primary Sample	0015040-17	CVOL	Chloroethane-d5	124	71	131	%Rec
Y84K7	Primary Sample	0015040-17	CVOL	Chloroform-d	92	78	121	%Rec
Y84K7	Primary Sample	0015040-17	CVOL	Toluene-d8	105	77	121	%Rec
Y84K7	Primary Sample	0015040-17	CVOL	trans-1,3-Dichloropropene-d4	85	73	121	%Rec
Y84K7	Primary Sample	0015040-17	CVOL	Vinyl Chloride-d3	104	65	131	%Rec
Y84K7DL	Primary Sample	0015040-17RE1	CVOL	1,1,2,2-Tetrachloroethane-d2	68	73	125	%Rec
Y84K7DL	Primary Sample	0015040-17RE1	CVOL	1,1-Dichloroethene-d2	79	55	104	%Rec
Y84K7DL	Primary Sample	0015040-17RE1	CVOL	1,2-Dichlorobenzene-d4	99	80	131	%Rec
Y84K7DL	Primary Sample	0015040-17RE1	CVOL	1,2-Dichloroethane-d4	81	78	129	%Rec
Y84K7DL	Primary Sample	0015040-17RE1	CVOL	1,2-Dichloropropane-d6	92	79	124	%Rec
Y84K7DL	Primary Sample	0015040-17RE1	CVOL	2-Butanone-d5	66	49	155	%Rec
Y84K7DL	Primary Sample	0015040-17RE1	CVOL	2-Hexanone-d5	57	28	135	%Rec
Y84K7DL	Primary Sample	0015040-17RE1	CVOL	Benzene-d6	102	77	124	%Rec
Y84K7DL	Primary Sample	0015040-17RE1	CVOL	Chloroethane-d5	127	71	131	%Rec
Y84K7DL	Primary Sample	0015040-17RE1	CVOL	Chloroform-d	94	78	121	%Rec
Y84K7DL	Primary Sample	0015040-17RE1	CVOL	Toluene-d8	104	77	121	%Rec
Y84K7DL	Primary Sample	0015040-17RE1	CVOL	trans-1,3-Dichloropropene-d4	82	73	121	%Rec
Y84K7DL	Primary Sample	0015040-17RE1	CVOL	Vinyl Chloride-d3	108	65	131	%Rec
Y84K8	Primary Sample	0015040-18	CVOL	1,1,2,2-Tetrachloroethane-d2	82	73	125	%Rec
Y84K8	Primary Sample	0015040-18	CVOL	1,1-Dichloroethene-d2	74	55	104	%Rec
Y84K8	Primary Sample	0015040-18	CVOL	1,2-Dichlorobenzene-d4	105	80	131	%Rec
Y84K8	Primary Sample	0015040-18	CVOL	1,2-Dichloroethane-d4	94	78	129	%Rec
Y84K8	Primary Sample	0015040-18	CVOL	1,2-Dichloropropane-d6	94	79	124	%Rec
Y84K8	Primary Sample	0015040-18	CVOL	2-Butanone-d5	98	49	155	%Rec
Y84K8	Primary Sample	0015040-18	CVOL	2-Hexanone-d5	97	28	135	%Rec
Y84K8	Primary Sample	0015040-18	CVOL	Benzene-d6	103	77	124	%Rec
Y84K8	Primary Sample	0015040-18	CVOL	Chloroethane-d5	139	71	131	%Rec
Y84K8	Primary Sample	0015040-18	CVOL	Chloroform-d	98	78	121	%Rec
Y84K8	Primary Sample	0015040-18	CVOL	Toluene-d8	102	77	121	%Rec
Y84K8	Primary Sample	0015040-18	CVOL	trans-1,3-Dichloropropene-d4	91	73	121	%Rec
Y84K8	Primary Sample	0015040-18	CVOL	Vinyl Chloride-d3	131	65	131	%Rec
Y84K8DL	Primary Sample	0015040-18RE1	CVOL	1,1,2,2-Tetrachloroethane-d2	81	73	125	%Rec
Y84K8DL	Primary Sample	0015040-18RE1	CVOL	1,1-Dichloroethene-d2	77	55	104	%Rec
Y84K8DL	Primary Sample	0015040-18RE1	CVOL	1,2-Dichlorobenzene-d4	100	80	131	%Rec
Y84K8DL	Primary Sample	0015040-18RE1	CVOL	1,2-Dichloroethane-d4	88	78	129	%Rec
Y84K8DL	Primary Sample	0015040-18RE1	CVOL	1,2-Dichloropropane-d6	91	79	124	%Rec
Y84K8DL	Primary Sample	0015040-18RE1	CVOL	2-Butanone-d5	86	49	155	%Rec
Y84K8DL	Primary Sample	0015040-18RE1	CVOL	2-Hexanone-d5	73	28	135	%Rec
Y84K8DL	Primary Sample	0015040-18RE1	CVOL	Benzene-d6	100	77	124	%Rec
Y84K8DL	Primary Sample	0015040-18RE1	CVOL	Chloroethane-d5	128	71	131	%Rec
Y84K8DL	Primary Sample	0015040-18RE1	CVOL	Chloroform-d	97	78	121	%Rec
Y84K8DL	Primary Sample	0015040-18RE1	CVOL	Toluene-d8	101	77	121	%Rec
Y84K8DL	Primary Sample	0015040-18RE1	CVOL	trans-1,3-Dichloropropene-d4	93	73	121	%Rec
Y84K8DL	Primary Sample	0015040-18RE1	CVOL	Vinyl Chloride-d3	104	65	131	%Rec
Y84K9	Primary Sample	0015031-19	CVOL	1,1,2,2-Tetrachloroethane-d2	68	73	125	%Rec
Y84K9	Primary Sample	0015031-19	CVOL	1,1-Dichloroethene-d2	87	55	104	%Rec
Y84K9	Primary Sample	0015031-19	CVOL	1,2-Dichlorobenzene-d4	98	80	131	%Rec
Y84K9	Primary Sample	0015031-19	CVOL	1,2-Dichloroethane-d4	84	78	129	%Rec
Y84K9	Primary Sample	0015031-19	CVOL	1,2-Dichloropropane-d6	96	79	124	%Rec
Y84K9	Primary Sample	0015031-19	CVOL	2-Butanone-d5	70	49	155	%Rec
Y84K9	Primary Sample	0015031-19	CVOL	2-Hexanone-d5	68	28	135	%Rec
Y84K9	Primary Sample	0015031-19	CVOL	Benzene-d6	101	77	124	%Rec
Y84K9	Primary Sample	0015031-19	CVOL	Chloroethane-d5	126	71	131	%Rec
Y84K9	Primary Sample	0015031-19	CVOL	Chloroform-d	95	78	121	%Rec
Y84K9	Primary Sample	0015031-19	CVOL	Toluene-d8	104	77	121	%Rec
Y84K9	Primary Sample	0015031-19	CVOL	trans-1,3-Dichloropropene-d4	85	73	121	%Rec
Y84K9	Primary Sample	0015031-19	CVOL	Vinyl Chloride-d3	129	65	131	%Rec
Y84K9DL	Primary Sample	0015031-19RE1	CVOL	1,1,2,2-Tetrachloroethane-d2	82	73	125	%Rec
Y84K9DL	Primary Sample	0015031-19RE1	CVOL	1,1-Dichloroethene-d2	78	55	104	%Rec
Y84K9DL	Primary Sample	0015031-19RE1	CVOL	1,2-Dichlorobenzene-d4	102	80	131	%Rec
Y84K9DL	Primary Sample	0015031-19RE1	CVOL	1,2-Dichloroethane-d4	101	78	129	%Rec
Y84K9DL	Primary Sample	0015031-19RE1	CVOL	1,2-Dichloropropane-d6	97	79	124	%Rec
Y84K9DL	Primary Sample	0015031-19RE1	CVOL	2-Butanone-d5	97	49	155	%Rec
Y84K9DL	Primary Sample	0015031-19RE1	CVOL	2-Hexanone-d5	88	28	135	%Rec
Y84K9DL	Primary Sample	0015031-19RE1	CVOL	Benzene-d6	100	77	124	%Rec
Y84K9DL	Primary Sample	0015031-19RE1	CVOL	Chloroethane-d5	138	71	131	%Rec
Y84K9DL	Primary Sample	0015031-19RE1	CVOL	Chloroform-d	98	78	121	%Rec
Y84K9DL	Primary Sample	0015031-19RE1	CVOL	Toluene-d8	101	77	121	%Rec
Y84K9DL	Primary Sample	0015031-19RE1	CVOL	trans-1,3-Dichloropropene-d4	93	73	121	%Rec
Y84K9DL	Primary Sample	0015031-19RE1	CVOL	Vinyl Chloride-d3	136	65	131	%Rec
Y84L0	Duplicate Sample	0015031-20	CVOL	1,1,2,2-Tetrachloroethane-d2	73	73	125	%Rec
Y84L0	Duplicate Sample	0015031-20	CVOL	1,1-Dichloroethene-d2	77	55	104	%Rec
Y84L0	Duplicate Sample	0015031-20	CVOL	1,2-Dichlorobenzene-d4	99	80	131	%Rec

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y84L0	Duplicate Sample	0015031-20	CVOL	1,2-Dichloroethane-d4	88	78	129	%Rec
Y84L0	Duplicate Sample	0015031-20	CVOL	1,2-Dichloropropane-d6	87	79	124	%Rec
Y84L0	Duplicate Sample	0015031-20	CVOL	2-Butanone-d5	83	49	155	%Rec
Y84L0	Duplicate Sample	0015031-20	CVOL	2-Hexanone-d5	80	28	135	%Rec
Y84L0	Duplicate Sample	0015031-20	CVOL	Benzene-d6	97	77	124	%Rec
Y84L0	Duplicate Sample	0015031-20	CVOL	Chloroethane-d5	127	71	131	%Rec
Y84L0	Duplicate Sample	0015031-20	CVOL	Chloroform-d	94	78	121	%Rec
Y84L0	Duplicate Sample	0015031-20	CVOL	Toluene-d8	101	77	121	%Rec
Y84L0	Duplicate Sample	0015031-20	CVOL	trans-1,3-Dichloropropene-d4	86	73	121	%Rec
Y84L0	Duplicate Sample	0015031-20	CVOL	Vinyl Chloride-d3	128	65	131	%Rec
Y84L0DL	Duplicate Sample	0015031-20RE1	CVOL	1,1,2,2-Tetrachloroethane-d2	98	73	125	%Rec
Y84L0DL	Duplicate Sample	0015031-20RE1	CVOL	1,1-Dichloroethene-d2	82	55	104	%Rec
Y84L0DL	Duplicate Sample	0015031-20RE1	CVOL	1,2-Dichlorobenzene-d4	106	80	131	%Rec
Y84L0DL	Duplicate Sample	0015031-20RE1	CVOL	1,2-Dichloroethane-d4	114	78	129	%Rec
Y84L0DL	Duplicate Sample	0015031-20RE1	CVOL	1,2-Dichloropropane-d6	101	79	124	%Rec
Y84L0DL	Duplicate Sample	0015031-20RE1	CVOL	2-Butanone-d5	111	49	155	%Rec
Y84L0DL	Duplicate Sample	0015031-20RE1	CVOL	2-Hexanone-d5	106	28	135	%Rec
Y84L0DL	Duplicate Sample	0015031-20RE1	CVOL	Benzene-d6	107	77	124	%Rec
Y84L0DL	Duplicate Sample	0015031-20RE1	CVOL	Chloroethane-d5	148	71	131	%Rec
Y84L0DL	Duplicate Sample	0015031-20RE1	CVOL	Chloroform-d	105	78	121	%Rec
Y84L0DL	Duplicate Sample	0015031-20RE1	CVOL	Toluene-d8	104	77	121	%Rec
Y84L0DL	Duplicate Sample	0015031-20RE1	CVOL	trans-1,3-Dichloropropene-d4	101	73	121	%Rec
Y84L0DL	Duplicate Sample	0015031-20RE1	CVOL	Vinyl Chloride-d3	137	65	131	%Rec
Y84L2	Primary Sample	0015087-01	CVOL	1,1,2,2-Tetrachloroethane-d2	72	73	125	%Rec
Y84L2	Primary Sample	0015087-01	CVOL	1,1-Dichloroethene-d2	78	55	104	%Rec
Y84L2	Primary Sample	0015087-01	CVOL	1,2-Dichlorobenzene-d4	103	80	131	%Rec
Y84L2	Primary Sample	0015087-01	CVOL	1,2-Dichloroethane-d4	79	78	129	%Rec
Y84L2	Primary Sample	0015087-01	CVOL	1,2-Dichloropropane-d6	87	79	124	%Rec
Y84L2	Primary Sample	0015087-01	CVOL	2-Butanone-d5	68	49	155	%Rec
Y84L2	Primary Sample	0015087-01	CVOL	2-Hexanone-d5	65	28	135	%Rec
Y84L2	Primary Sample	0015087-01	CVOL	Benzene-d6	106	77	124	%Rec
Y84L2	Primary Sample	0015087-01	CVOL	Chloroethane-d5	127	71	131	%Rec
Y84L2	Primary Sample	0015087-01	CVOL	Chloroform-d	92	78	121	%Rec
Y84L2	Primary Sample	0015087-01	CVOL	Toluene-d8	108	77	121	%Rec
Y84L2	Primary Sample	0015087-01	CVOL	trans-1,3-Dichloropropene-d4	82	73	121	%Rec
Y84L2	Primary Sample	0015087-01	CVOL	Vinyl Chloride-d3	115	65	131	%Rec
Y84L3	Primary Sample	0015026-04	CVOL	1,1,2,2-Tetrachloroethane-d2	70	73	125	%Rec
Y84L3	Primary Sample	0015026-04	CVOL	1,1-Dichloroethene-d2	77	55	104	%Rec
Y84L3	Primary Sample	0015026-04	CVOL	1,2-Dichlorobenzene-d4	98	80	131	%Rec
Y84L3	Primary Sample	0015026-04	CVOL	1,2-Dichloroethane-d4	91	78	129	%Rec
Y84L3	Primary Sample	0015026-04	CVOL	1,2-Dichloropropane-d6	96	79	124	%Rec
Y84L3	Primary Sample	0015026-04	CVOL	2-Butanone-d5	81	49	155	%Rec
Y84L3	Primary Sample	0015026-04	CVOL	2-Hexanone-d5	71	28	135	%Rec
Y84L3	Primary Sample	0015026-04	CVOL	Benzene-d6	96	77	124	%Rec
Y84L3	Primary Sample	0015026-04	CVOL	Chloroethane-d5	139	71	131	%Rec
Y84L3	Primary Sample	0015026-04	CVOL	Chloroform-d	95	78	121	%Rec
Y84L3	Primary Sample	0015026-04	CVOL	Toluene-d8	99	77	121	%Rec
Y84L3	Primary Sample	0015026-04	CVOL	trans-1,3-Dichloropropene-d4	82	73	121	%Rec
Y84L3	Primary Sample	0015026-04	CVOL	Vinyl Chloride-d3	117	65	131	%Rec
Y84L4	Primary Sample	0015085-14	CVOL	1,1,2,2-Tetrachloroethane-d2	78	73	125	%Rec
Y84L4	Primary Sample	0015085-14	CVOL	1,1-Dichloroethene-d2	76	55	104	%Rec
Y84L4	Primary Sample	0015085-14	CVOL	1,2-Dichlorobenzene-d4	109	80	131	%Rec
Y84L4	Primary Sample	0015085-14	CVOL	1,2-Dichloroethane-d4	82	78	129	%Rec
Y84L4	Primary Sample	0015085-14	CVOL	1,2-Dichloropropane-d6	91	79	124	%Rec
Y84L4	Primary Sample	0015085-14	CVOL	2-Butanone-d5	72	49	155	%Rec
Y84L4	Primary Sample	0015085-14	CVOL	2-Hexanone-d5	73	28	135	%Rec
Y84L4	Primary Sample	0015085-14	CVOL	Benzene-d6	108	77	124	%Rec
Y84L4	Primary Sample	0015085-14	CVOL	Chloroethane-d5	130	71	131	%Rec
Y84L4	Primary Sample	0015085-14	CVOL	Chloroform-d	95	78	121	%Rec
Y84L4	Primary Sample	0015085-14	CVOL	Toluene-d8	107	77	121	%Rec
Y84L4	Primary Sample	0015085-14	CVOL	trans-1,3-Dichloropropene-d4	81	73	121	%Rec
Y84L4	Primary Sample	0015085-14	CVOL	Vinyl Chloride-d3	113	65	131	%Rec
Y84L5	Primary Sample	0015021-12	CVOL	1,1,2,2-Tetrachloroethane-d2	67	73	125	%Rec
Y84L5	Primary Sample	0015021-12	CVOL	1,1-Dichloroethene-d2	73	55	104	%Rec
Y84L5	Primary Sample	0015021-12	CVOL	1,2-Dichlorobenzene-d4	104	80	131	%Rec
Y84L5	Primary Sample	0015021-12	CVOL	1,2-Dichloroethane-d4	92	78	129	%Rec
Y84L5	Primary Sample	0015021-12	CVOL	1,2-Dichloropropane-d6	94	79	124	%Rec
Y84L5	Primary Sample	0015021-12	CVOL	2-Butanone-d5	82	49	155	%Rec
Y84L5	Primary Sample	0015021-12	CVOL	2-Hexanone-d5	66	28	135	%Rec
Y84L5	Primary Sample	0015021-12	CVOL	Benzene-d6	97	77	124	%Rec
Y84L5	Primary Sample	0015021-12	CVOL	Chloroethane-d5	128	71	131	%Rec
Y84L5	Primary Sample	0015021-12	CVOL	Chloroform-d	92	78	121	%Rec
Y84L5	Primary Sample	0015021-12	CVOL	Toluene-d8	101	77	121	%Rec
Y84L5	Primary Sample	0015021-12	CVOL	trans-1,3-Dichloropropene-d4	86	73	121	%Rec
Y84L5	Primary Sample	0015021-12	CVOL	Vinyl Chloride-d3	101	65	131	%Rec
Y84M1	Primary Sample	0015085-15	CVOL	1,1,2,2-Tetrachloroethane-d2	80	73	125	%Rec
Y84M1	Primary Sample	0015085-15	CVOL	1,1-Dichloroethene-d2	72	55	104	%Rec

Table 5-5B
Surrogate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
Y84M1	Primary Sample	0015085-15	CVOL	1,2-Dichlorobenzene-d4	104	80	131	%Rec
Y84M1	Primary Sample	0015085-15	CVOL	1,2-Dichloroethane-d4	86	78	129	%Rec
Y84M1	Primary Sample	0015085-15	CVOL	1,2-Dichloropropane-d6	92	79	124	%Rec
Y84M1	Primary Sample	0015085-15	CVOL	2-Butanone-d5	74	49	155	%Rec
Y84M1	Primary Sample	0015085-15	CVOL	2-Hexanone-d5	69	28	135	%Rec
Y84M1	Primary Sample	0015085-15	CVOL	Benzene-d6	103	77	124	%Rec
Y84M1	Primary Sample	0015085-15	CVOL	Chloroethane-d5	119	71	131	%Rec
Y84M1	Primary Sample	0015085-15	CVOL	Chloroform-d	92	78	121	%Rec
Y84M1	Primary Sample	0015085-15	CVOL	Toluene-d8	101	77	121	%Rec
Y84M1	Primary Sample	0015085-15	CVOL	trans-1,3-Dichloropropene-d4	87	73	121	%Rec
Y84M1	Primary Sample	0015085-15	CVOL	Vinyl Chloride-d3	101	65	131	%Rec

Notes:
E524.2S = Method 524.2 SIM
CVOL = Method TVOL (Trace Volatiles) SOM01.2
%Rec = Percent recovery
QAQC = quality assurance/quality control

Table 5-6A

Laboratory Control and Duplicate Summary, Third Quarter 2011, Groundwater Monitoring

Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance		Units
MW11A-A311LR	Lab Control Sample Duplicate	B1I0071-DUP1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	89	70	130	%Rec
MW12A-A311LR	Lab Control Sample Duplicate	B1I0122-DUP1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	107	70	130	%Rec
MW13A-A311LR	Lab Control Sample Duplicate	B1I0084-DUP2	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	86	70	130	%Rec
MW5C-A311LR	Lab Control Sample Duplicate	B1I0121-DUP1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	98	70	130	%Rec
MW6A-A311LR	Lab Control Sample Duplicate	B1I0130-DUP1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	88	70	130	%Rec
MW6C-A311LR	Lab Control Sample Duplicate	B1J0005-DUP1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	89	70	130	%Rec
OW13B-A311LR	Lab Control Sample Duplicate	B1J0013-DUP1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	97	70	130	%Rec
OW15D-A311LR	Lab Control Sample Duplicate	B1I0067-DUP1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	92	70	130	%Rec
OW4B-A311LR	Lab Control Sample Duplicate	B1I0104-DUP1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	81	70	130	%Rec
X3B-A311LR	Lab Control Sample Duplicate	B1I0060-DUP1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	94	70	130	%Rec

Notes:

E524.2S = Method 524.2 SIM

%Rec = Percent recovery

QAQC = quality assurance/quality control

Table 5-6B

Laboratory Control and Duplicate Summary, Fourth Quarter 2011, Groundwater Monitoring
Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	Result	Acceptance	Units
No lab control sample duplicates were analyzed this quarter.							

Notes:

E524.2S = Method 524.2 SIM

%Rec = Percent recovery

QAQC = quality assurance/quality control

Table 5-7A

Matrix Spike/Matrix Spike Duplicate Summary, Third Quarter 2011, Groundwater Monitoring

Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	MS Recovery	SD Recovery	Acceptance		Units
MW3B-A311	Matrix Spike	B1I0048-MS1/B1I0048-MSSD1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	95	91	70	130	%Rec
OW14B-A311	Matrix Spike	B1J0013-MS1/B1J0013-MSSD1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	96	95	70	130	%Rec
OW15C-A311	Matrix Spike	B1I0067-MS1/B1I0067-MSSD1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	90	92	70	130	%Rec
OW5A-A311	Matrix Spike	B1J0005-MS2/B1J0005-MSSD2	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	97	96	70	130	%Rec
OW7C-A311	Matrix Spike	B1J0013-MS2/B1J0013-MSSD2	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	94	95	70	130	%Rec
X4A-D311	Matrix Spike	B1J0005-MS1/B1J0005-MSSD1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	97	97	70	130	%Rec

Notes:

E524.2S = Method 524.2 SIM

%Rec = Percent recovery

MS = matrix spike

SD = spike duplicate

Table 5-7B

Matrix Spike/Matrix Spike Duplicate Results - Fourth Quarter 2011, Groundwater Monitoring

Second Half 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Field ID	QAQC Type	Lab Sample ID	Analysis Method	Analyte	MS Recovery	SD Recovery	Acceptance		Units
MW12B-A411	Matrix Spike	B1L0043-MS1/B1L0043-MSD1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	96	95	70	130	%Rec
MW13B-A411	Matrix Spike	B1L0038-MS1/B1L0038-MSD1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	93	90	70	130	%Rec
MW13C-A411	Matrix Spike	B1L0029-MS1/B1L0029-MSD1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	99	98	70	130	%Rec
OW12A-A411	Matrix Spike	B1L0063-MS1/B1L0063-MSD1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	81	79	70	130	%Rec
OW15D-A411	Matrix Spike	B1L0053-MS1/B1L0053-MSD1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	76	75	70	130	%Rec
PW1A-A411	Matrix Spike	B1L0016-MS1/B1L0016-MSD1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	91	95	70	130	%Rec
PW4A-A411	Matrix Spike	B1L0023-MS1/B1L0023-MSD1	E524.2S	1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)	93	92	70	130	%Rec

Notes:

E524.2S = Method 524.2 SIM

%Rec = Percent recovery

MS = matrix spike

SD = spike duplicate

SECTION 6
6 Conclusions

Analytical data indicate that concentrations of the primary COCs (EDB, DBCP, DCP, and CCl_4) detected in groundwater samples generally are similar to or lower than those detected during previous monitoring events. Typically, the wells with the highest detected pesticide and fertilizer concentrations are screened in the S-1 and S-2 zones and are located just north and downgradient of the former disposal basin. Concentrations recently measured in these wells are near their lowest historical levels, although some locations (near the source zone) have risen slightly from 2010 levels.

Concentrations of COCs detected in wells screened in the A-1 zone indicate that downward vertical migration of contaminated groundwater from the S-1 and S-2 zones has occurred. In the A-1 zone, COC concentrations were above their respective MCLs in samples collected from two wells (OW-11C and X-7C). When the groundwater levels rise into unsaturated source zone soil in the winter, the groundwater picks up COCs that are then carried downgradient. Seasonal variations in COC concentrations in wells farther north of the source zone appear to have occurred as a result of groundwater extraction pulling contaminated groundwater south toward the extraction well field. It is anticipated that the overall declining trend in COC concentrations will continue with the implementation of groundwater extraction and pesticide source zone treatment.

Optimization of extraction near the pesticide source zone, including adding extraction well X-6B (screened in the S-2 zone) and adding VFDs to all extraction wells to optimize well production, has enhanced groundwater-collection capacity. In most wells, COC concentrations continue to decline or remain near historical low levels, indicating that the groundwater extraction system is removing COCs leaving the source zone. The extraction of groundwater from the source zone was reduced in order to minimize removal of heat during in situ thermal treatment. In situ thermal treatment reduces COC mass in the source zone that otherwise would be transferred to groundwater.

Monitoring results for wells in the X-7 and nearby OW-11 well nests screened in the S-2 and A-1 zones have indicated another area, apparently isolated from the source zone, with elevated pesticide concentrations. A general decline in pesticide concentrations in these and other wells downgradient of wells near the pesticide source zone also indicate a reduction in the mass of COCs in the groundwater. The groundwater in these wells, which passed through the source zone before the groundwater extraction system began operation, is being pulled back to the extraction system.

Overall, samples collected from all wells indicate that groundwater containing COCs has not spread to locations where COCs were not detected previously. Samples from wells screened in the S-1 zone, where COCs have been detected historically, indicate that groundwater concentrations are declining. For example, CCl4 concentrations detected in wells OW-6A and X-5A are in the lowest range of historical concentrations. Samples from wells screened in the S-2 zone, where COCs have been detected historically, indicate that groundwater concentrations

also are declining in this zone. Elevated COC concentrations detected in monitoring wells OW-11B, OW-20B, and X-7B are expected to continue as contaminated groundwater is pulled south toward the extraction wells. Concentrations of COCs detected in samples collected from wells screened in the A-1 zone indicate that vertical migration of contaminated groundwater from the S-1 and S-2 zones has occurred. Where detected in the A-1 zone, COC concentrations are lower near the source zone than further downgradient. (Samples could not be collected from MW-4C, one of the three wells that facilitated monitoring the A-1 zone near the source zone, as this well apparently was damaged during source zone treatment.) Changes in COC concentrations in the A-1 zone are expected to lag behind changes in the S-2 zone given the resistance to vertical flow of groundwater from the S-2 zone to the A-1 zone. The EDB and DCP concentrations detected in monitoring wells OW-11C and X-7C, and the CCl4 concentrations detected in monitoring wells OW-3C, X-5B, and X-7C are at or near historical low levels. Future monitoring will confirm changes with time.

Although groundwater extraction near the source zone has been reduced, groundwater elevation data indicate that the extraction system continues to influence the S-1 and S-2 zones where pesticide COCs were detected. The volume immediately downgradient from the former pesticide disposal basin, which has the highest pesticide concentrations in groundwater, is within the lateral area of influence of the extraction system. Monitoring data indicate that the extraction system has a broader zone of influence over horizontal gradients than vertical gradients. The effectiveness of the groundwater extraction system and source treatment will continue to be monitored.

SECTION 7
7 References

Bechtel Environmental, Inc. (Bechtel), 1997. *Final Interim Remedial Investigation Report for Frontier Fertilizer*. Prepared for the U.S. Environmental Protection Agency, Region 9. February.

CH2M Hill, 2011. *Capture Zone Analysis, Frontier Fertilizer Superfund Site.* October.

CH2M Hill, 2003a. *Frontier Fertilizer Groundwater Model Update and Extraction Wellfield Plan*. July.

CH2M Hill, 2003b. *Final Supplemental Remedial Investigation Report No. 2, Frontier Fertilizer Superfund Site*. Prepared for the U.S. Environmental Protection Agency, Region 9. January.

ITSI, 2011. *Sampling and Analysis Plan Update for the Frontier Fertilizer NPL Site Long-term Remedial Action*. Prepared for the U.S. Environmental Protection Agency, Region 9. August.

Appendix A
Hydrographs

Figure A-1
Hydrograph for AW-1 Well
Frontier Fertilizer Superfund Site, Davis, California

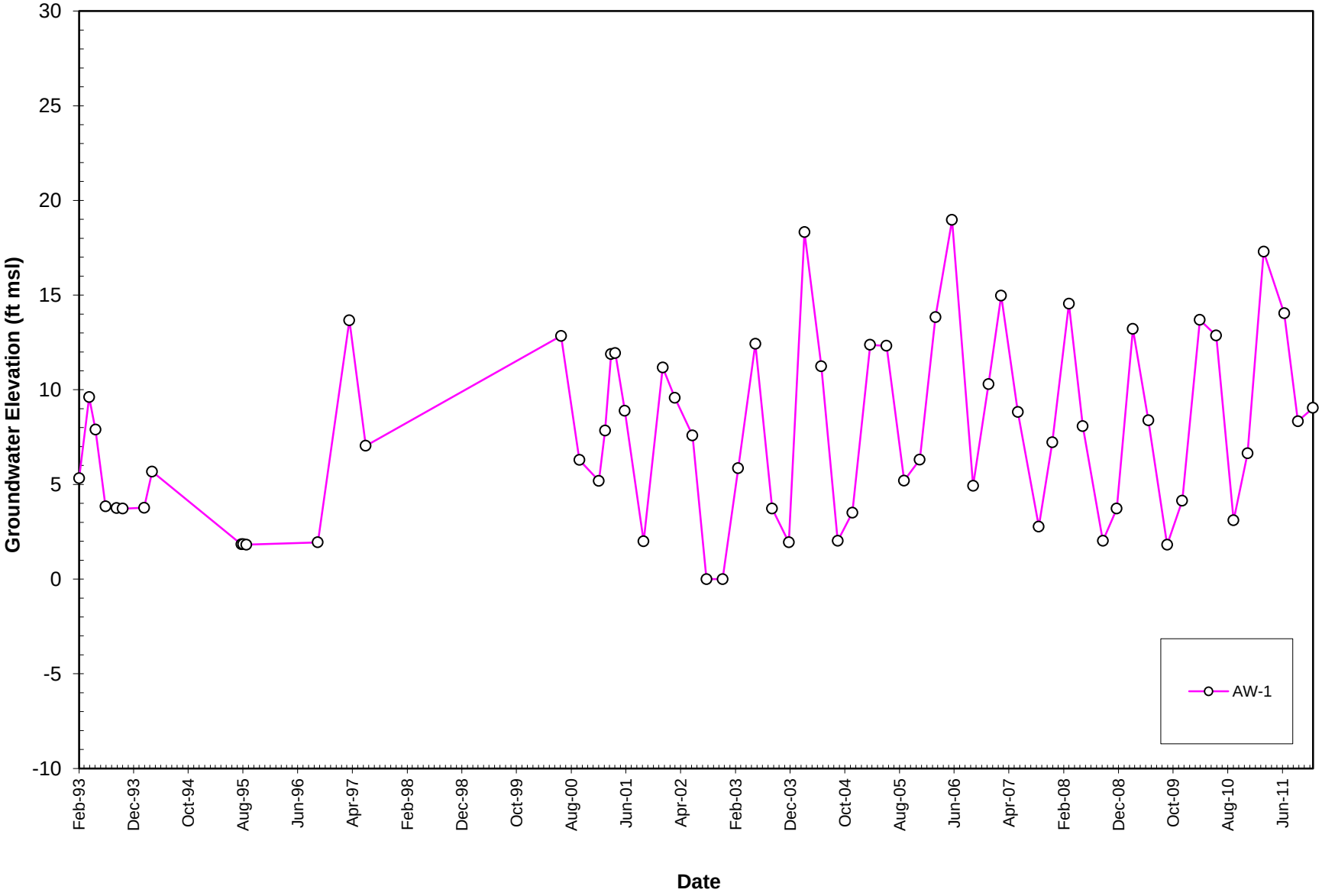


Figure A-2
Hydrograph for AW-2 Wells
Frontier Fertilizer Superfund Site, Davis, California

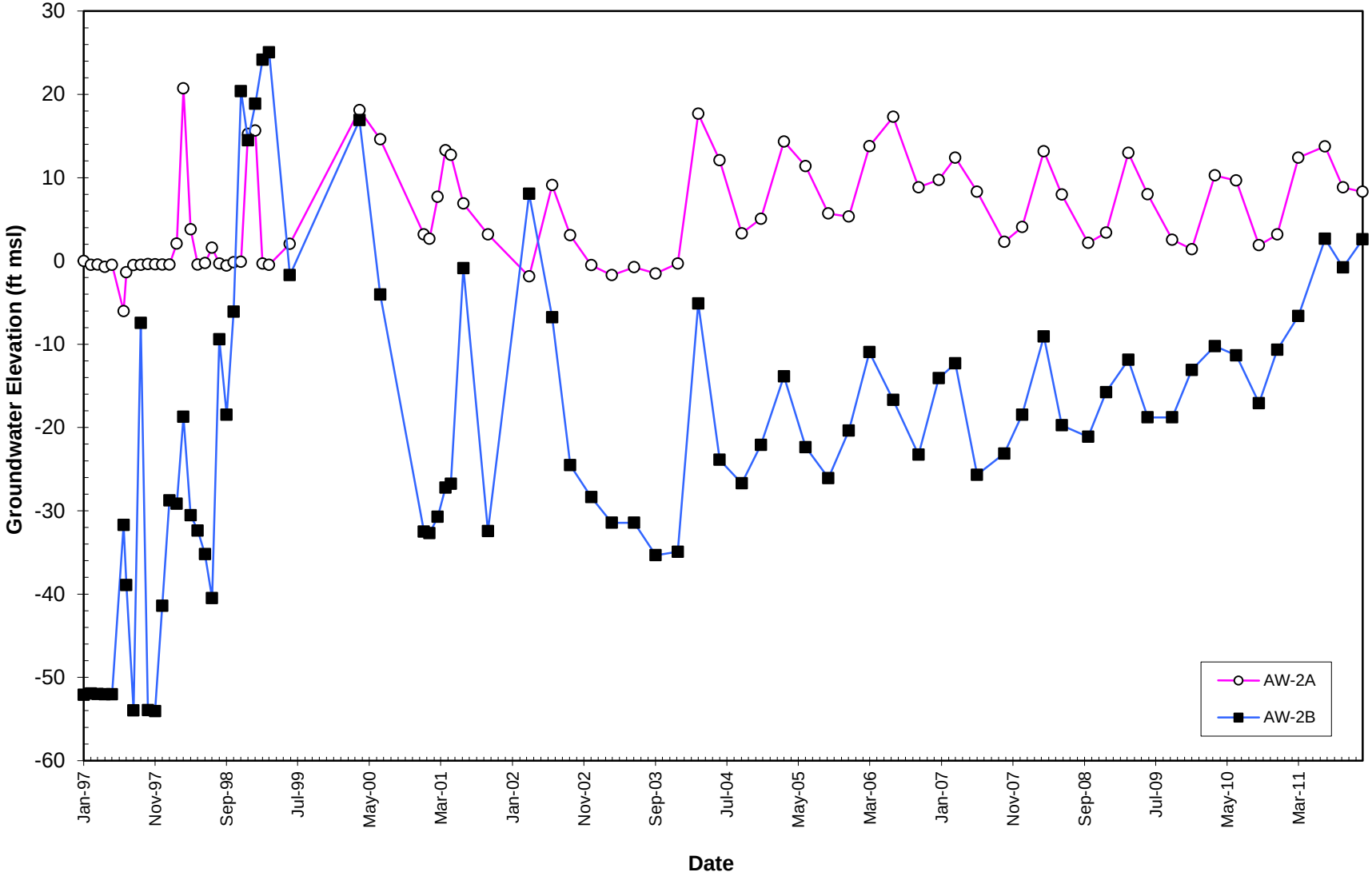


Figure A-3
Hydrograph for AW-3 Well
Frontier Fertilizer Superfund Site, Davis, California

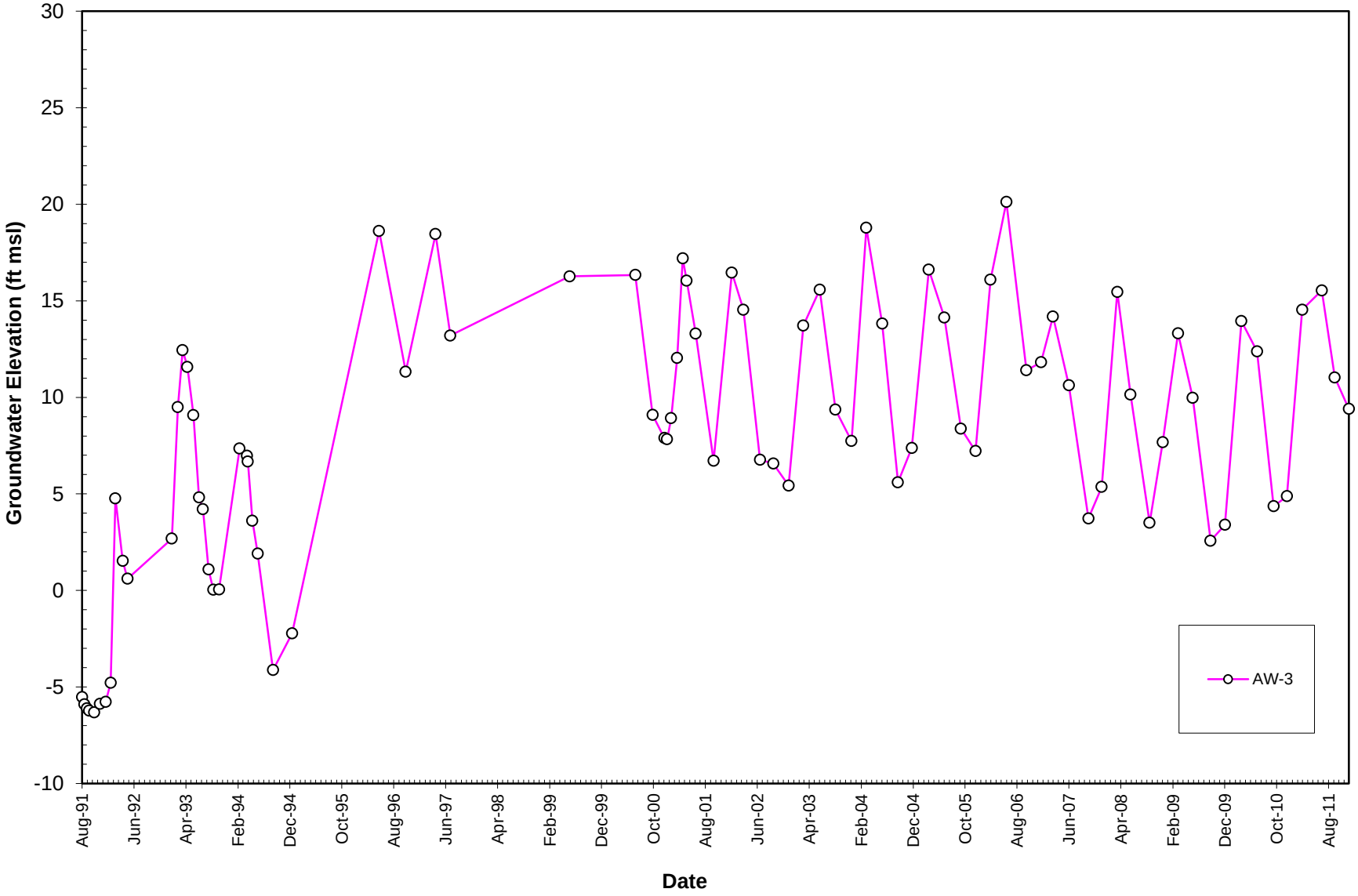


Figure A-4
Hydrograph for AW-4 Well
Frontier Fertilizer Superfund Site, Davis, California

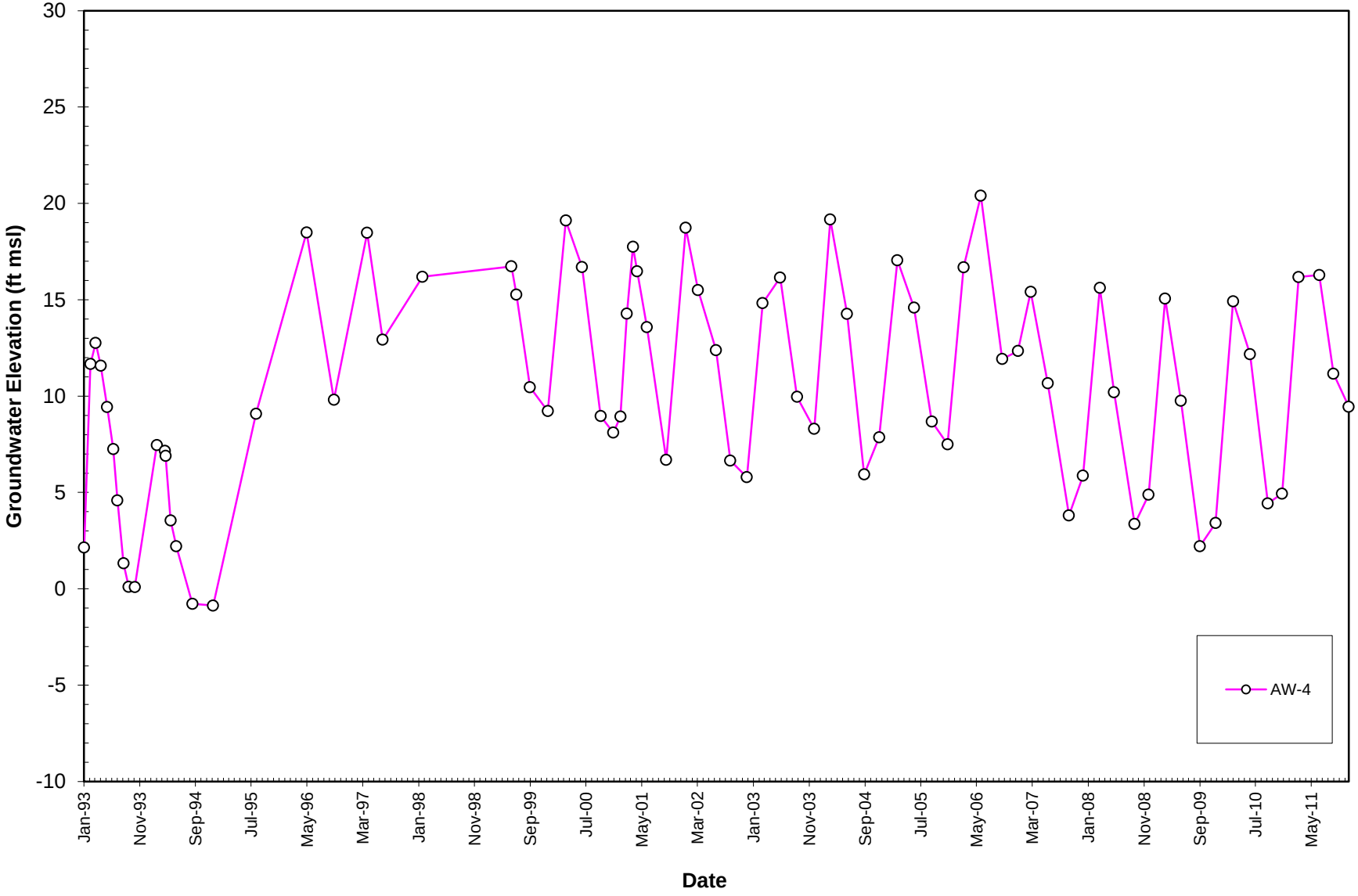


Figure A-5
Hydrograph for AW-5 Well
Frontier Fertilizer Superfund Site, Davis, California

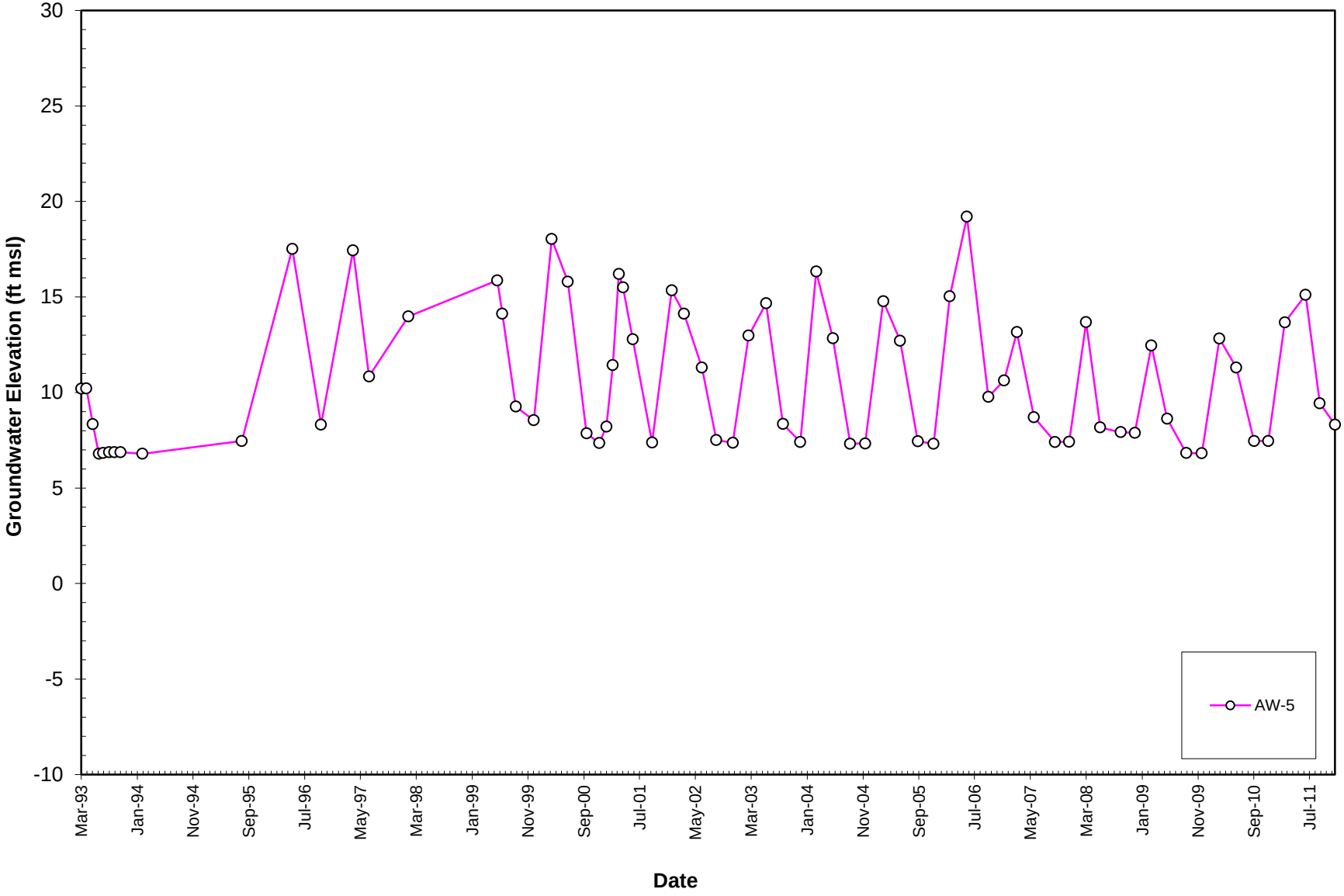


Figure A-6
Hydrograph for AW-6 Well
Frontier Fertilizer Superfund Site, Davis, California

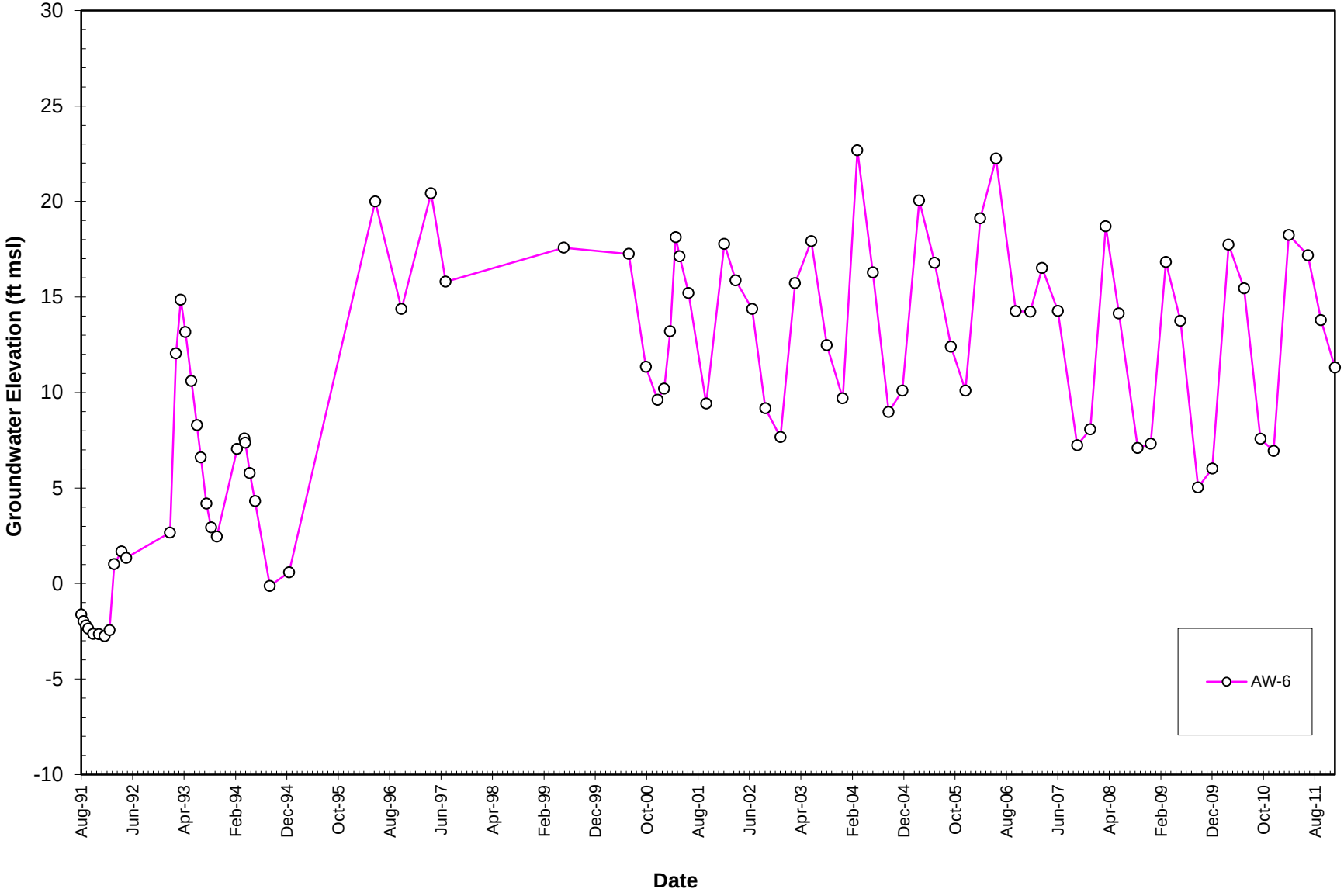


Figure A-7
Hydrograph for MW-2 Wells
Frontier Fertilizer Superfund Site, Davis, California

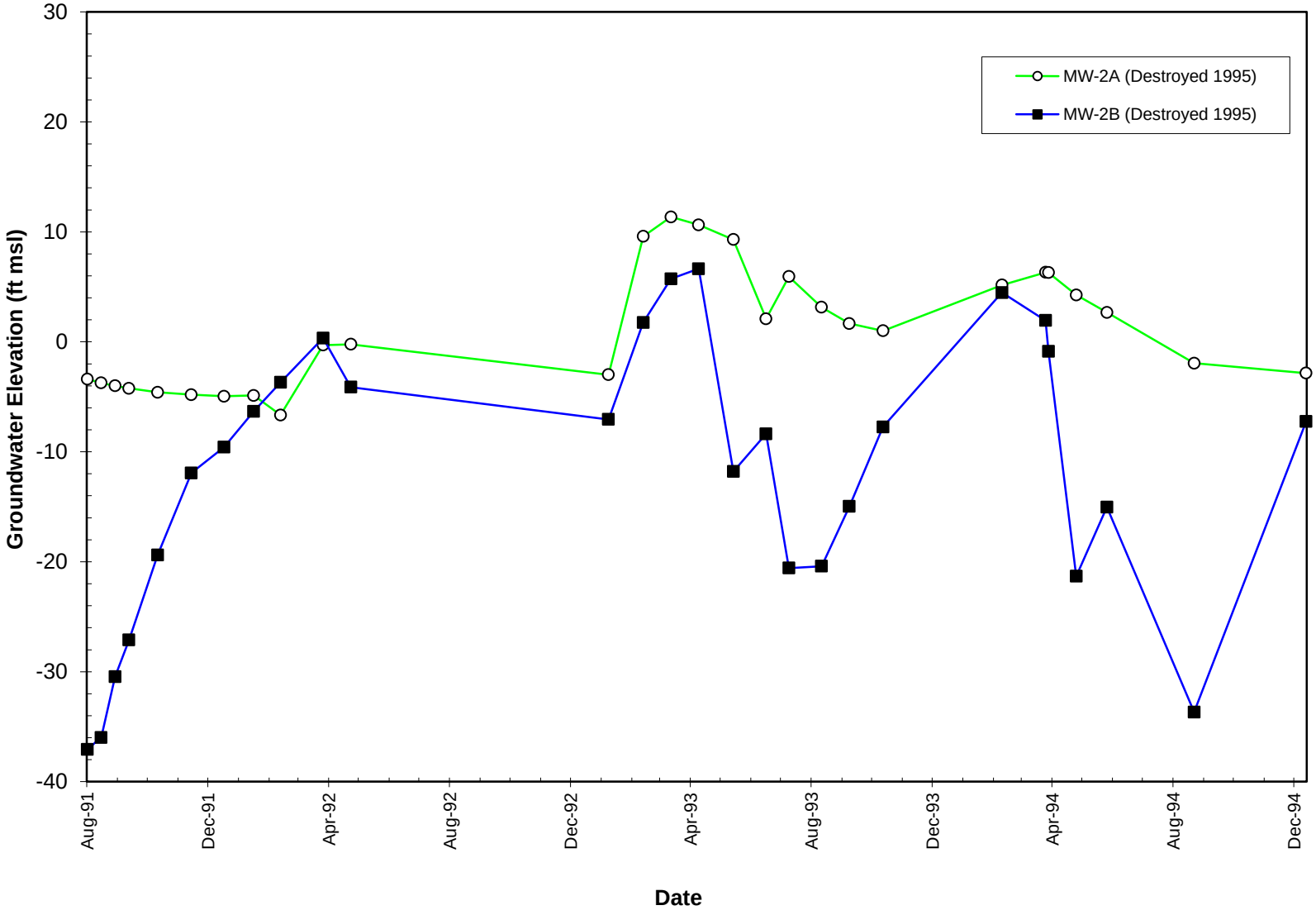


Figure A-8
Hydrograph for MW-3 Wells
Frontier Fertilizer Superfund Site, Davis, California

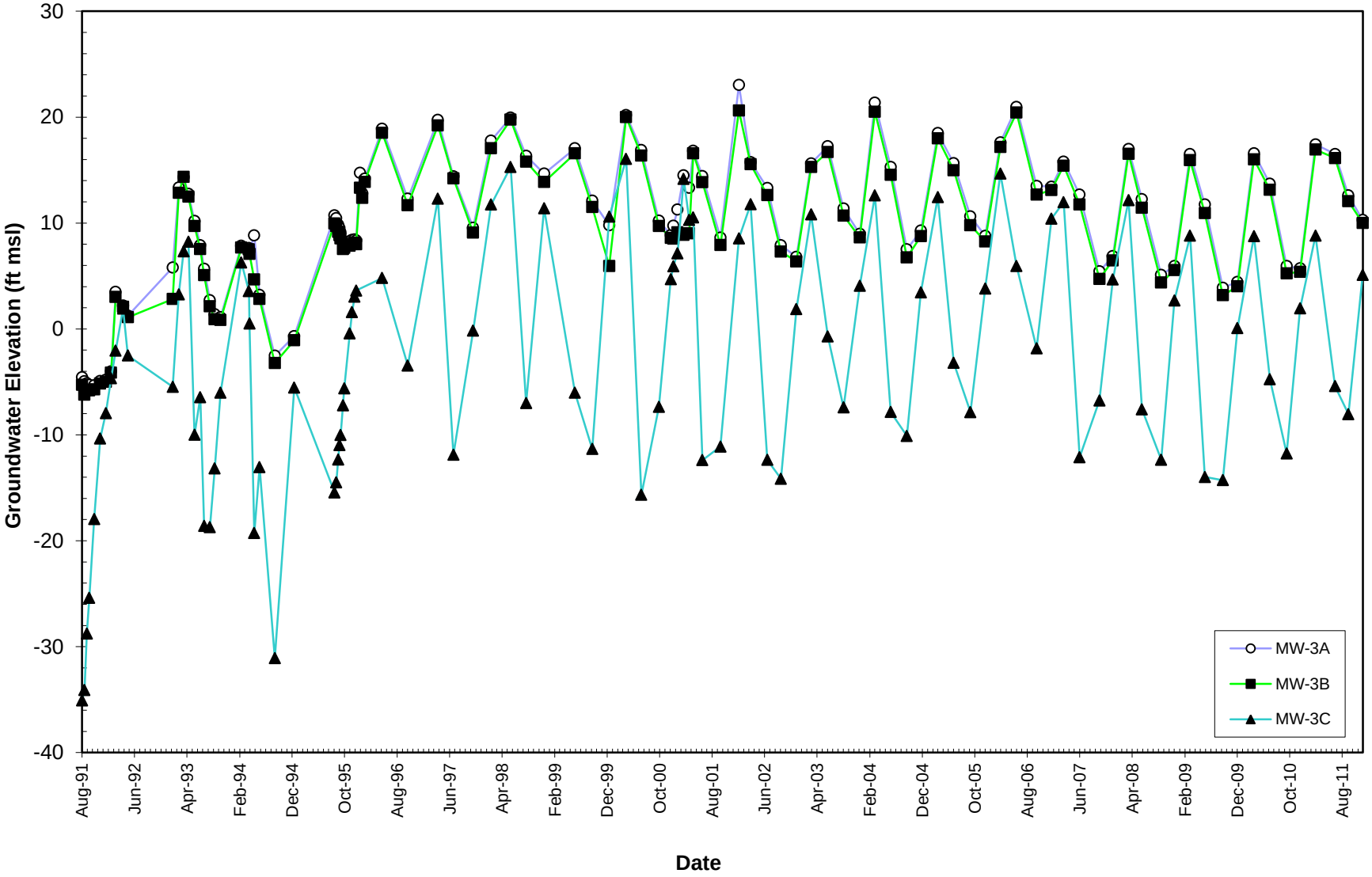


Figure A-9
Hydrograph for MW-4 Wells
Frontier Fertilizer Superfund Site, Davis, California

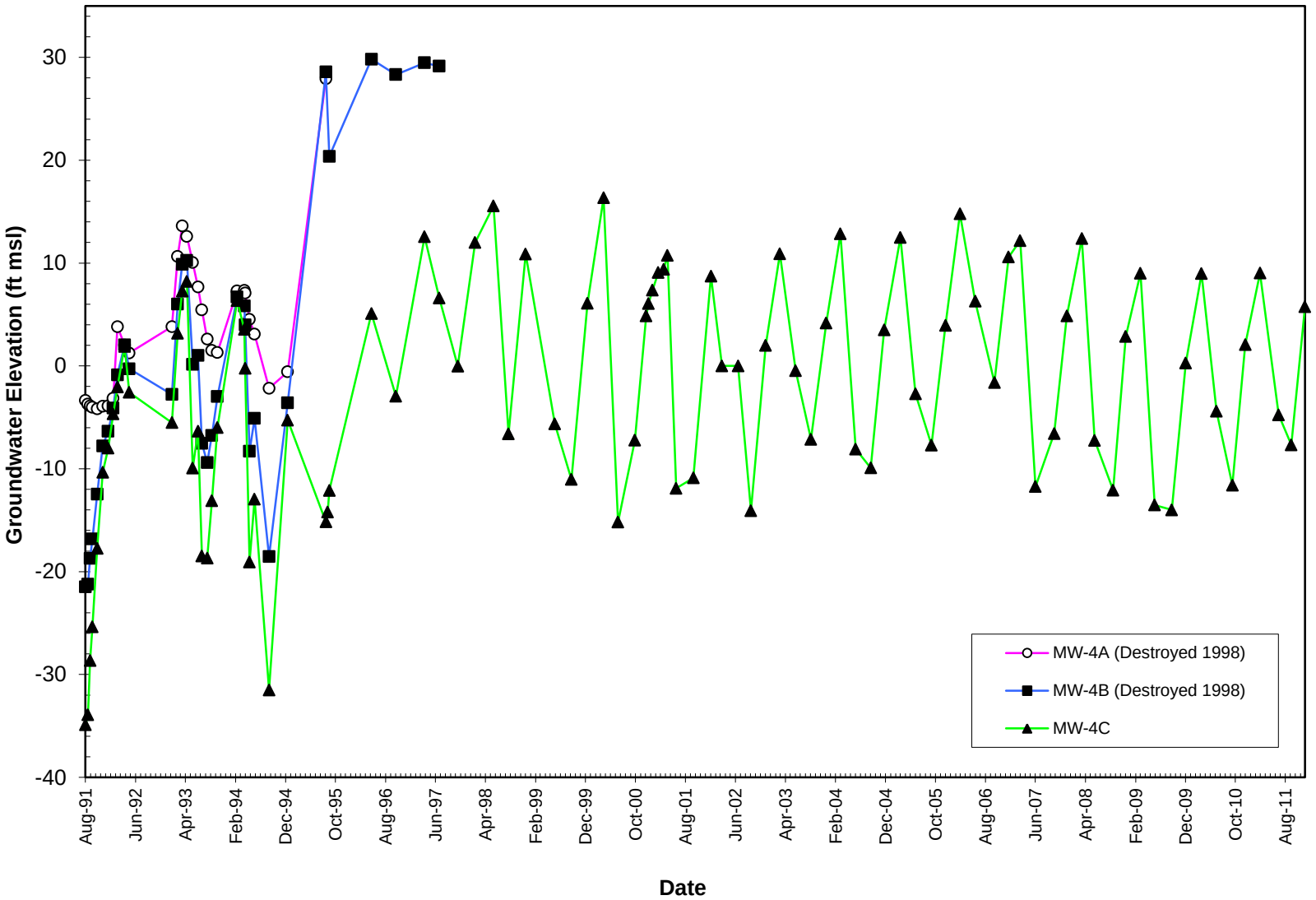


Figure A-10
Hydrograph for MW-5 Wells
Frontier Fertilizer Superfund Site, Davis, California

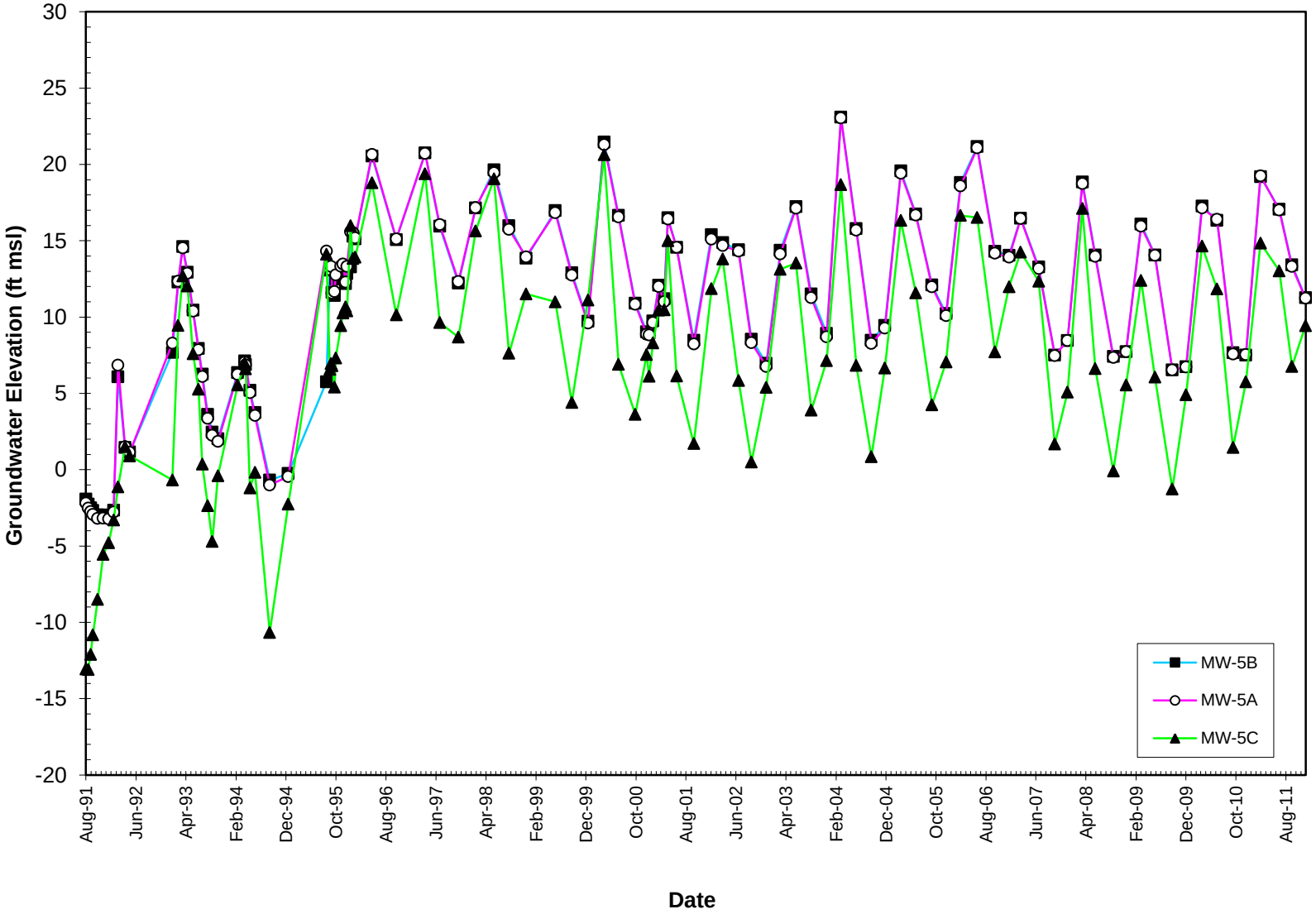


Figure A-11
Hydrograph for MW-6 Wells
Frontier Fertilizer Superfund Site, Davis, California

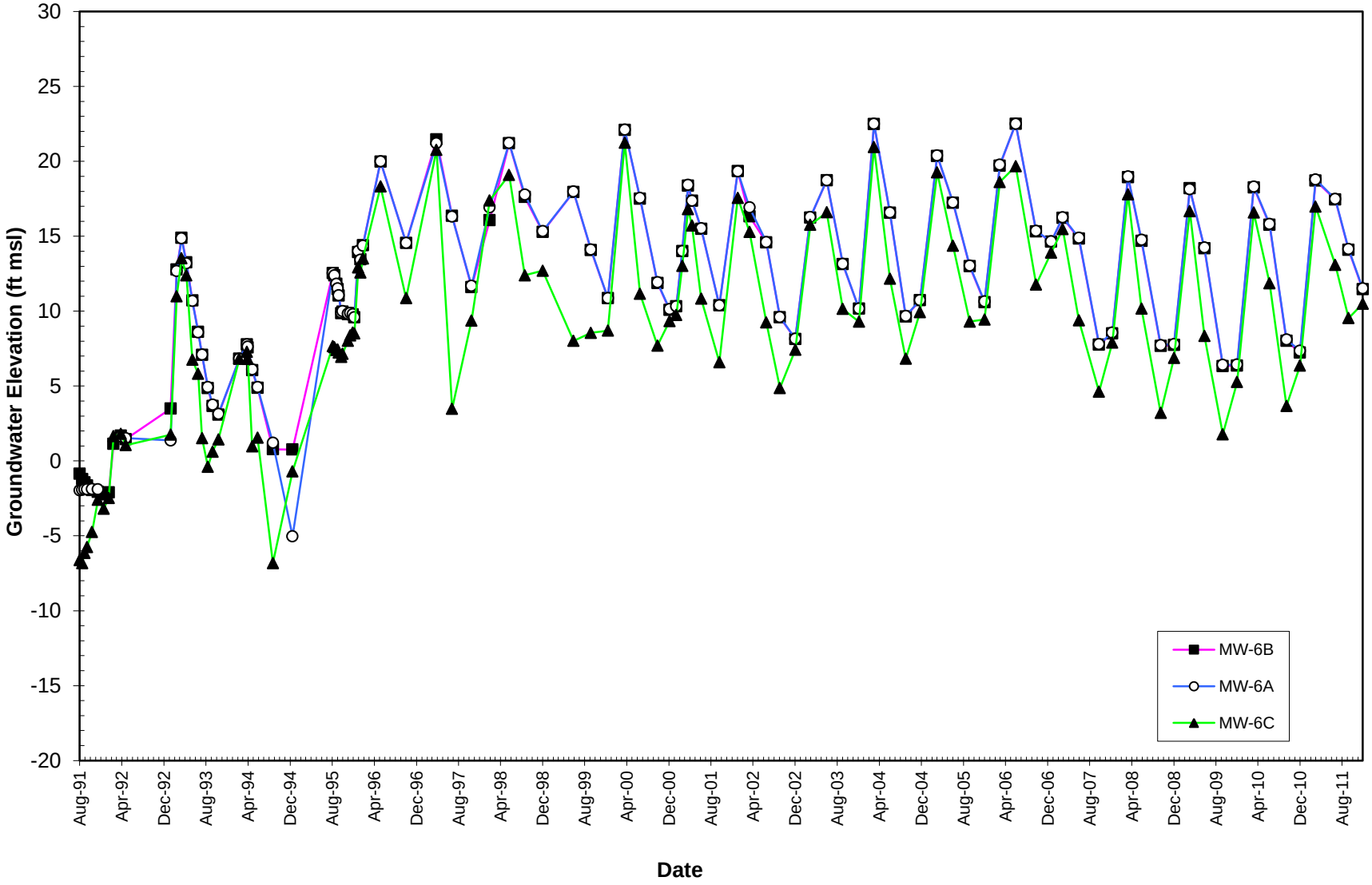


Figure A-12
Hydrograph for MW-7 Wells
Frontier Fertilizer Superfund Site, Davis, California

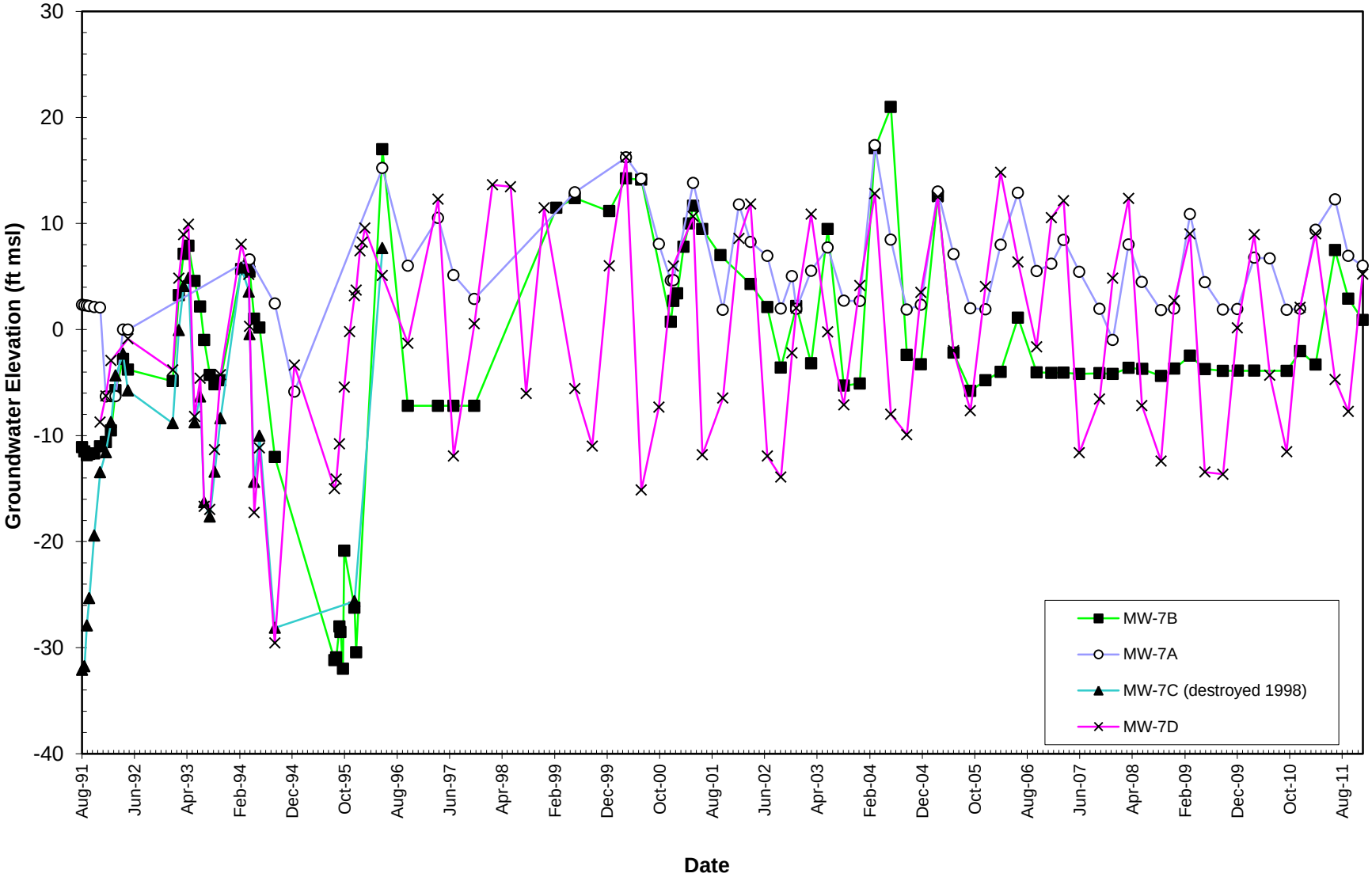


Figure A-13
Hydrograph for MW-8 Wells
Frontier Fertilizer Superfund Site, Davis, California

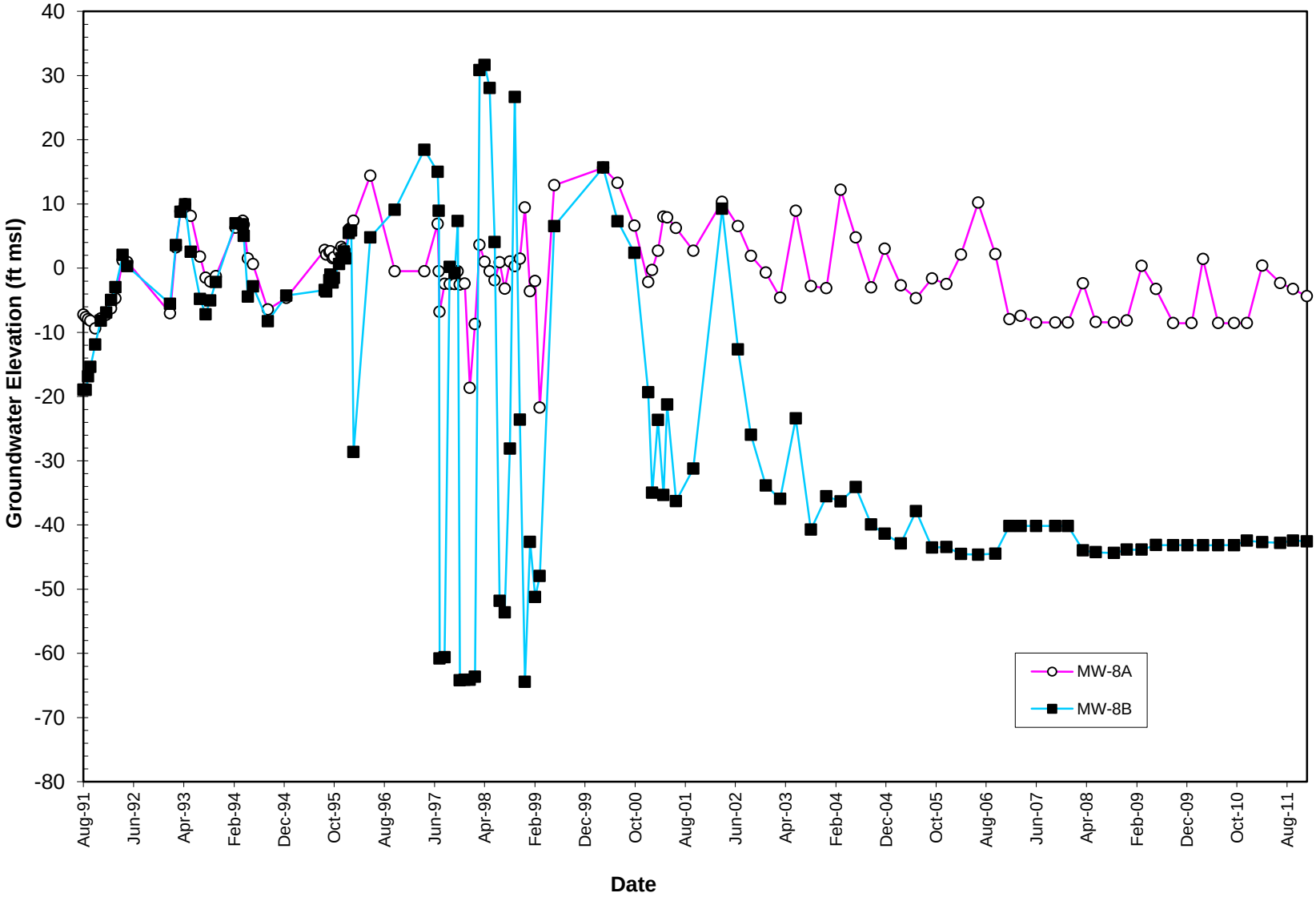


Figure A-14
Hydrograph for MW-9 Wells
Frontier Fertilizer Superfund Site, Davis, California

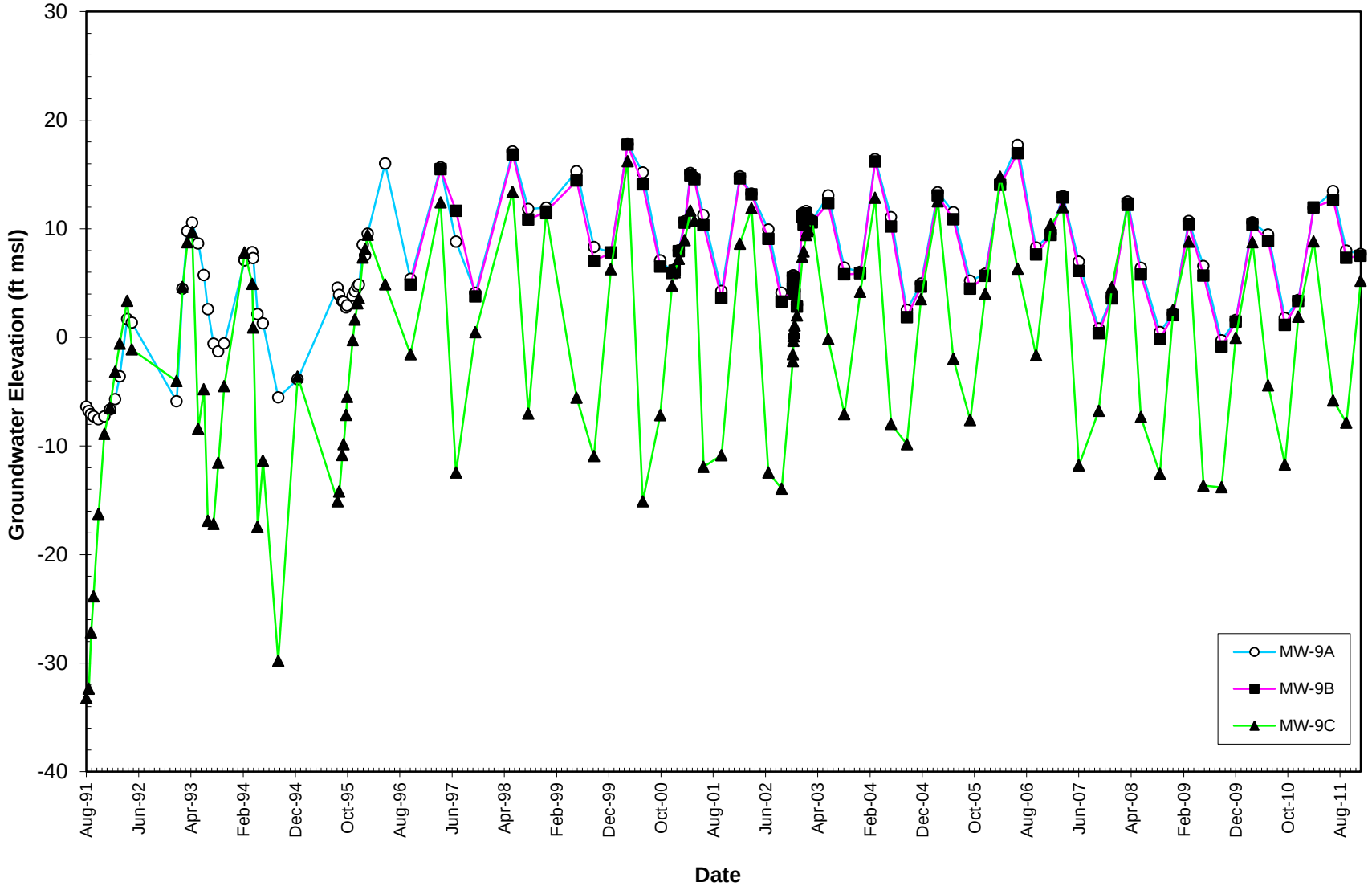


Figure A-15
Hydrograph for MW-10 Wells
Frontier Fertilizer Superfund Site, Davis, California

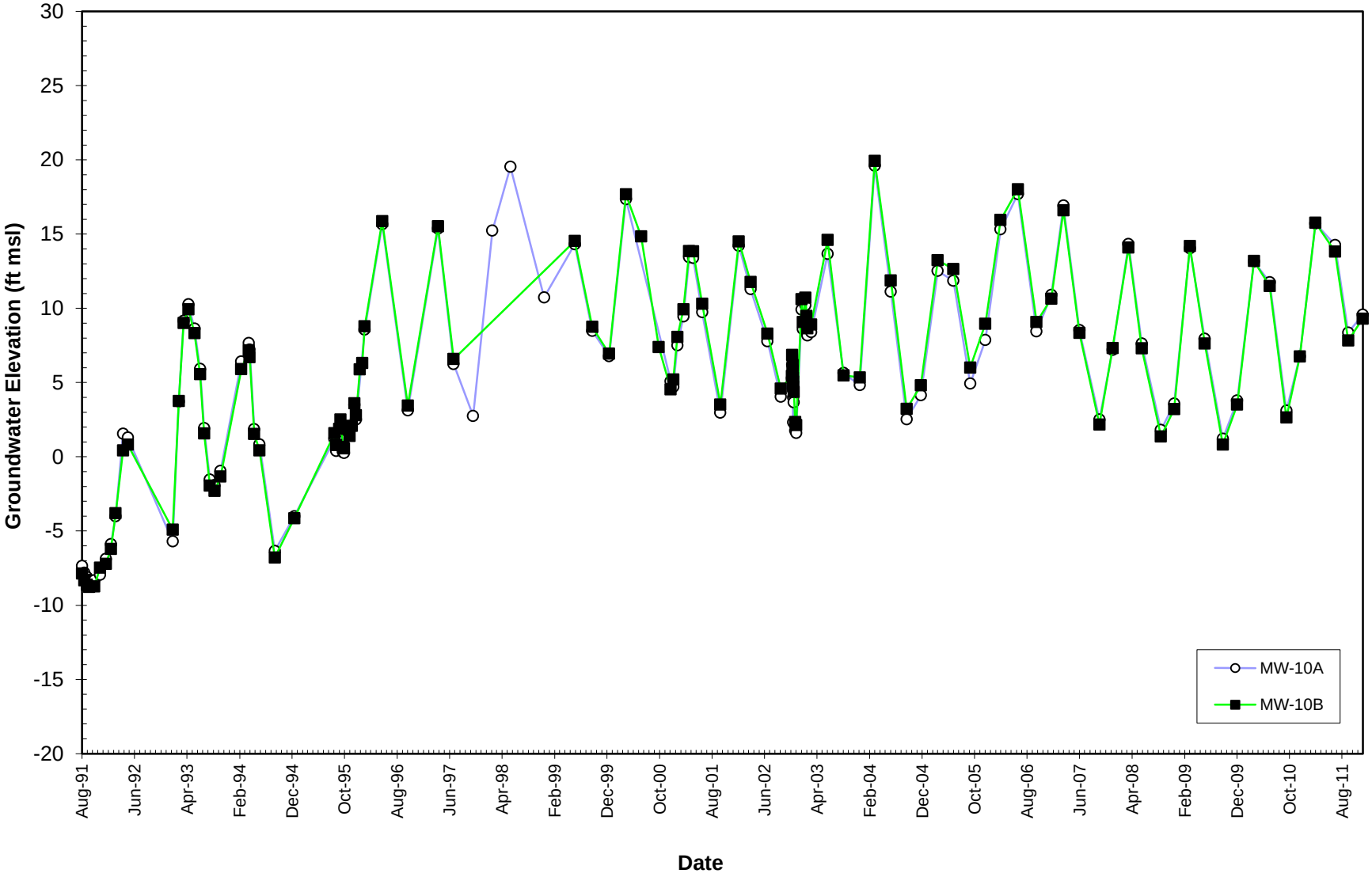


Figure A-16
Hydrograph for MW-11 Wells
Frontier Fertilizer Superfund Site, Davis, California

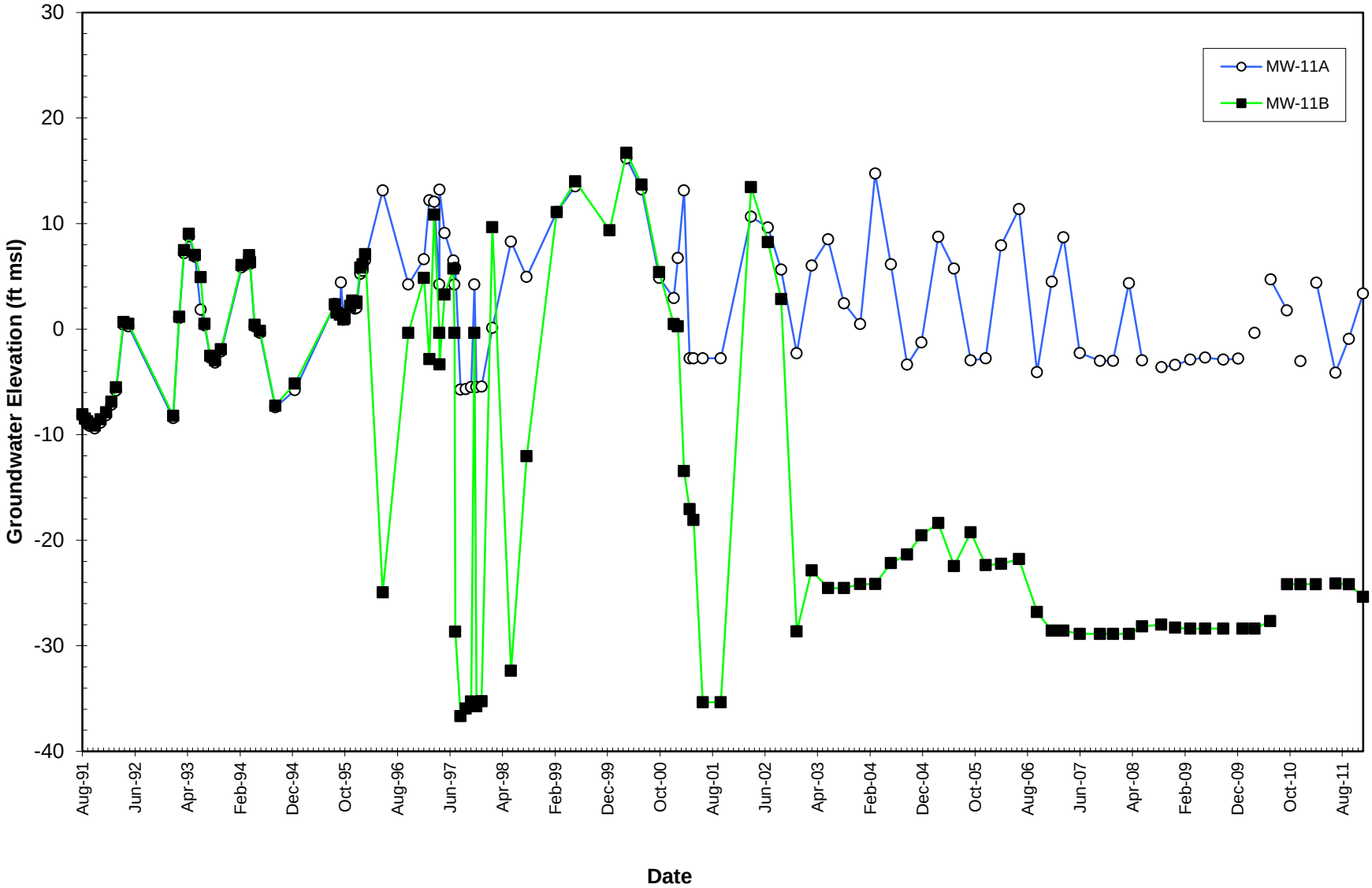


Figure A-17
Hydrograph for MW-12 Wells
Frontier Fertilizer Superfund Site, Davis, California

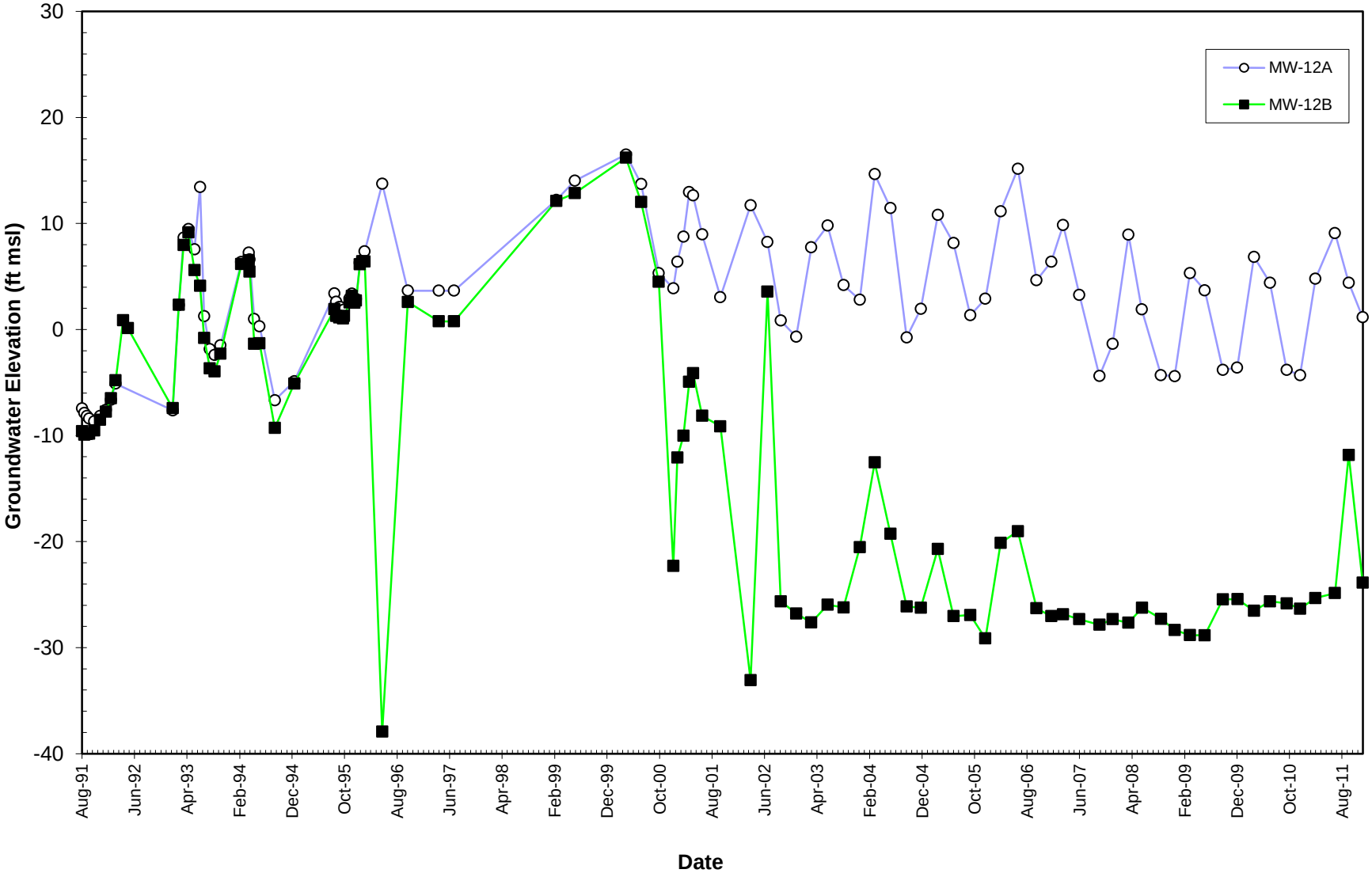


Figure A-18
Hydrograph for MW-13 Wells
Frontier Fertilizer Superfund Site, Davis, California

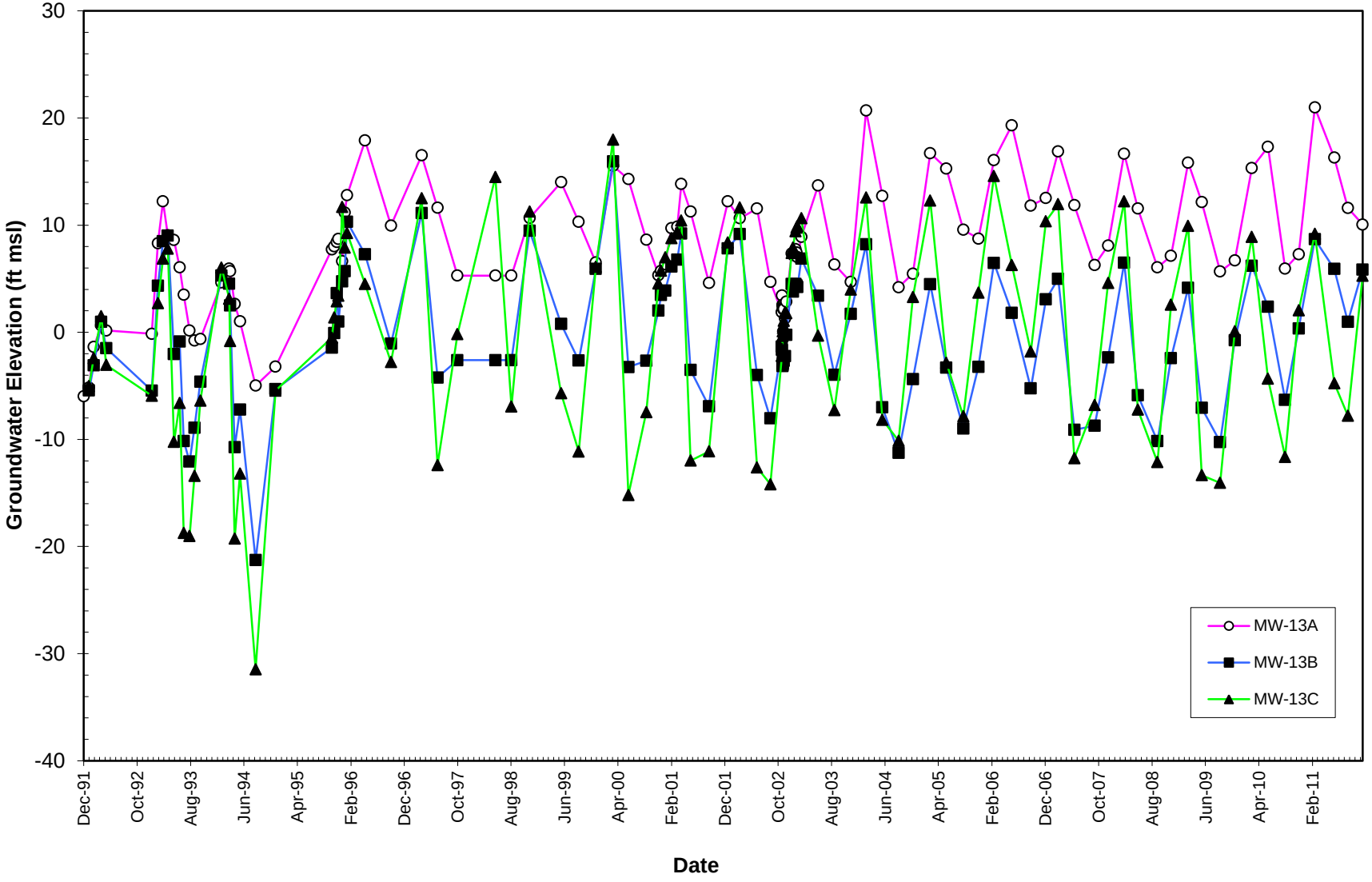


Figure A-19
Hydrograph for OW-1 Wells
Frontier Fertilizer Superfund Site, Davis, California

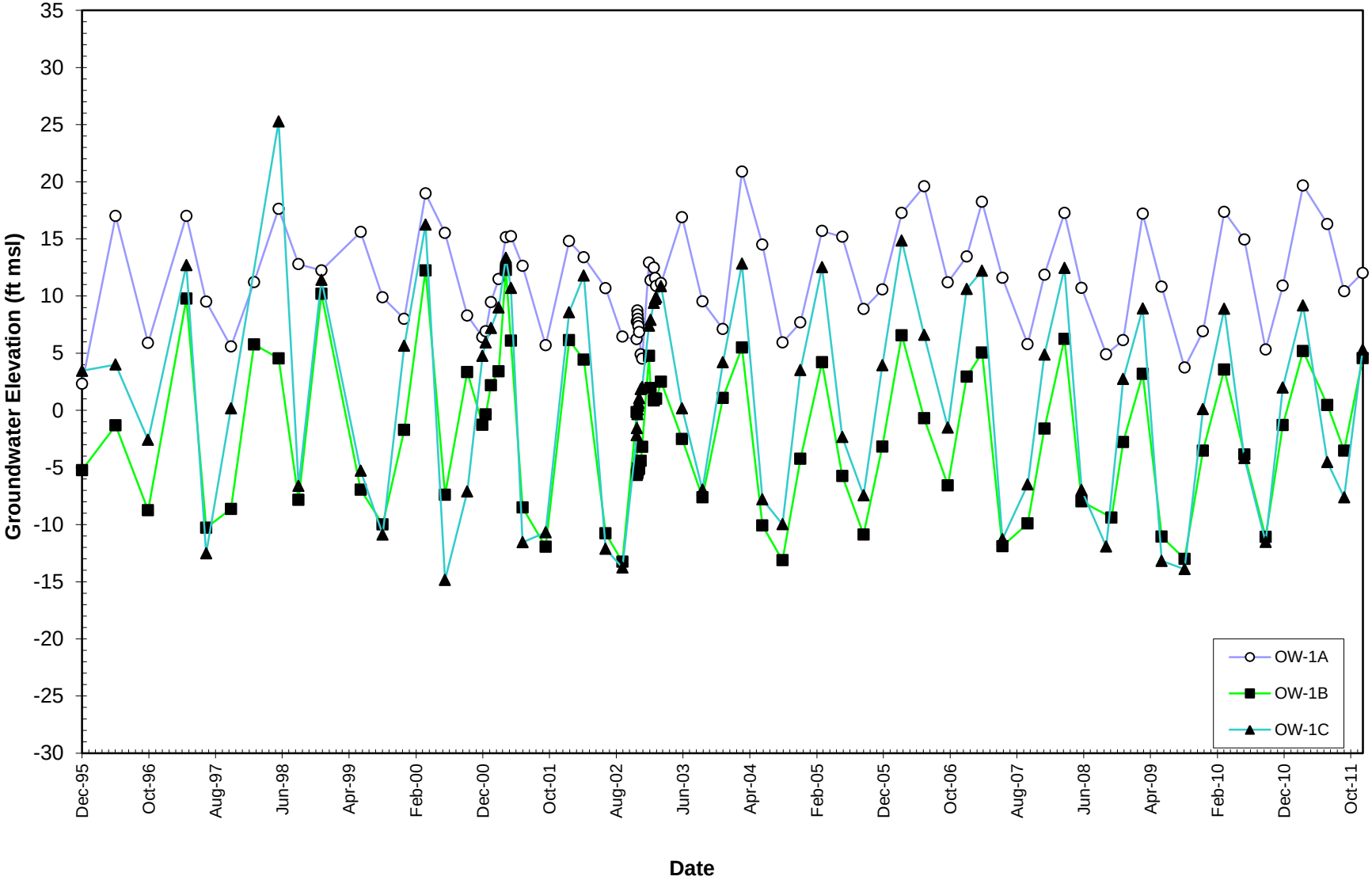


Figure A-20
Hydrograph for OW-2 Wells
Frontier Fertilizer Superfund Site, Davis, California

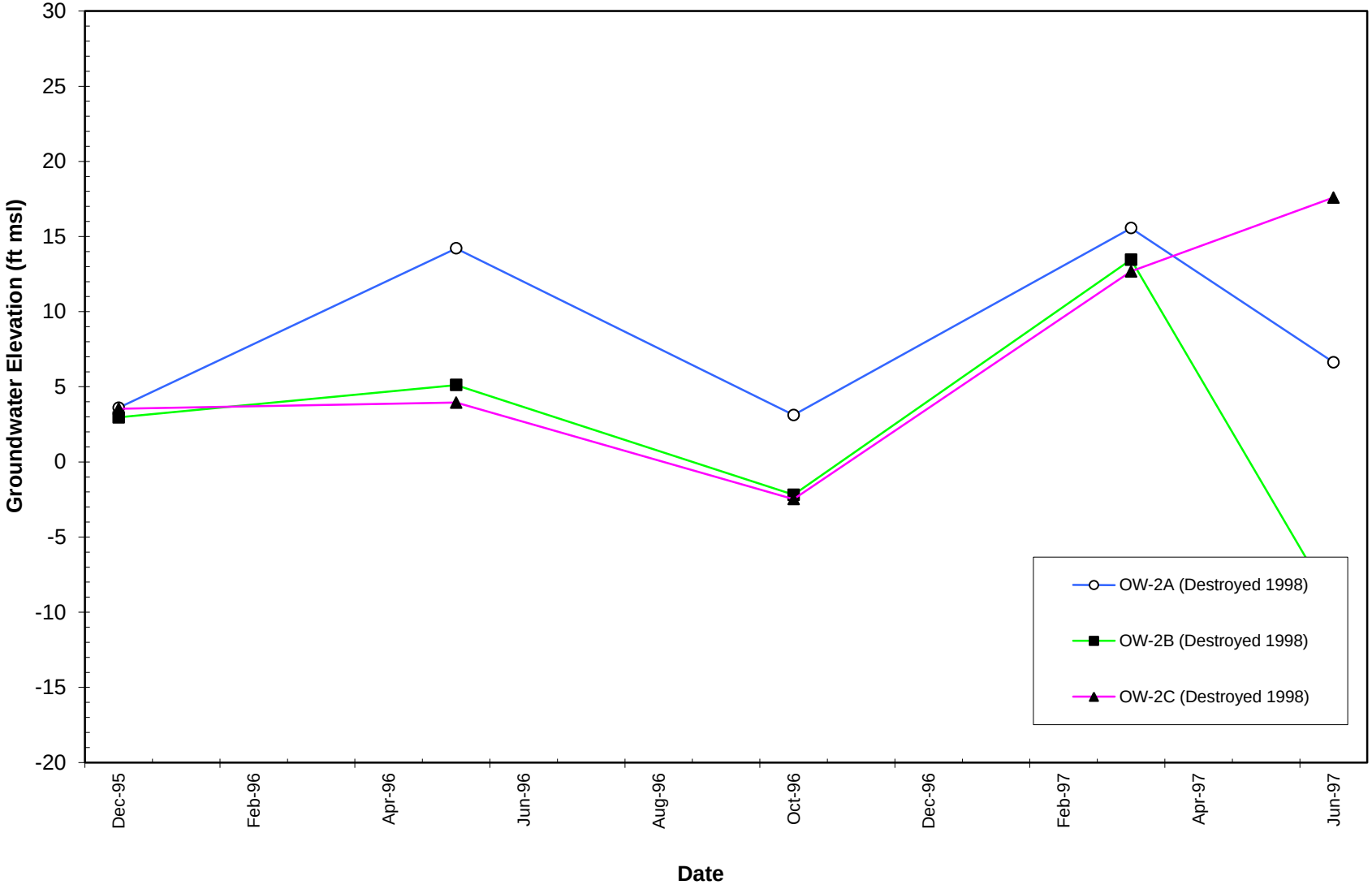


Figure A-21
Hydrograph for OW-3 Wells
Frontier Fertilizer Superfund Site, Davis, California

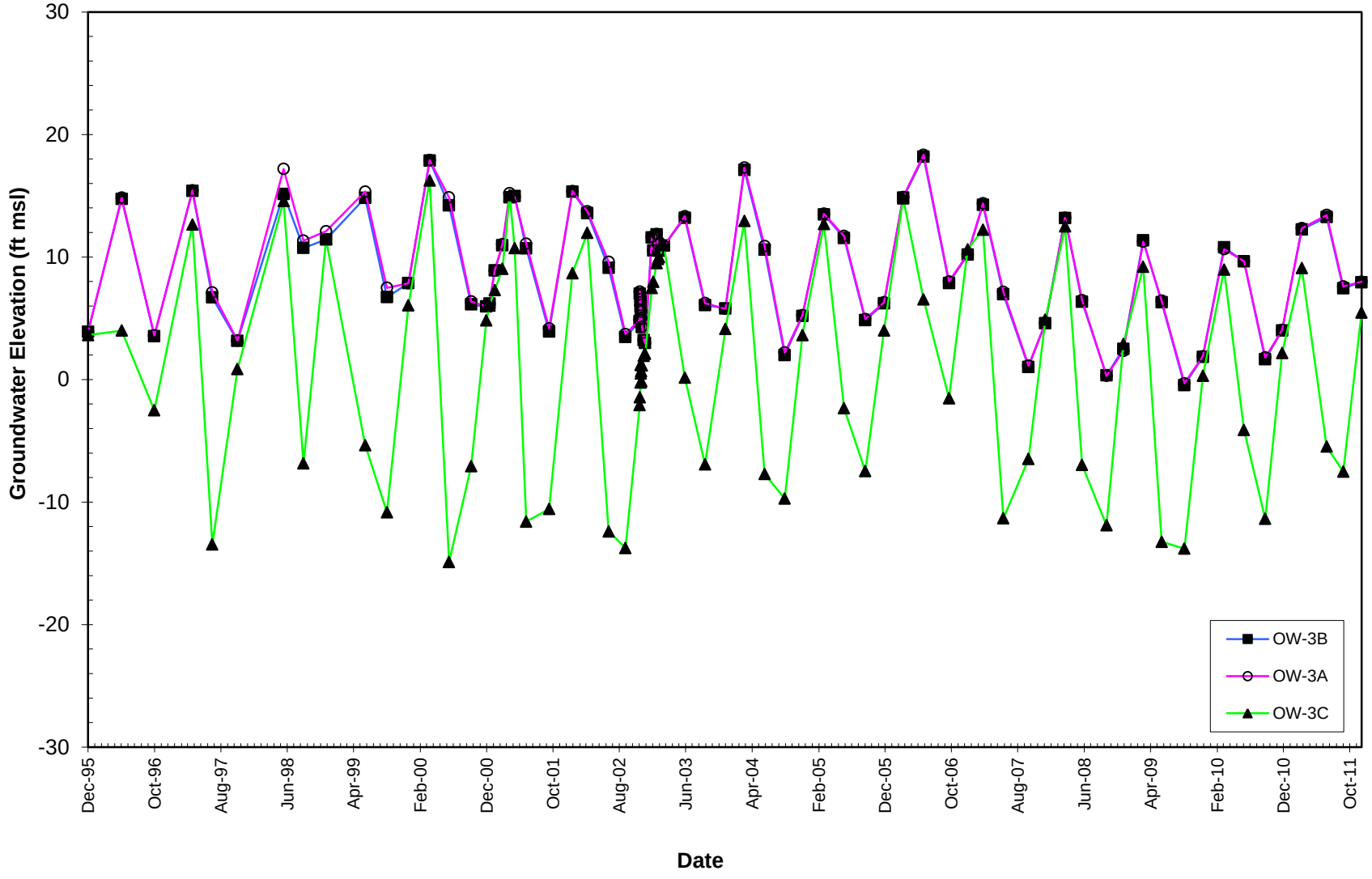


Figure A-22
Hydrograph for OW-4 Wells
Frontier Fertilizer Superfund Site, Davis, California

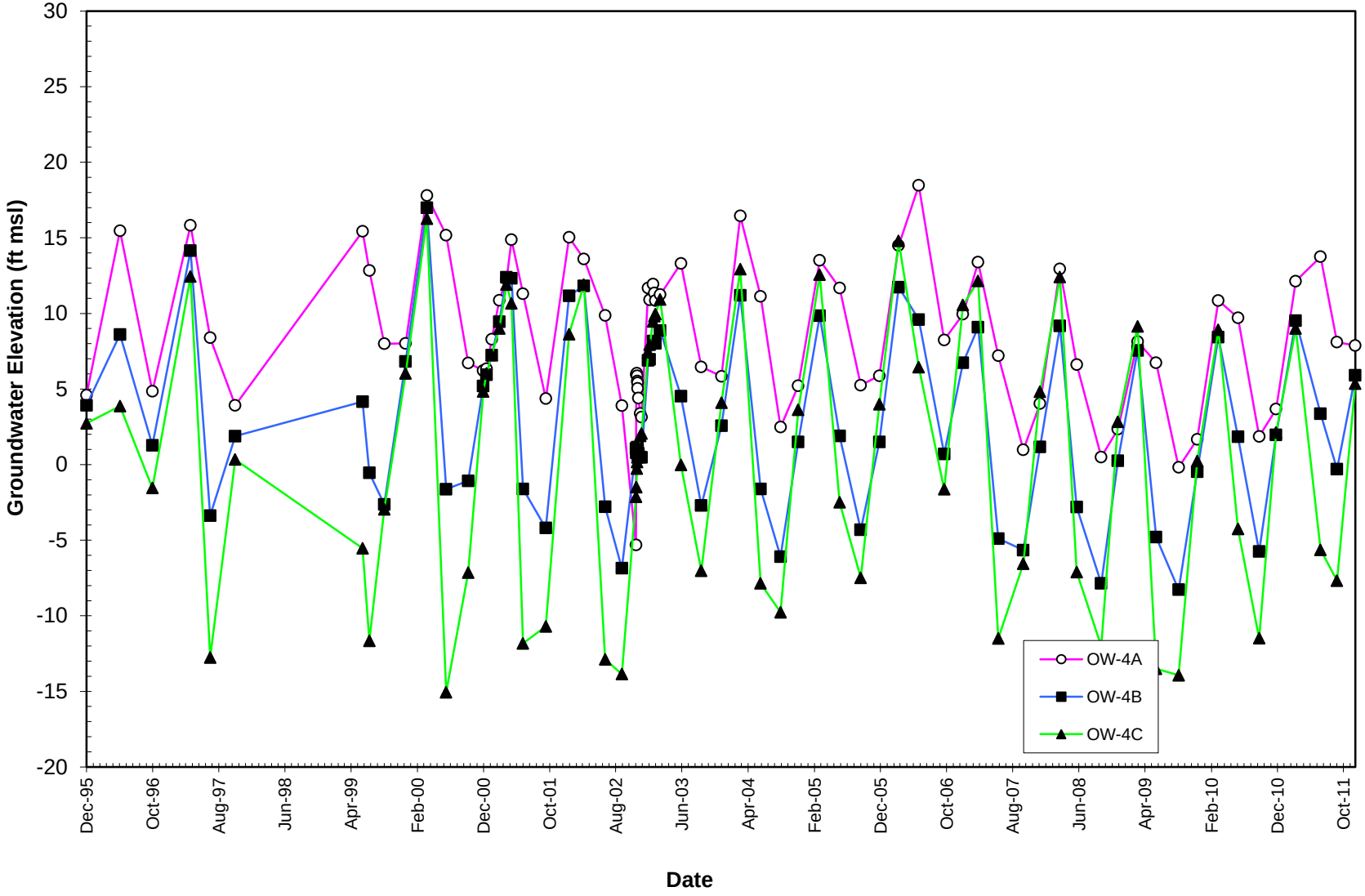


Figure A-23
Hydrograph for OW-5 Wells
Frontier Fertilizer Superfund Site, Davis, California

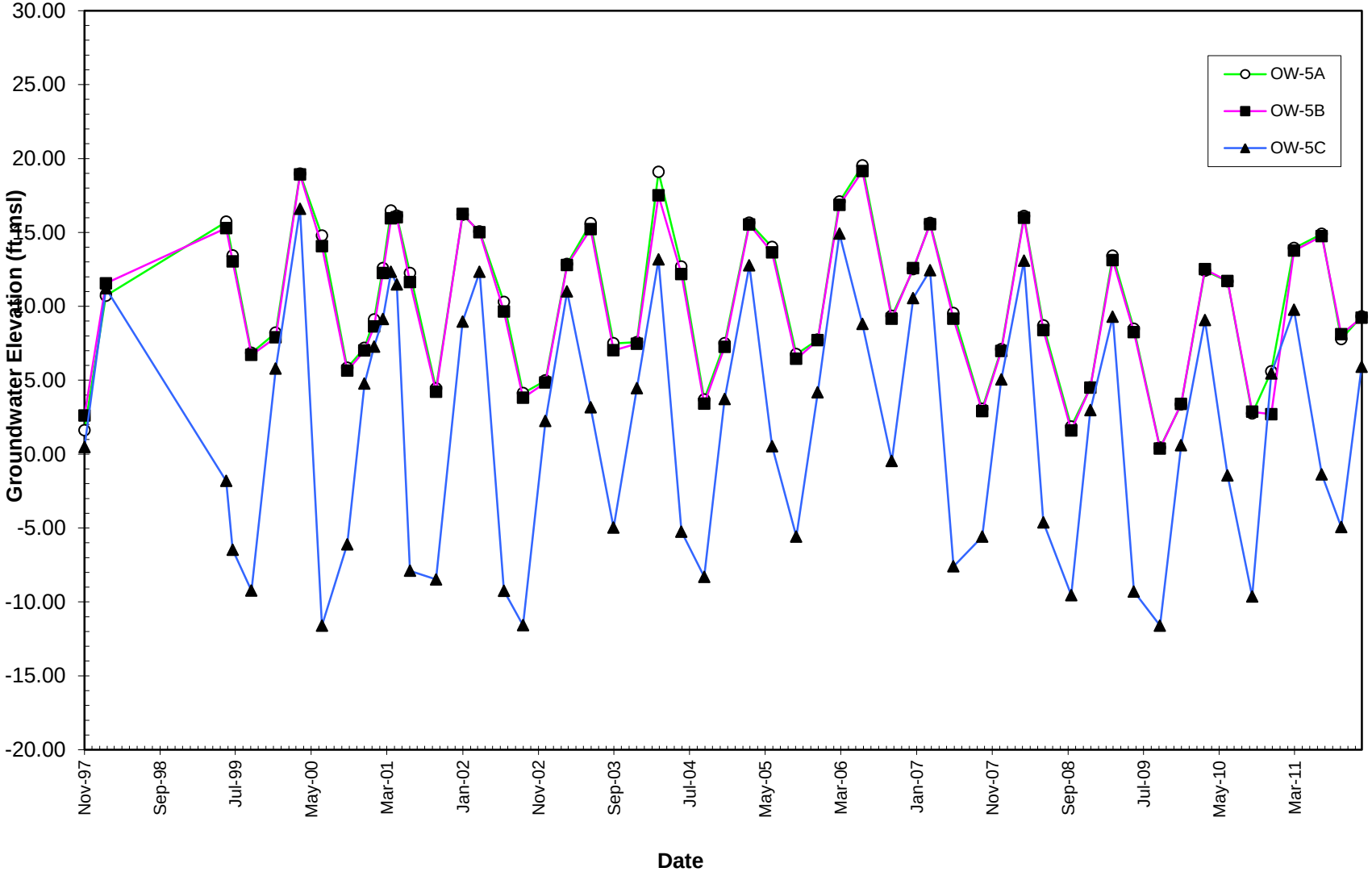


Figure A-24
Hydrograph for OW-6 Wells
Frontier Fertilizer Superfund Site, Davis, California

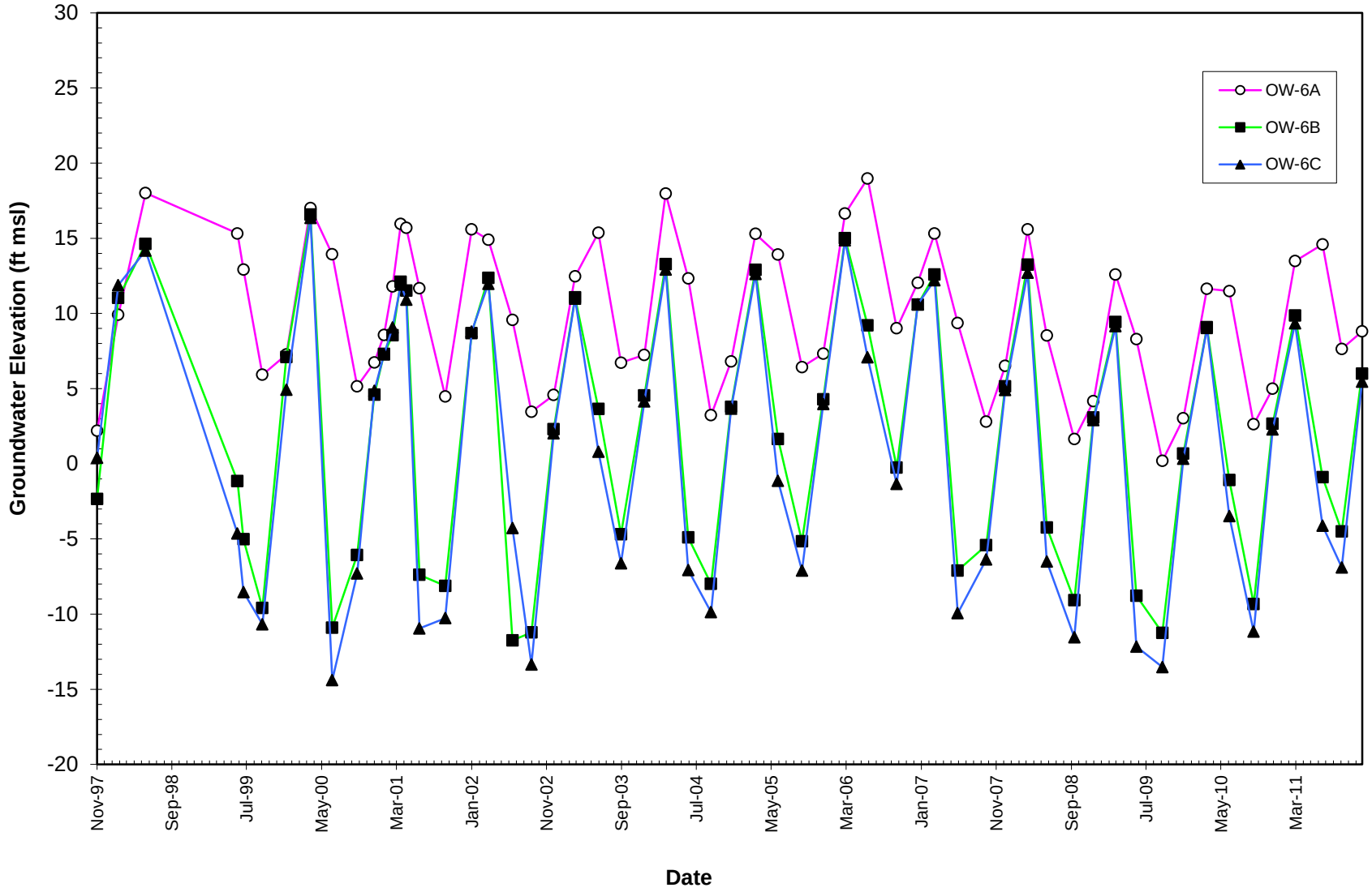


Figure A-25
Hydrograph for OW-7 Wells
Frontier Fertilizer Superfund Site, Davis, California

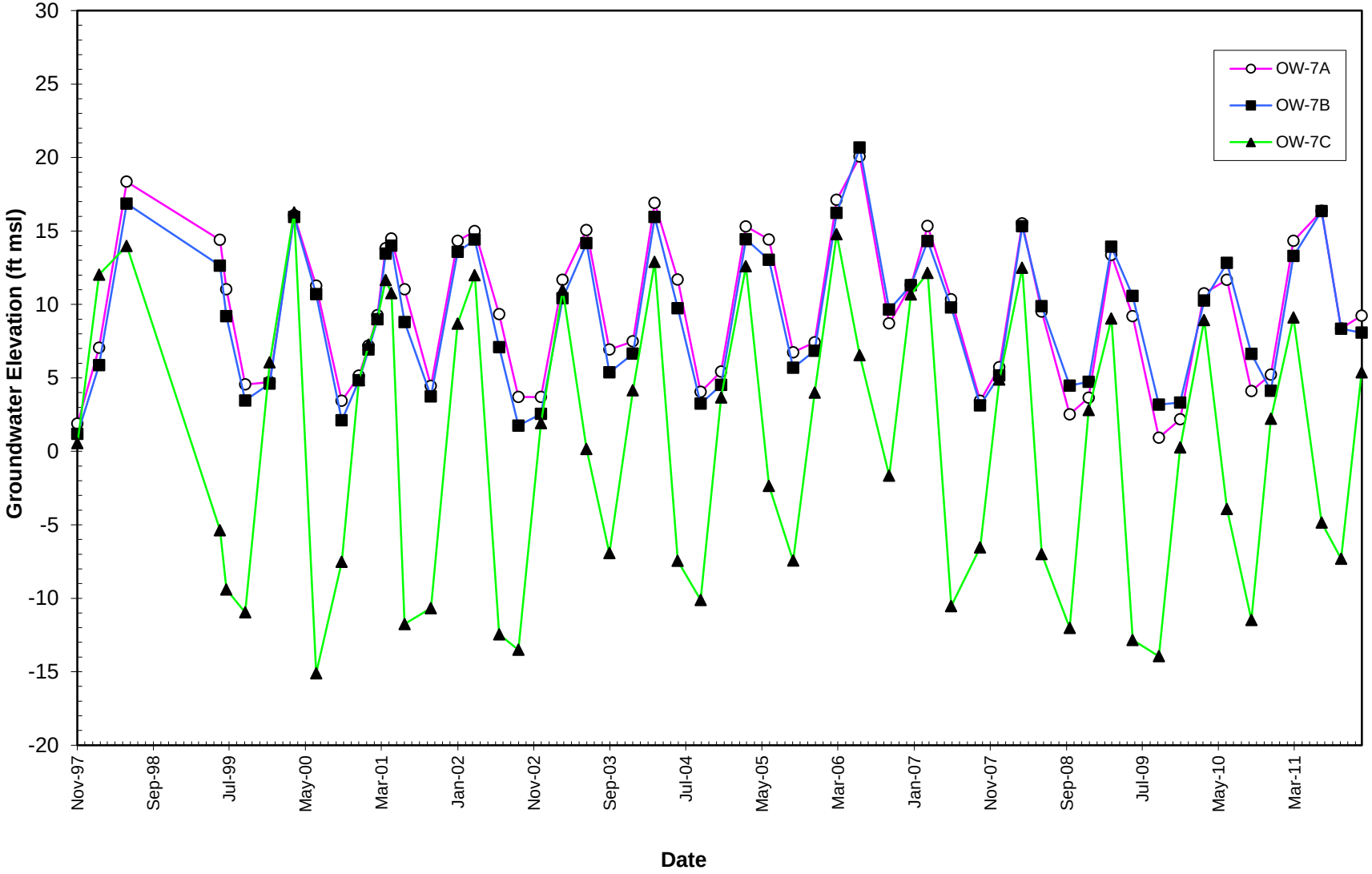


Figure A-26
Hydrograph for OW-8 Wells
Frontier Fertilizer Superfund Site, Davis, California

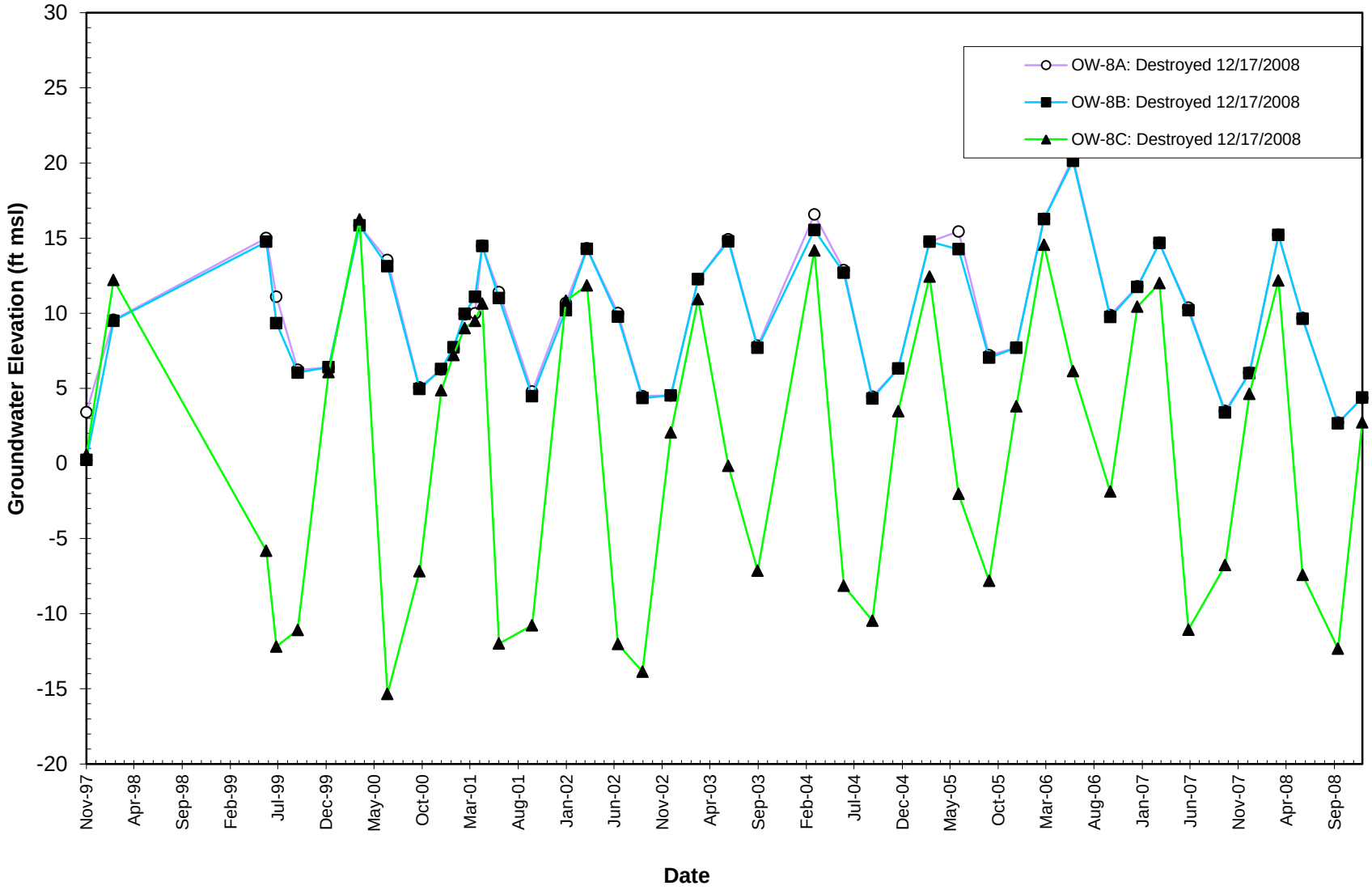


Figure A-27
Hydrograph for OW-9 Wells
Frontier Fertilizer Superfund Site, Davis, California

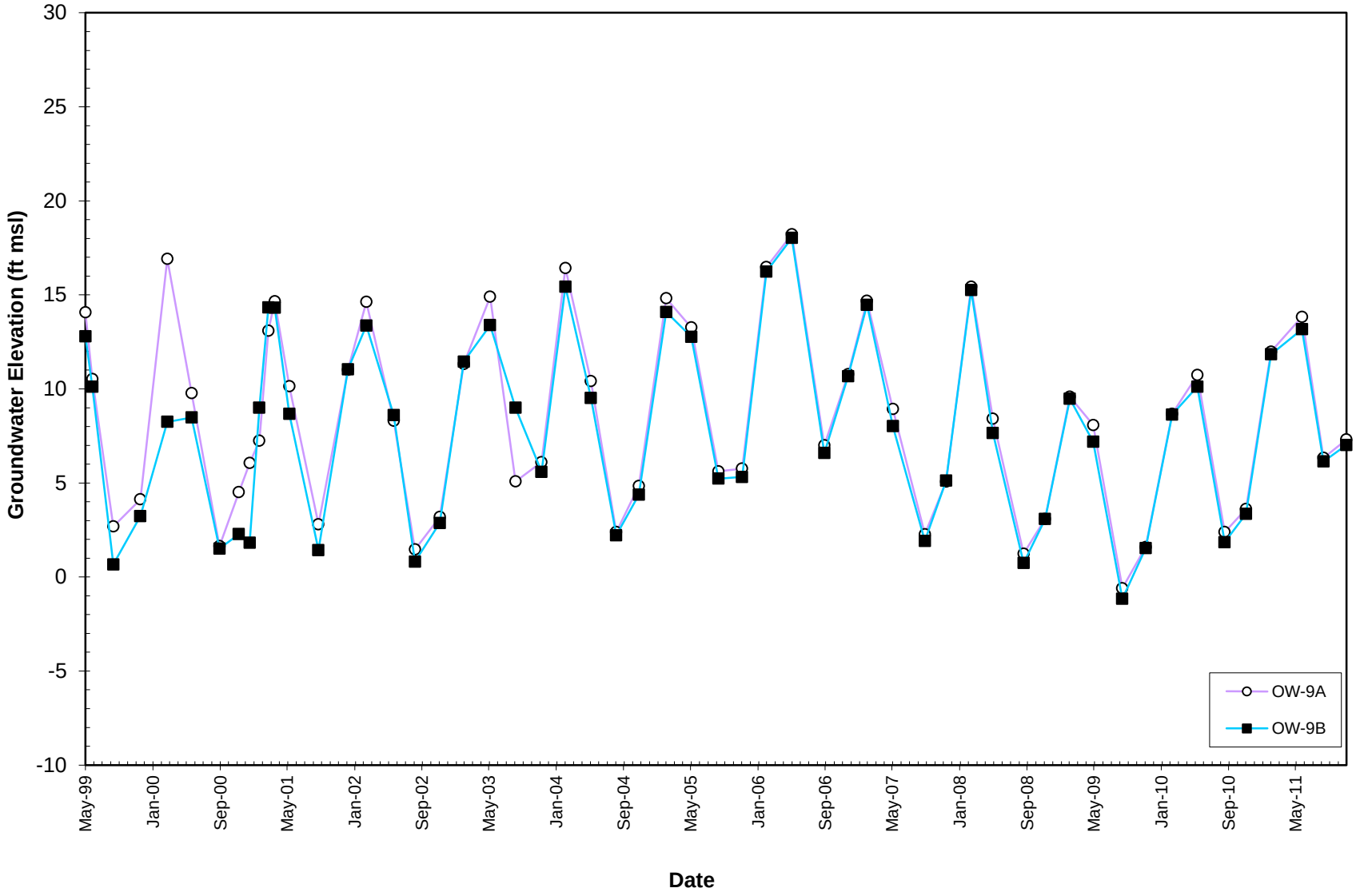


Figure A-28
Hydrograph for OW-10 Wells
Frontier Fertilizer Superfund Site, Davis, California

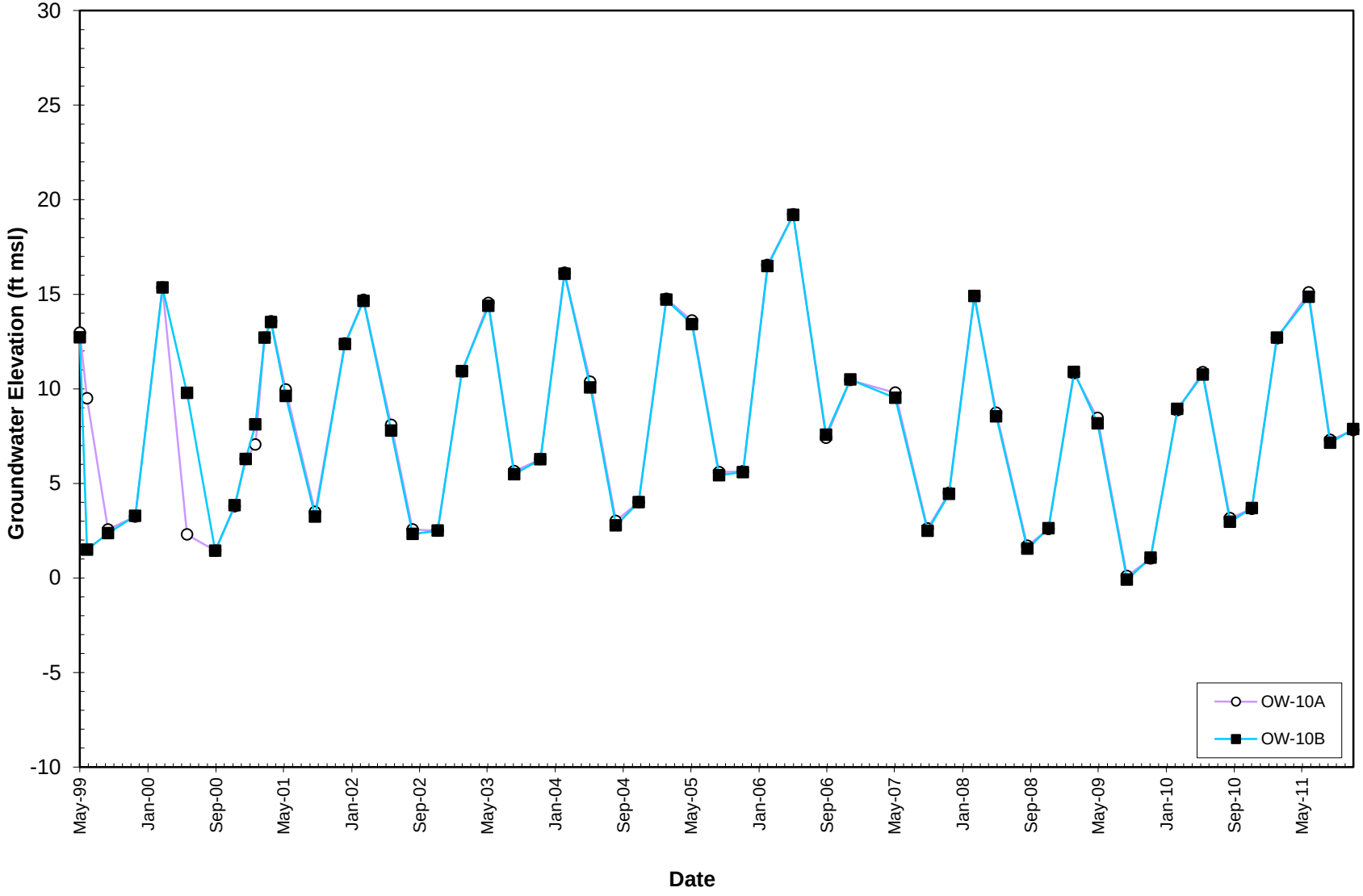


Figure A-29
Hydrograph for OW-11 Wells
Frontier Fertilizer Superfund Site, Davis, California

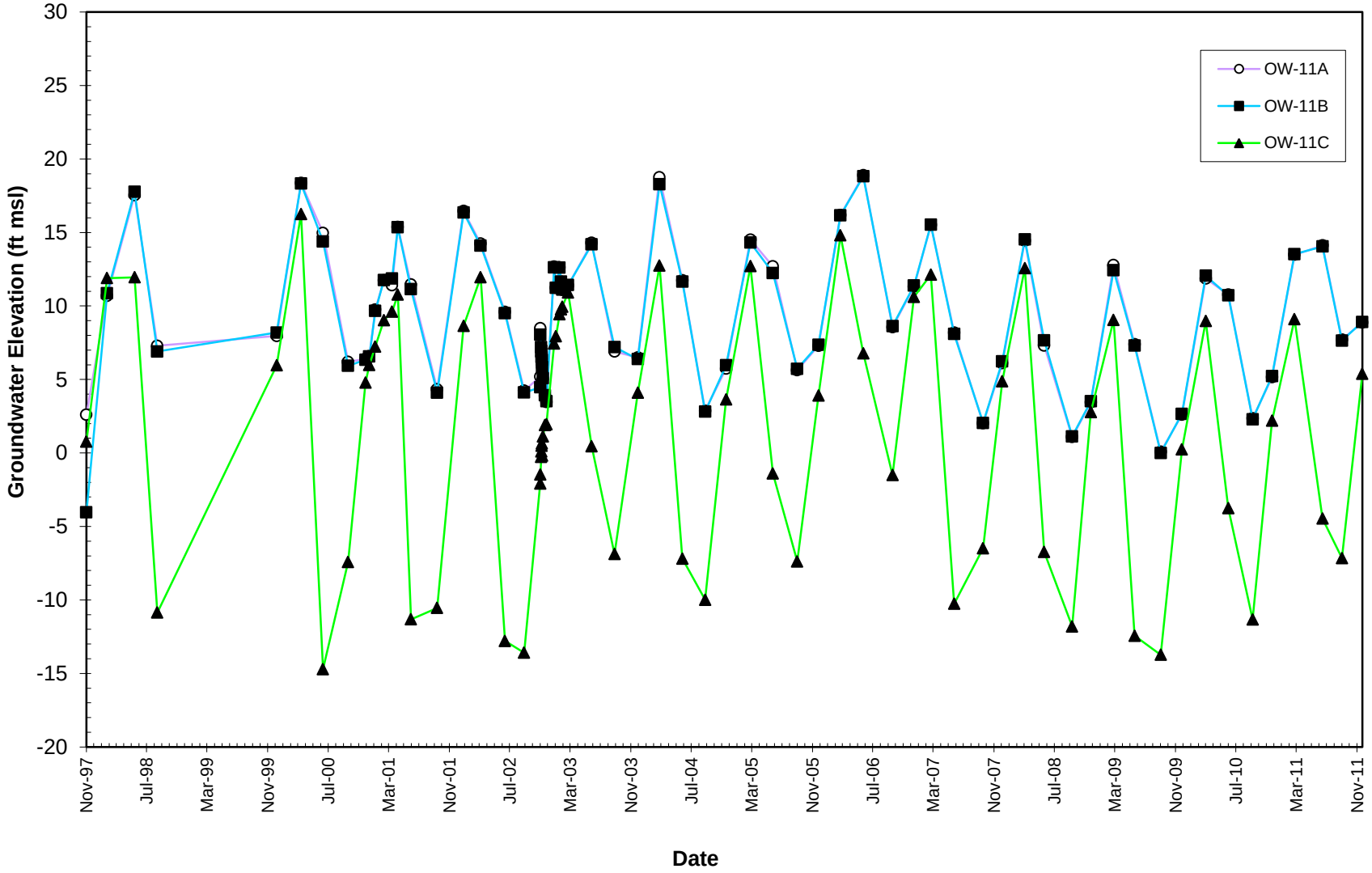


Figure A-30
Hydrograph for OW-12 Wells
Frontier Fertilizer Superfund Site, Davis, California

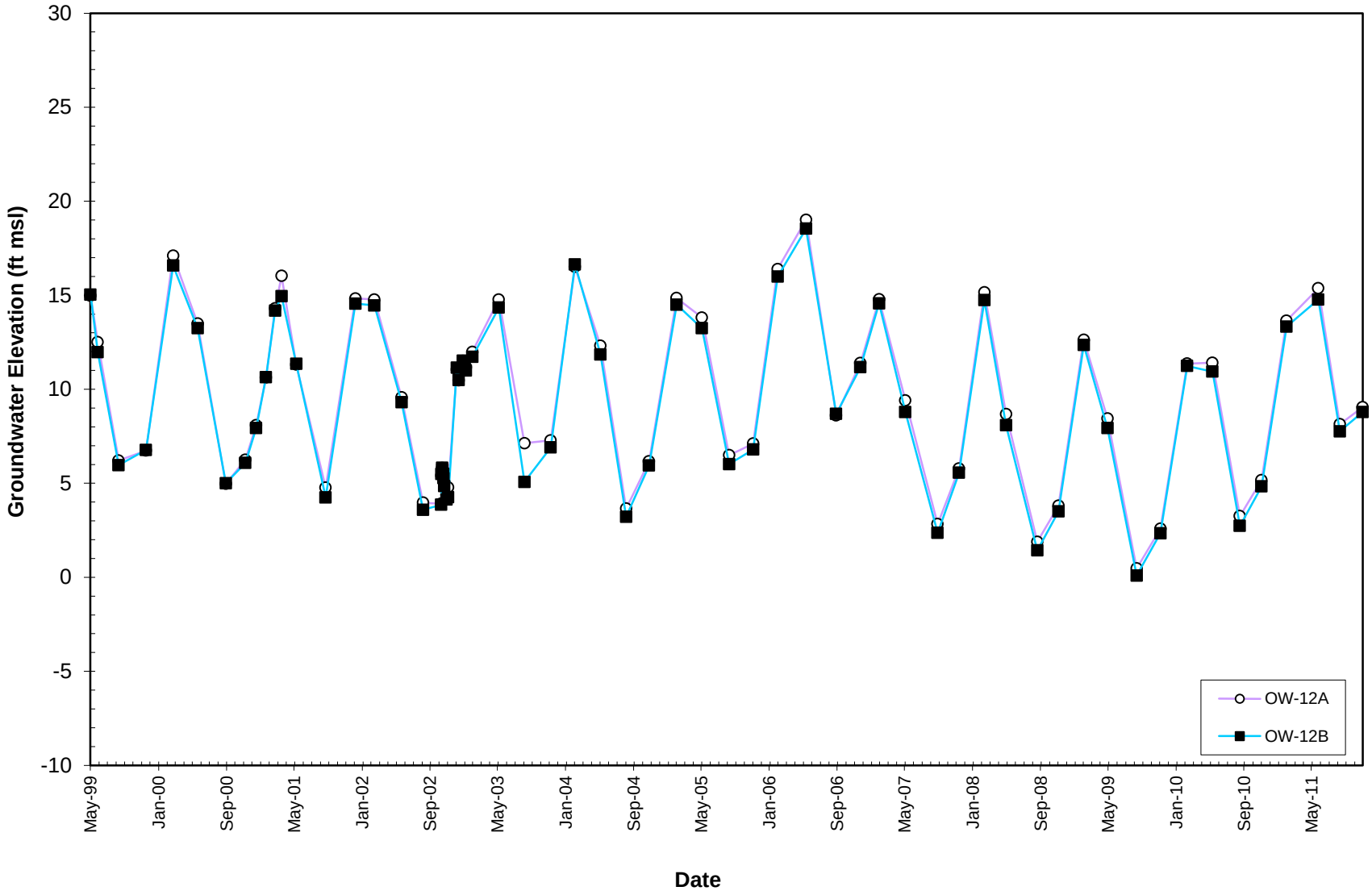


Figure A-31
Hydrograph for OW-13 Well
Frontier Fertilizer Superfund Site, Davis, California

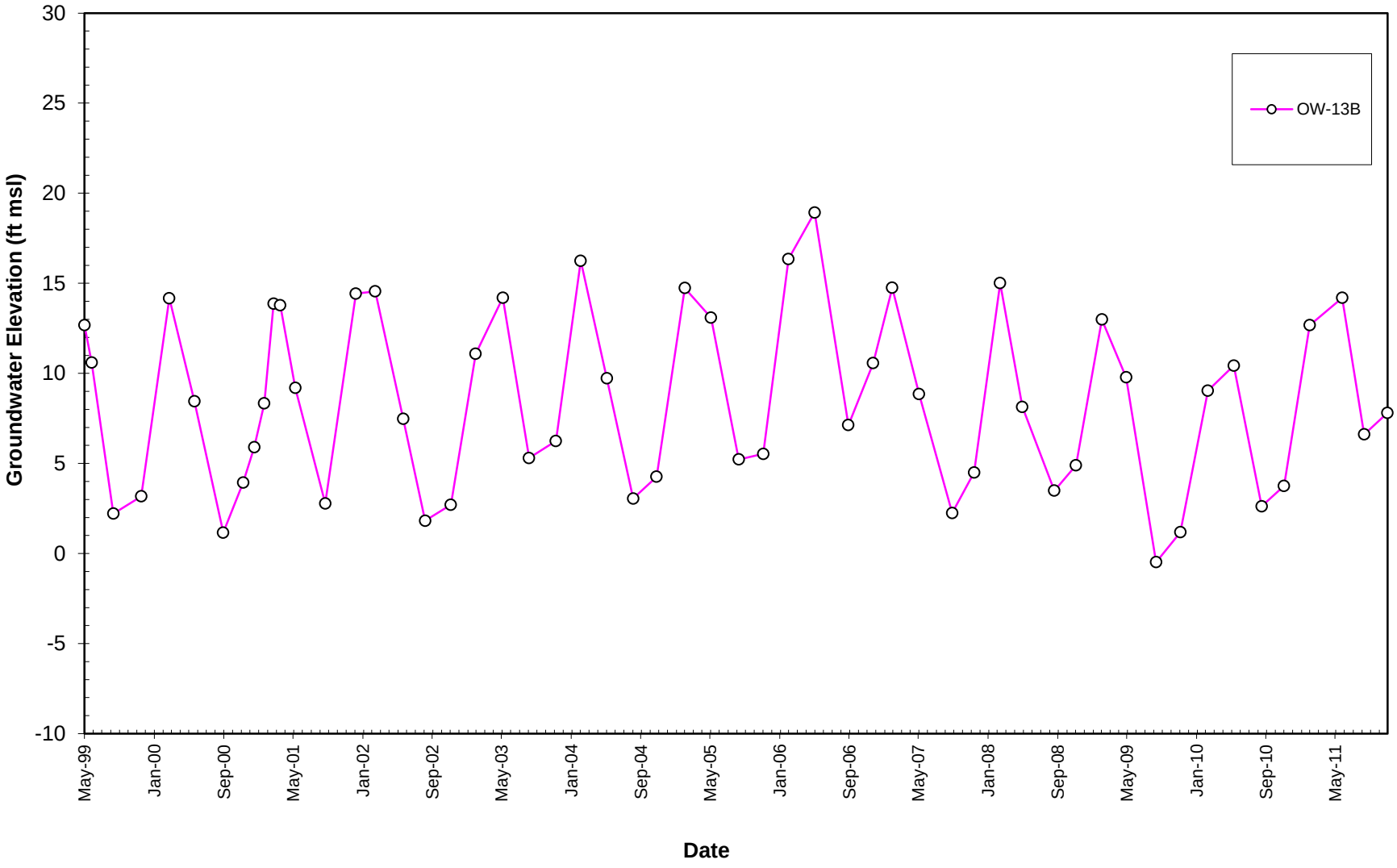


Figure A-32
Hydrograph for OW-14 Wells
Frontier Fertilizer Superfund Site, Davis, California

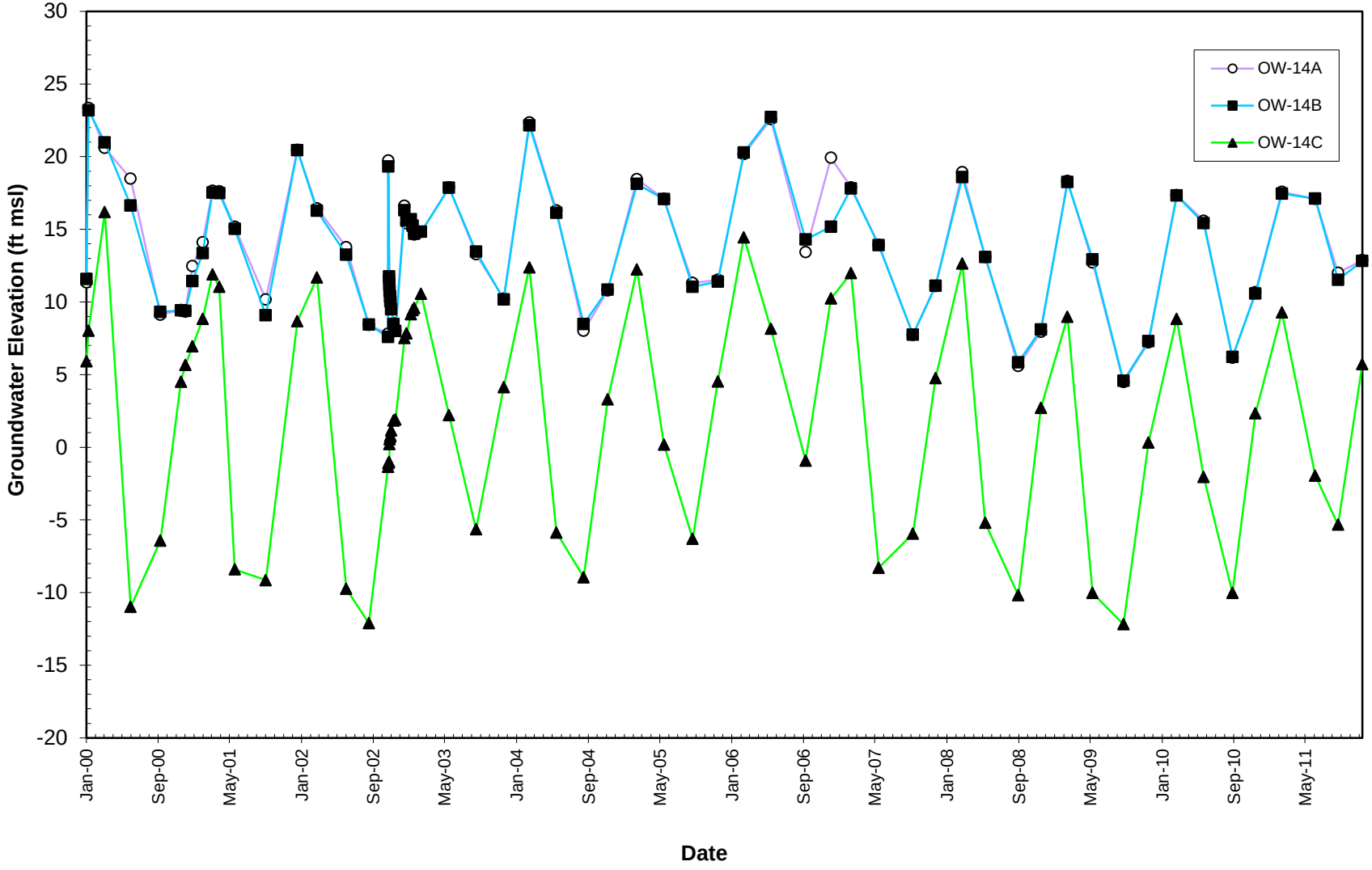


Figure A-33
Hydrograph for OW-15 Wells
Frontier Fertilizer Superfund Site, Davis, California

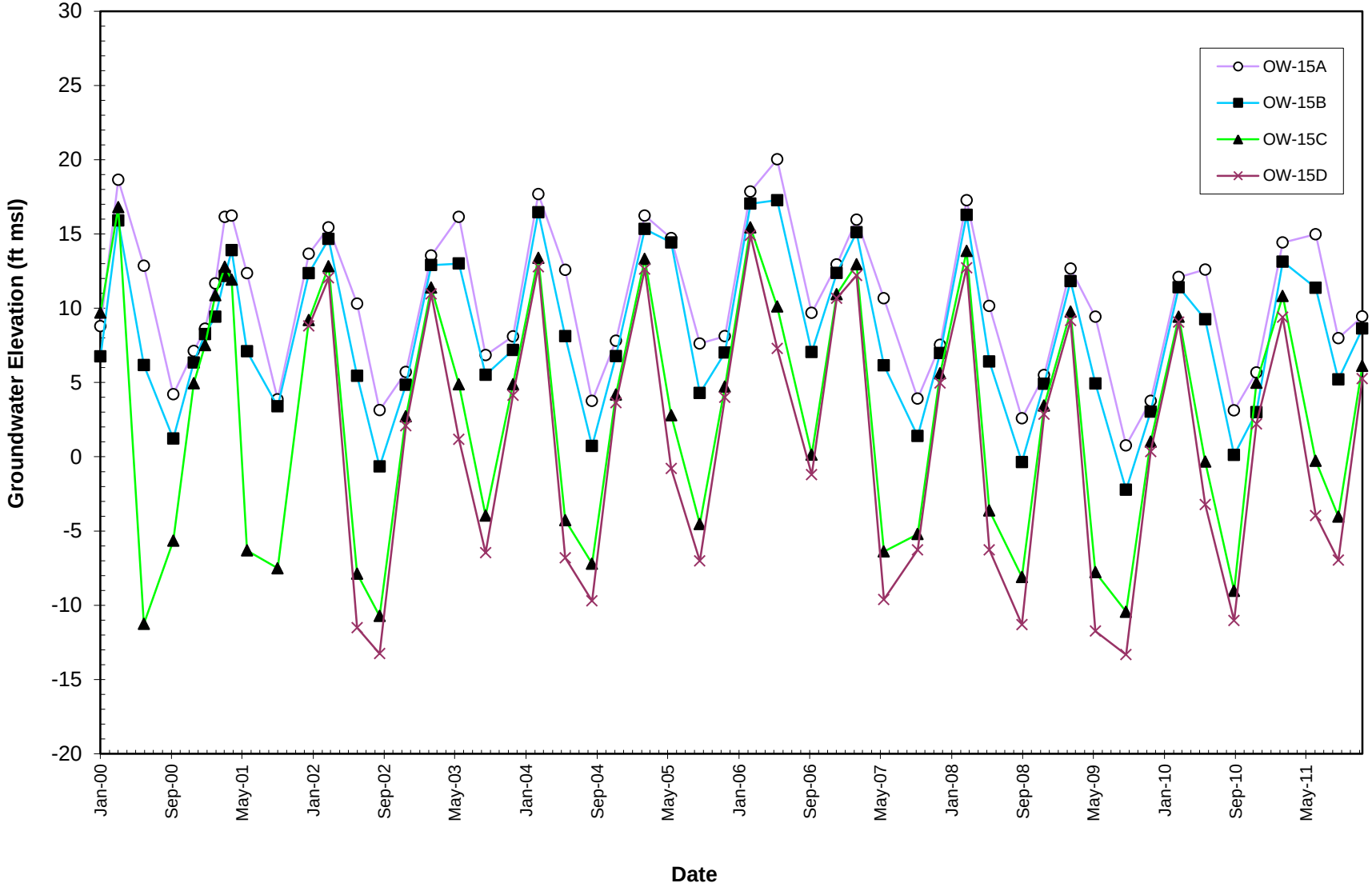


Figure A-34
Hydrograph for OW-16 Wells
Frontier Fertilizer Superfund Site, Davis, California

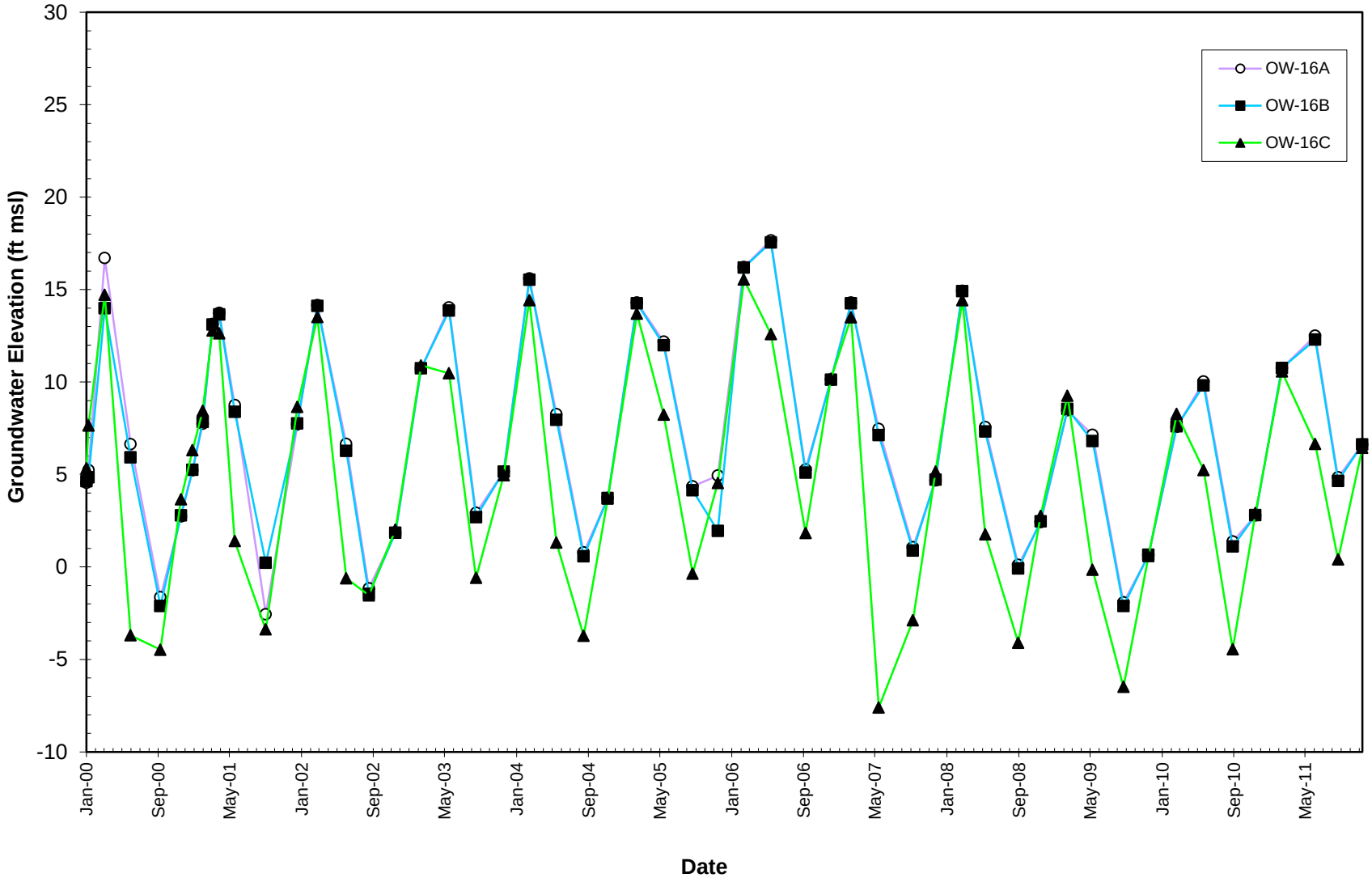


Figure A-35
Hydrograph for OW-17 Wells
Frontier Fertilizer Superfund Site, Davis, California

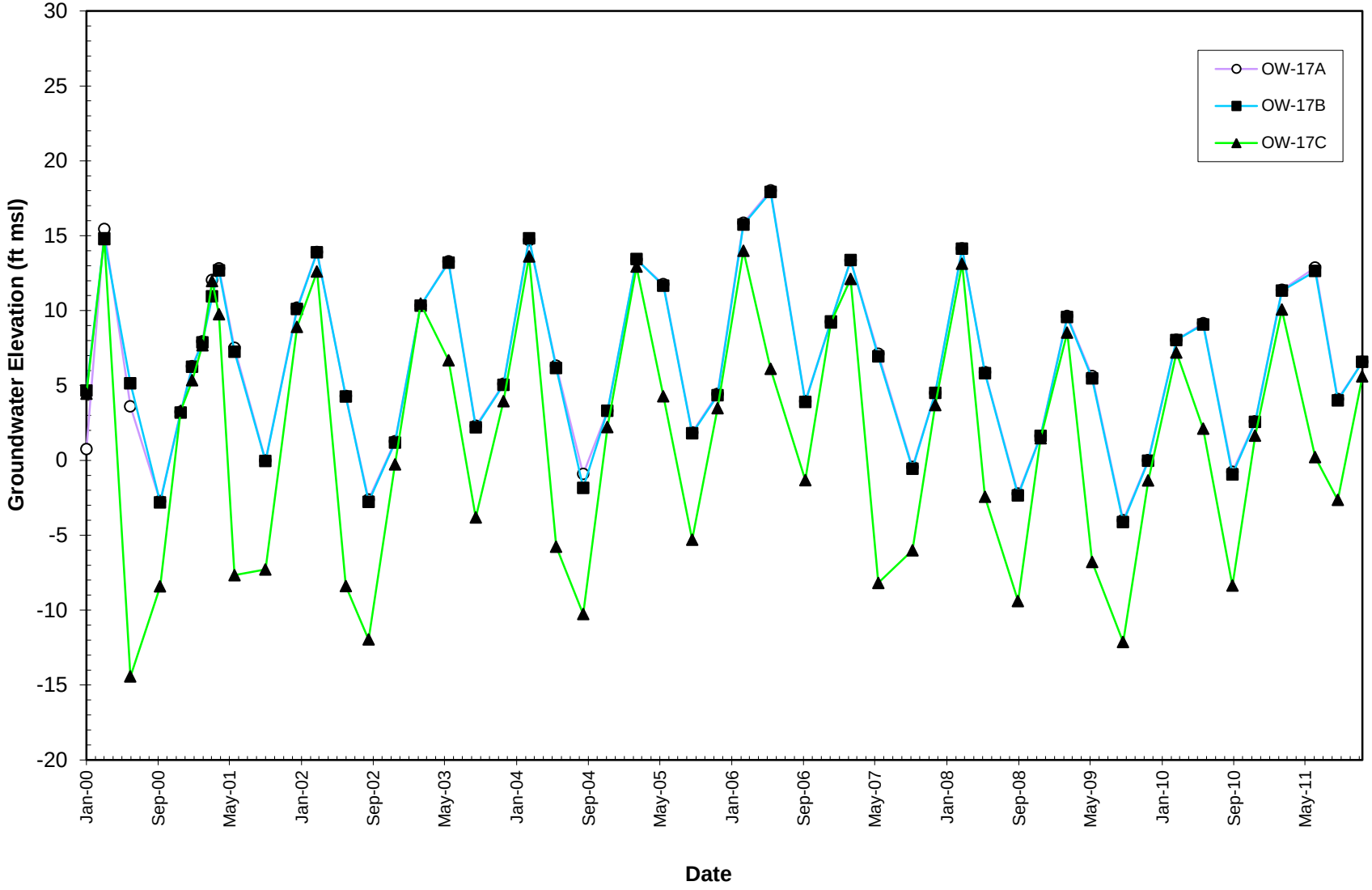


Figure A-36
Hydrograph for OW-18 Wells
Frontier Fertilizer Superfund Site, Davis, California

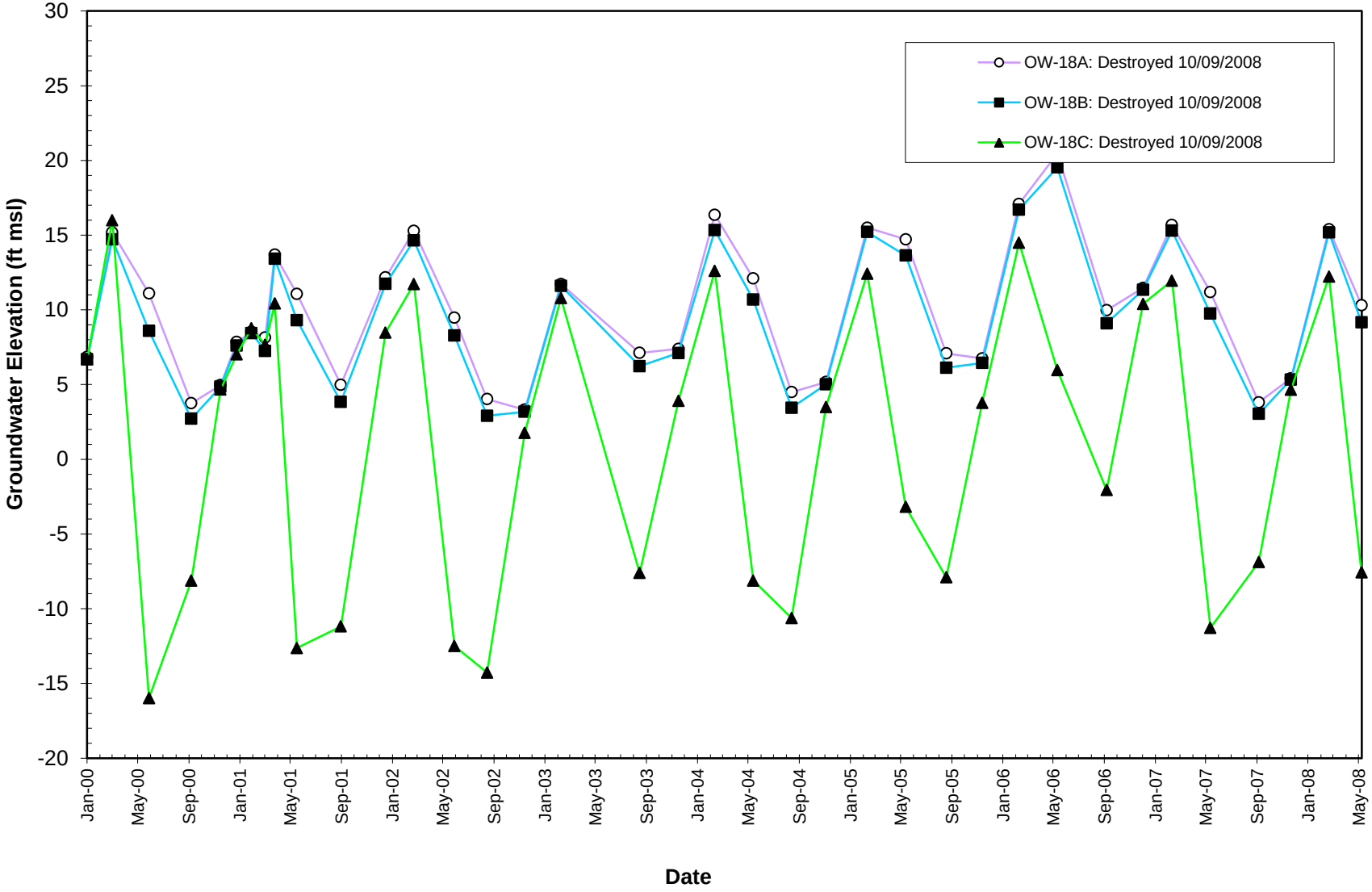


Figure A-37
Hydrograph for OW-19 Wells
Frontier Fertilizer Superfund Site, Davis, California

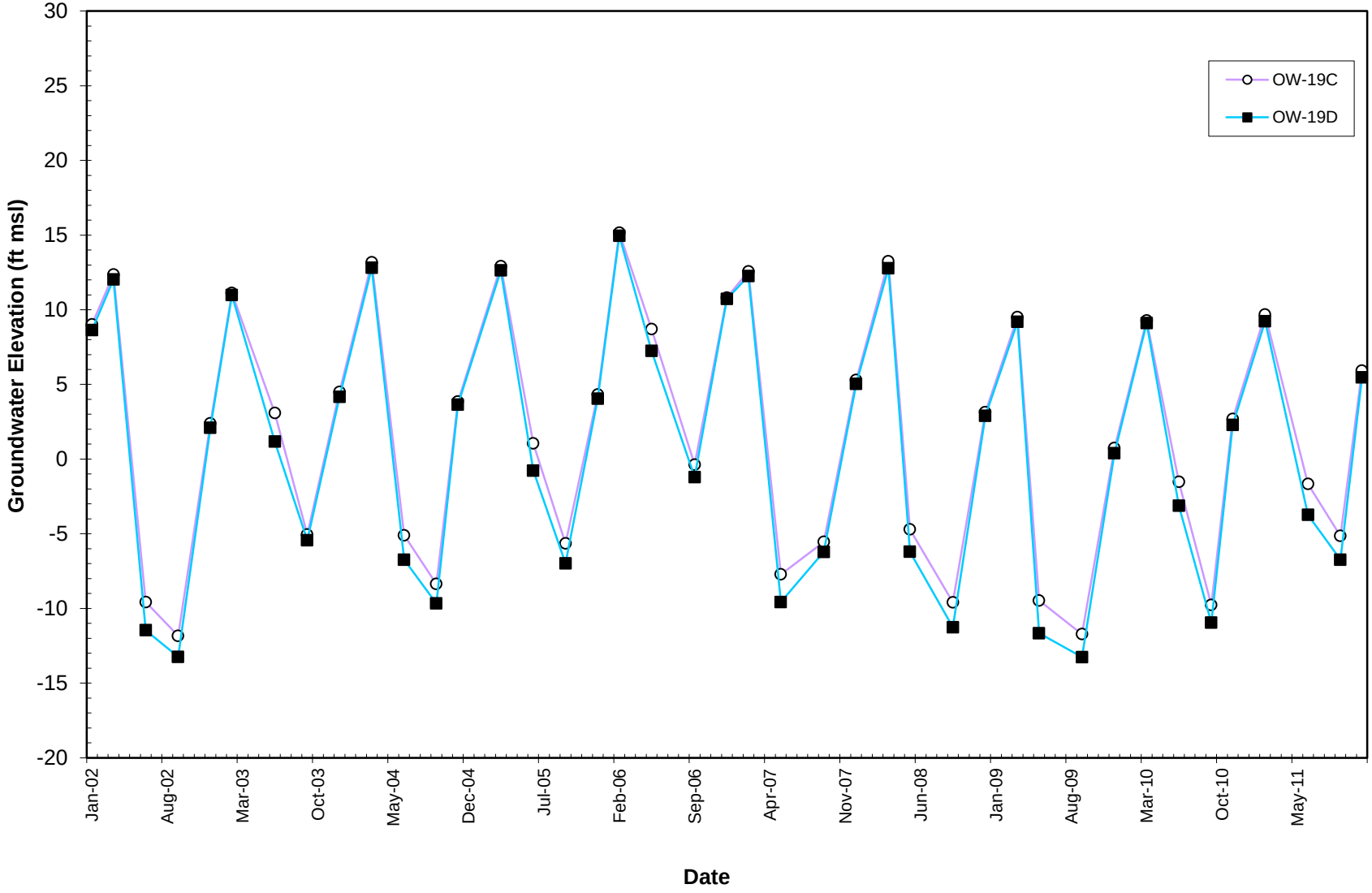


Figure A-38
Hydrograph for OW-20 Wells
Frontier Fertilizer Superfund Site, Davis, California

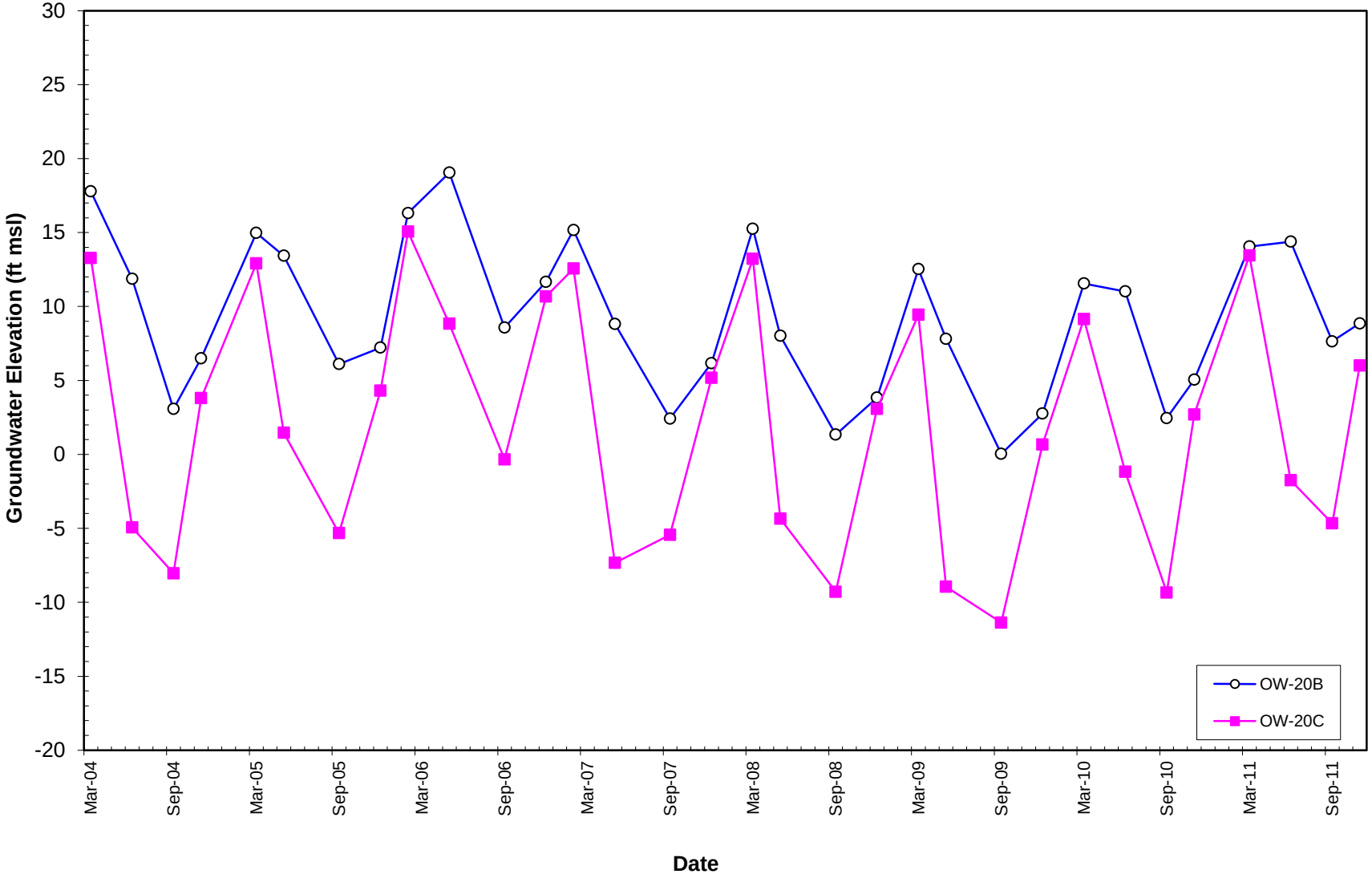


Figure A-39
Hydrograph for PC-1 Wells
Frontier Fertilizer Superfund Site, Davis, California

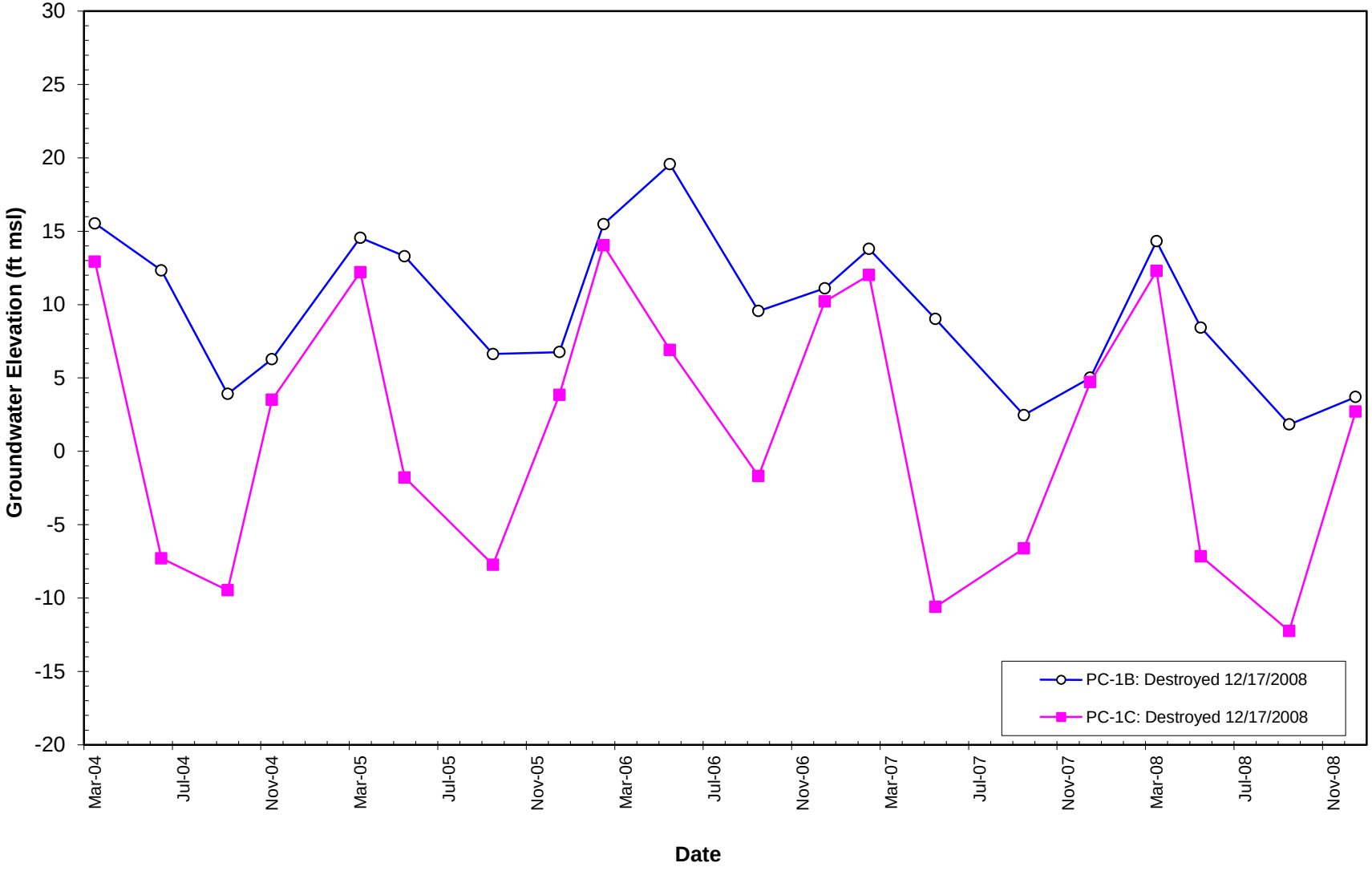


Figure A-40
Hydrograph for PC-2 Wells
Frontier Fertilizer Superfund Site, Davis, California

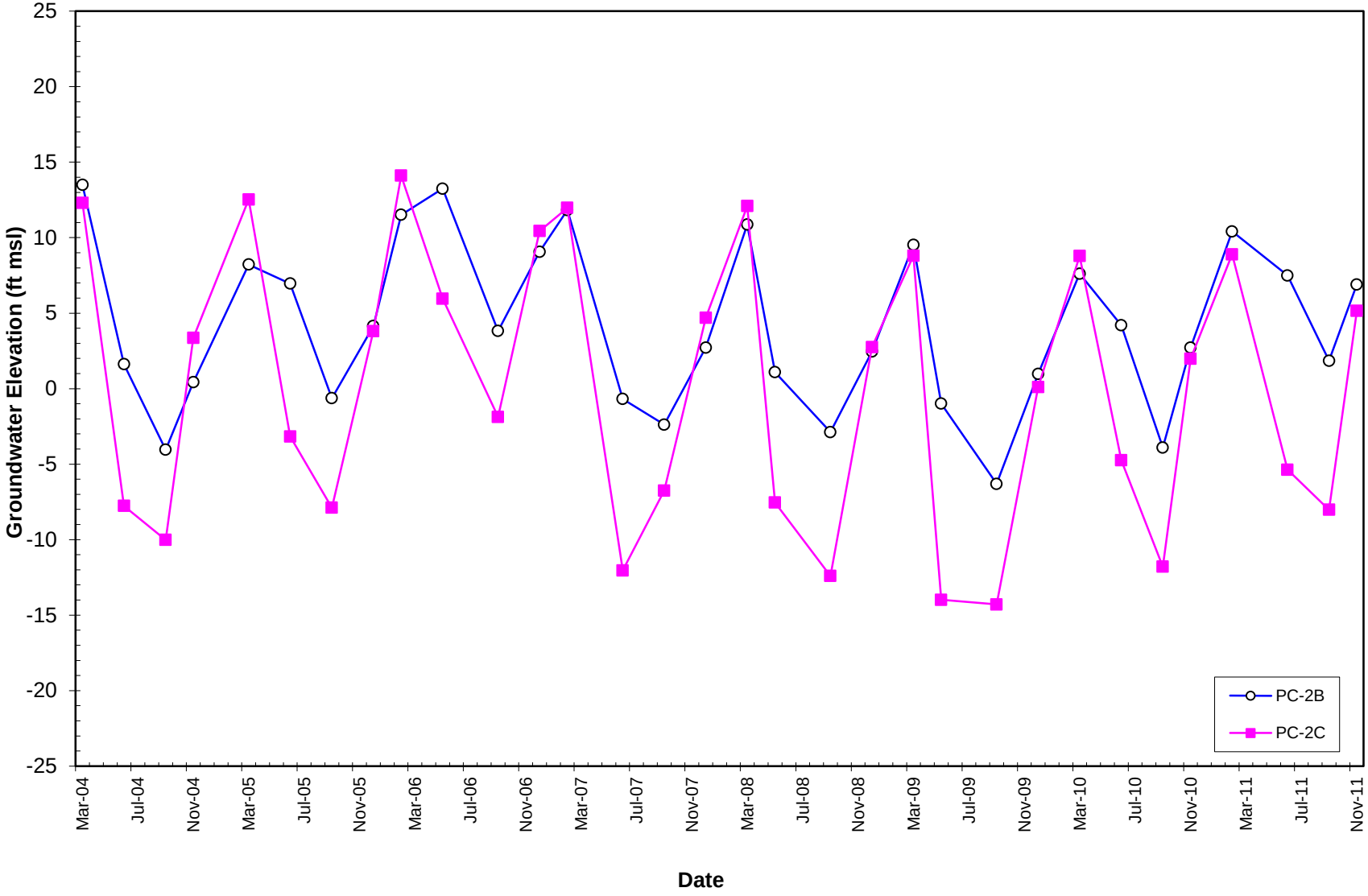


Figure A-41
Hydrograph for X-1 Wells
Frontier Fertilizer Superfund Site, Davis, California

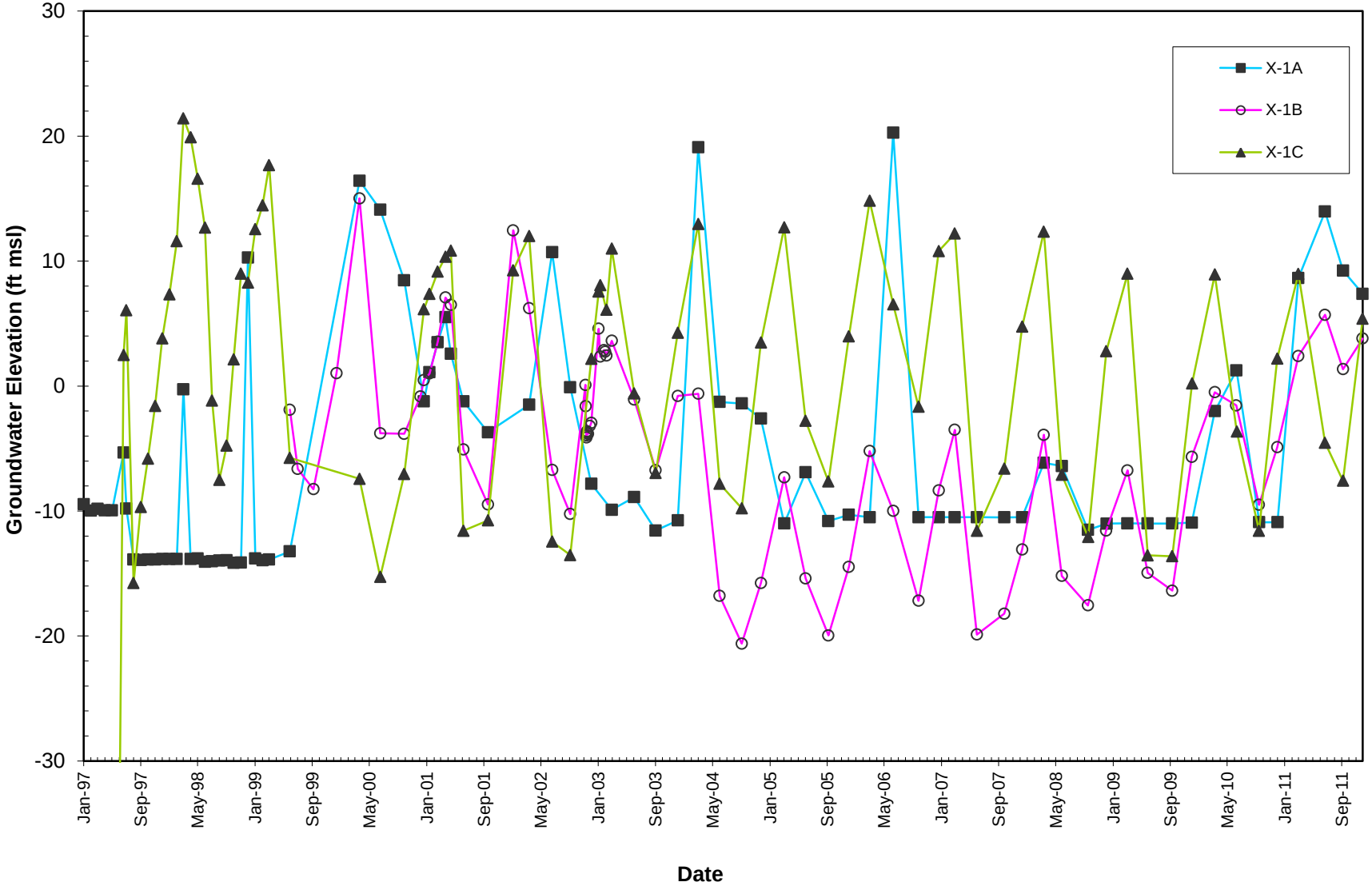


Figure A-42
Hydrograph for X-2 Wells
Frontier Fertilizer Superfund Site, Davis, California

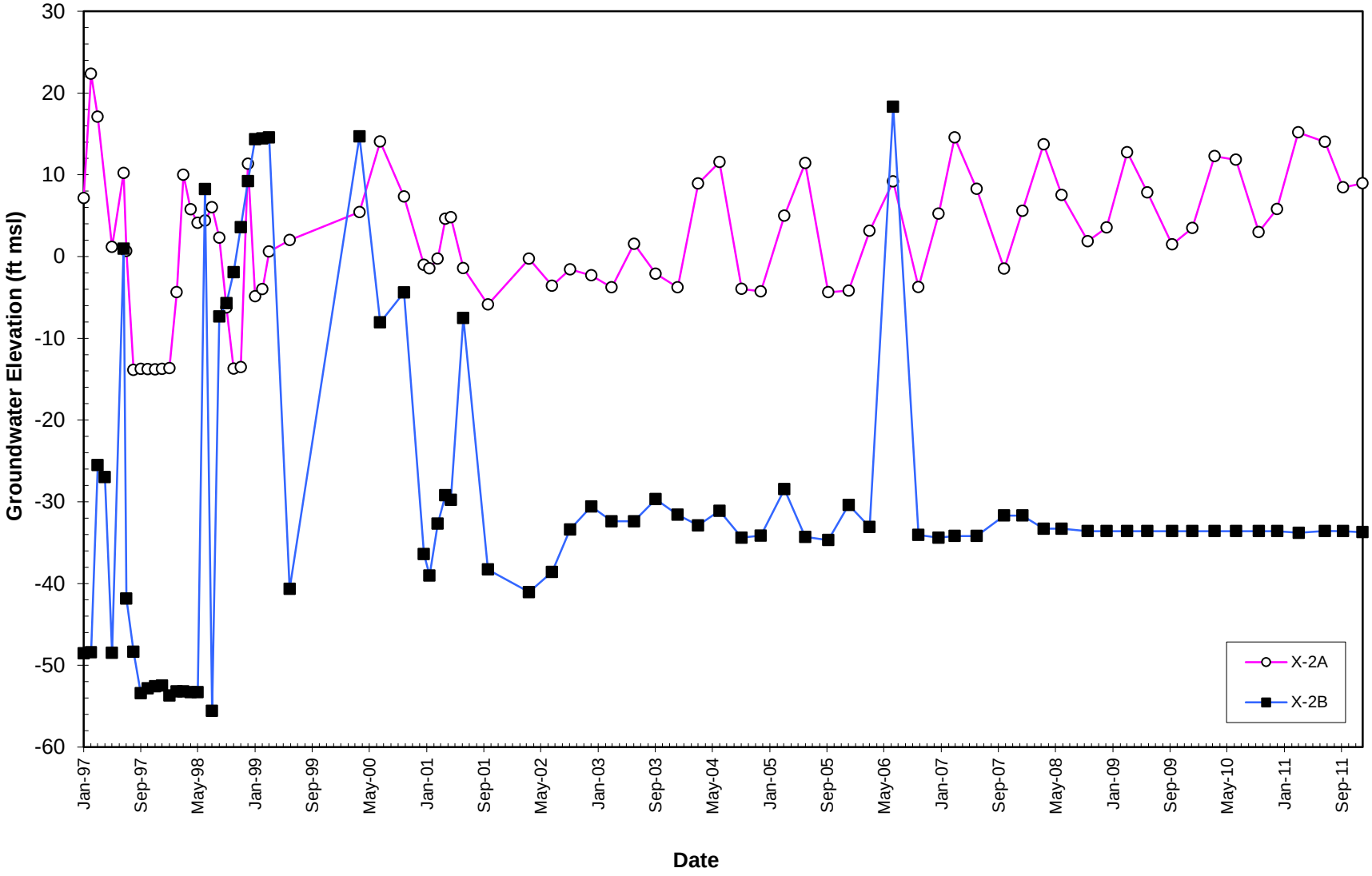


Figure A-43
Hydrograph for X-3 Wells
Frontier Fertilizer Superfund Site, Davis, California

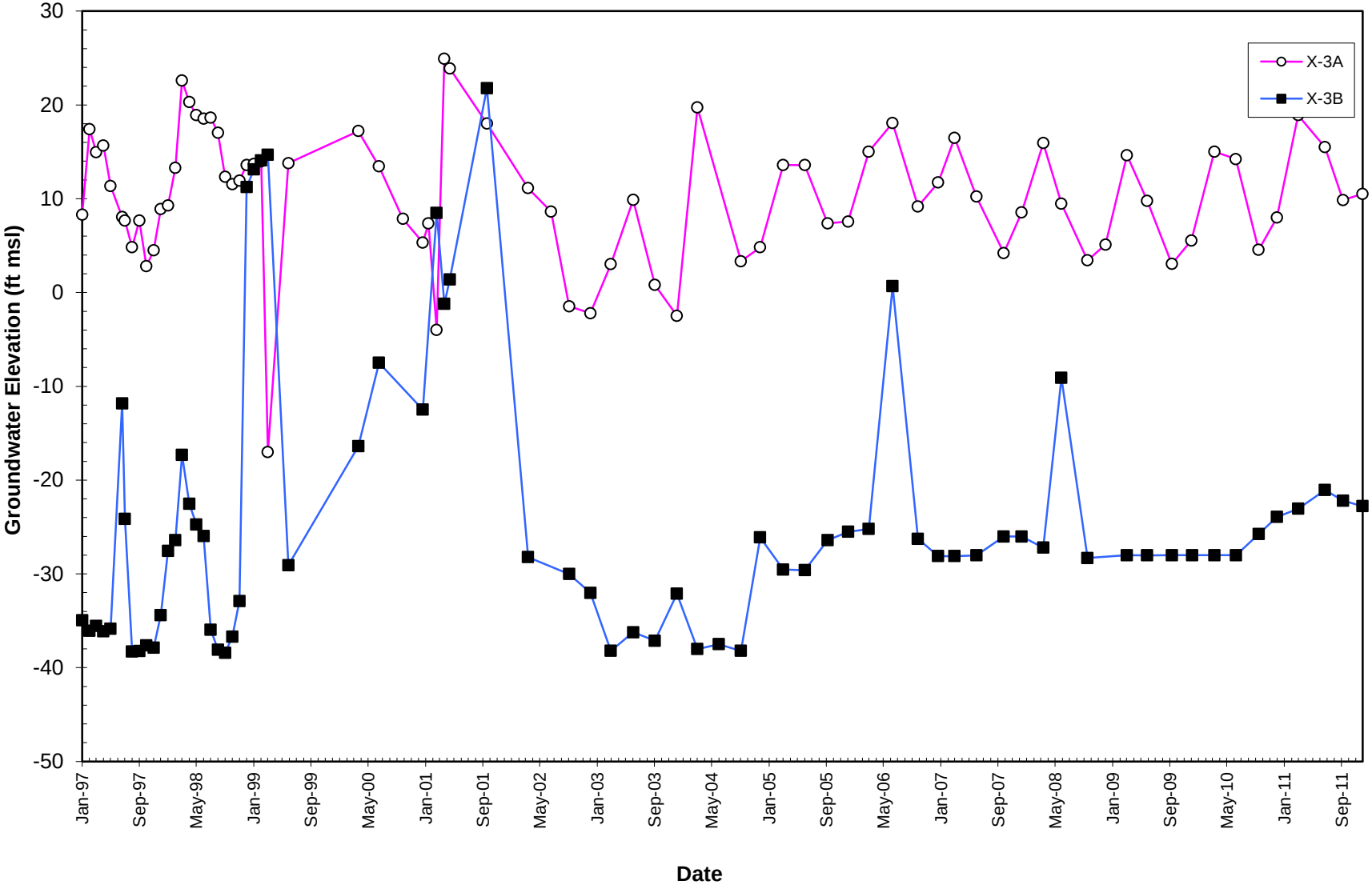


Figure A-44
Hydrograph for X-4 Wells
Frontier Fertilizer Superfund Site, Davis, California

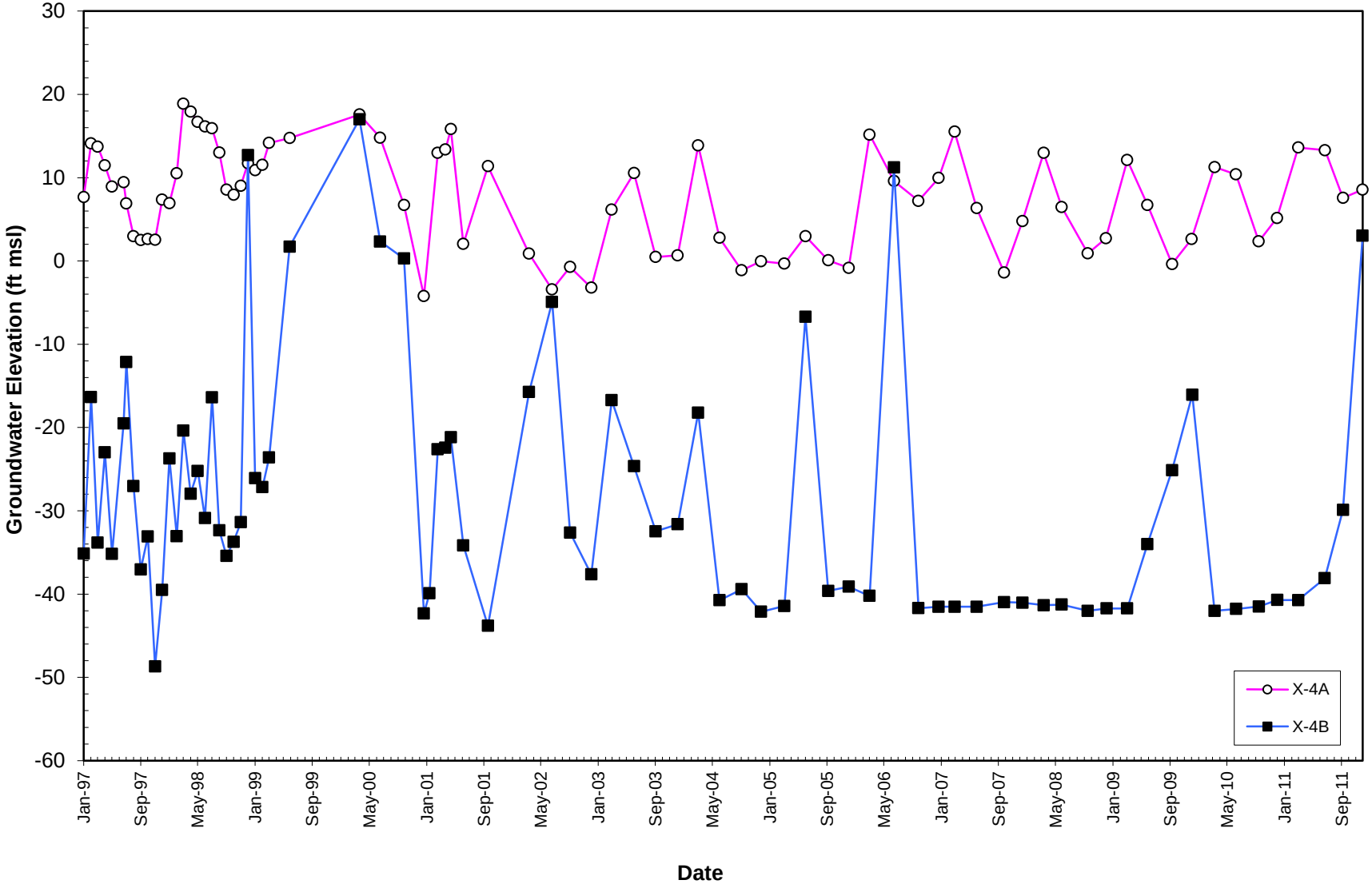


Figure A-45
Hydrograph for X-5 Wells
Frontier Fertilizer Superfund Site, Davis, California

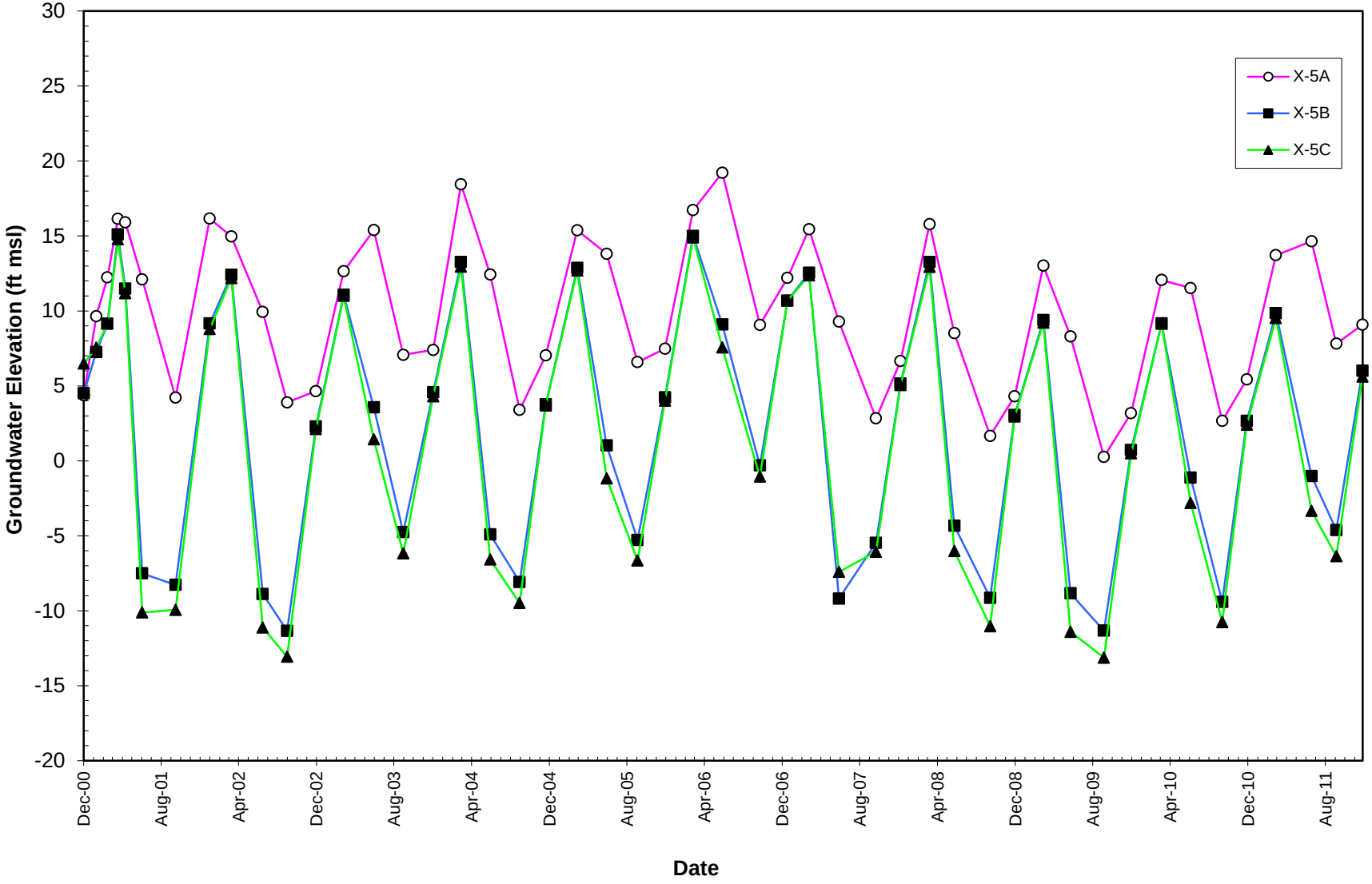


Figure A-46
Hydrograph for X-6 Wells
Frontier Fertilizer Superfund Site, Davis, California

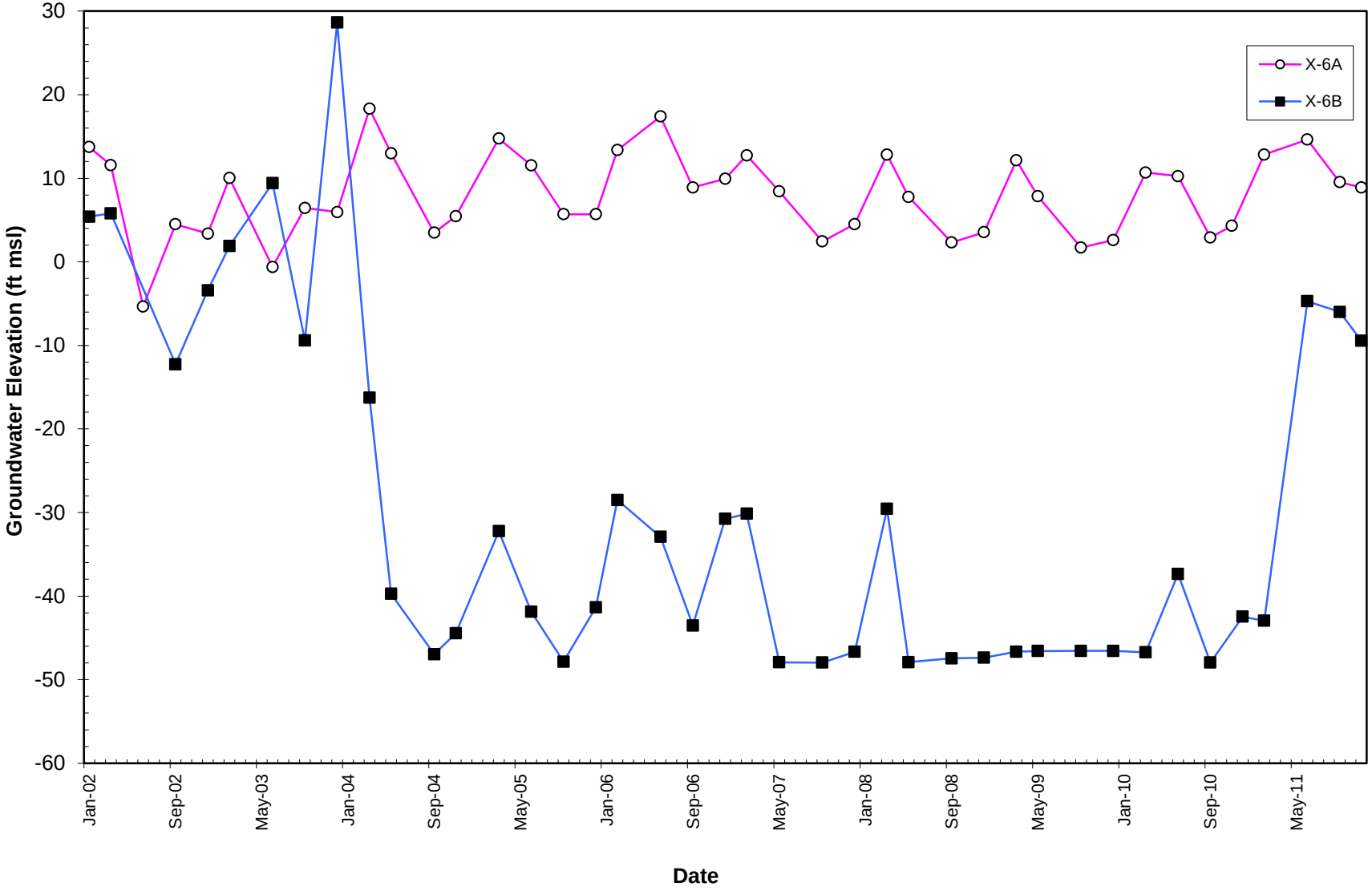


Figure A-47
Hydrograph for X-7 Wells
Frontier Fertilizer Superfund Site, Davis, California

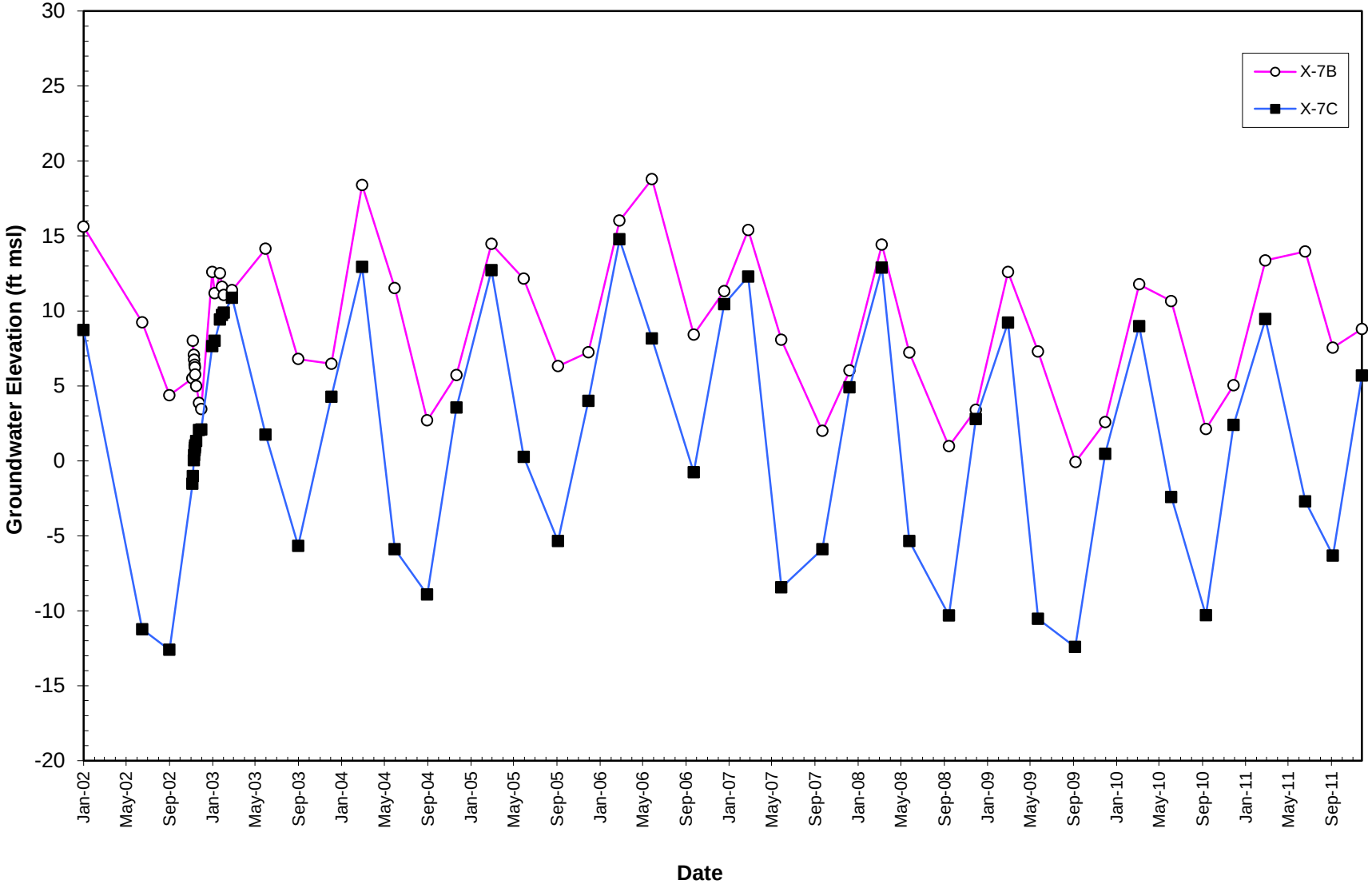


Figure A-48
Hydrograph for X-8 Wells
Frontier Fertilizer Superfund Site, Davis, California

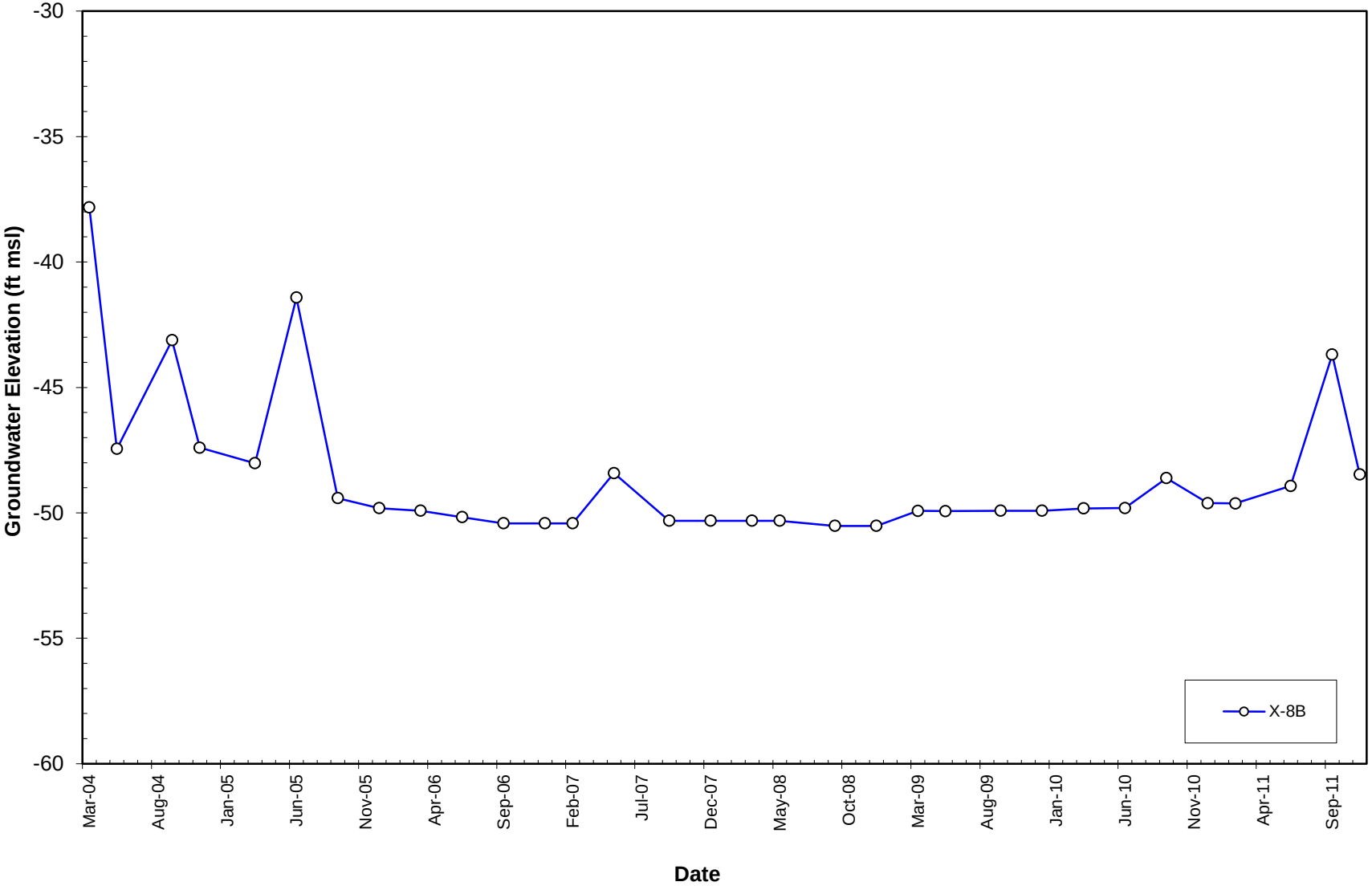


Figure A-49
Hydrograph for X-9 Wells

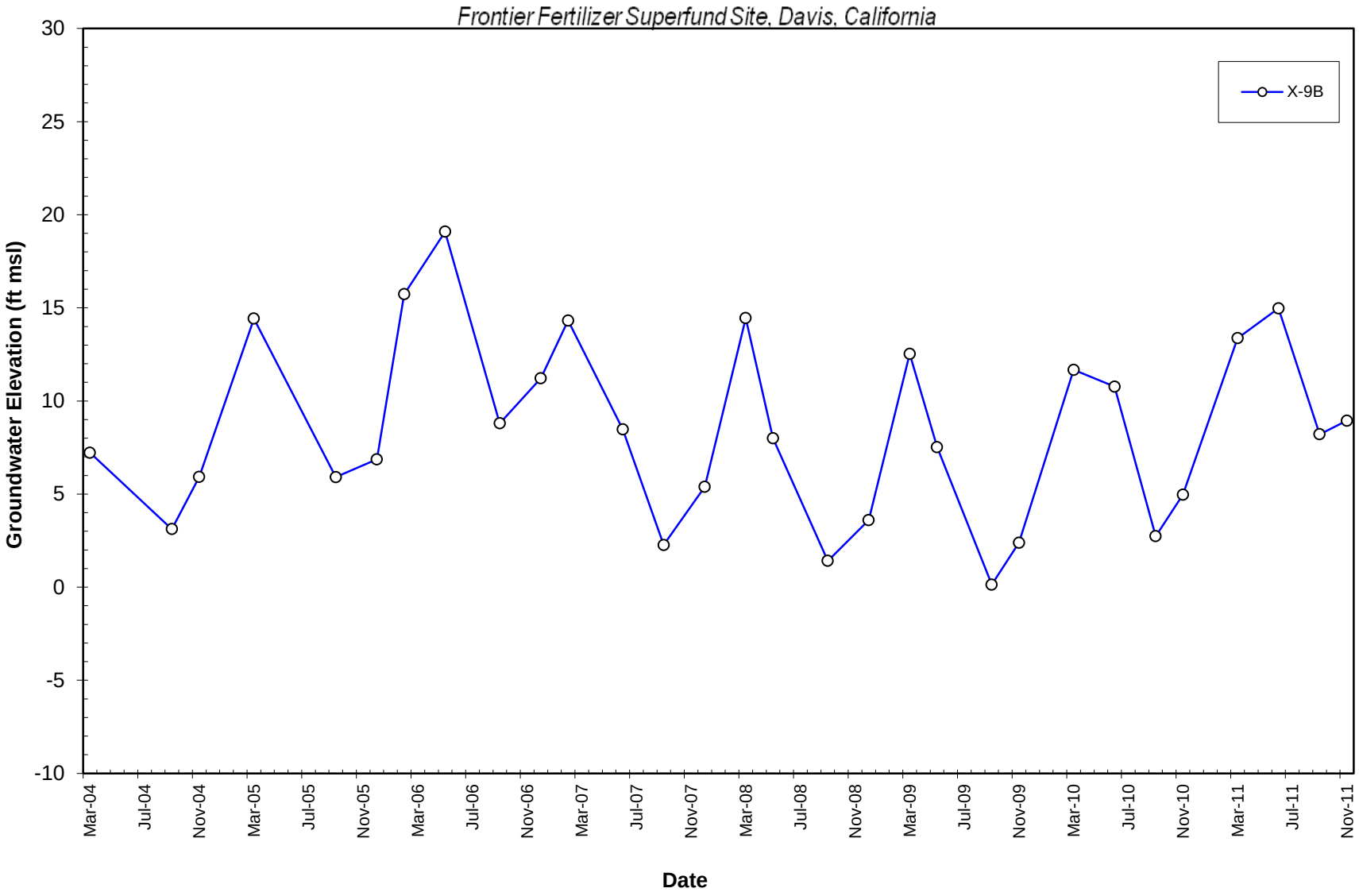


Figure A-50
Hydrograph for X-10 Wells

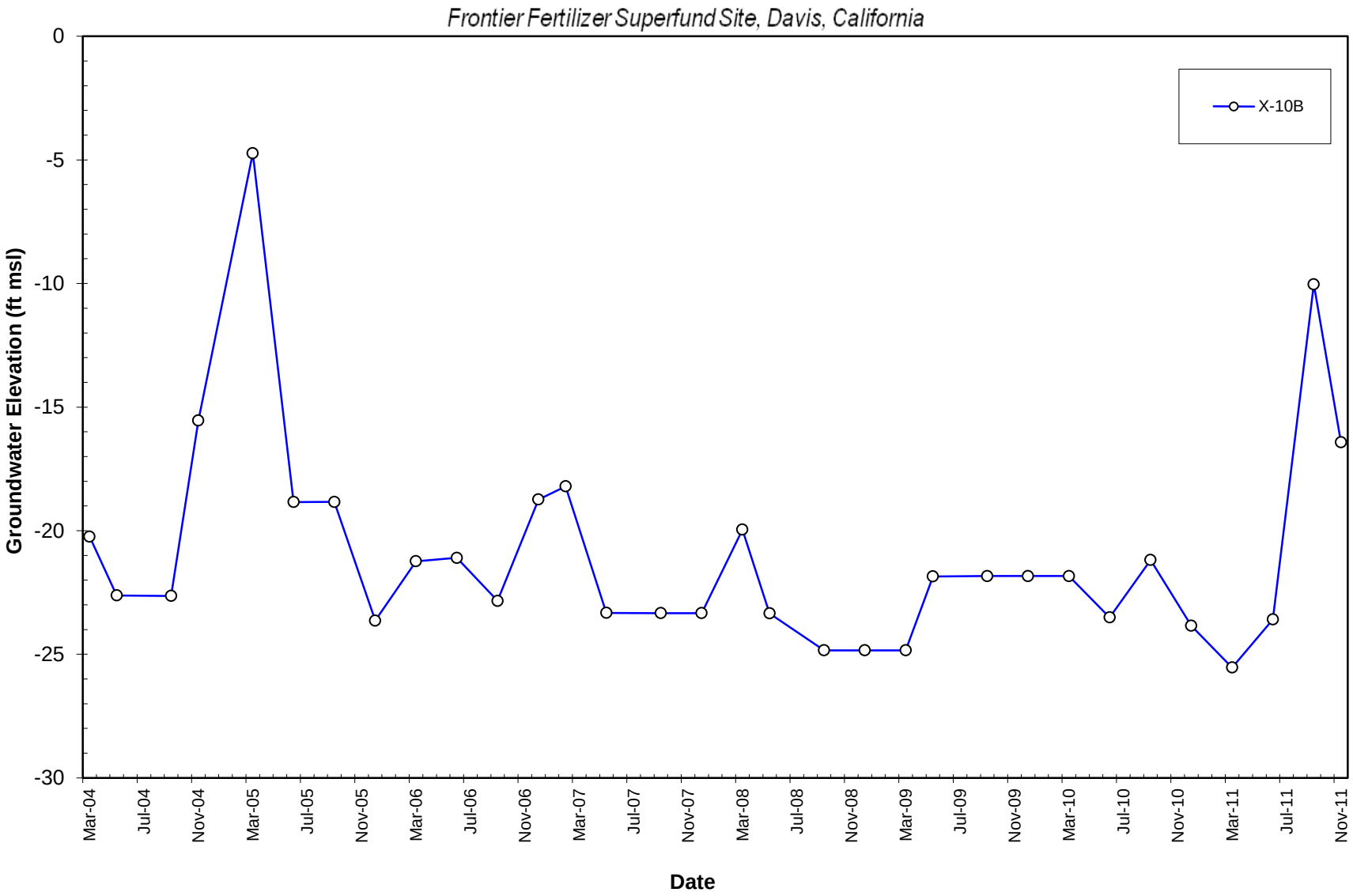


Figure A-51
Hydrograph for PW-1 Wells

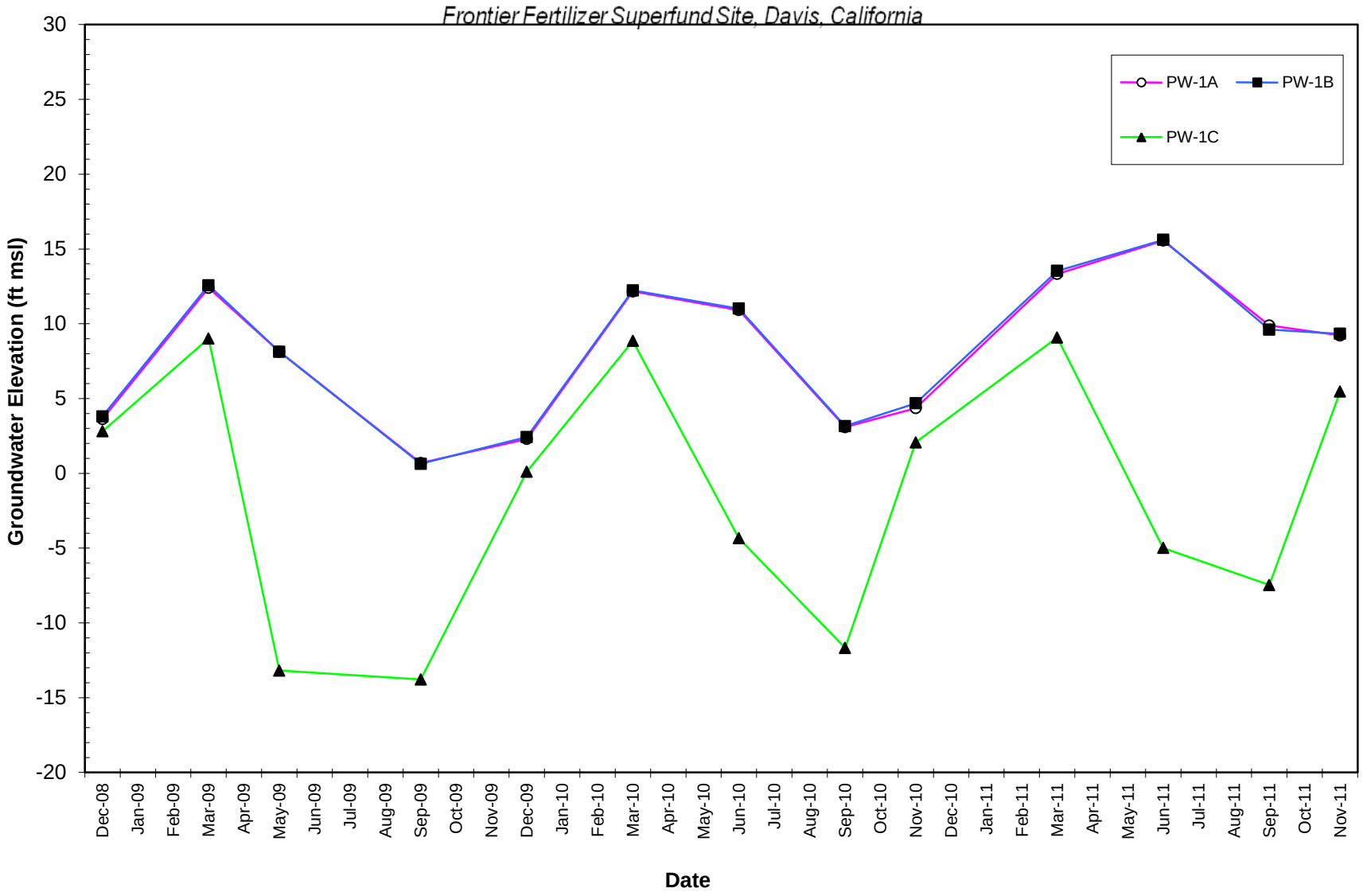


Figure A-52
Hydrograph for PW-2 Wells

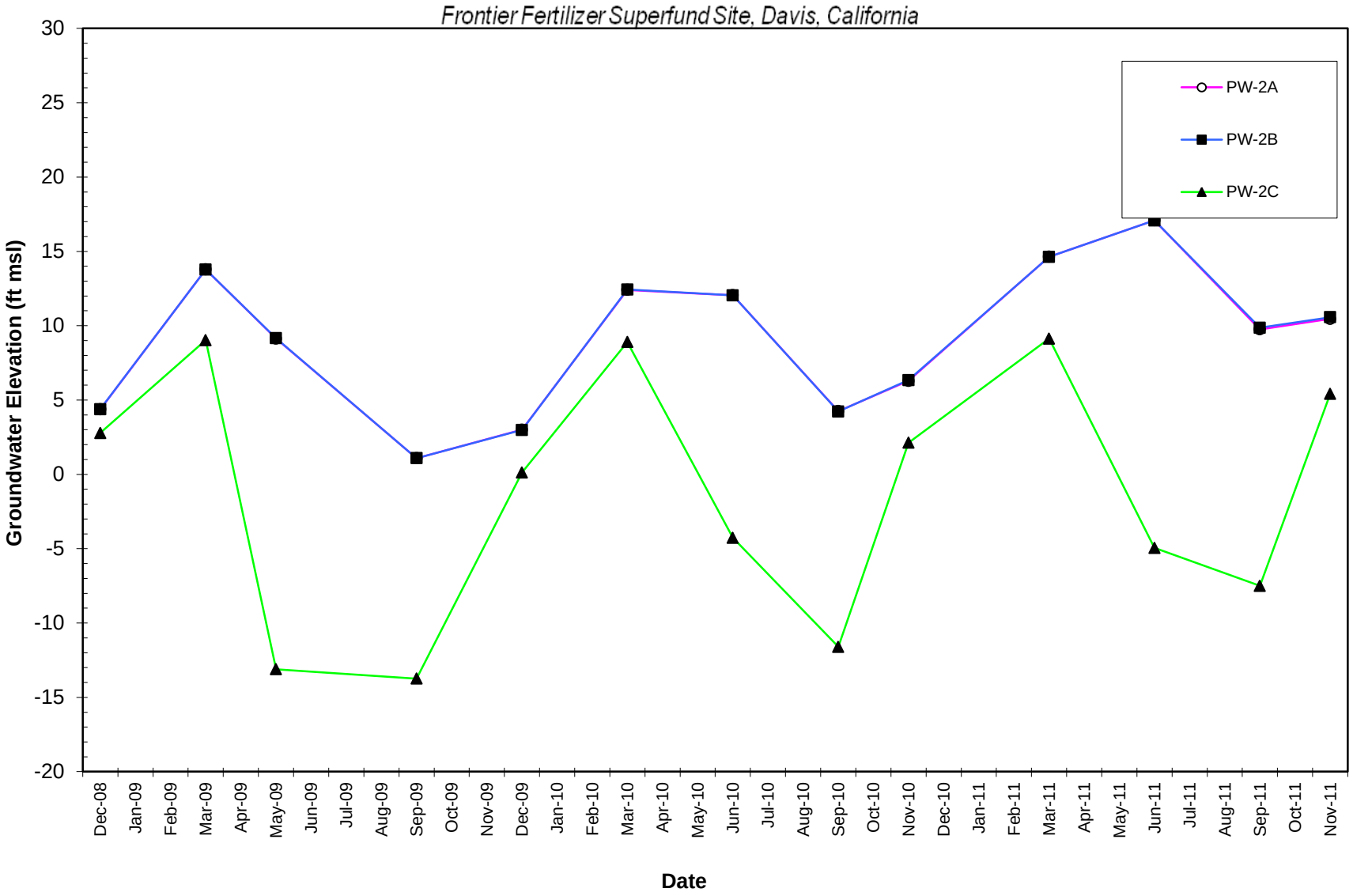


Figure A-53
Hydrograph for PW-3 Wells

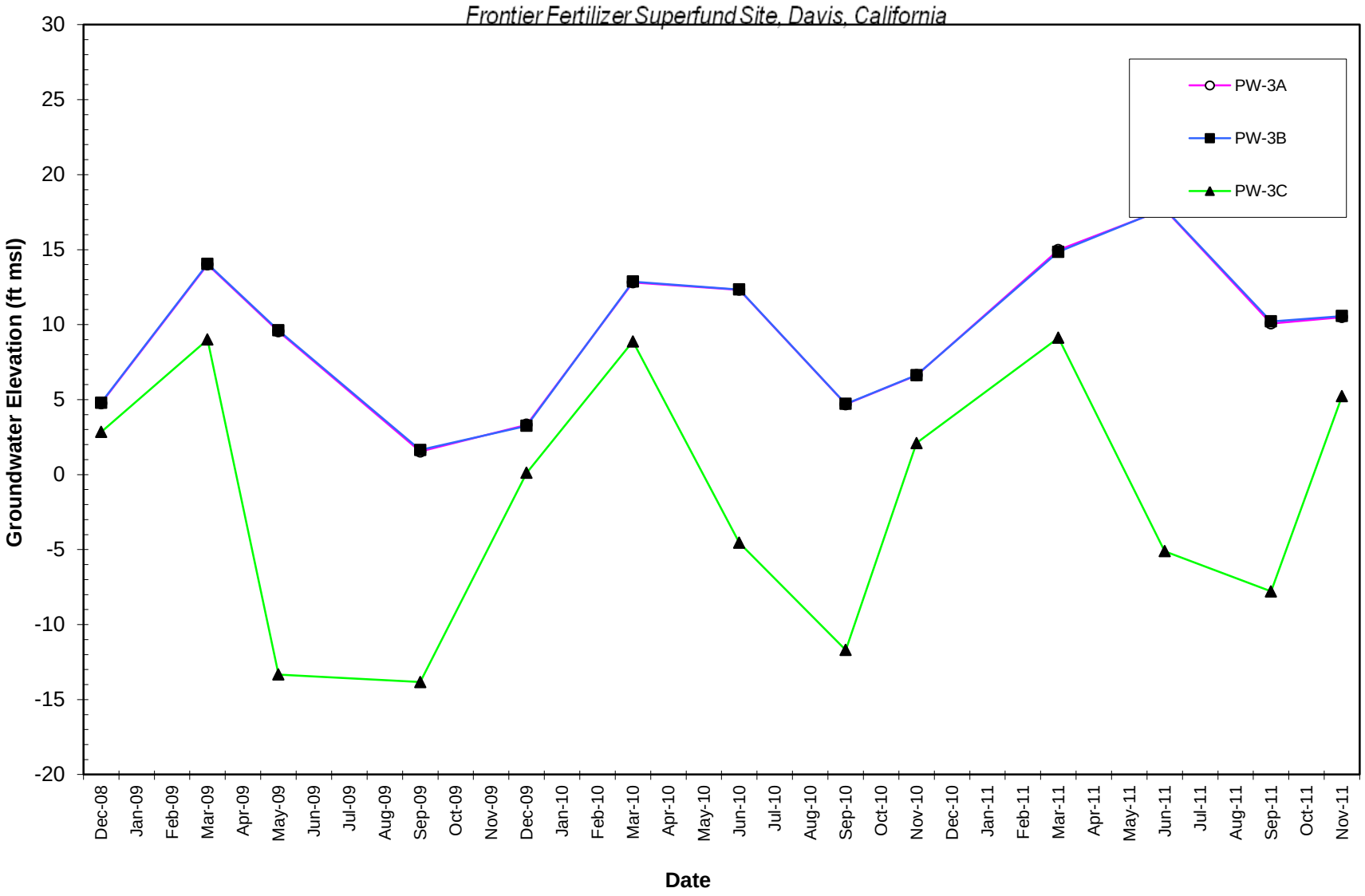


Figure A-54
Hydrograph for PW-4 Wells

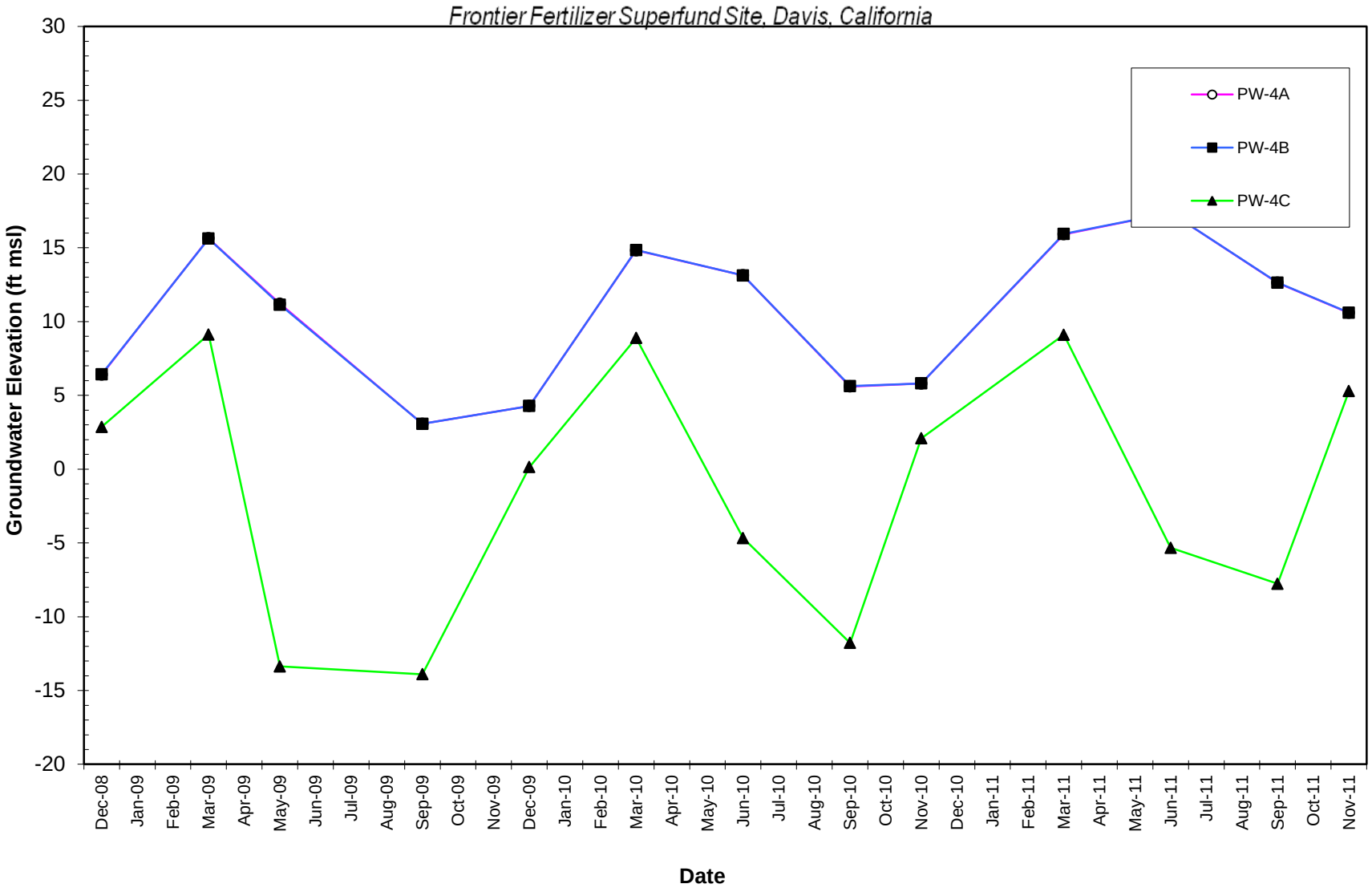
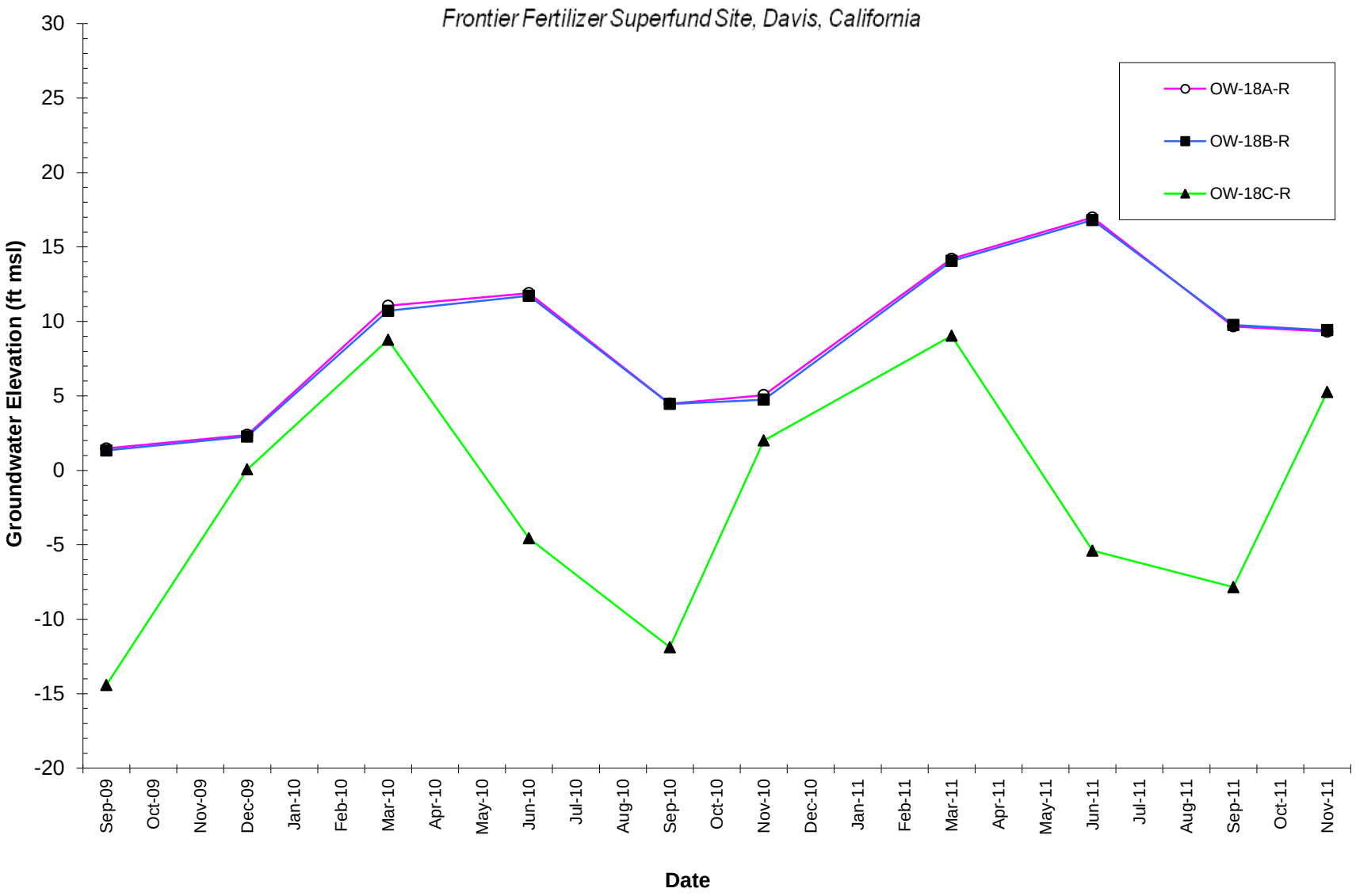


Figure A-55
Hydrograph for OW-18-R Wells



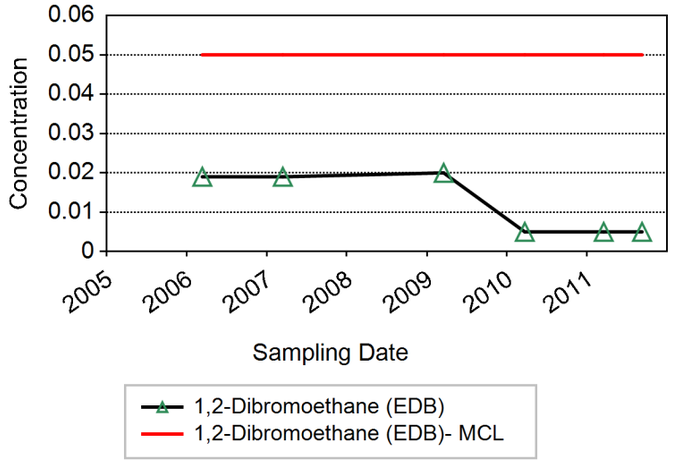
Appendix B
Chemical Time Series Plots

Innovative Technical Solutions, Inc.
A Gilbane Company

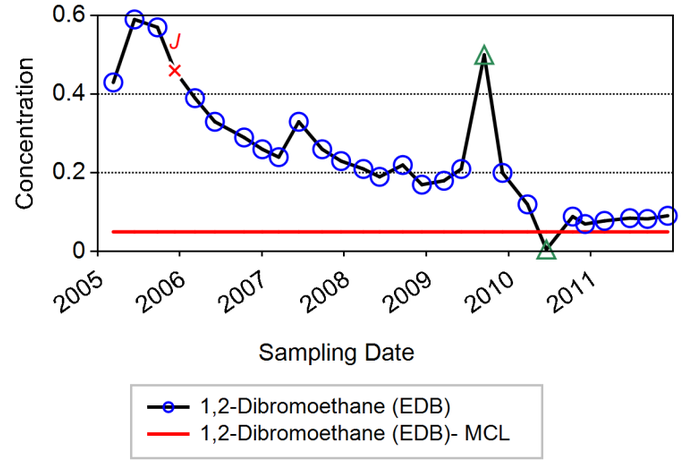
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

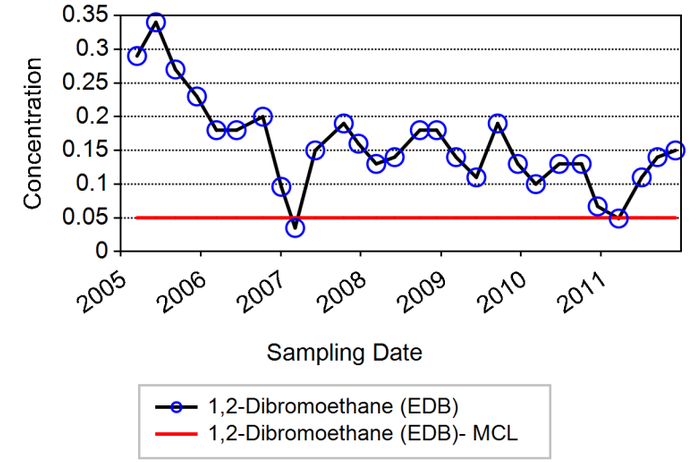
LOCATION = AW-1
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



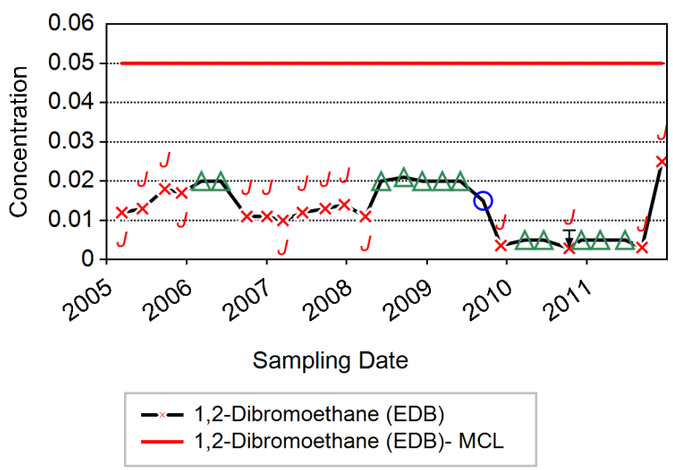
LOCATION = AW-2B
MAXIMUM = 0.59 (µg/L)
MCL = 0.050 (µg/L)



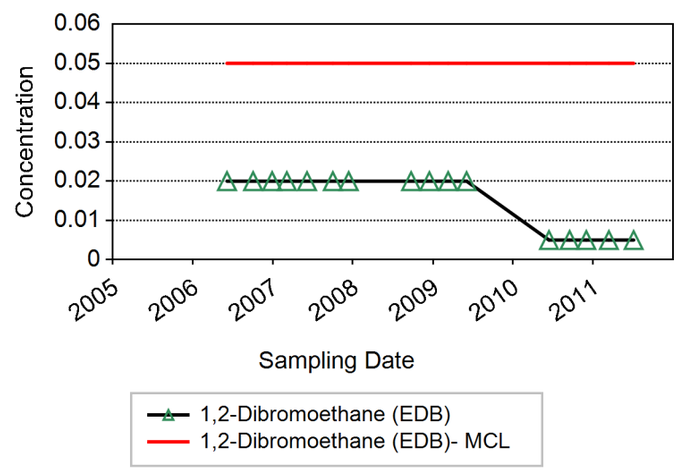
LOCATION = MW-11A
MAXIMUM = 0.34 (µg/L)
MCL = 0.050 (µg/L)



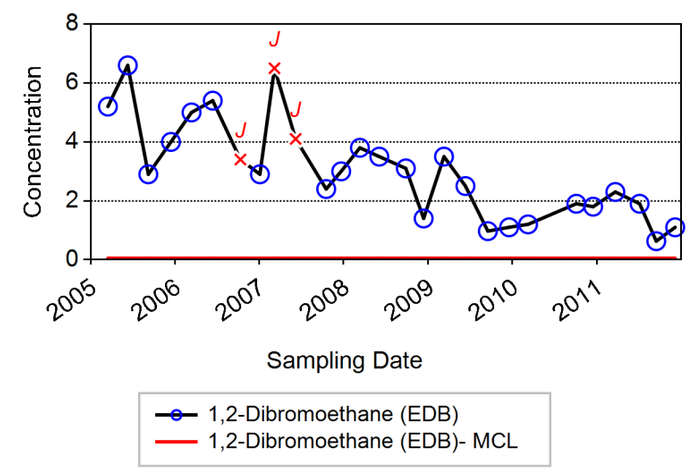
LOCATION = AW-2A
MAXIMUM = 0.025 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = CityWell29
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = MW-11B
MAXIMUM = 6.6 (µg/L)
MCL = 0.050 (µg/L)



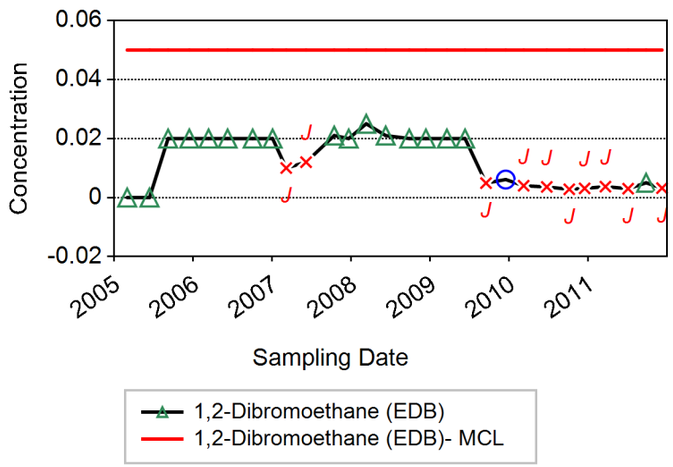
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

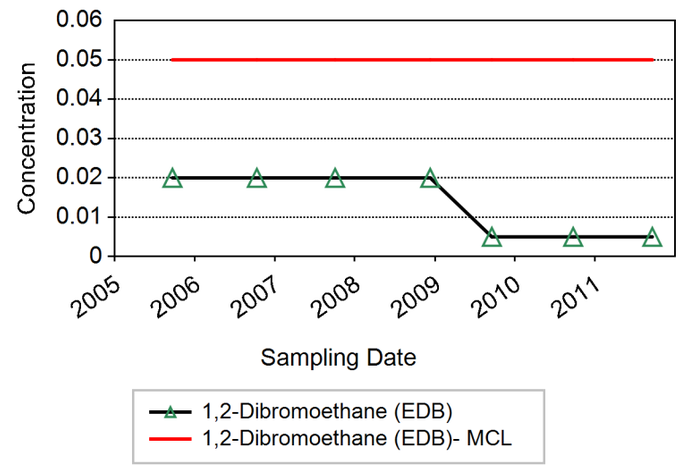
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

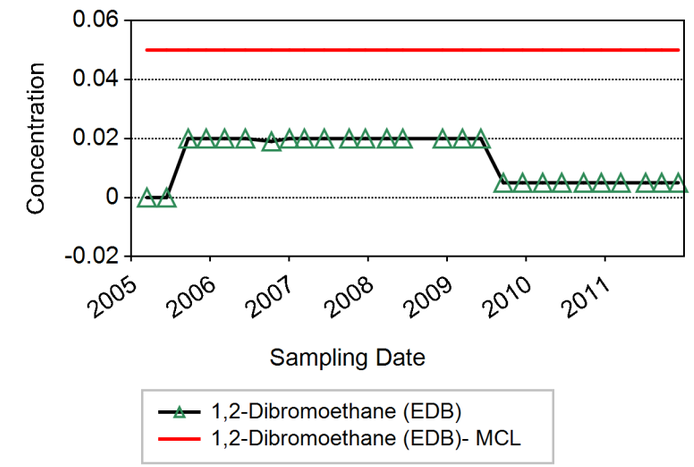
LOCATION = MW-12A
MAXIMUM = 0.025 (µg/L)
MCL = 0.050 (µg/L)



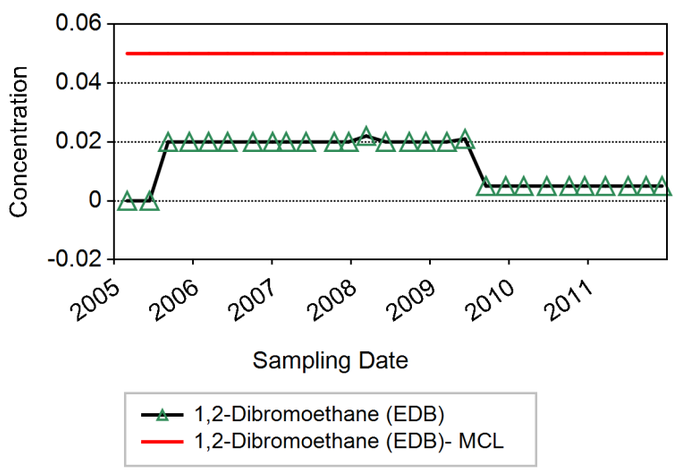
LOCATION = MW-13A
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



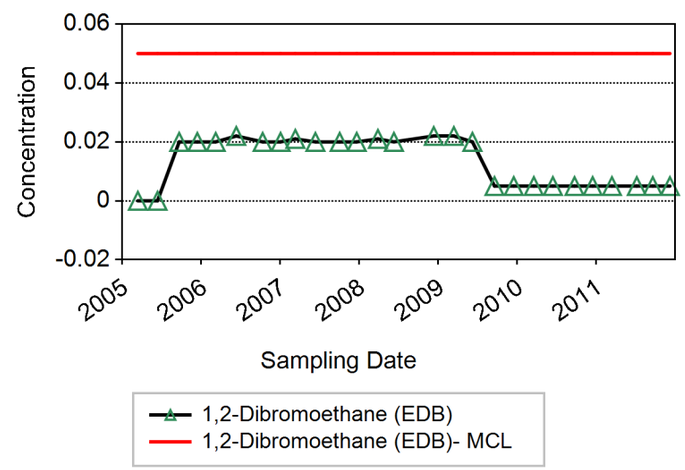
LOCATION = MW-13C
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



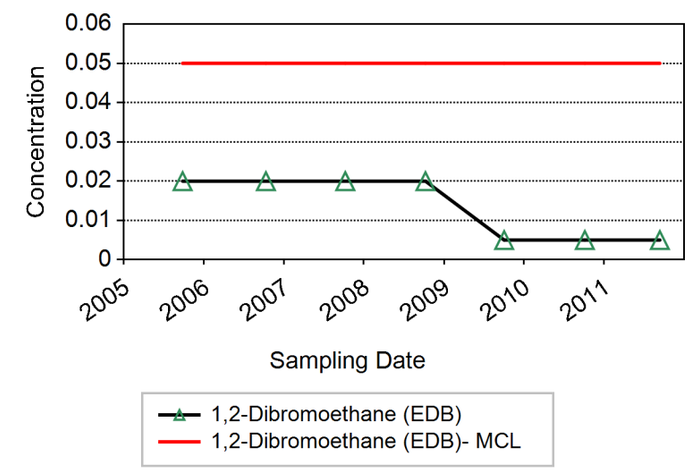
LOCATION = MW-12B
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = MW-13B
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = MW-3A
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



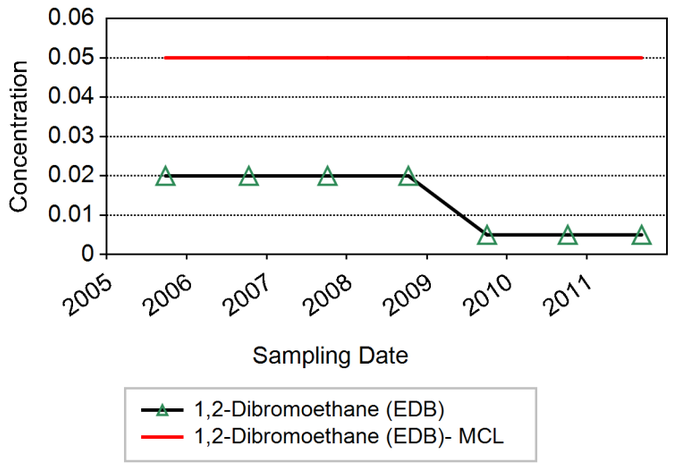
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

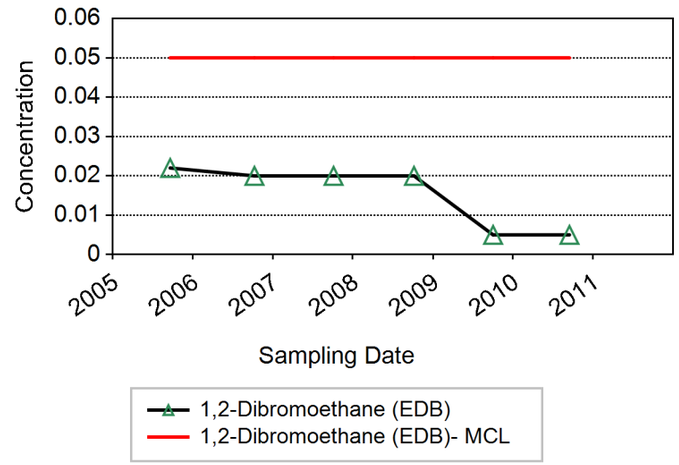
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

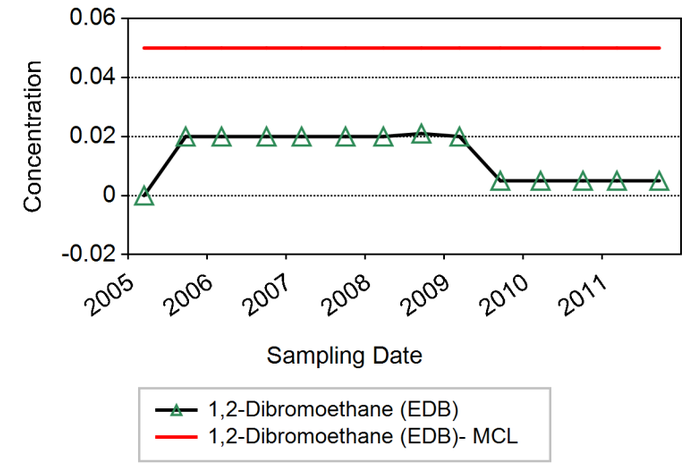
LOCATION = MW-3B
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



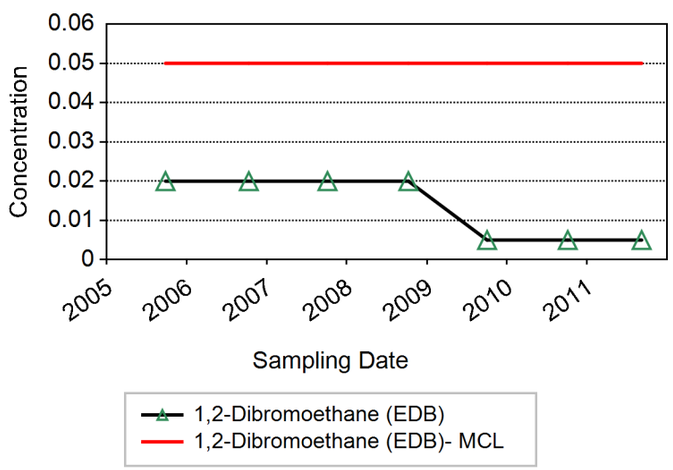
LOCATION = MW-4C
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



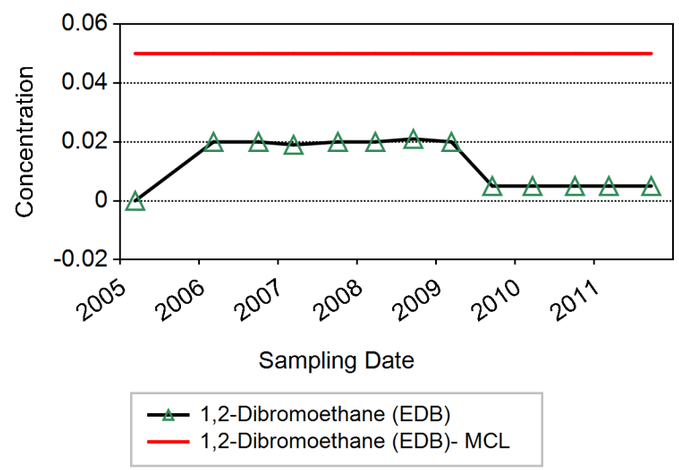
LOCATION = MW-5B
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



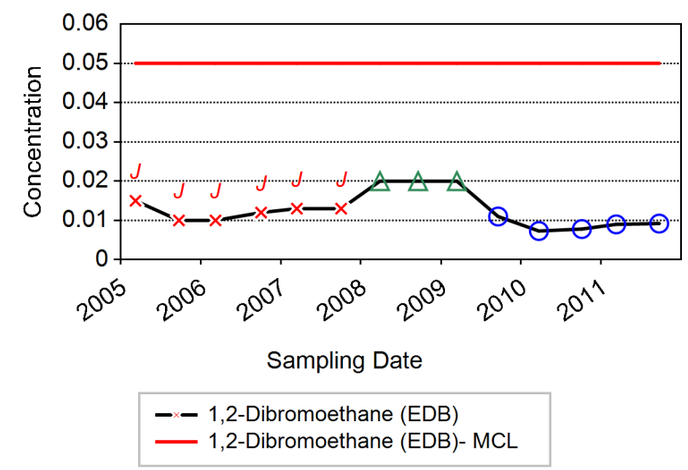
LOCATION = MW-3C
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = MW-5A
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = MW-5C
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



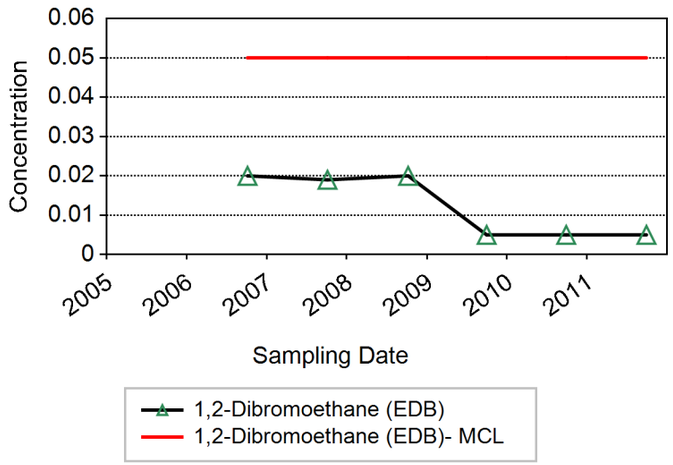
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

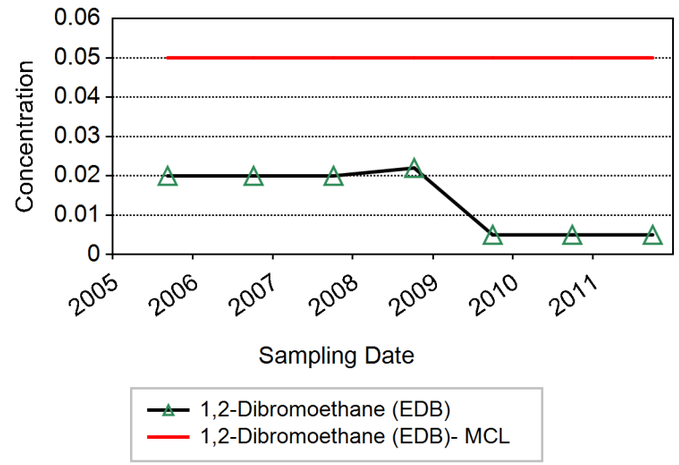
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
o = DETECTED
x = FLAGGED DATA

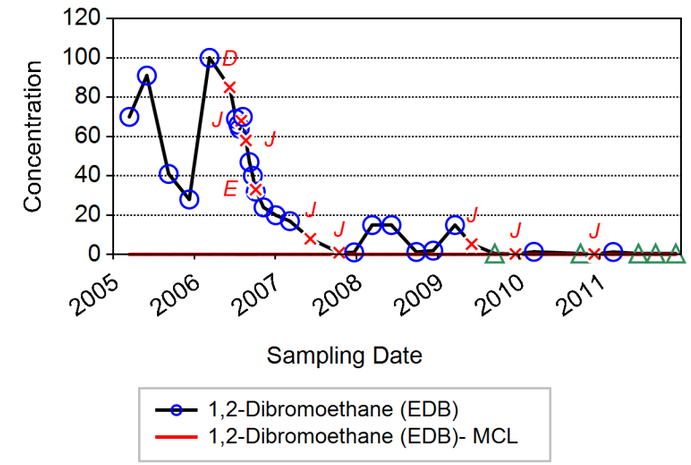
LOCATION = MW-6A
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



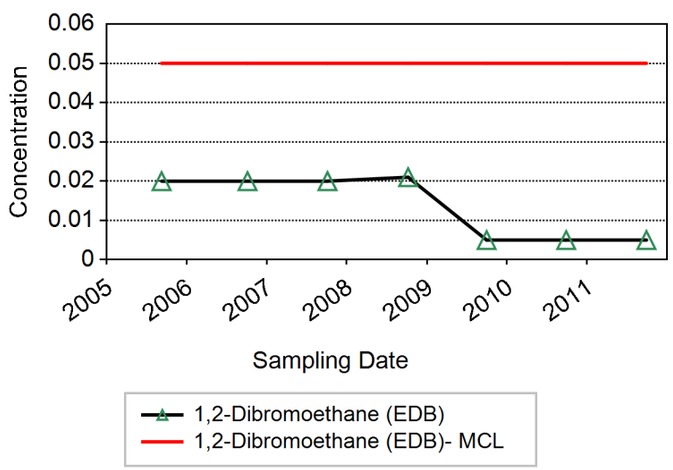
LOCATION = MW-6C
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



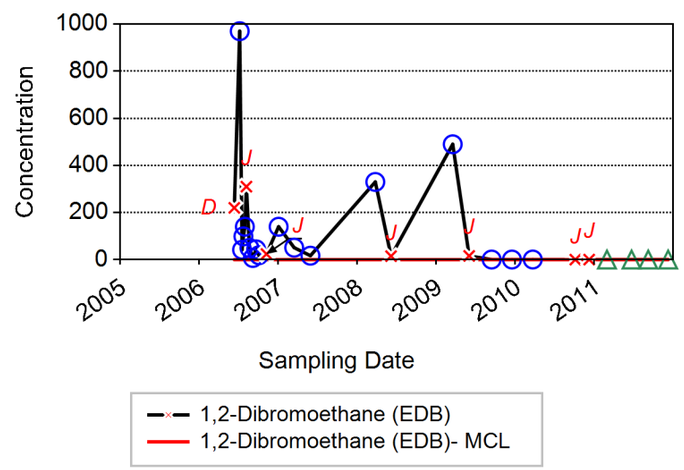
LOCATION = MW-7B
MAXIMUM = 91.0 (µg/L)
MCL = 0.050 (µg/L)



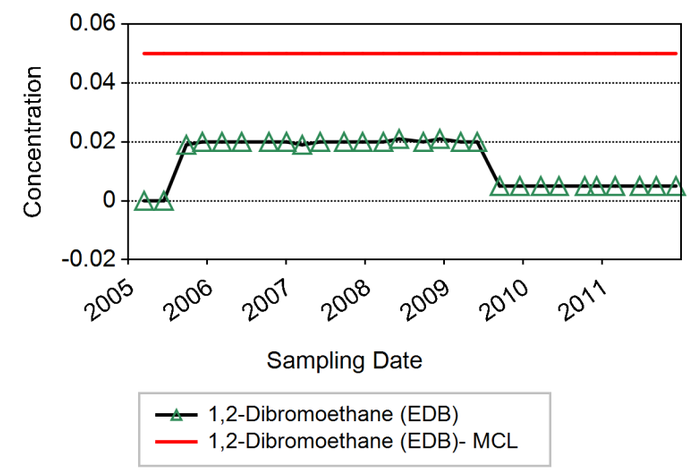
LOCATION = MW-6B
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = MW-7A
MAXIMUM = 99.0 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = MW-7D
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



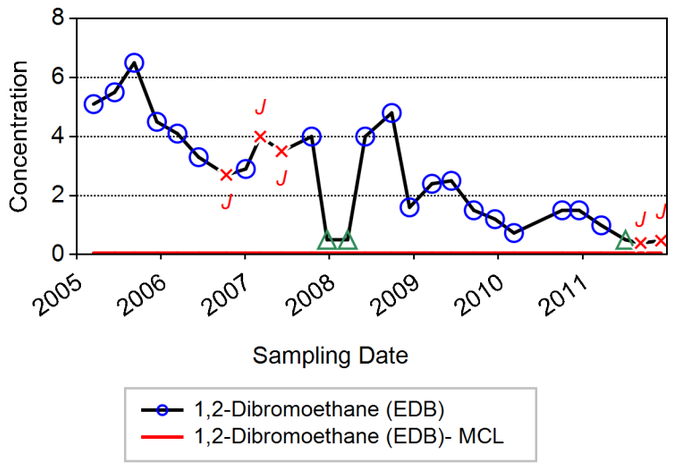
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

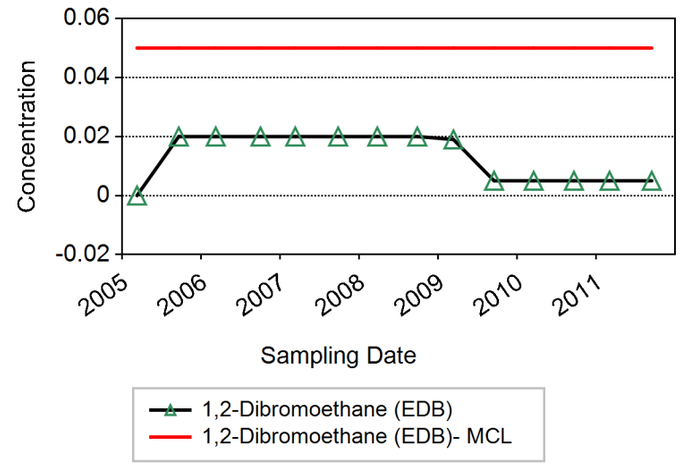
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

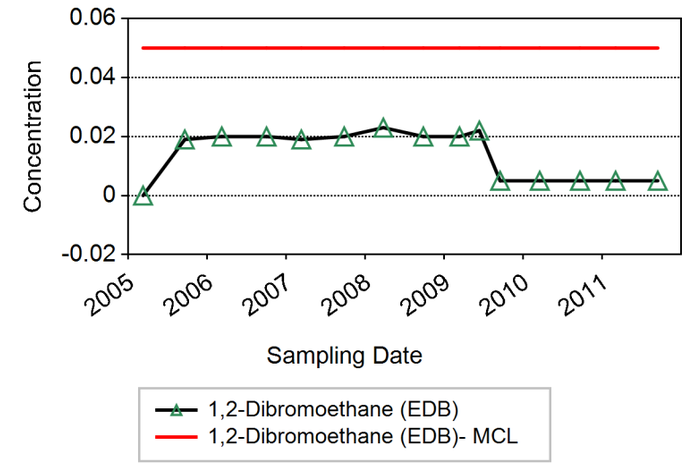
LOCATION = MW-8A
MAXIMUM = 6.5 (µg/L)
MCL = 0.050 (µg/L)



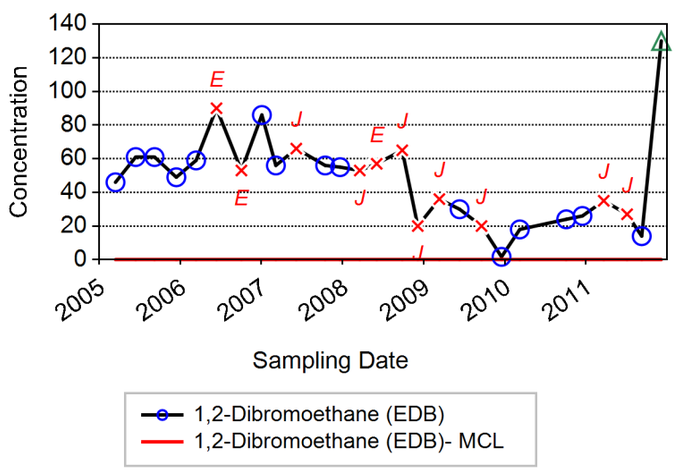
LOCATION = MW-9A
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



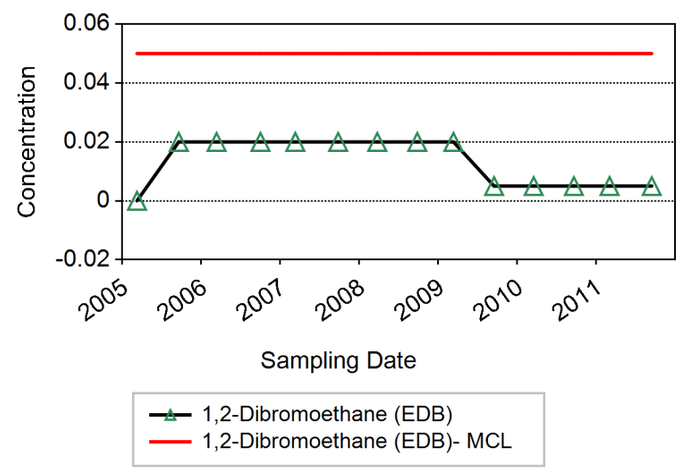
LOCATION = MW-9C
MAXIMUM = 0.023 (µg/L)
MCL = 0.050 (µg/L)



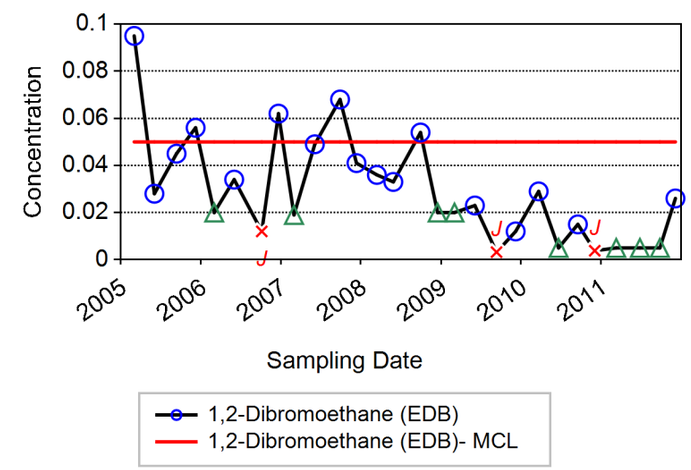
LOCATION = MW-8B
MAXIMUM = 90.0 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = MW-9B
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = OW-11A
MAXIMUM = 0.095 (µg/L)
MCL = 0.050 (µg/L)



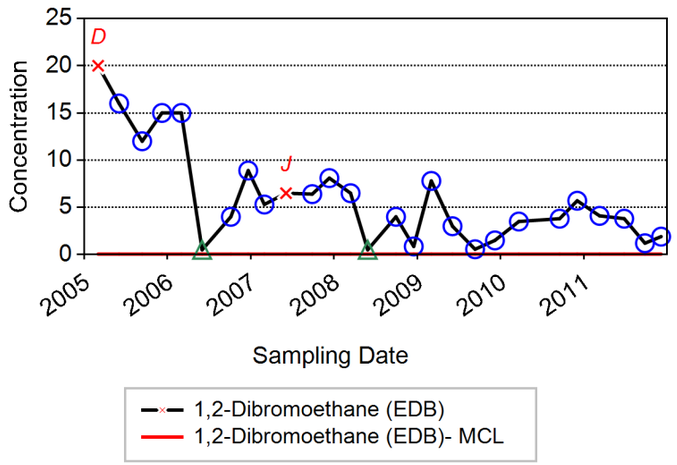
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

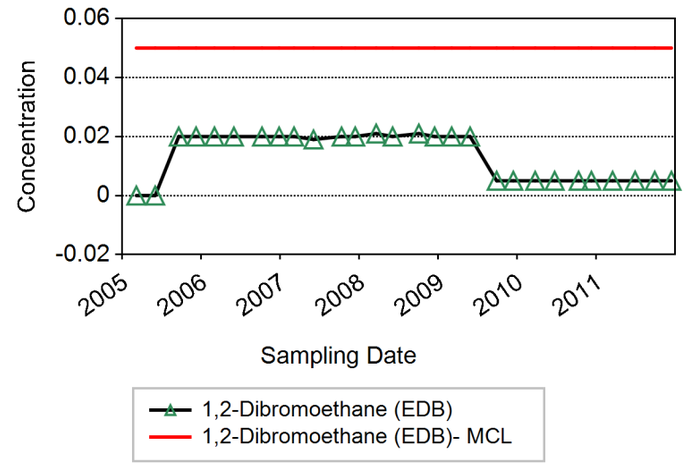
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

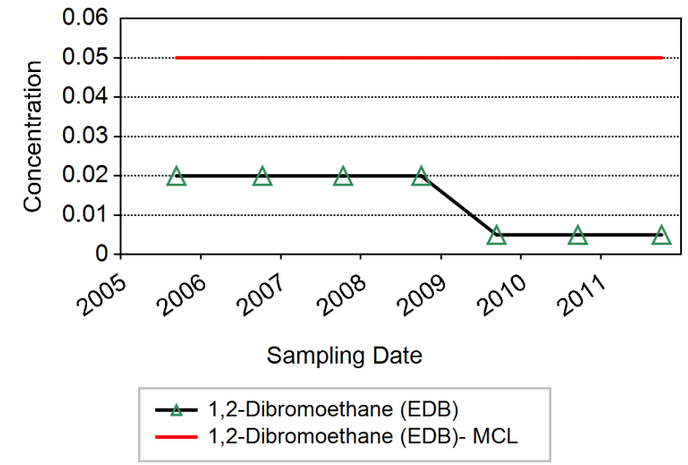
LOCATION = OW-11B
MAXIMUM = 8.9 (µg/L)
MCL = 0.050 (µg/L)



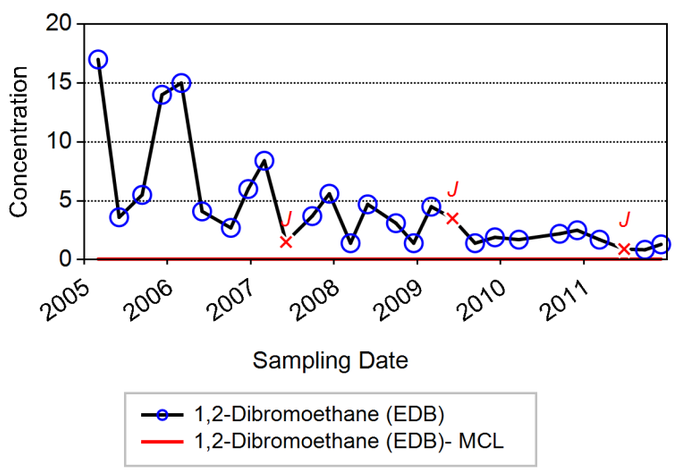
LOCATION = OW-12A
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



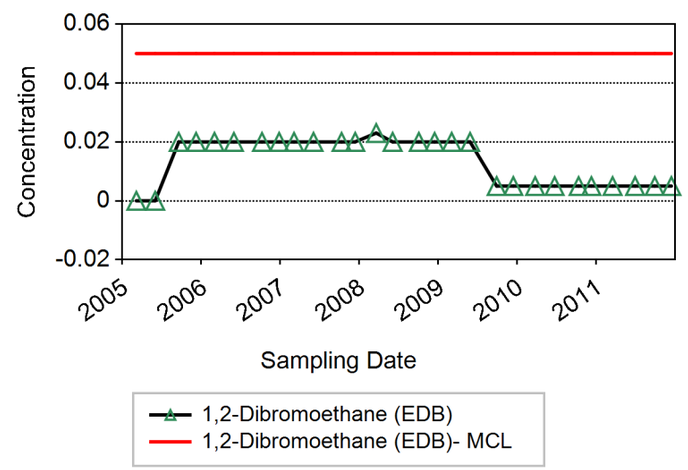
LOCATION = OW-13B
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



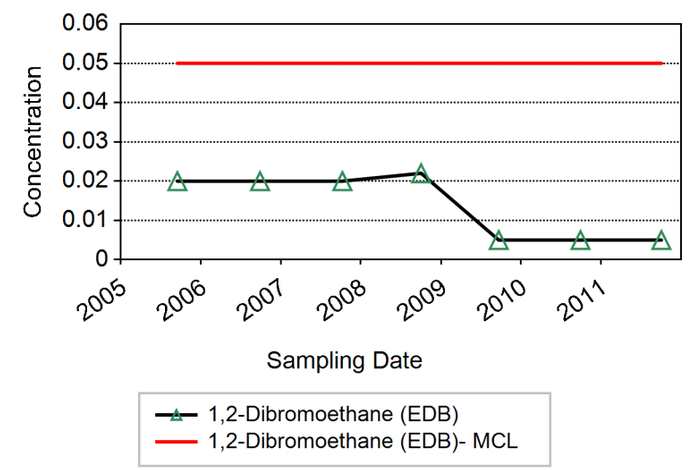
LOCATION = OW-11C
MAXIMUM = 8.4 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = OW-12B
MAXIMUM = 0.023 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = OW-14A
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



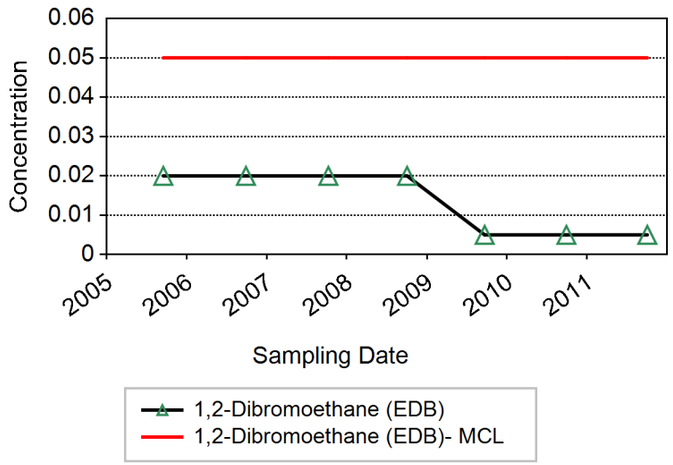
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

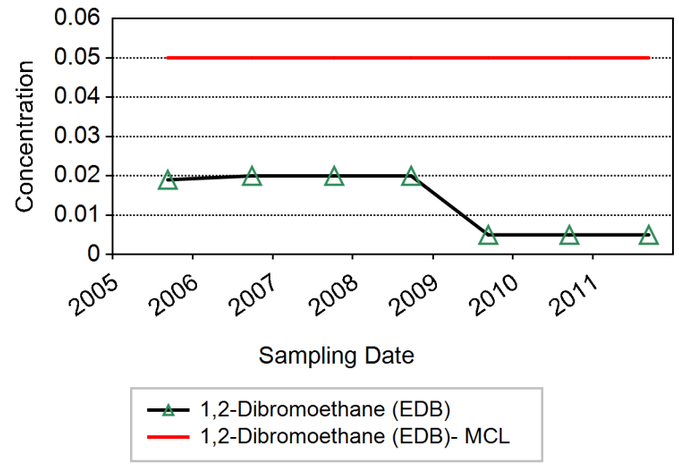
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

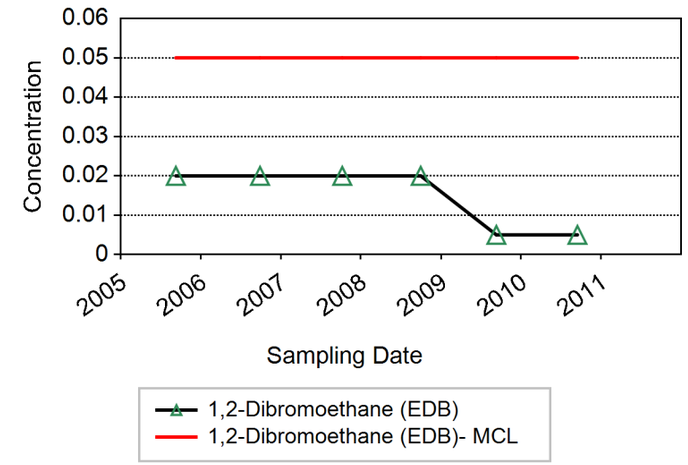
LOCATION = OW-14B
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



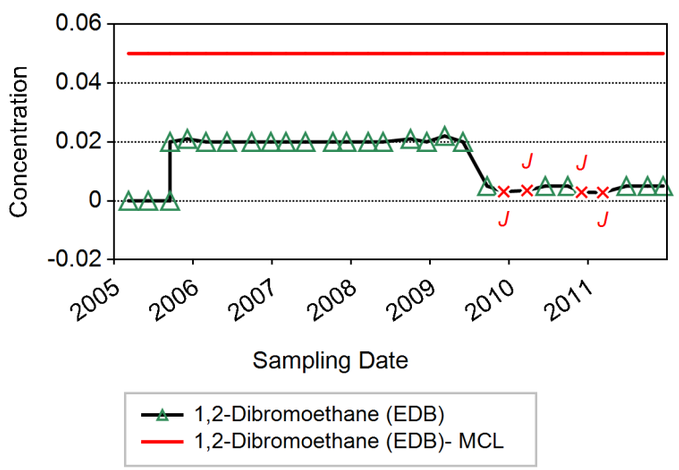
LOCATION = OW-15A
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



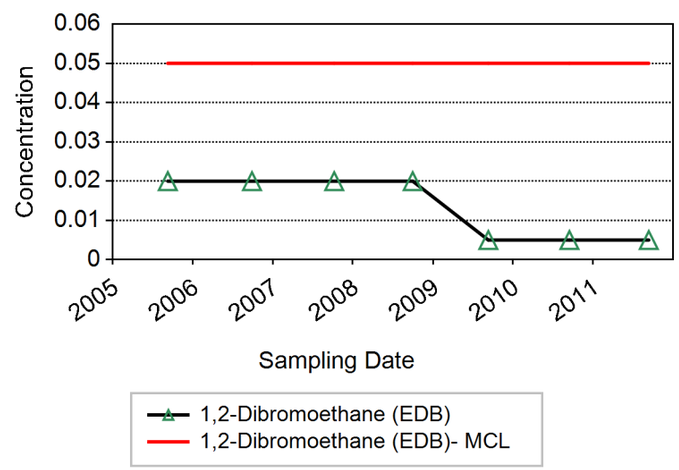
LOCATION = Ow-15C
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



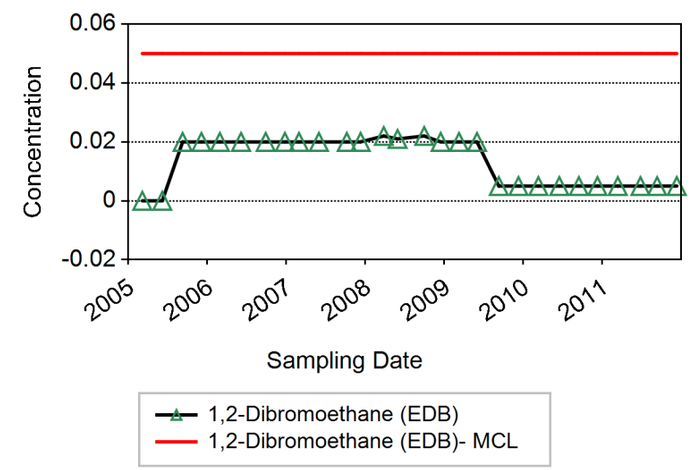
LOCATION = OW-14C
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = OW-15B
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = OW-15D
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



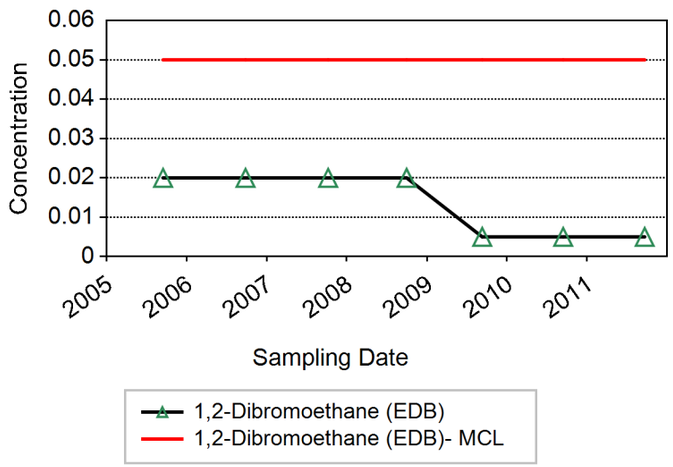
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

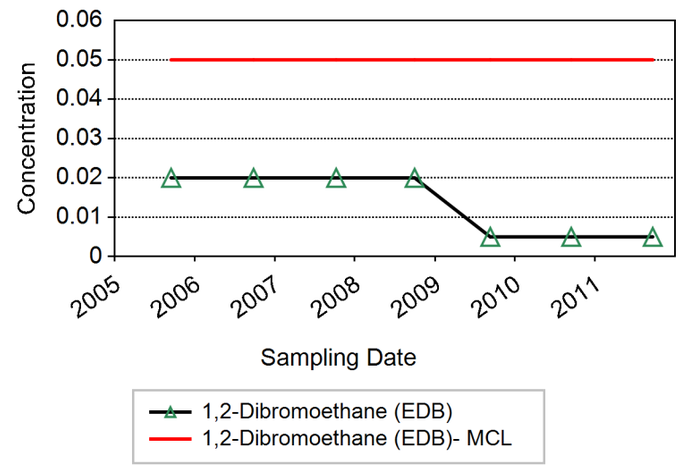
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

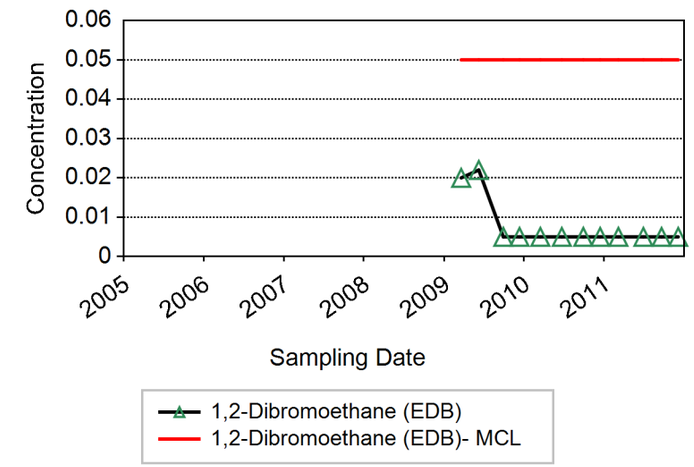
LOCATION = OW-16A
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



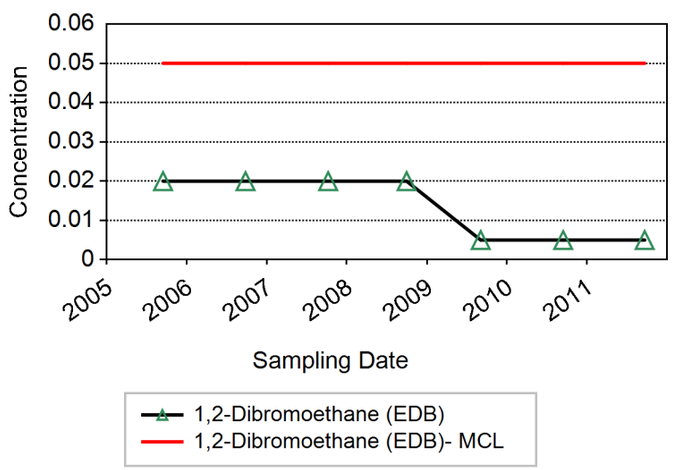
LOCATION = OW-16C
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



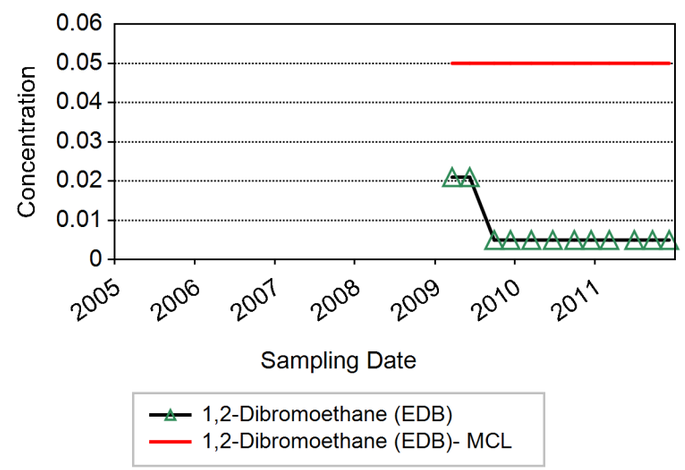
LOCATION = OW-18BR
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



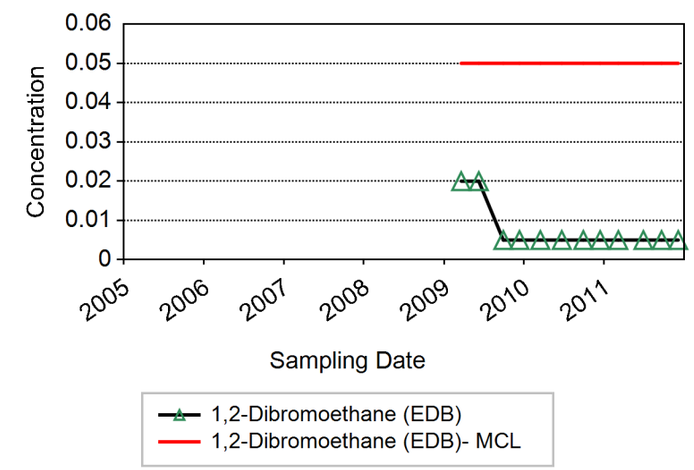
LOCATION = OW-16B
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = OW-18AR
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = OW-18CR
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



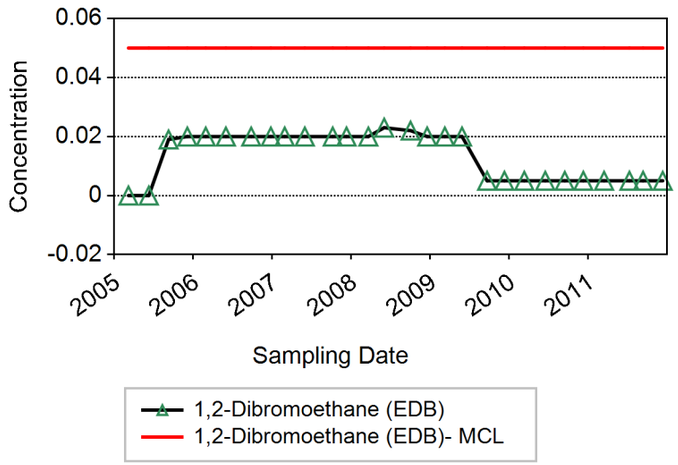
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

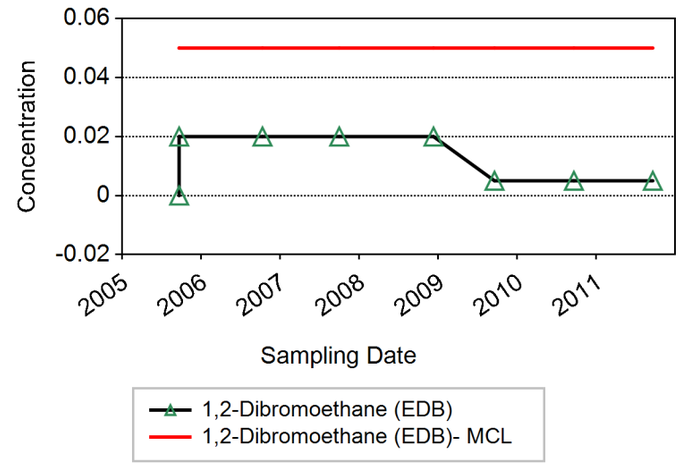
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

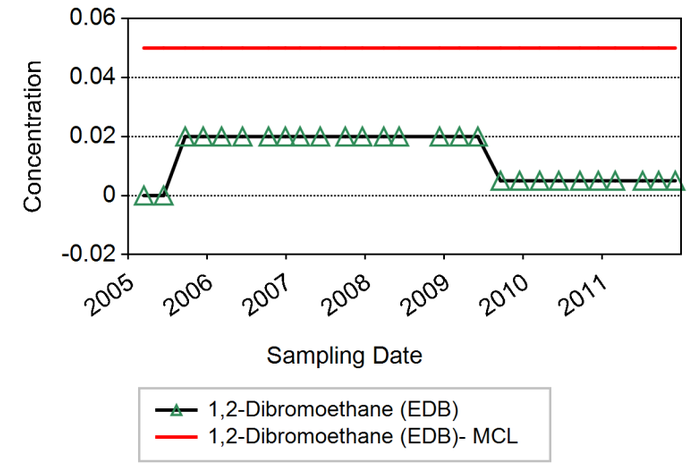
LOCATION = OW-19C
MAXIMUM = 0.023 (µg/L)
MCL = 0.050 (µg/L)



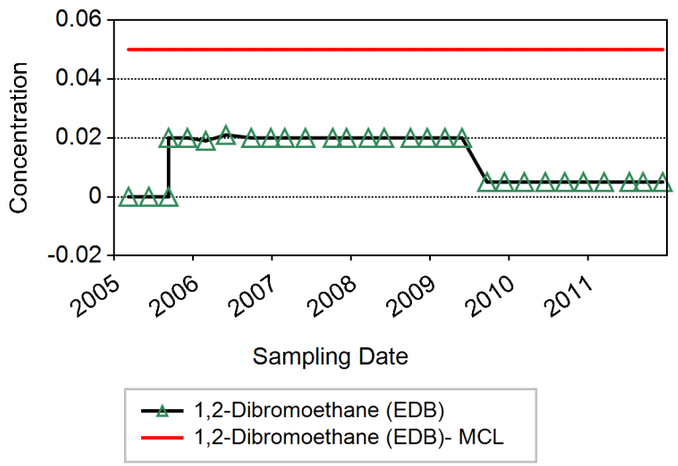
LOCATION = OW-1A
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



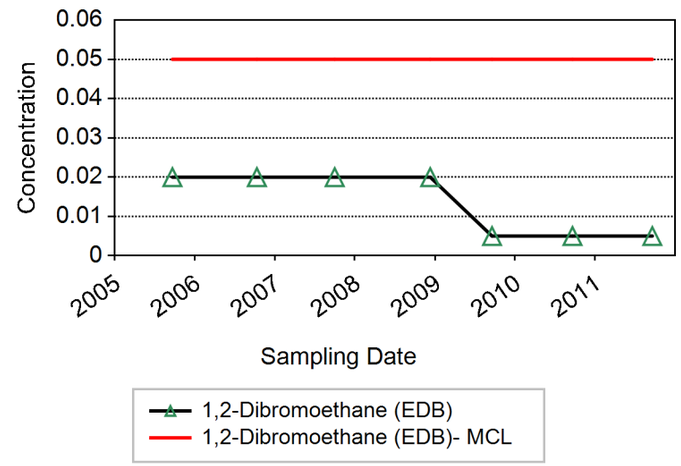
LOCATION = OW-1C
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



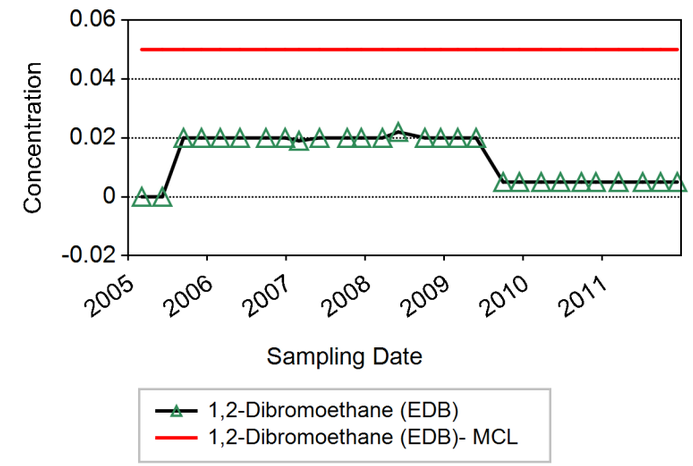
LOCATION = OW-19D
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = OW-1B
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = OW-20B
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



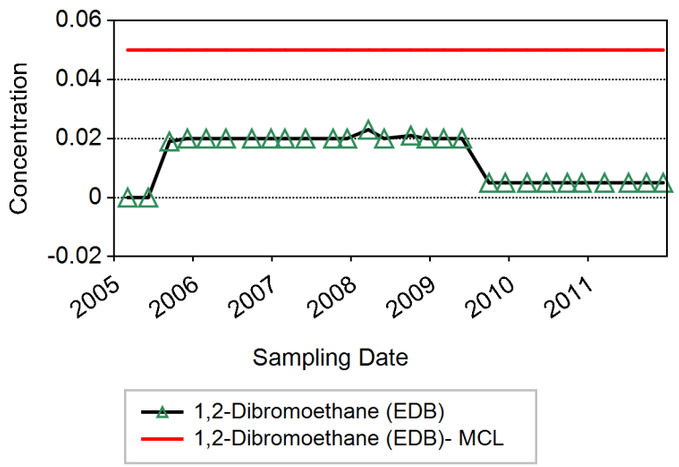
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

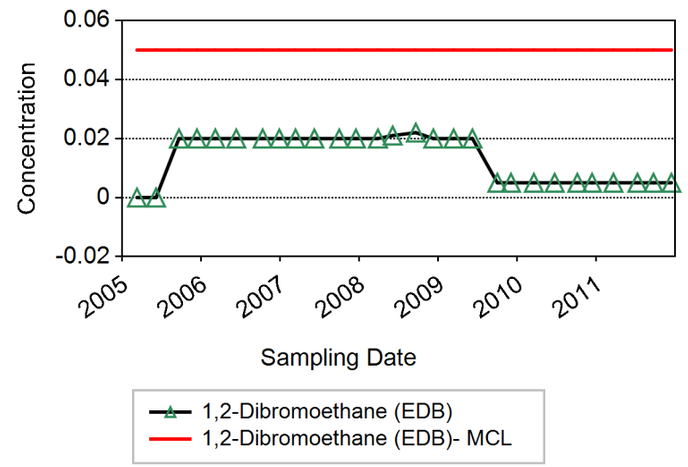
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

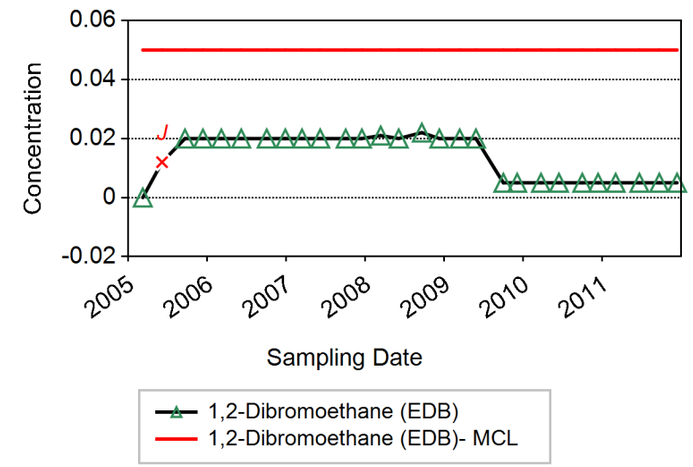
LOCATION = OW-20C
MAXIMUM = 0.023 (µg/L)
MCL = 0.050 (µg/L)



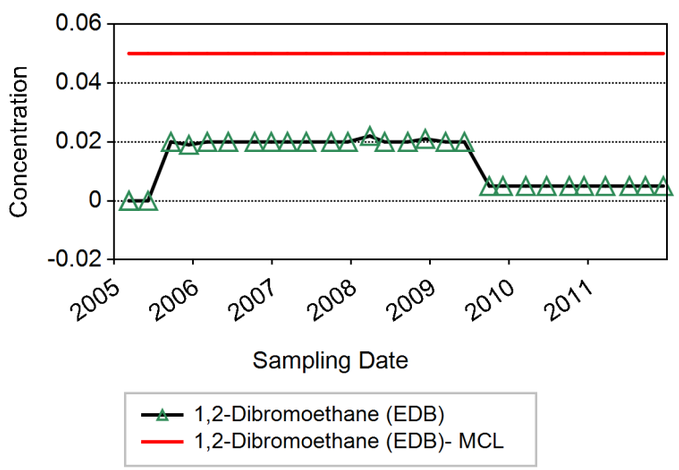
LOCATION = OW-3B
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



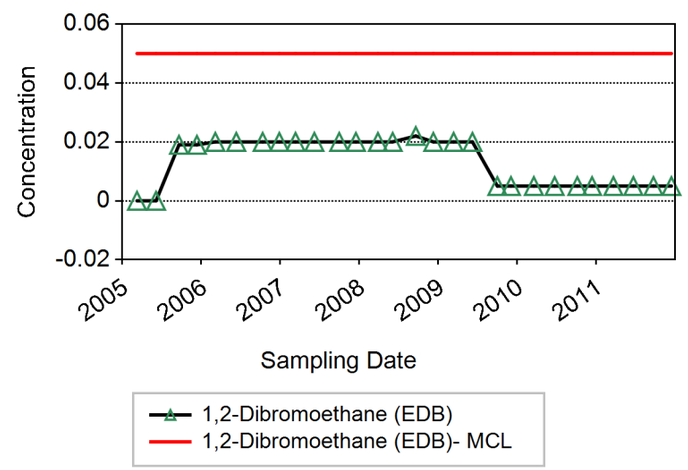
LOCATION = OW-4A
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



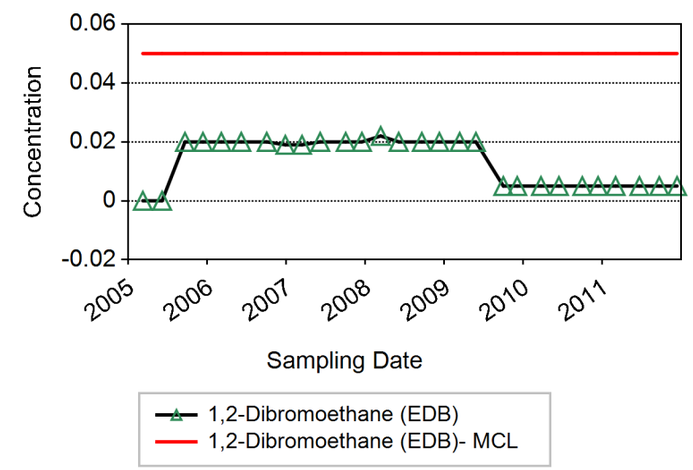
LOCATION = OW-3A
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = OW-3C
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = OW-4B
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



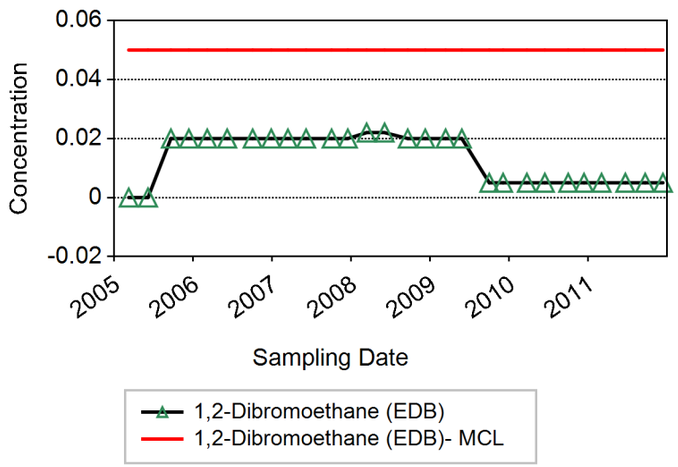
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

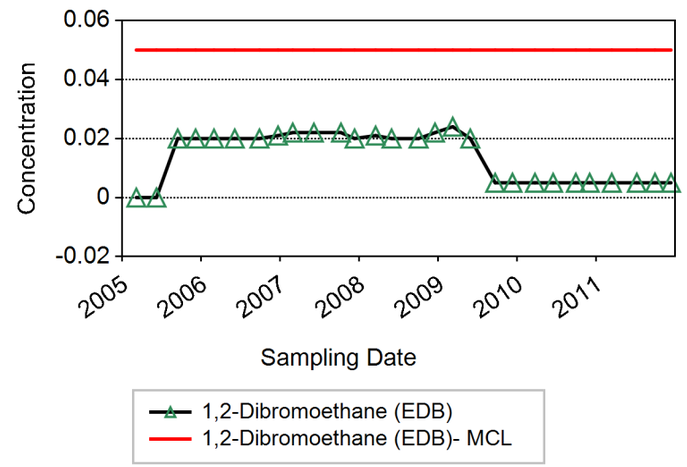
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

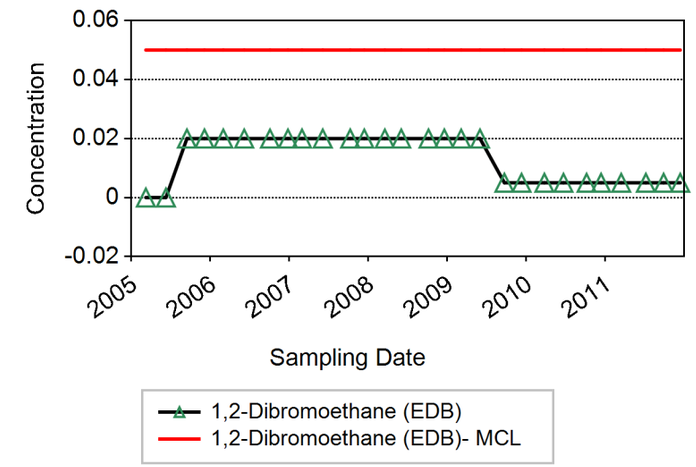
LOCATION = OW-4C
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



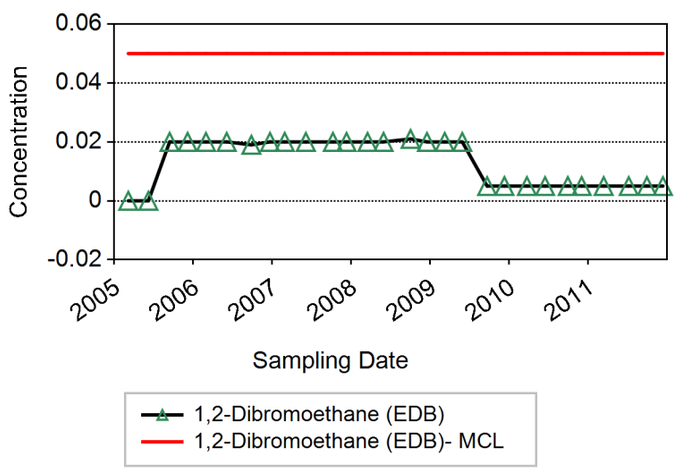
LOCATION = OW-5B
MAXIMUM = 0.024 (µg/L)
MCL = 0.050 (µg/L)



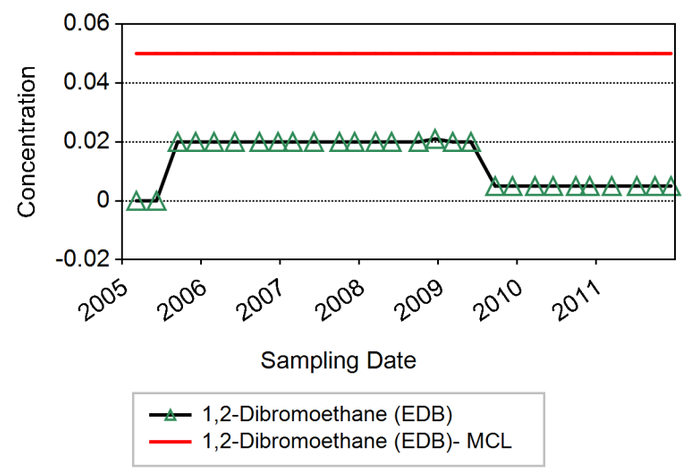
LOCATION = OW-6A
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



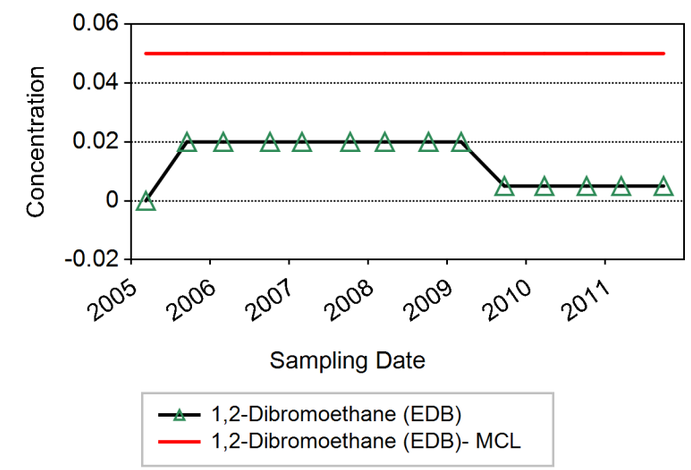
LOCATION = OW-5A
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = OW-5C
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = OW-6B
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



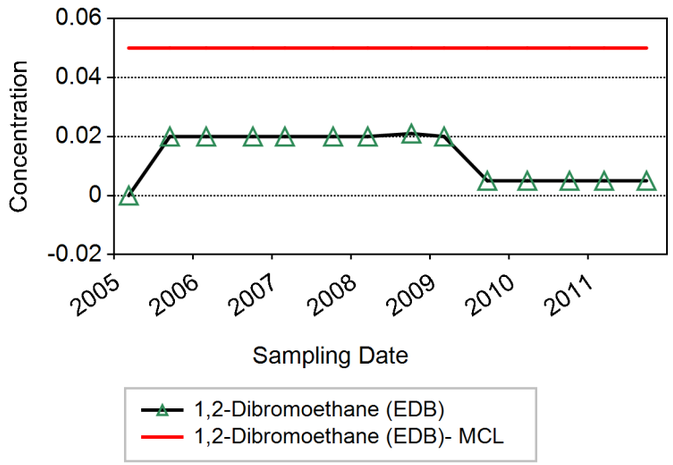
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

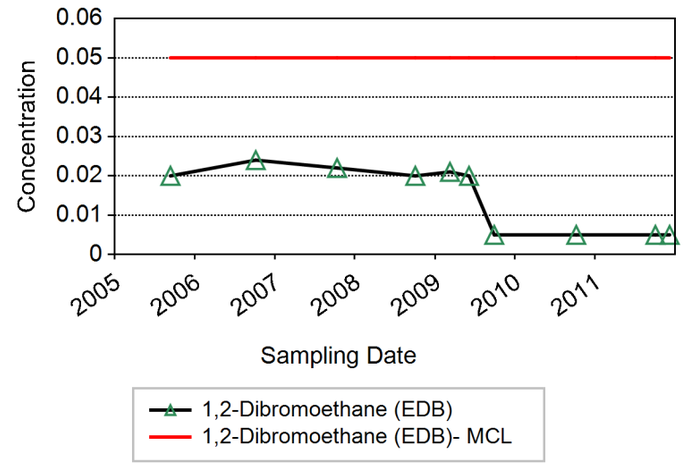
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

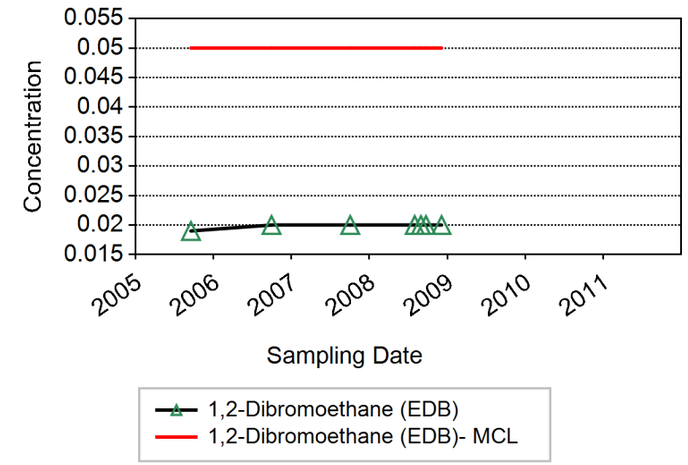
LOCATION = OW-6C
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



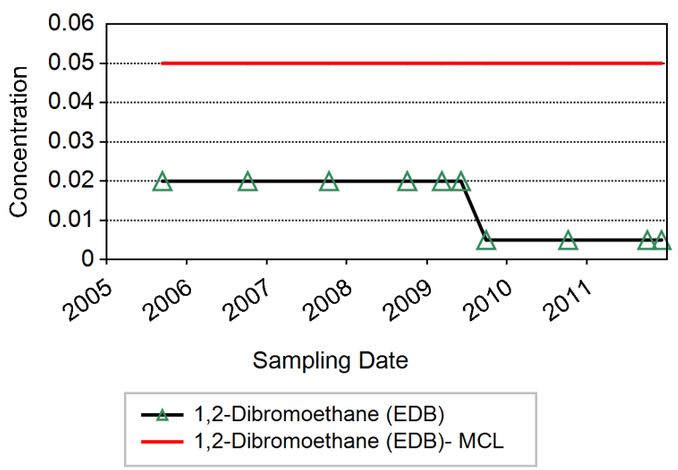
LOCATION = OW-7B
MAXIMUM = 0.024 (µg/L)
MCL = 0.050 (µg/L)



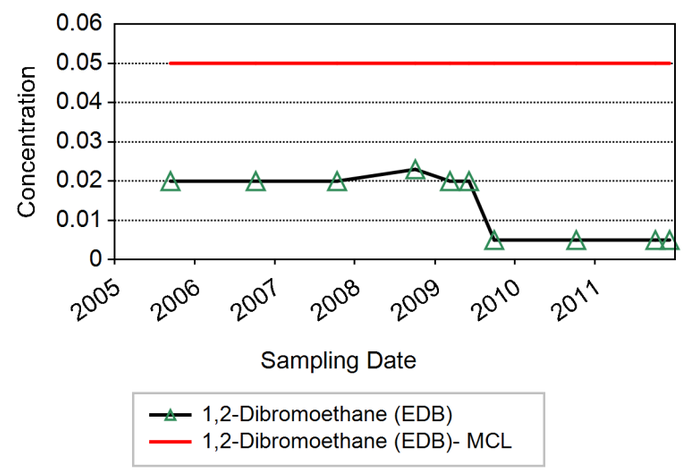
LOCATION = OW-8A
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



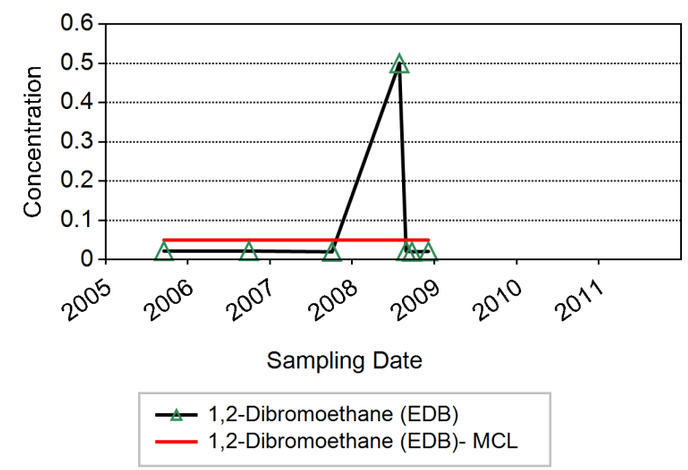
LOCATION = OW-7A
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = OW-7C
MAXIMUM = 0.023 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = OW-8B
MAXIMUM = 0.50 (µg/L)
MCL = 0.050 (µg/L)



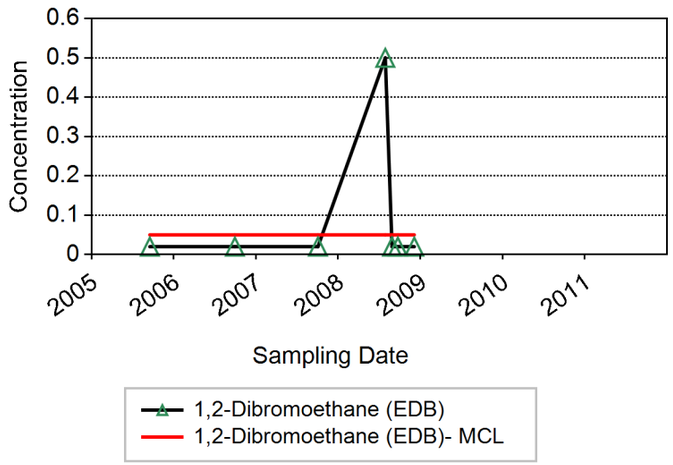
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

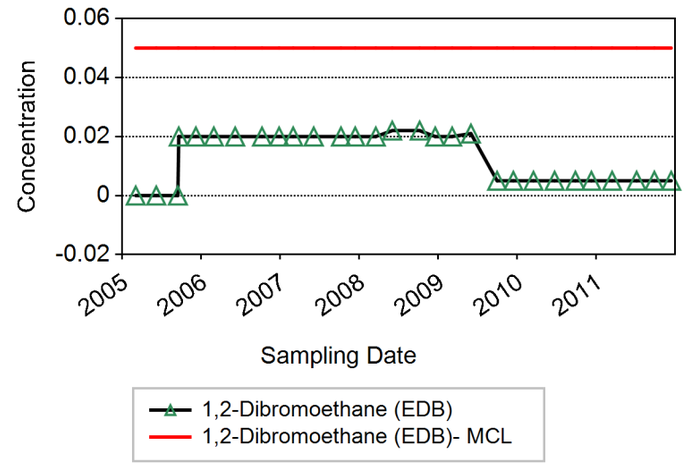
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

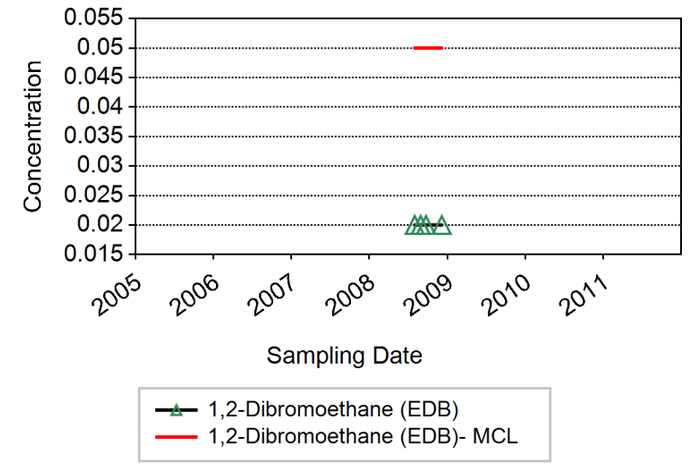
LOCATION = OW-8C
MAXIMUM = 0.50 (µg/L)
MCL = 0.050 (µg/L)



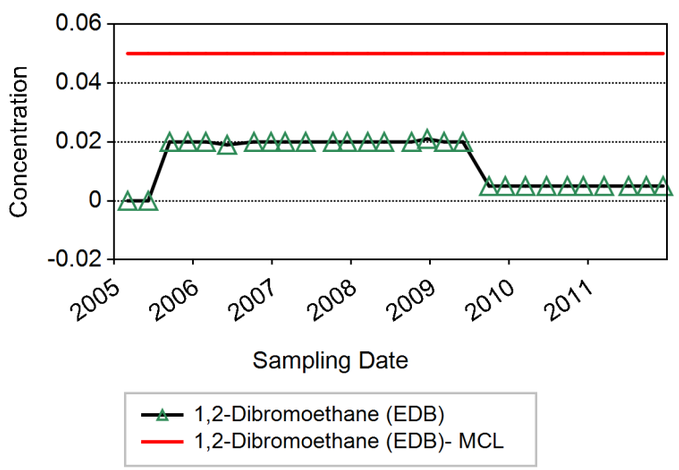
LOCATION = OW-9B
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



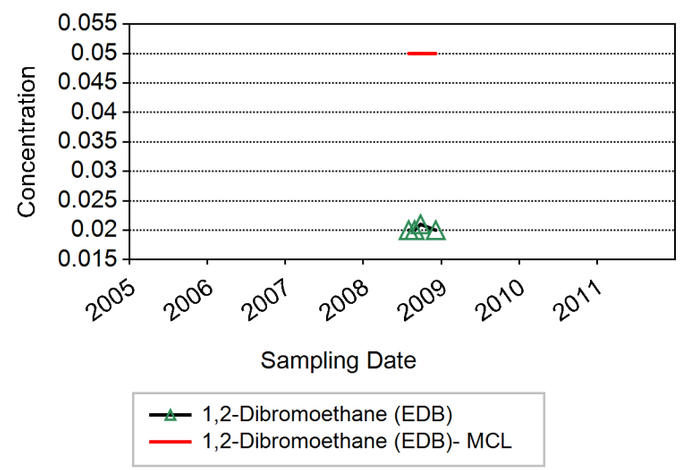
LOCATION = PC-1C
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



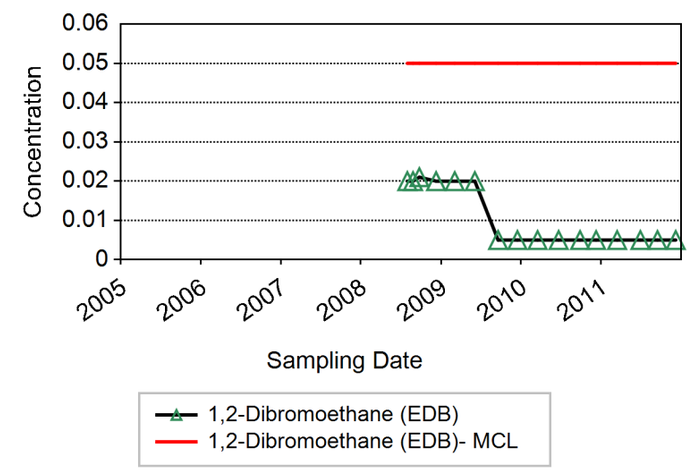
LOCATION = OW-9A
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = PC-1B
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = PC-2B
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



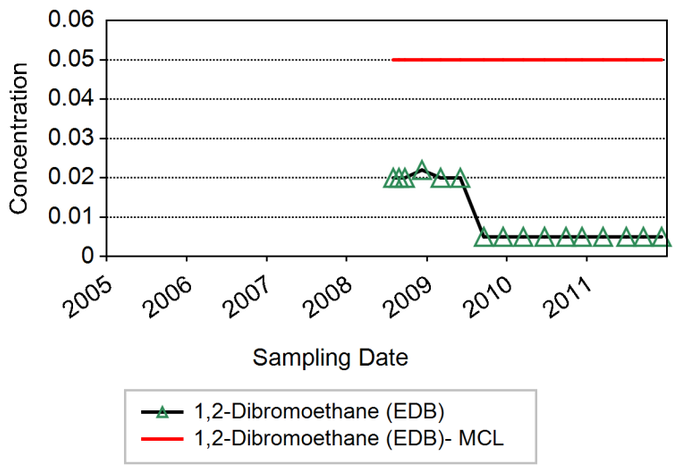
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

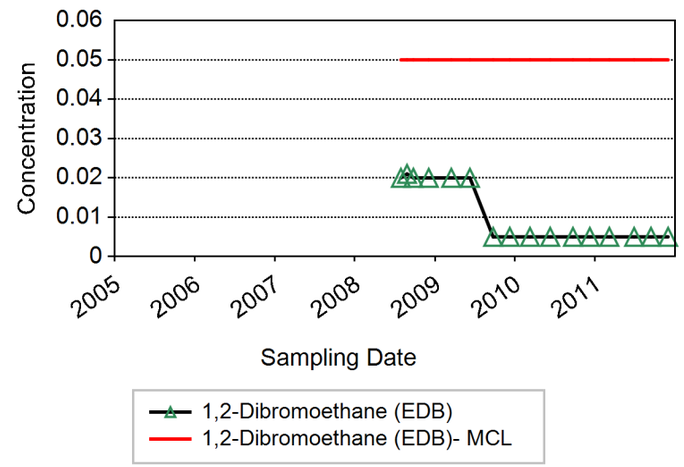
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

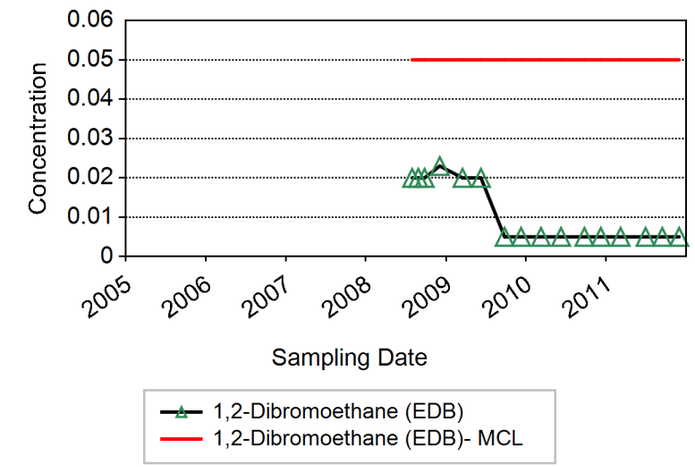
LOCATION = PC-2C
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



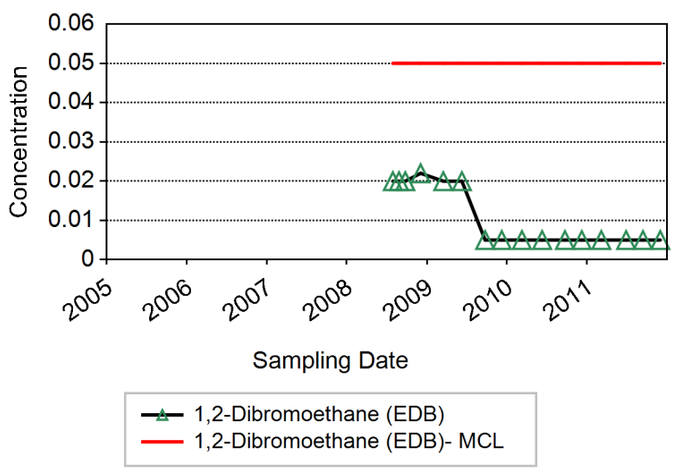
LOCATION = PW-1B
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



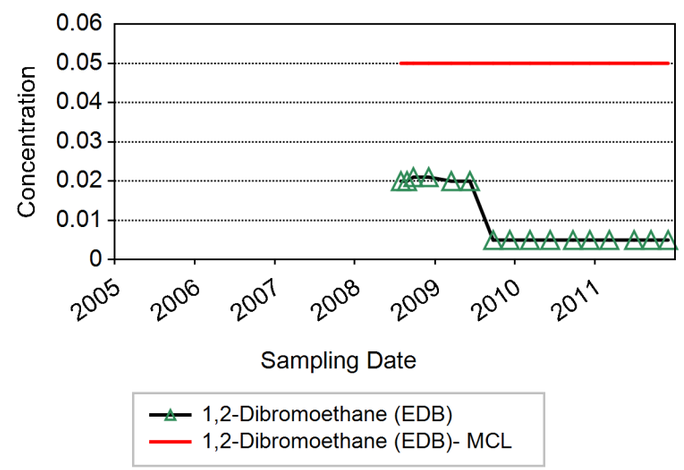
LOCATION = PW-2A
MAXIMUM = 0.023 (µg/L)
MCL = 0.050 (µg/L)



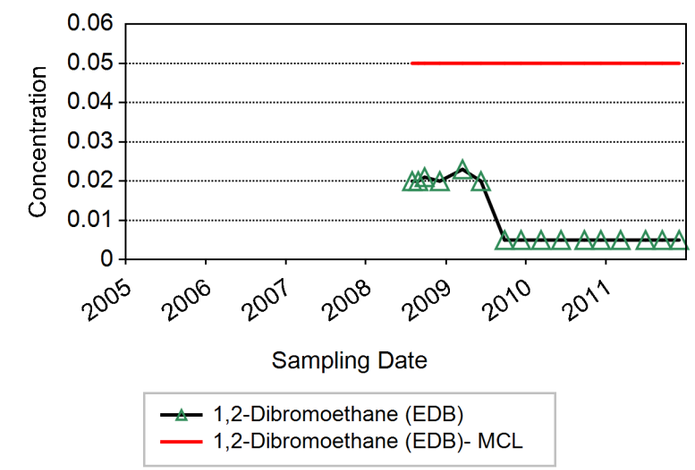
LOCATION = PW-1A
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = PW-1C
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = PW-2B
MAXIMUM = 0.023 (µg/L)
MCL = 0.050 (µg/L)



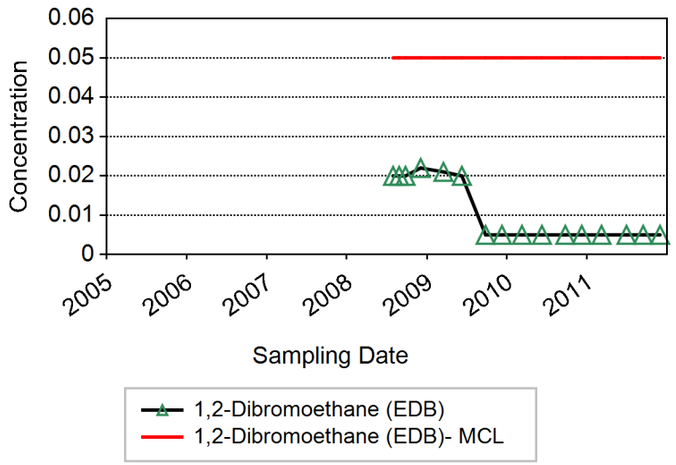
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

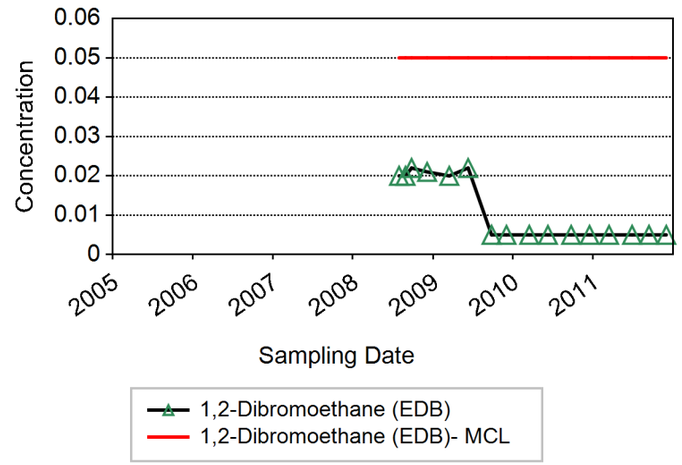
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

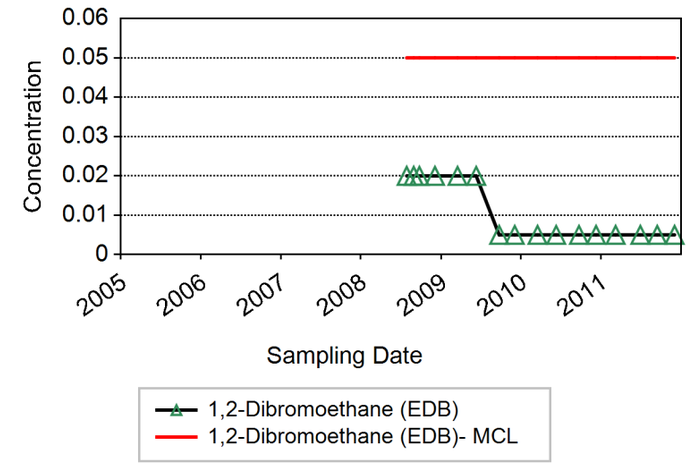
LOCATION = PW-2C
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



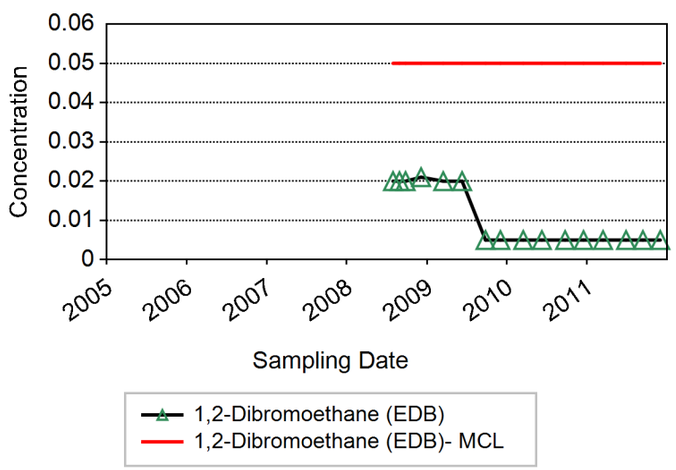
LOCATION = PW-3B
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



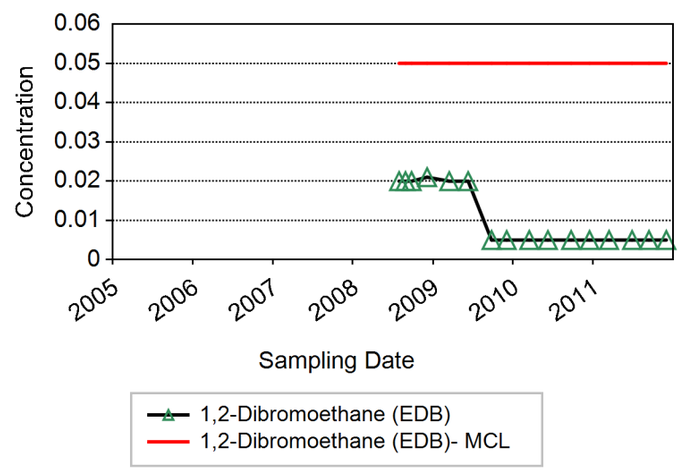
LOCATION = PW-4A
MAXIMUM = 0.020 (µg/L)
MCL = 0.050 (µg/L)



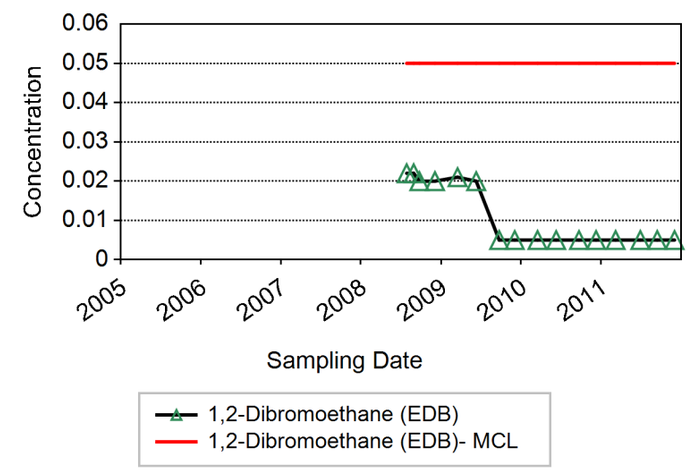
LOCATION = PW-3A
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = PW-3C
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = PW-4B
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



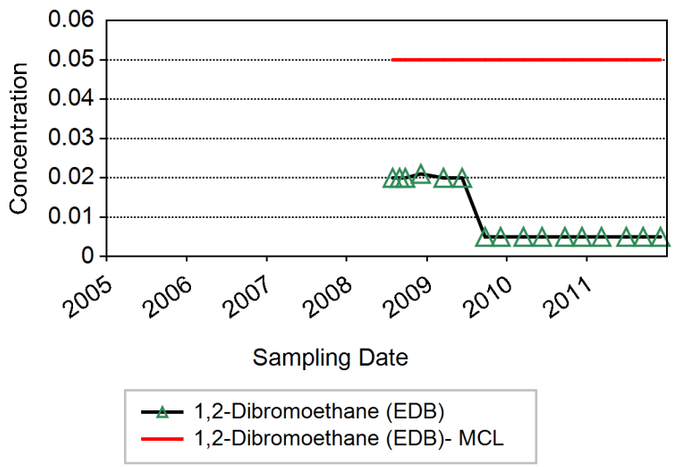
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

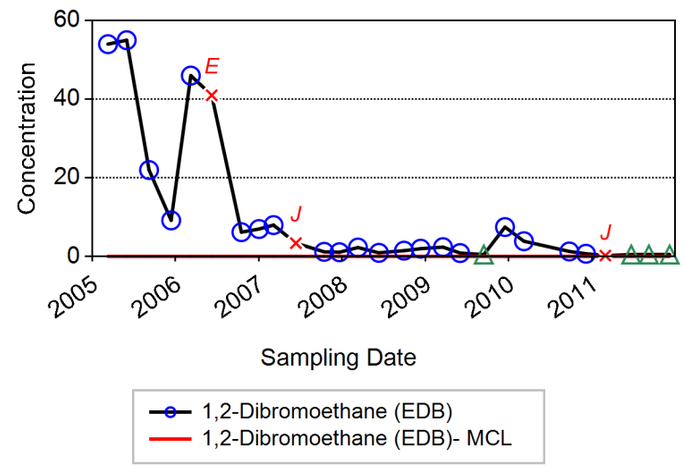
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

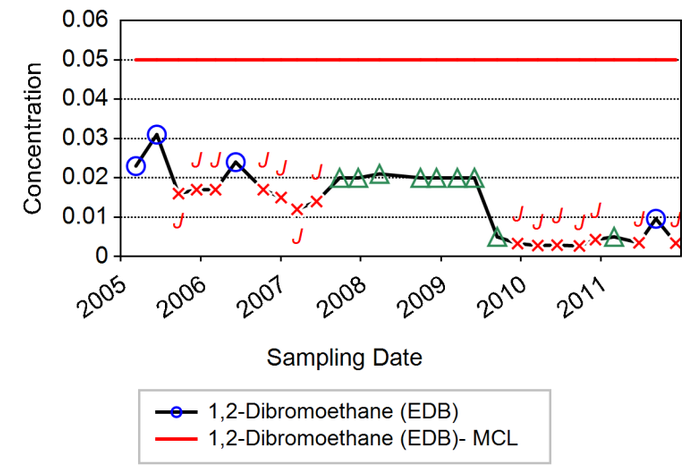
LOCATION = PW-4C
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



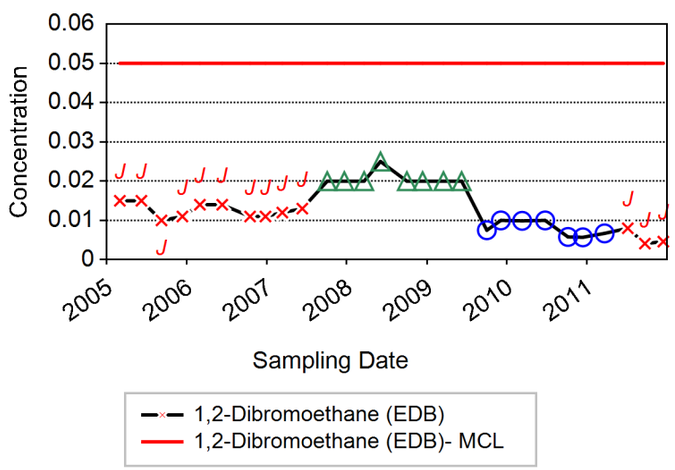
LOCATION = X-1A
MAXIMUM = 9.2 (µg/L)
MCL = 0.050 (µg/L)



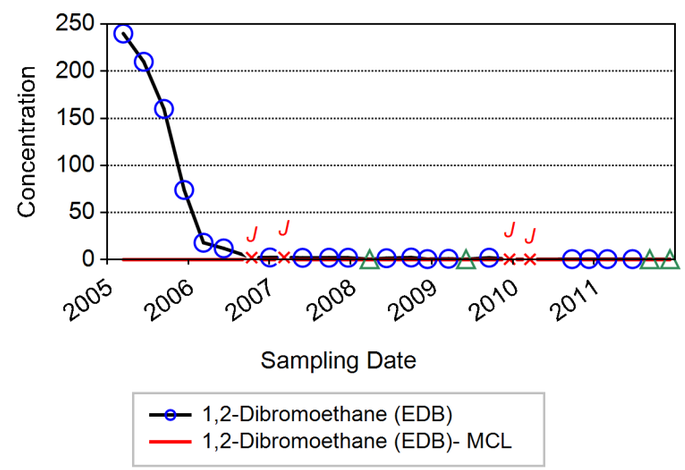
LOCATION = X-1C
MAXIMUM = 0.031 (µg/L)
MCL = 0.050 (µg/L)



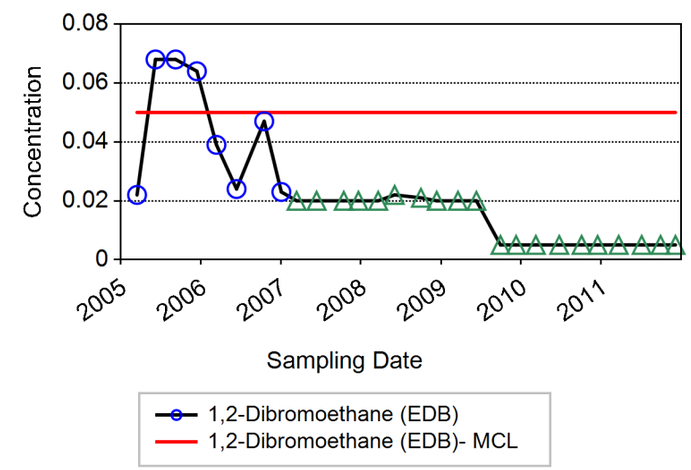
LOCATION = X-10B
MAXIMUM = 0.025 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = X-1B
MAXIMUM = 74.0 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = X-2A
MAXIMUM = 0.068 (µg/L)
MCL = 0.050 (µg/L)



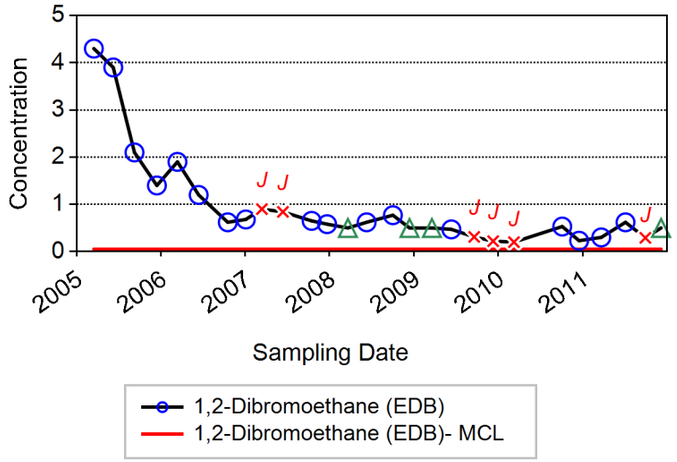
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

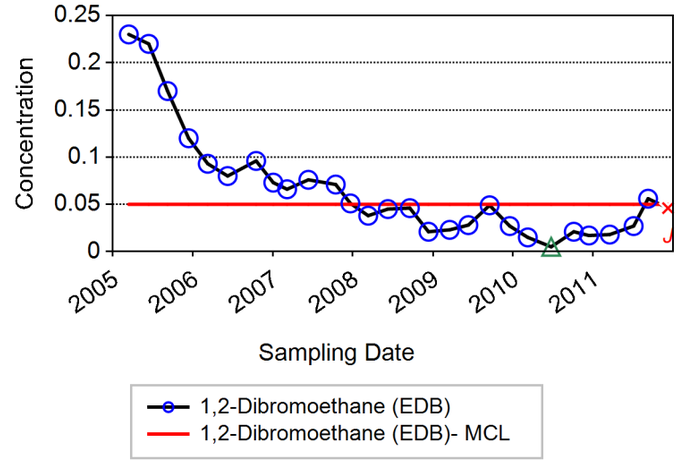
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
o = DETECTED
x = FLAGGED DATA

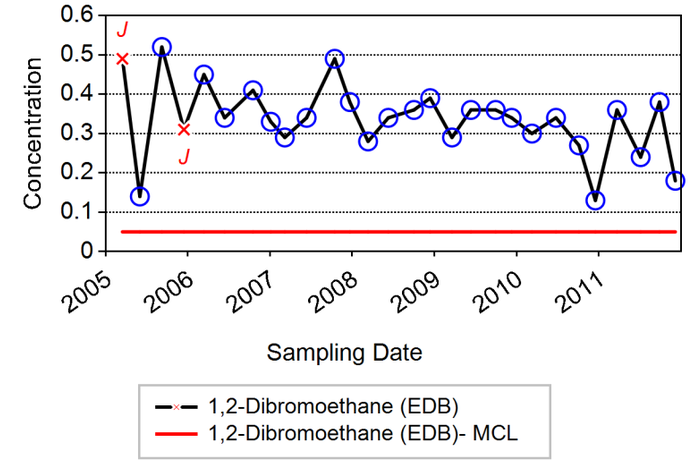
LOCATION = X-2B
MAXIMUM = 4.3 (µg/L)
MCL = 0.050 (µg/L)



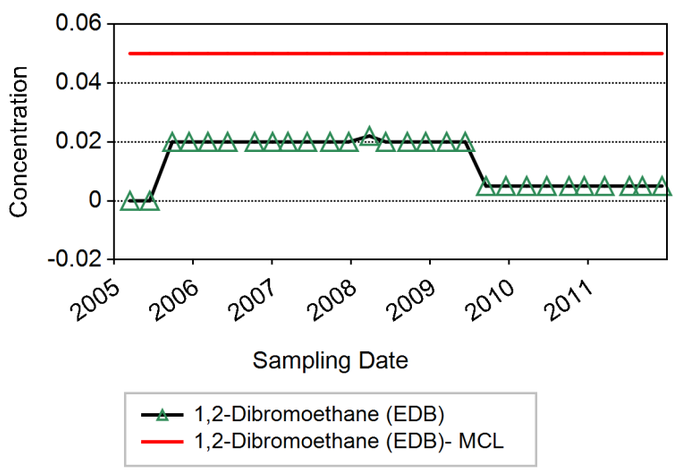
LOCATION = X-3B
MAXIMUM = 0.23 (µg/L)
MCL = 0.050 (µg/L)



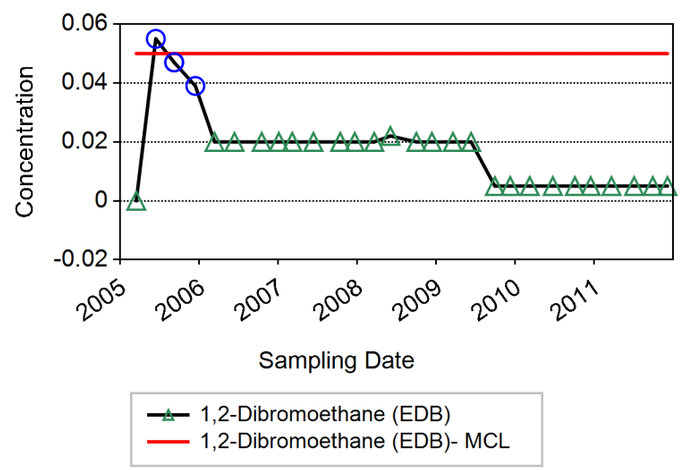
LOCATION = X-4B
MAXIMUM = 0.52 (µg/L)
MCL = 0.050 (µg/L)



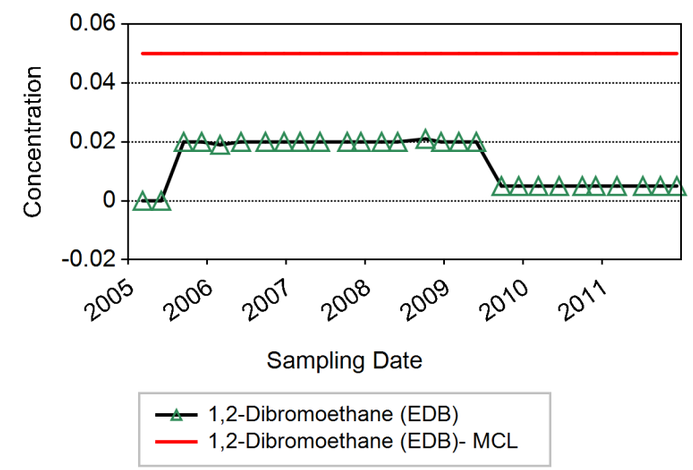
LOCATION = X-3A
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = X-4A
MAXIMUM = 0.055 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = X-5A
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



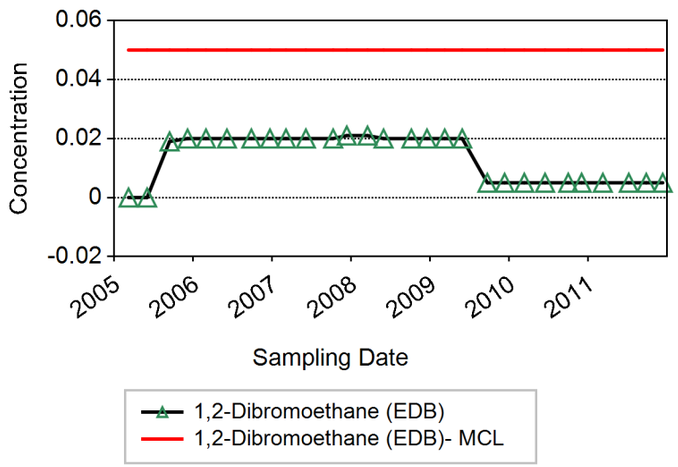
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

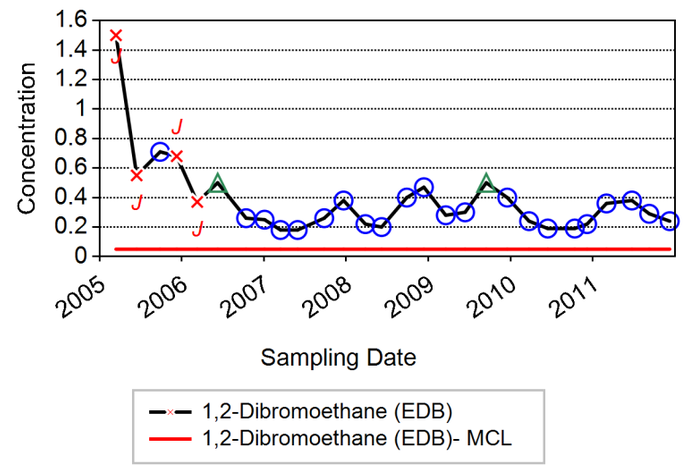
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

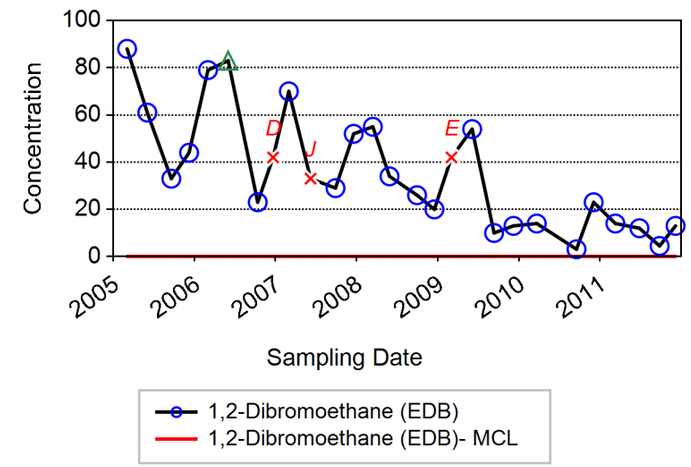
LOCATION = X-5B
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



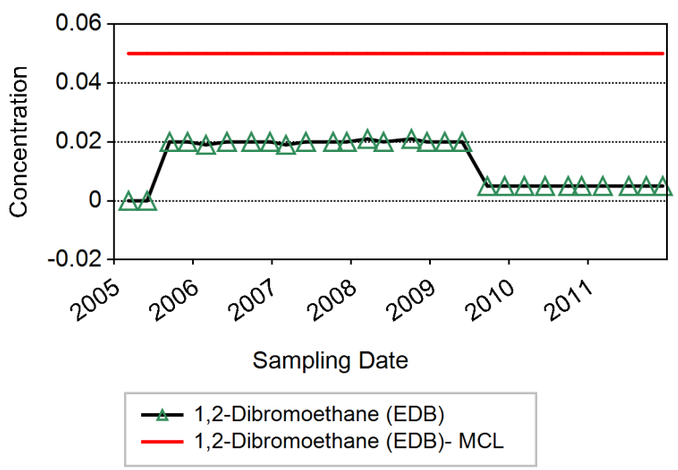
LOCATION = X-6A
MAXIMUM = 1.5 (µg/L)
MCL = 0.050 (µg/L)



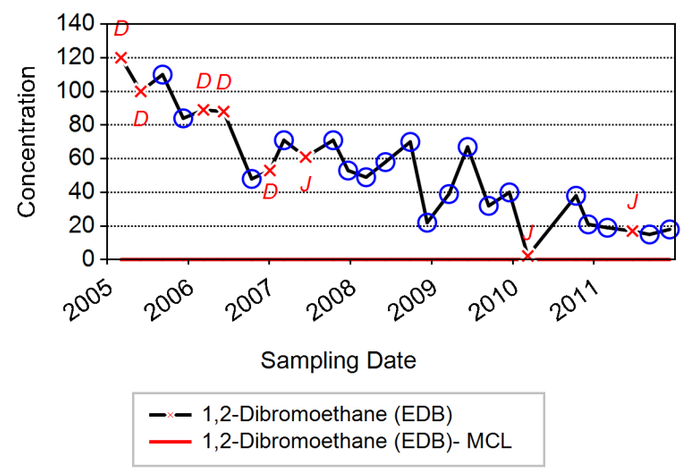
LOCATION = X-7B
MAXIMUM = 88.0 (µg/L)
MCL = 0.050 (µg/L)



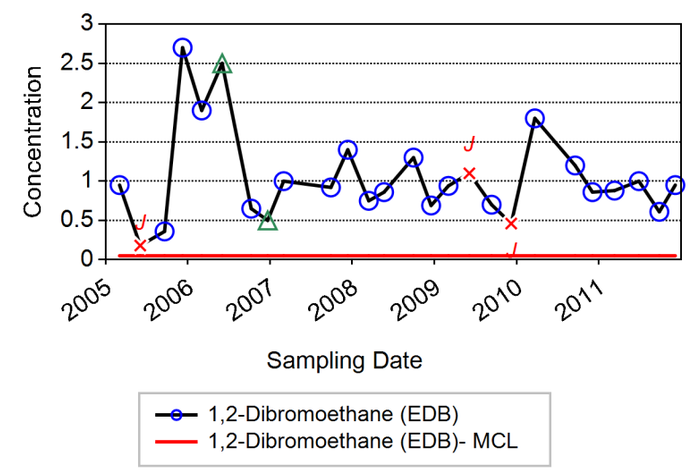
LOCATION = X-5C
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = X-6B
MAXIMUM = 89.0 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = X-7C
MAXIMUM = 2.7 (µg/L)
MCL = 0.050 (µg/L)



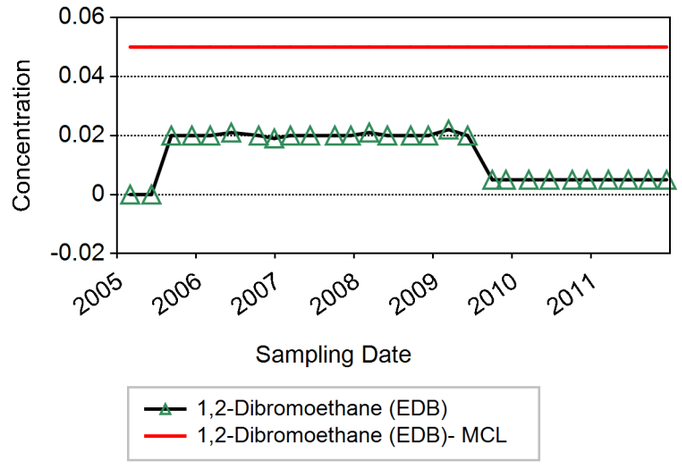
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

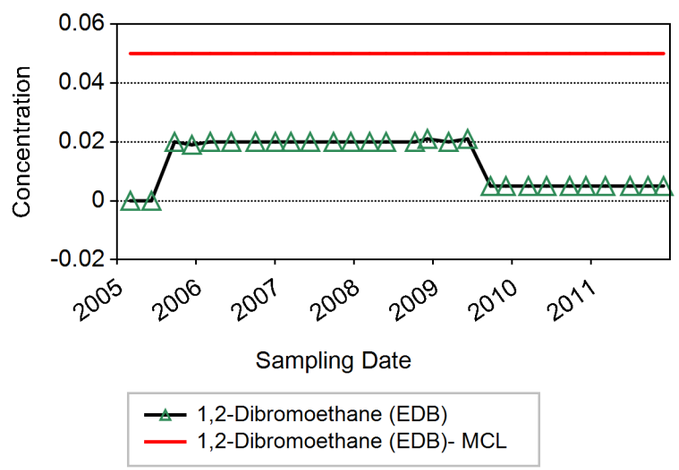
Figure B-1 Chemical Time Series Plot - 1,2-Dibromoethane (EDB)

Δ = NON-DETECT
o = DETECTED
x = FLAGGED DATA

LOCATION = X-8B
MAXIMUM = 0.022 (µg/L)
MCL = 0.050 (µg/L)



LOCATION = X-9B
MAXIMUM = 0.021 (µg/L)
MCL = 0.050 (µg/L)



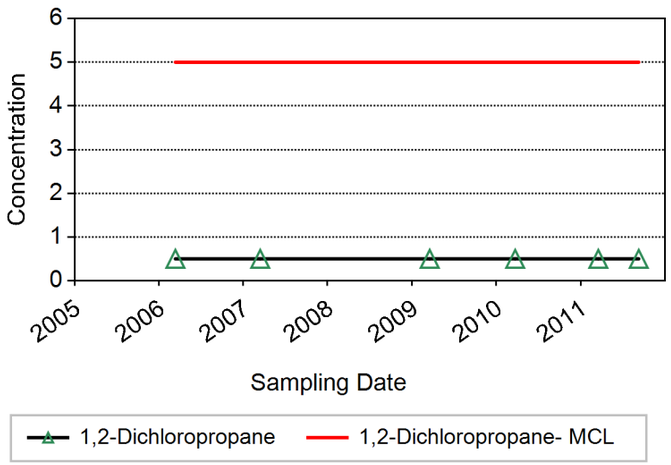
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

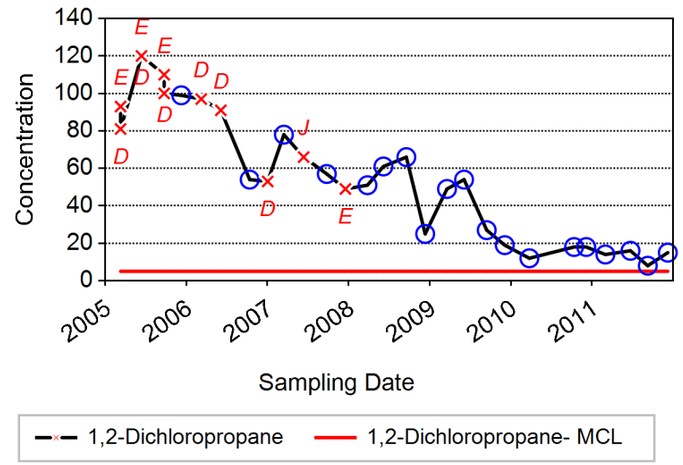
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

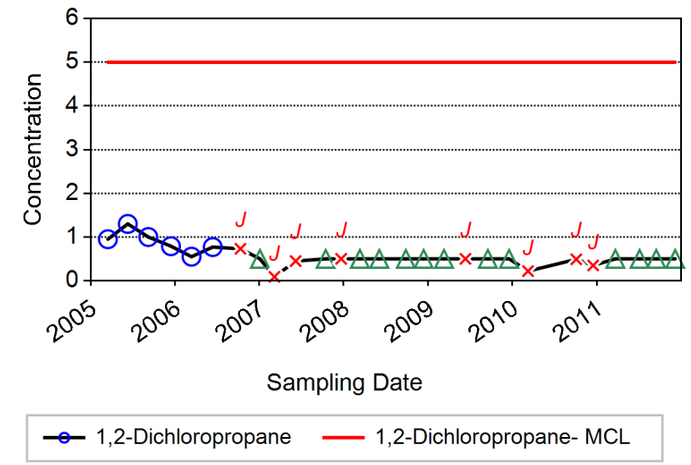
LOCATION = AW-1
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



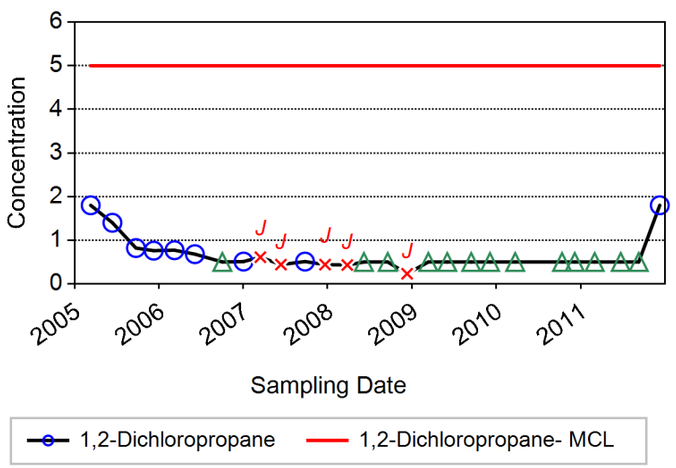
LOCATION = AW-2B
MAXIMUM = 99.0 (µg/L)
MCL = 5.0 (µg/L)



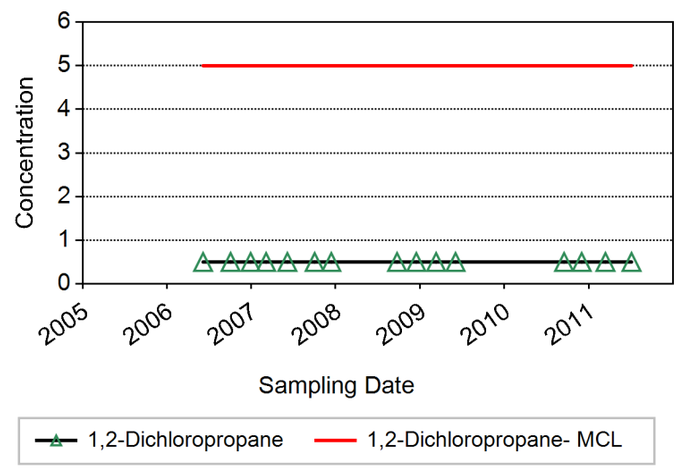
LOCATION = MW-11A
MAXIMUM = 1.3 (µg/L)
MCL = 5.0 (µg/L)



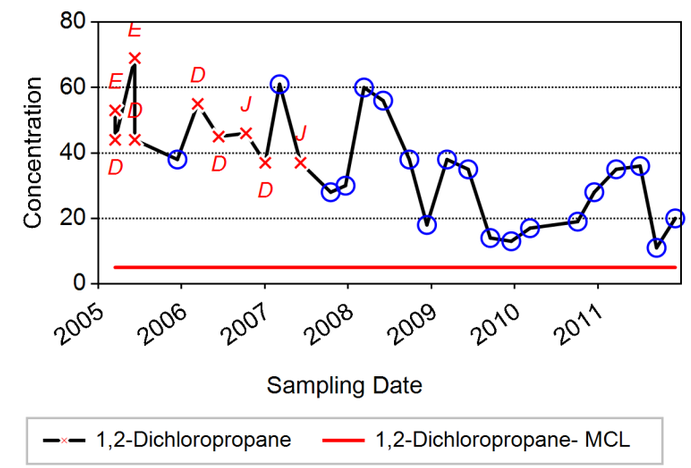
LOCATION = AW-2A
MAXIMUM = 1.8 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = CityWell29
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = MW-11B
MAXIMUM = 69.0 (µg/L)
MCL = 5.0 (µg/L)



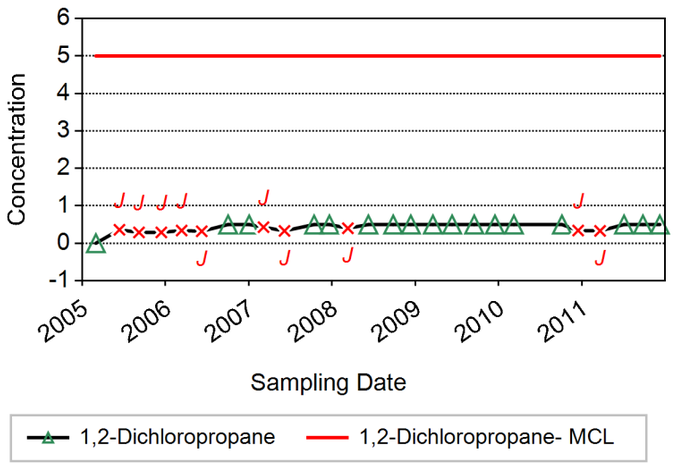
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

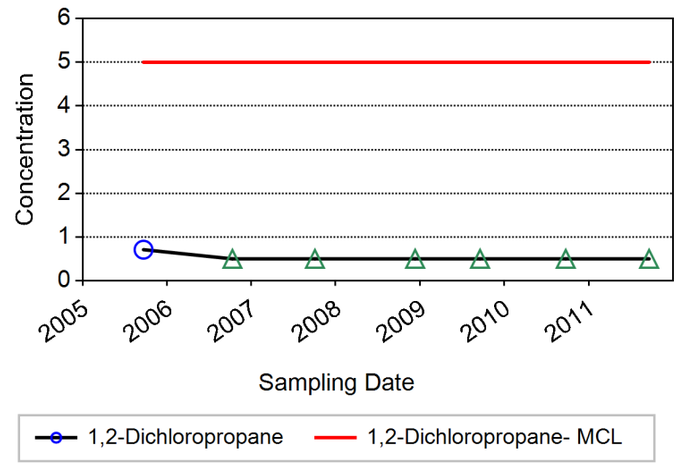
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

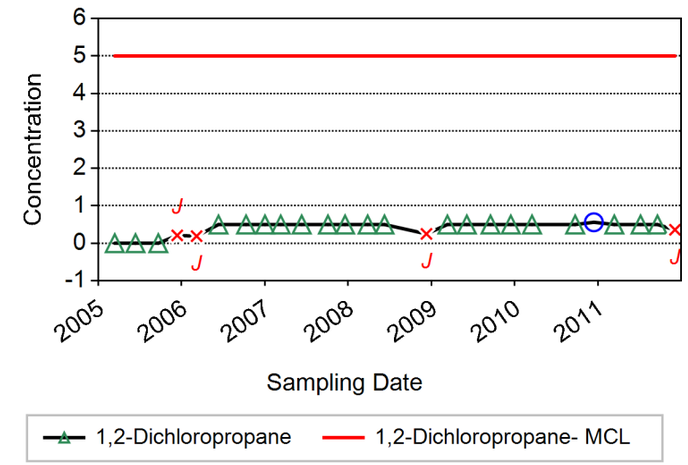
LOCATION = MW-12A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



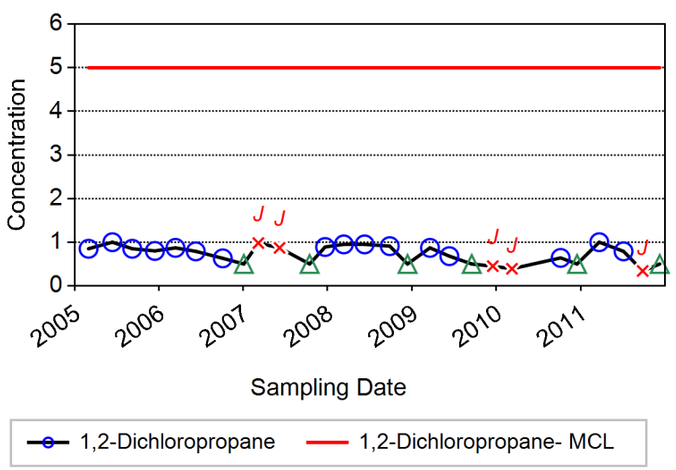
LOCATION = MW-13A
MAXIMUM = 0.71 (µg/L)
MCL = 5.0 (µg/L)



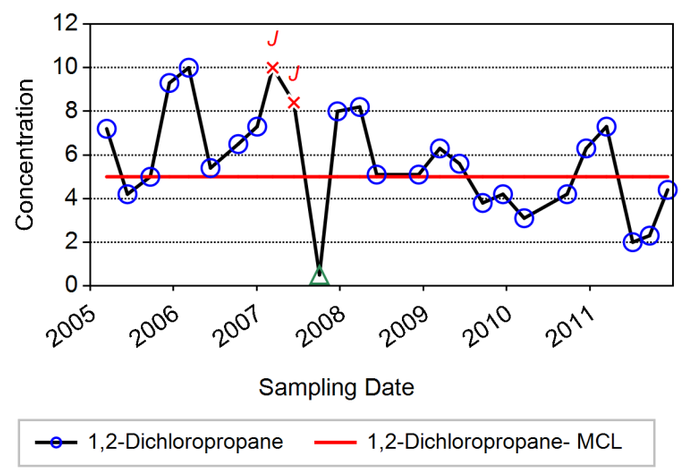
LOCATION = MW-13C
MAXIMUM = 0.56 (µg/L)
MCL = 5.0 (µg/L)



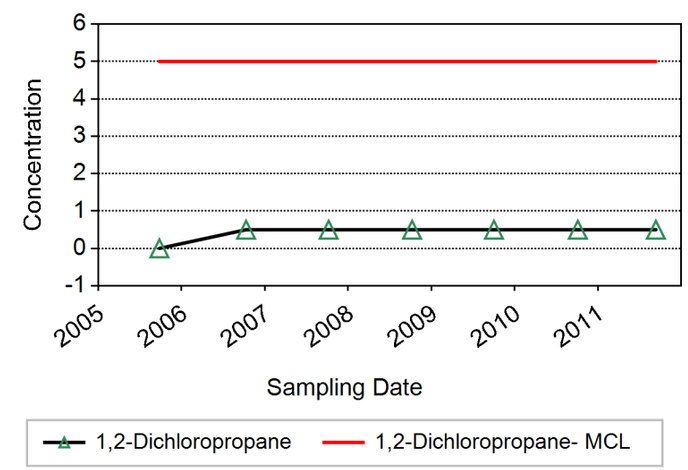
LOCATION = MW-12B
MAXIMUM = 1.0 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = MW-13B
MAXIMUM = 9.3 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = MW-3A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



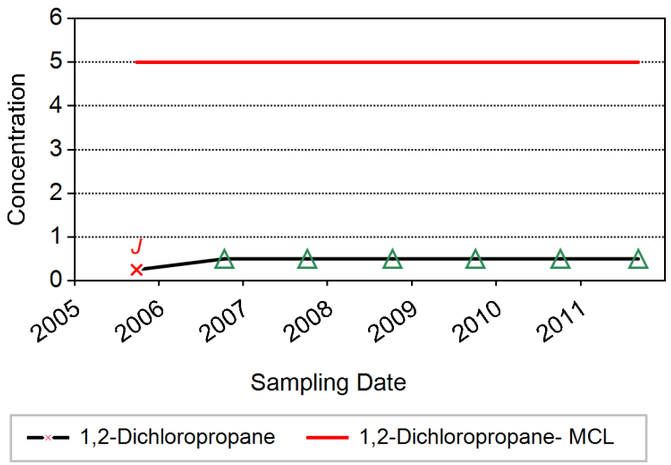
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

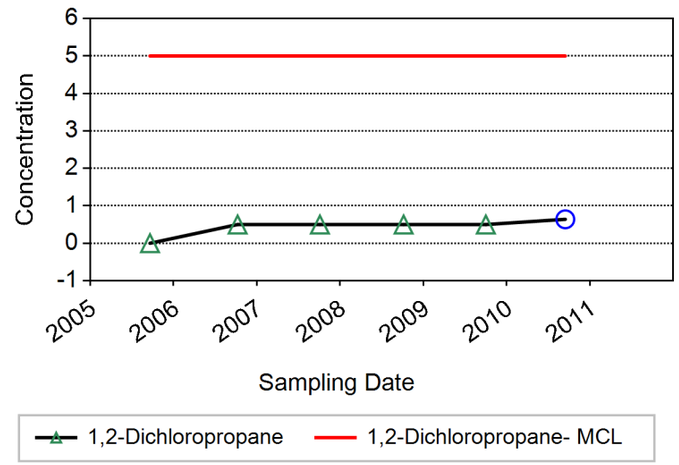
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

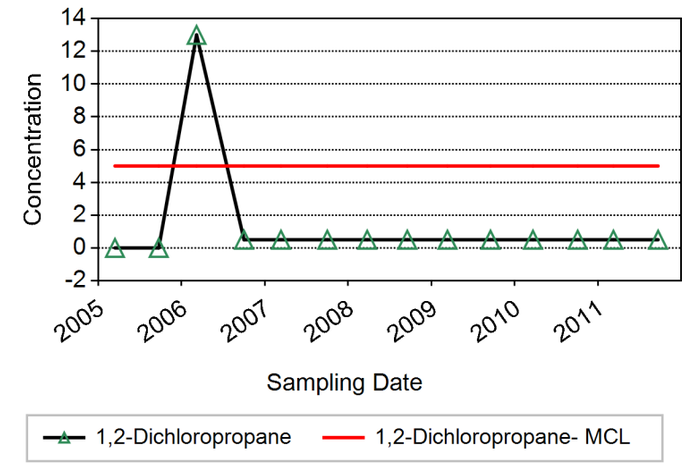
LOCATION = MW-3B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



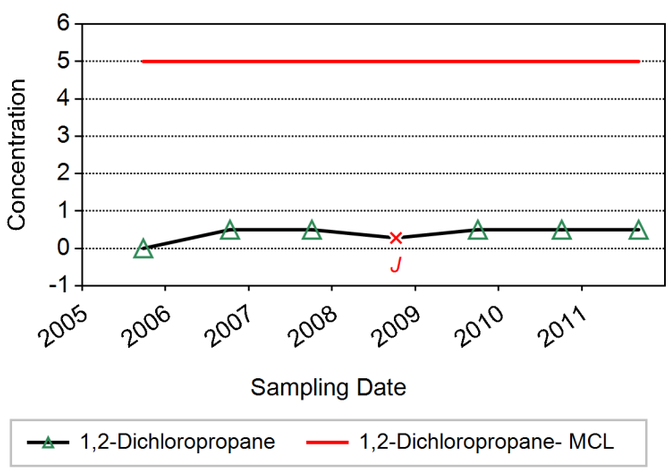
LOCATION = MW-4C
MAXIMUM = 0.64 (µg/L)
MCL = 5.0 (µg/L)



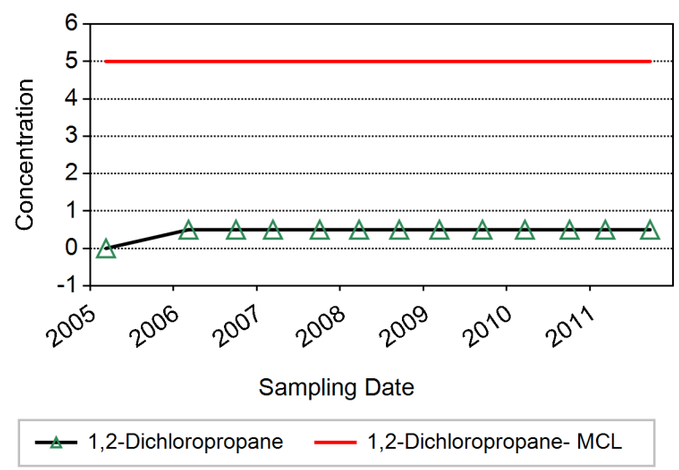
LOCATION = MW-5B
MAXIMUM = 13.0 (µg/L)
MCL = 5.0 (µg/L)



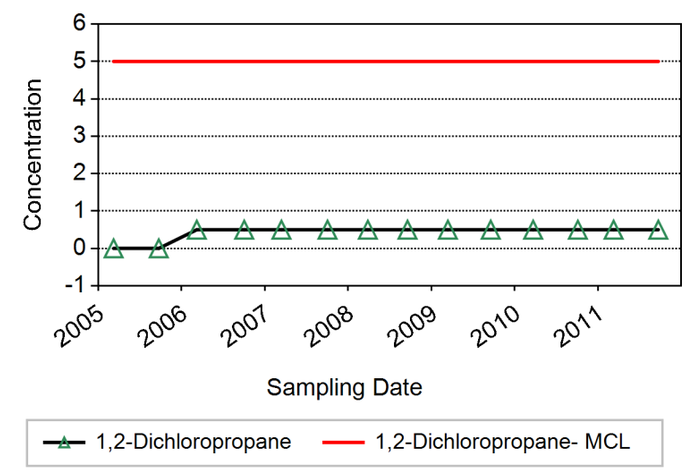
LOCATION = MW-3C
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = MW-5A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = MW-5C
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



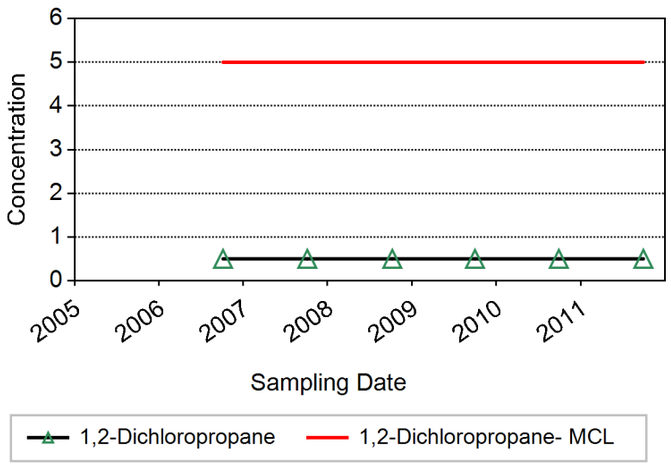
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

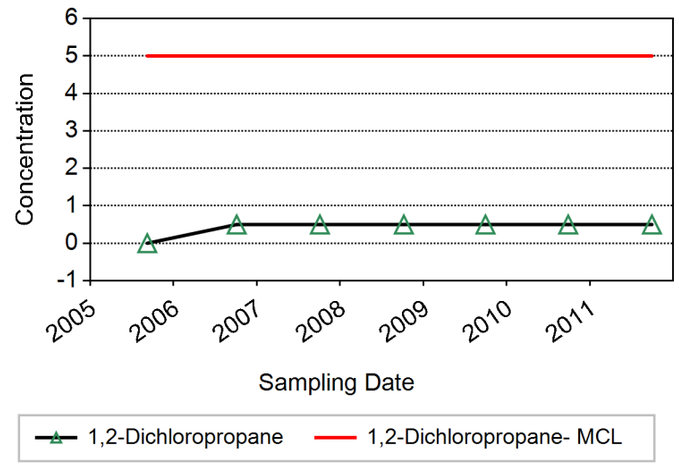
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

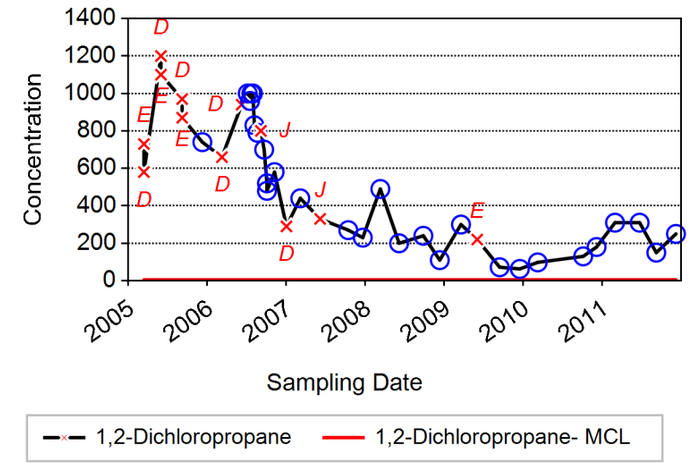
LOCATION = MW-6A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



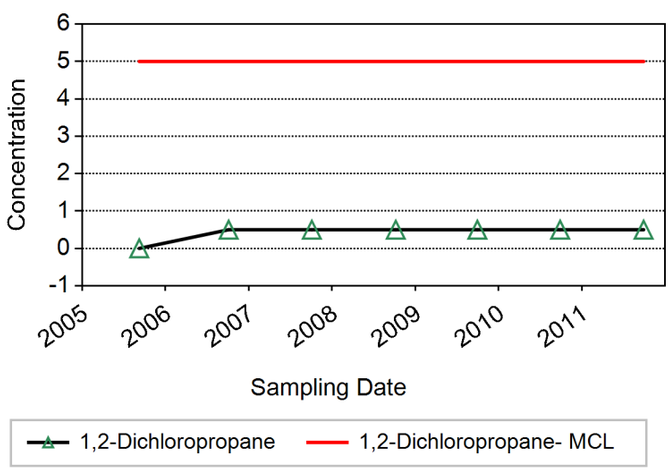
LOCATION = MW-6C
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



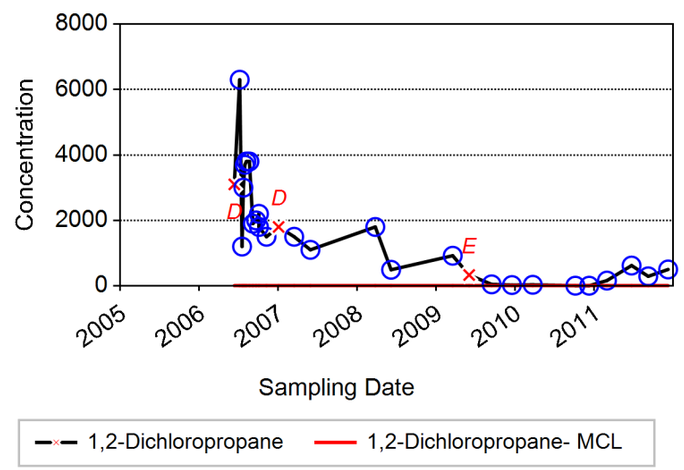
LOCATION = MW-7B
MAXIMUM = 98.0 (µg/L)
MCL = 5.0 (µg/L)



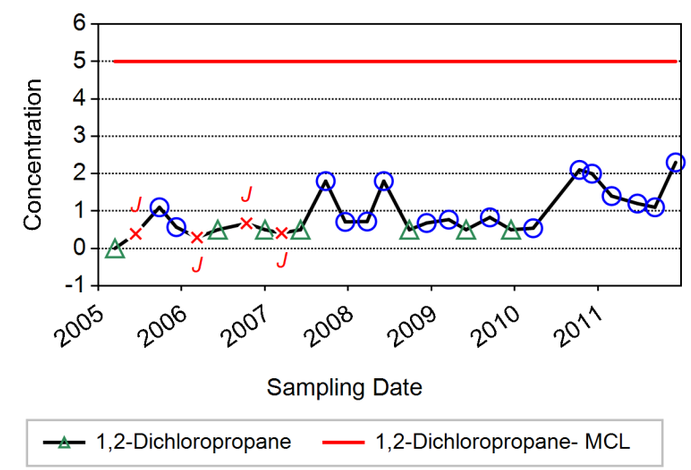
LOCATION = MW-6B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = MW-7A
MAXIMUM = 920 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = MW-7D
MAXIMUM = 2.3 (µg/L)
MCL = 5.0 (µg/L)



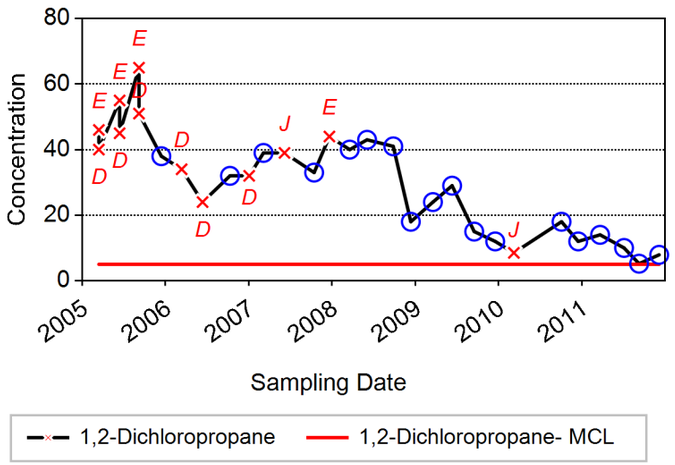
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

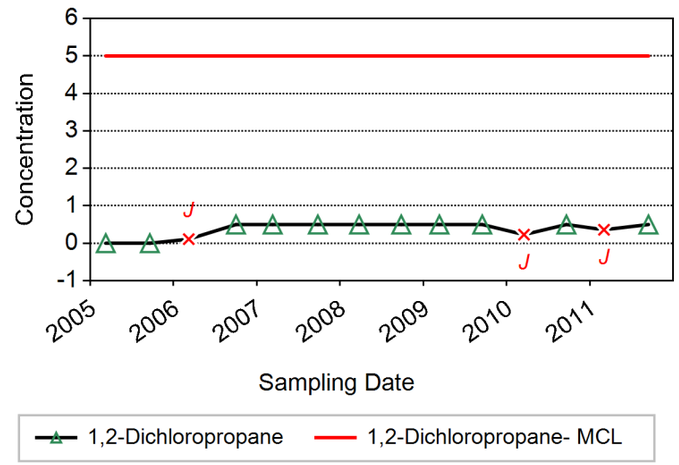
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

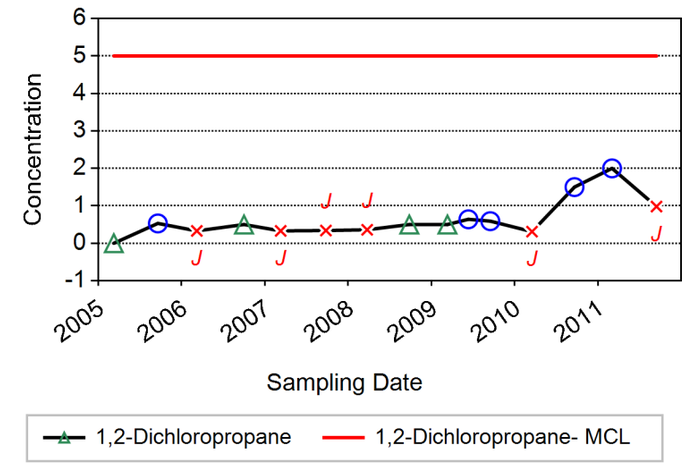
LOCATION = MW-8A
MAXIMUM = 8.5 (µg/L)
MCL = 5.0 (µg/L)



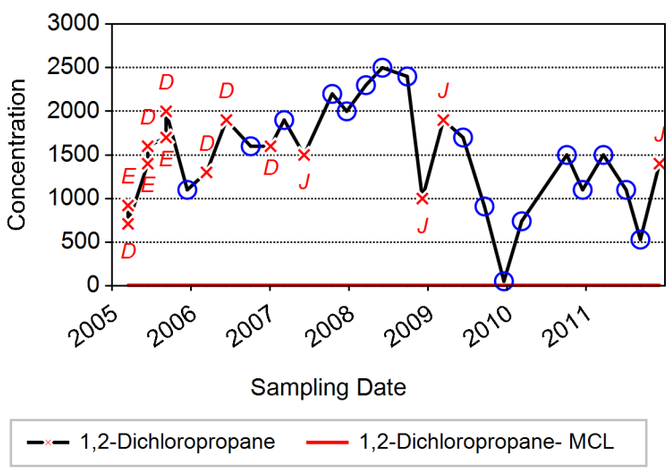
LOCATION = MW-9A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



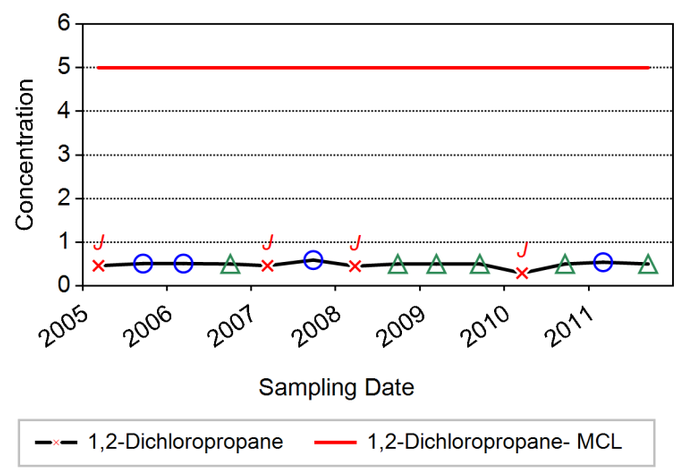
LOCATION = MW-9C
MAXIMUM = 2.0 (µg/L)
MCL = 5.0 (µg/L)



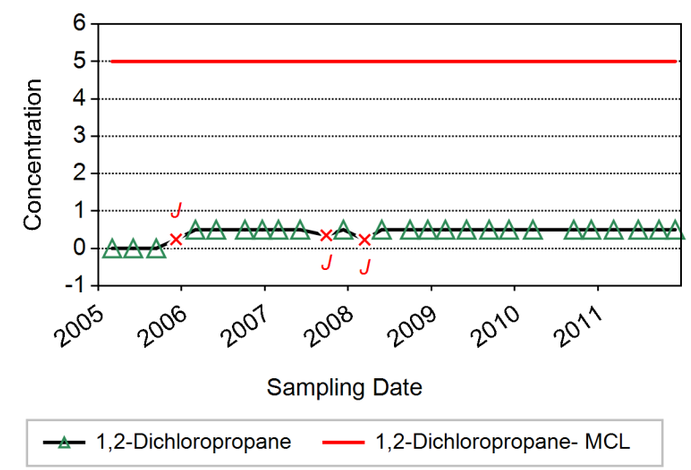
LOCATION = MW-8B
MAXIMUM = 920 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = MW-9B
MAXIMUM = 0.59 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = OW-11A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



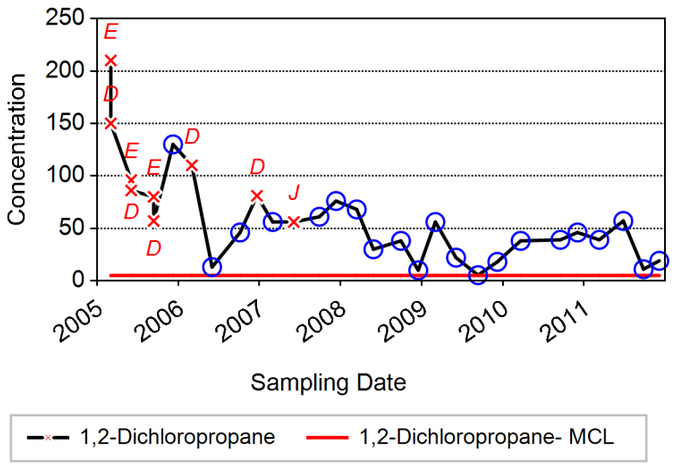
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

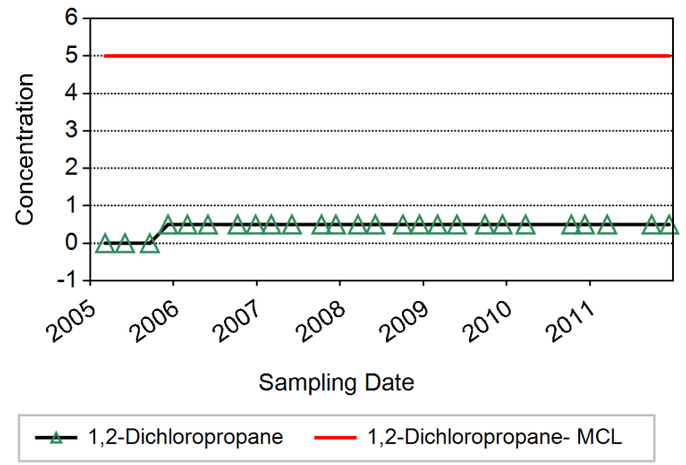
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

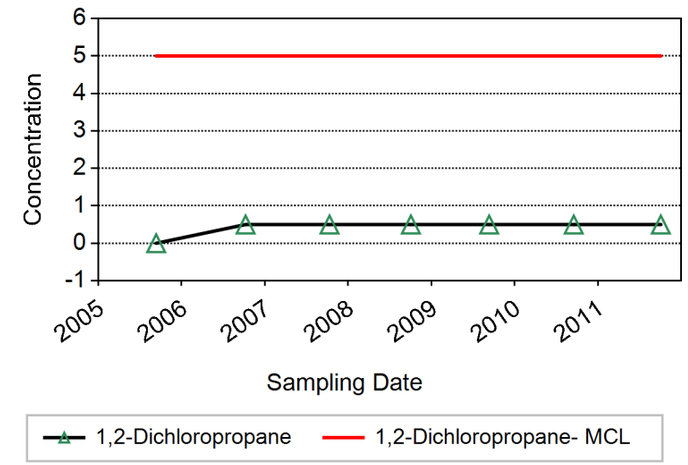
LOCATION = OW-11B
MAXIMUM = 96.0 (µg/L)
MCL = 5.0 (µg/L)



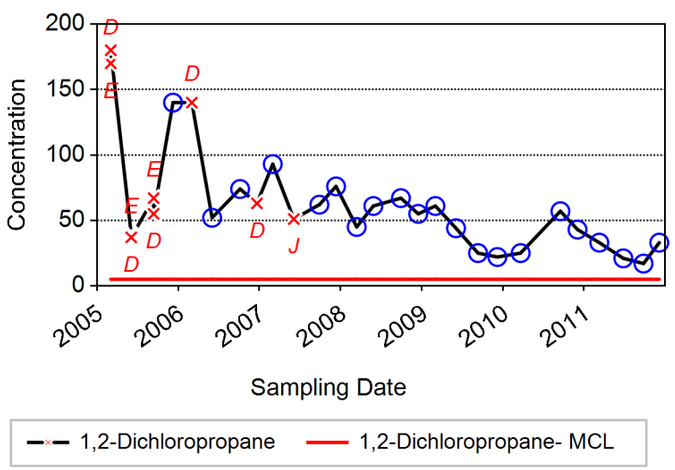
LOCATION = OW-12A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



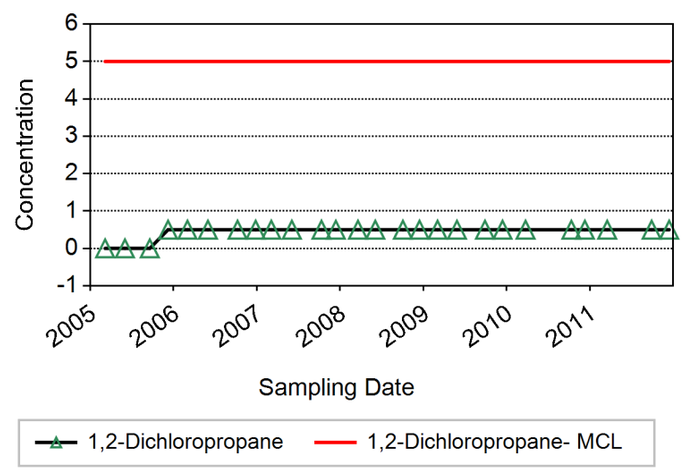
LOCATION = OW-13B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



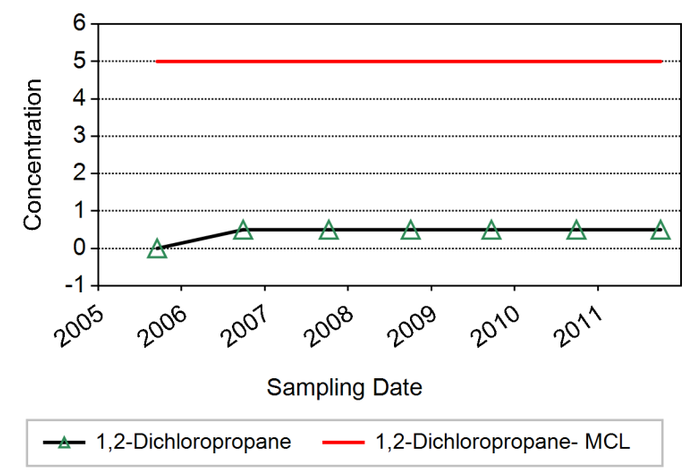
LOCATION = OW-11C
MAXIMUM = 93.0 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = OW-12B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = OW-14A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



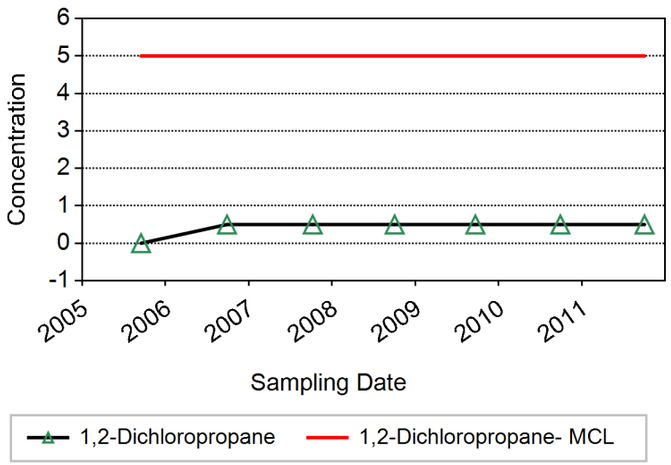
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

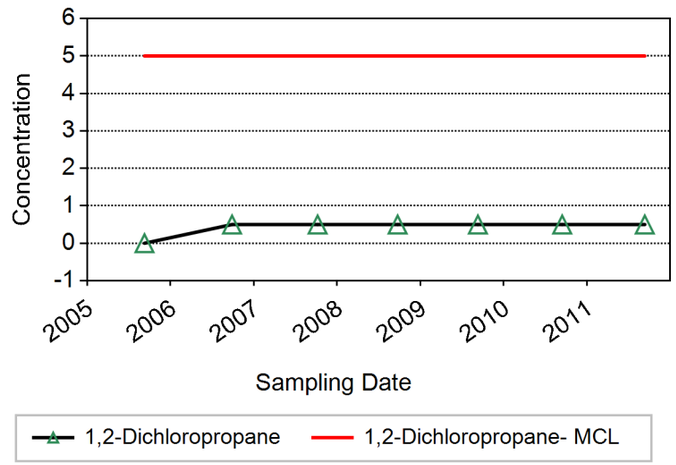
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

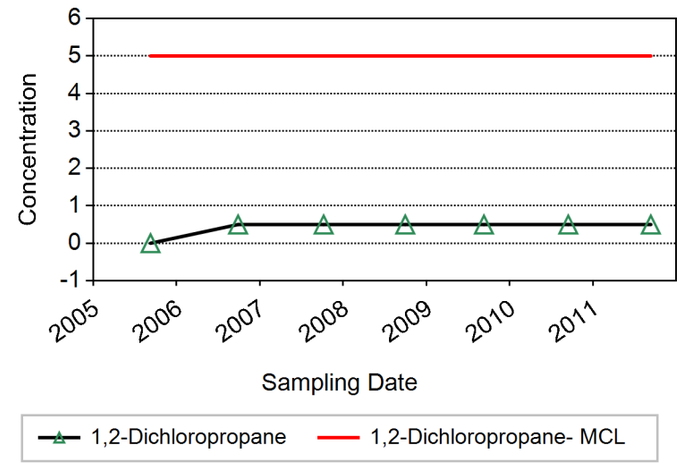
LOCATION = OW-14B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



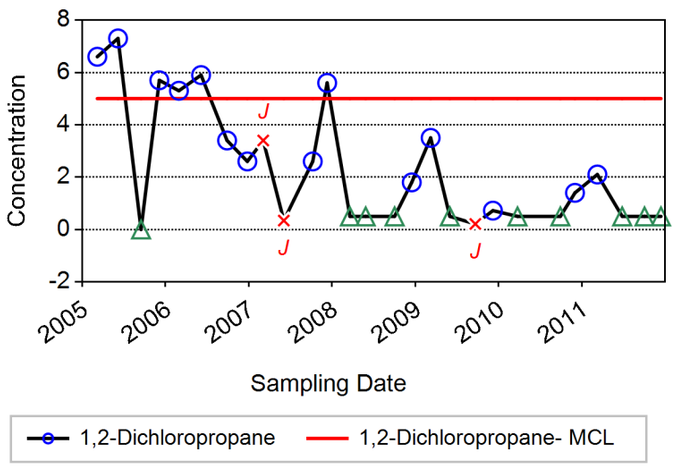
LOCATION = OW-15A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



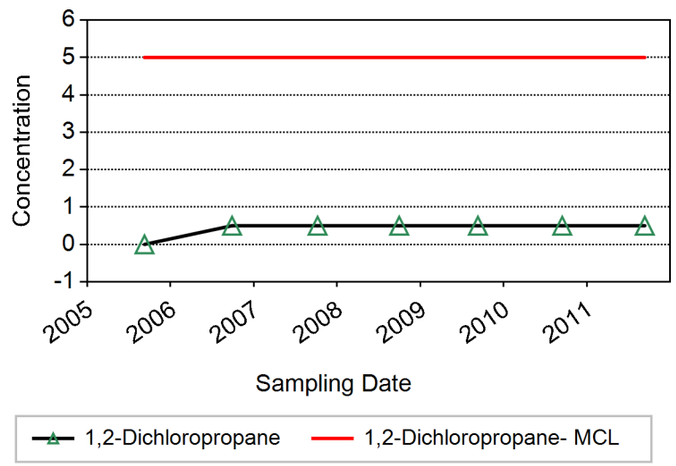
LOCATION = OW-15C
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



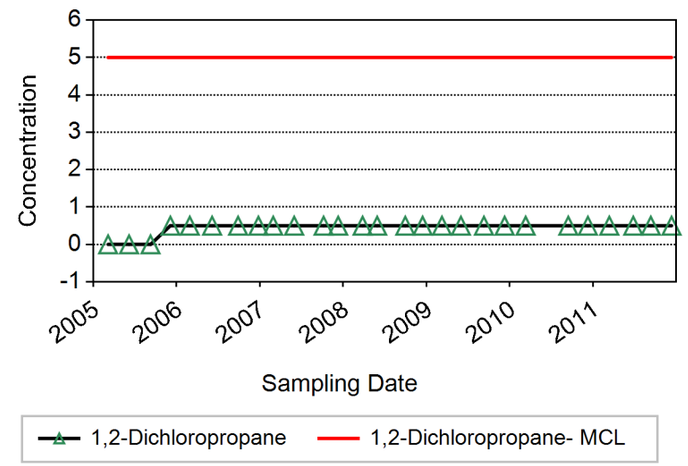
LOCATION = OW-14C
MAXIMUM = 7.3 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = OW-15B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = OW-15D
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



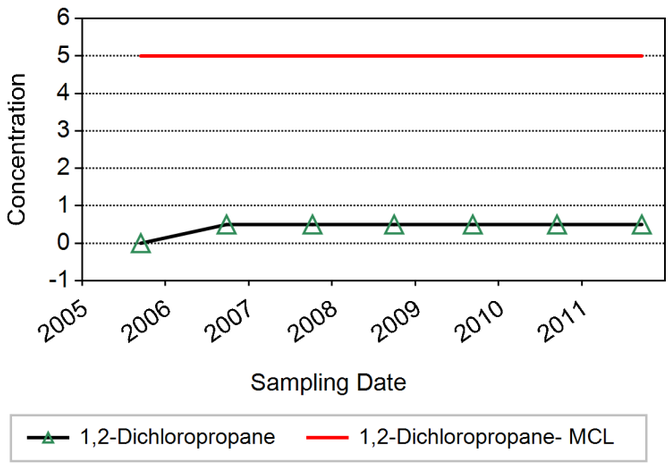
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

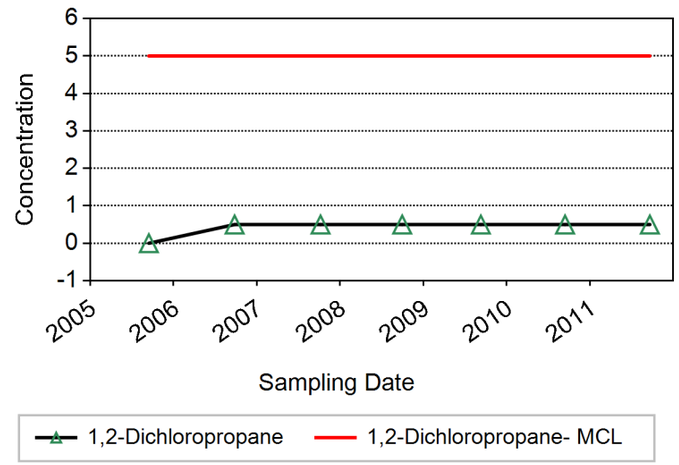
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

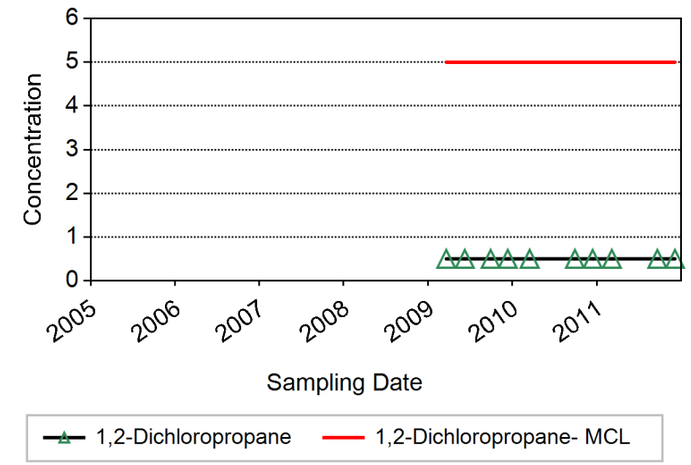
LOCATION = OW-16A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



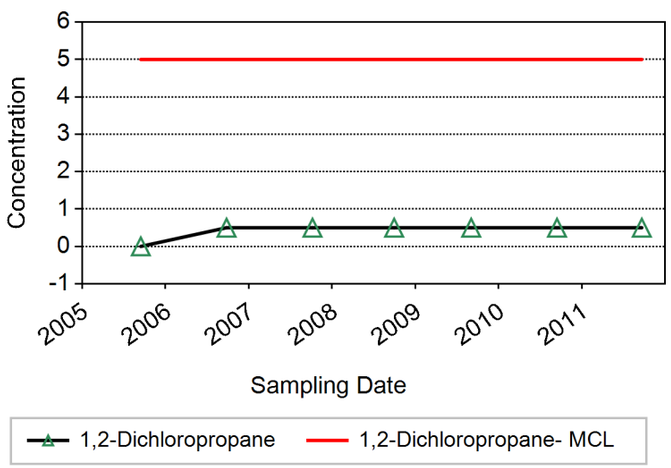
LOCATION = OW-16C
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



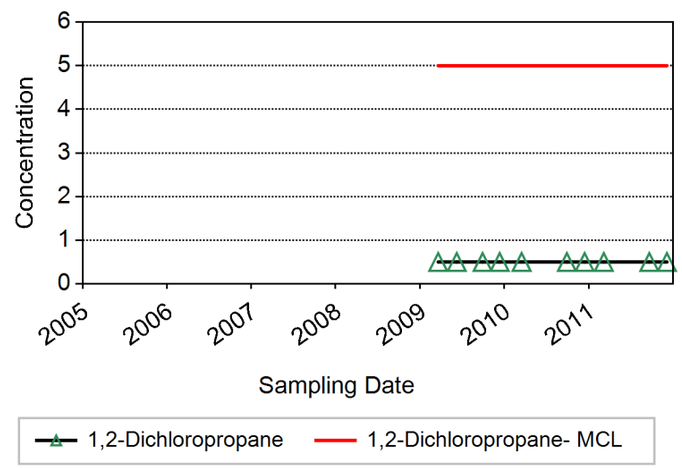
LOCATION = OW-18BR
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



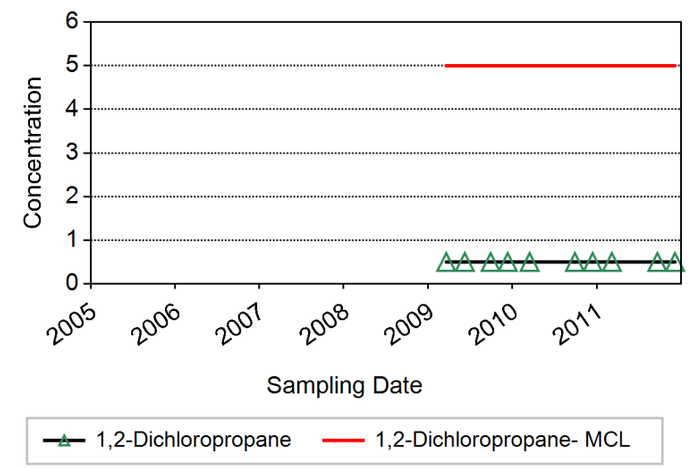
LOCATION = OW-16B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = OW-18AR
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = OW-18CR
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



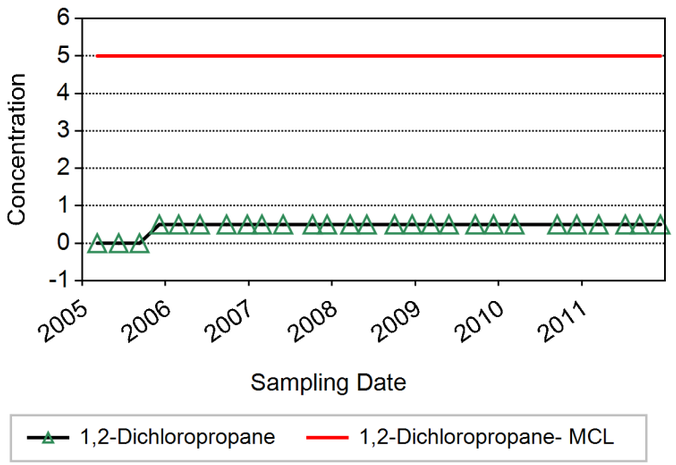
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

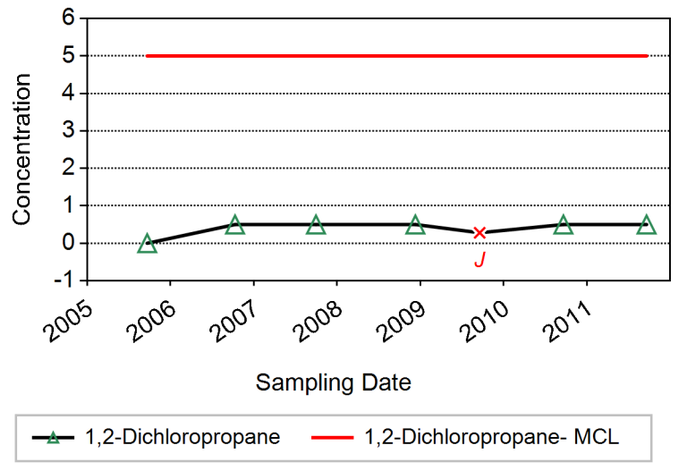
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
o = DETECTED
x = FLAGGED DATA

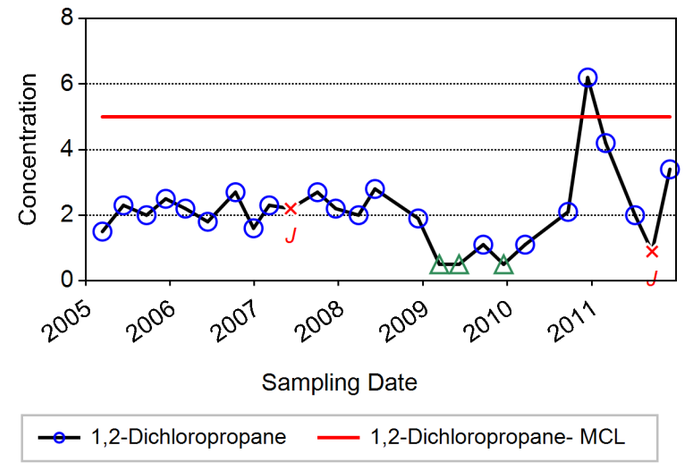
LOCATION = OW-19C
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



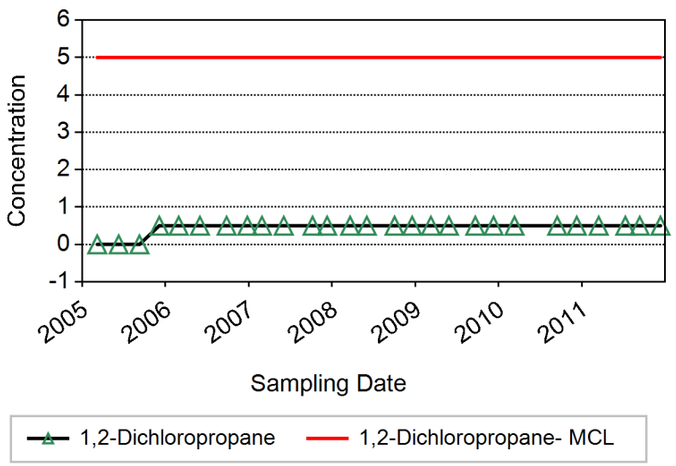
LOCATION = OW-1A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



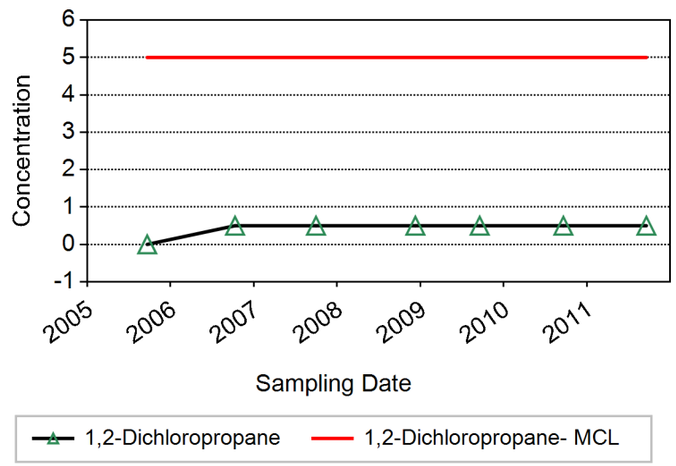
LOCATION = OW-1C
MAXIMUM = 6.2 (µg/L)
MCL = 5.0 (µg/L)



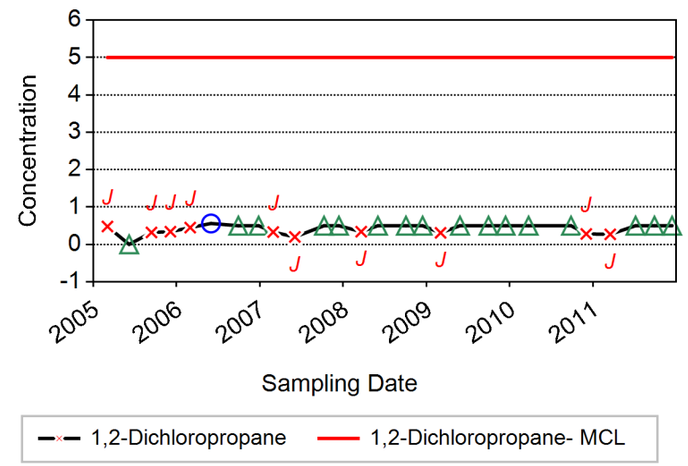
LOCATION = OW-19D
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = OW-1B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = OW-20B
MAXIMUM = 0.56 (µg/L)
MCL = 5.0 (µg/L)



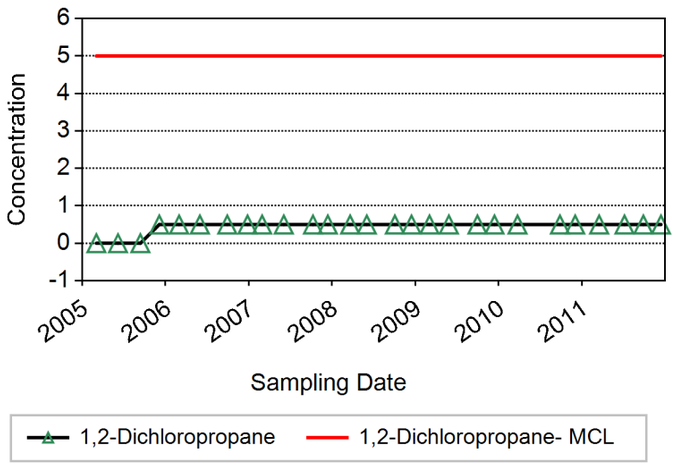
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

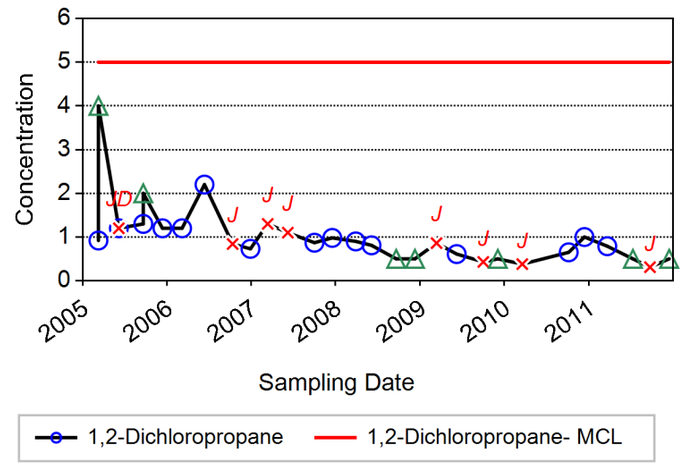
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
o = DETECTED
x = FLAGGED DATA

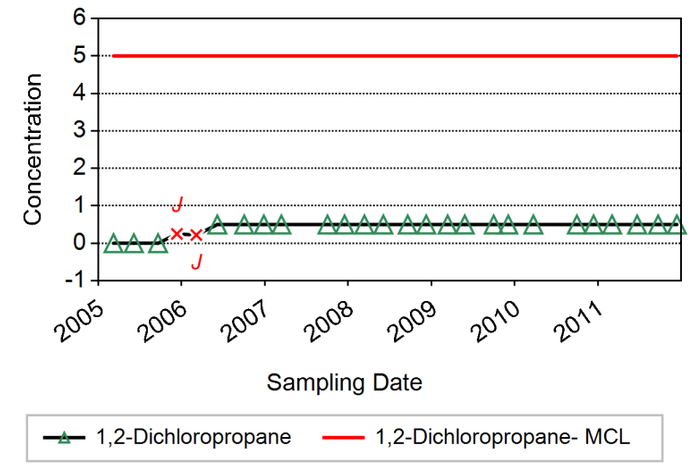
LOCATION = OW-20C
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



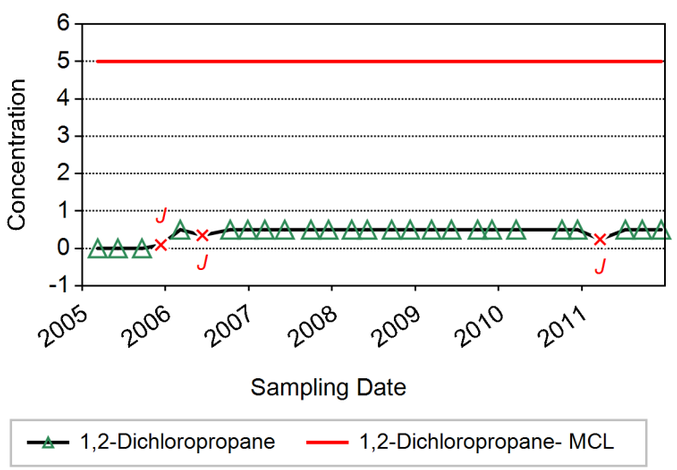
LOCATION = OW-3B
MAXIMUM = 4.0 (µg/L)
MCL = 5.0 (µg/L)



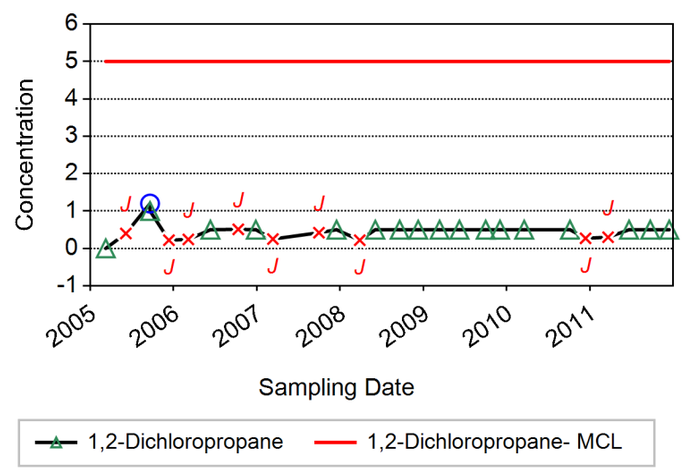
LOCATION = OW-4A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



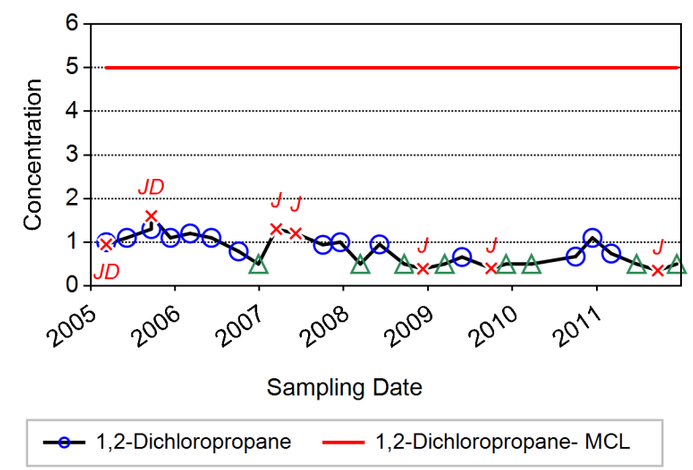
LOCATION = OW-3A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = OW-3C
MAXIMUM = 1.2 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = OW-4B
MAXIMUM = 1.6 (µg/L)
MCL = 5.0 (µg/L)



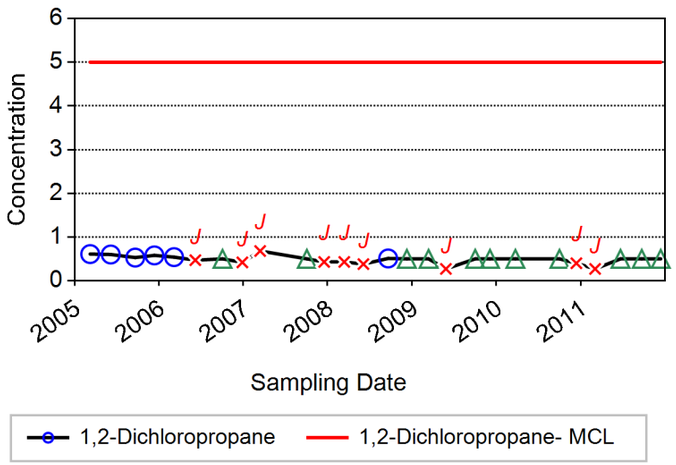
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

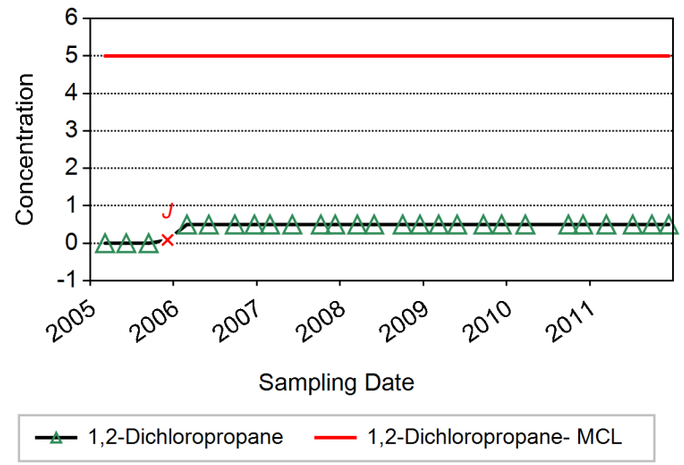
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

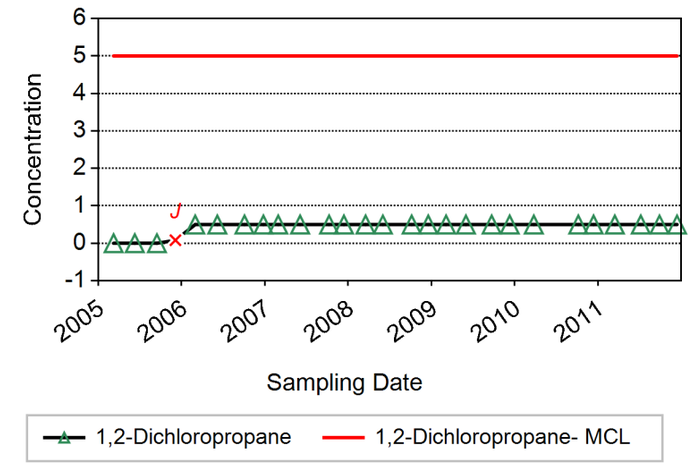
LOCATION = OW-4C
MAXIMUM = 0.68 (µg/L)
MCL = 5.0 (µg/L)



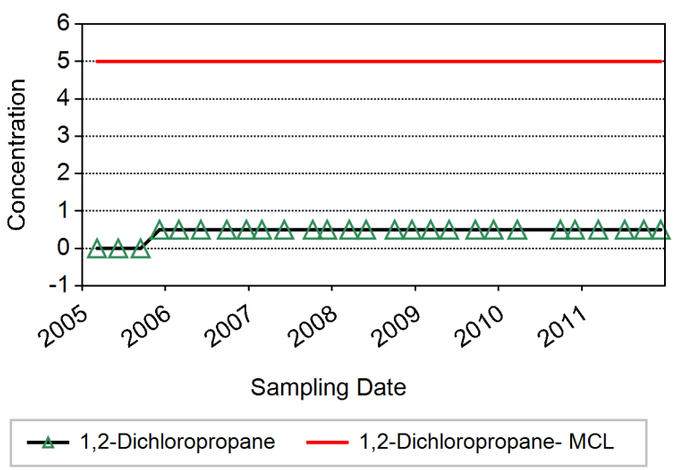
LOCATION = OW-5B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



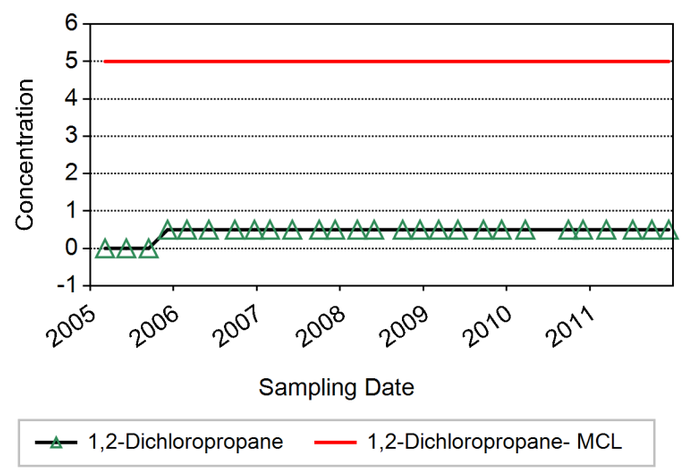
LOCATION = OW-6A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



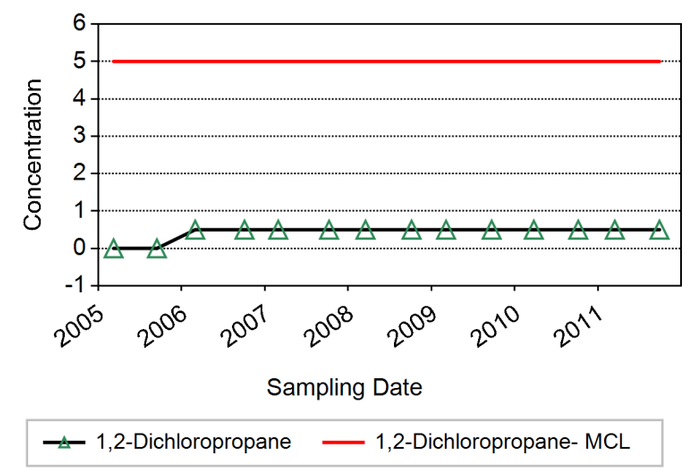
LOCATION = OW-5A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = OW-5C
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = OW-6B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



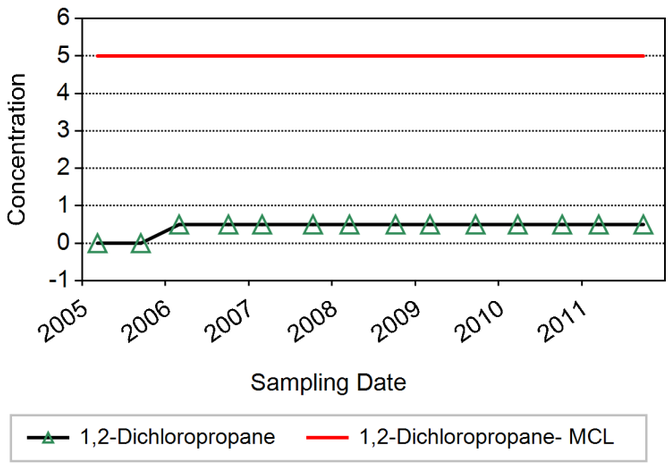
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

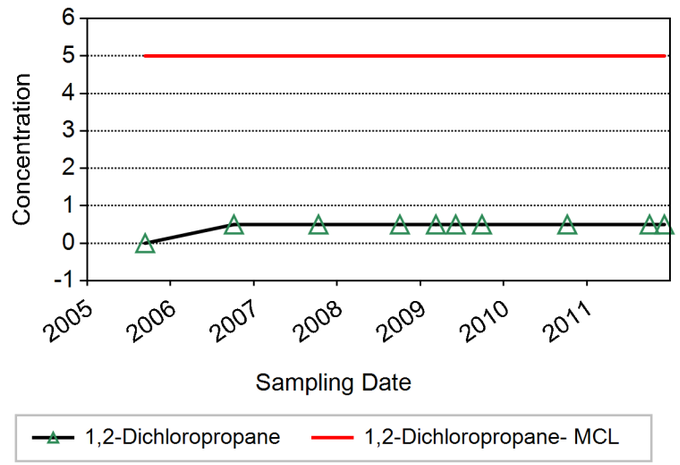
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

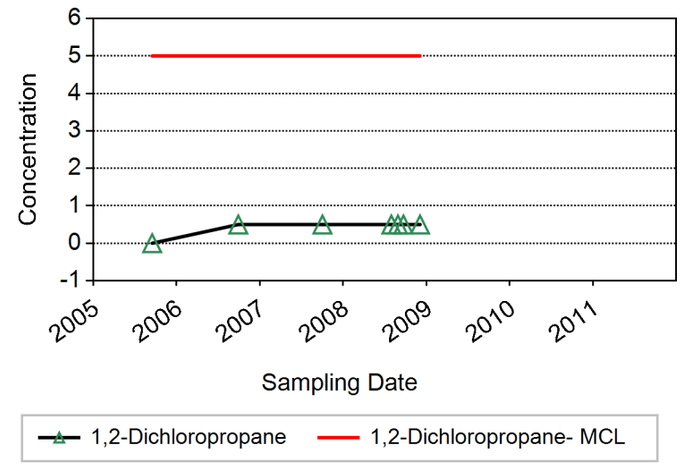
LOCATION = OW-6C
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



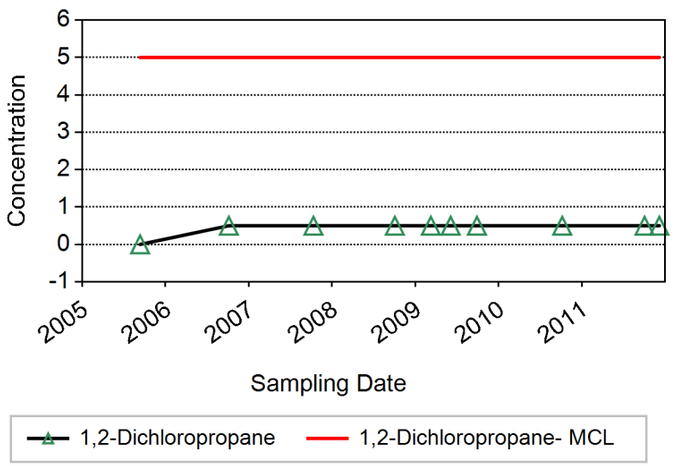
LOCATION = OW-7B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



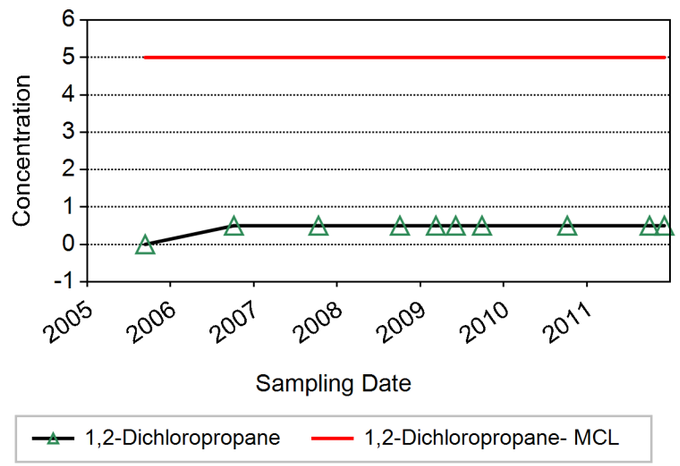
LOCATION = OW-8A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



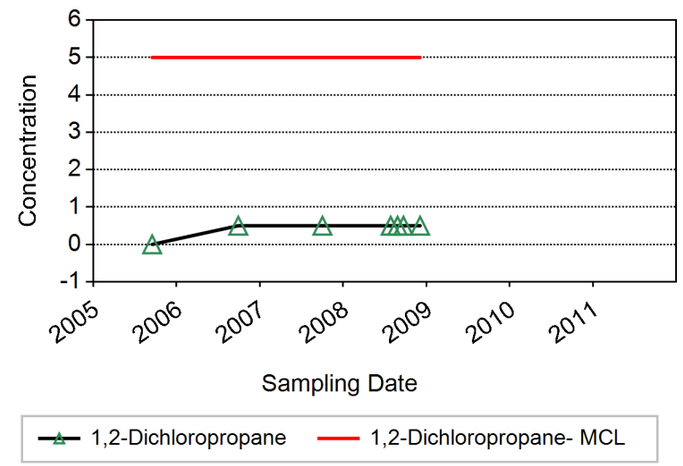
LOCATION = OW-7A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = OW-7C
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = OW-8B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



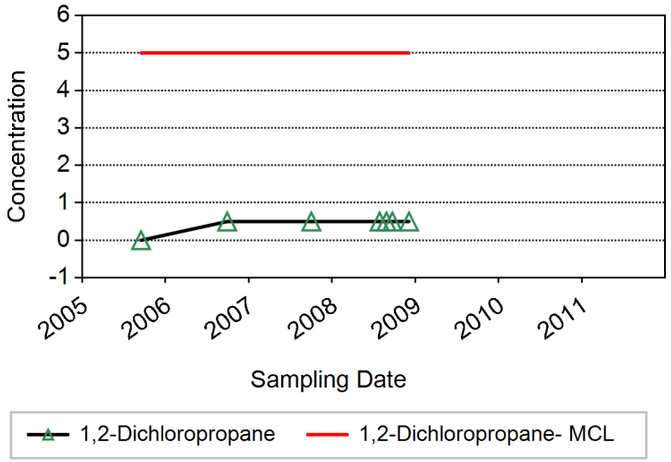
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

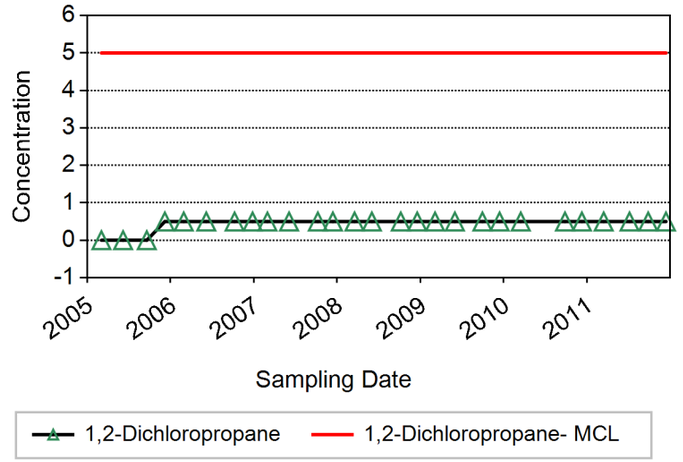
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

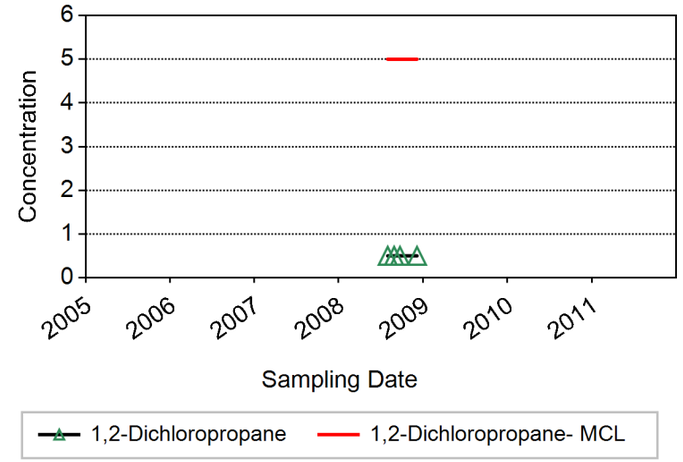
LOCATION = OW-8C
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



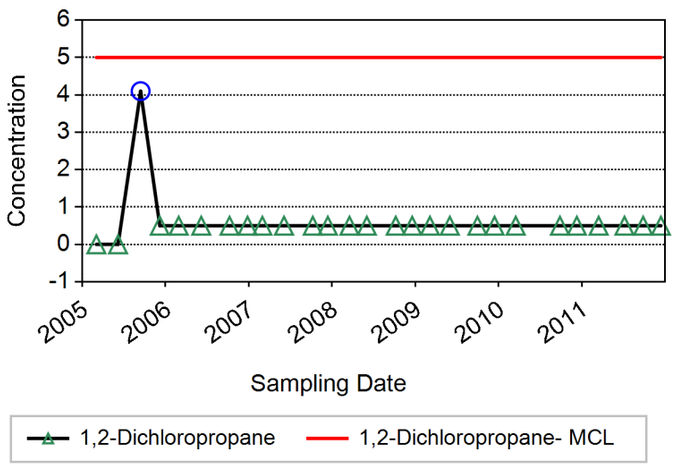
LOCATION = OW-9B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



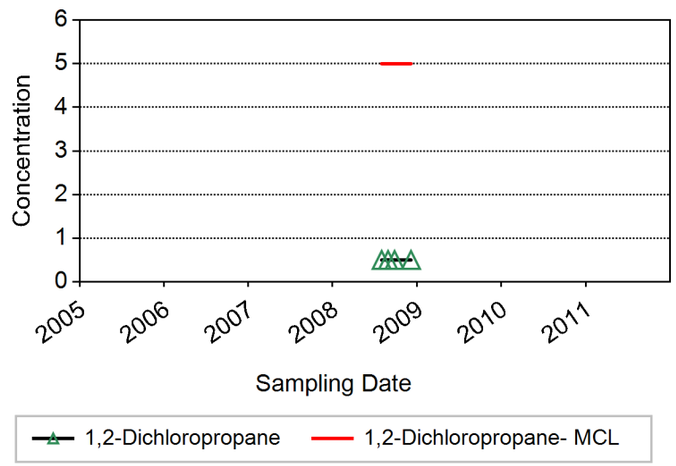
LOCATION = PC-1C
MAXIMUM = ND
MCL = 5.0 (µg/L)



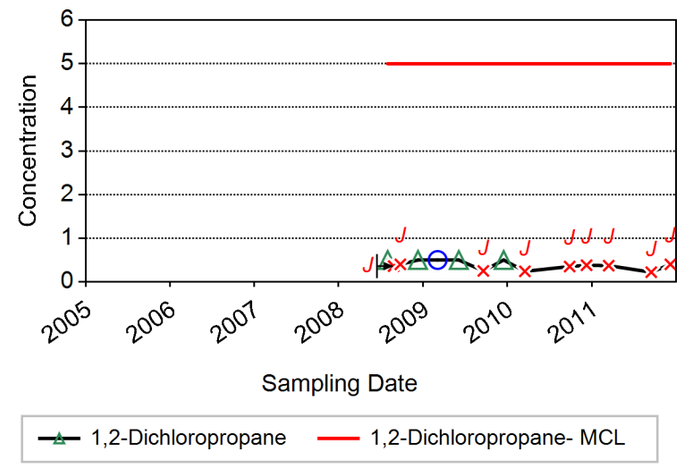
LOCATION = OW-9A
MAXIMUM = 4.1 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = PC-1B
MAXIMUM = ND
MCL = 5.0 (µg/L)



LOCATION = PC-2B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



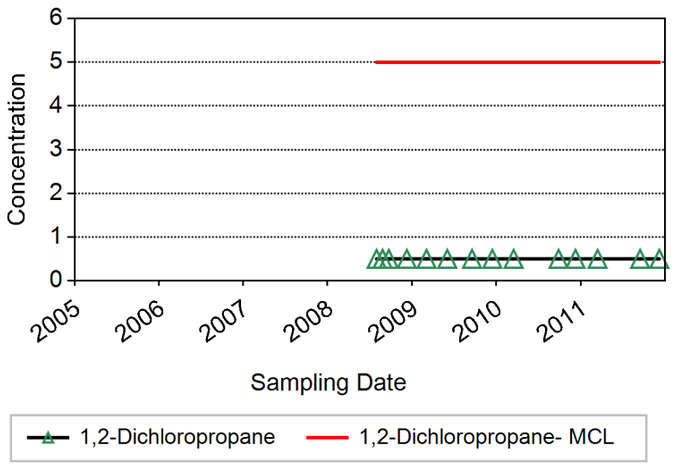
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

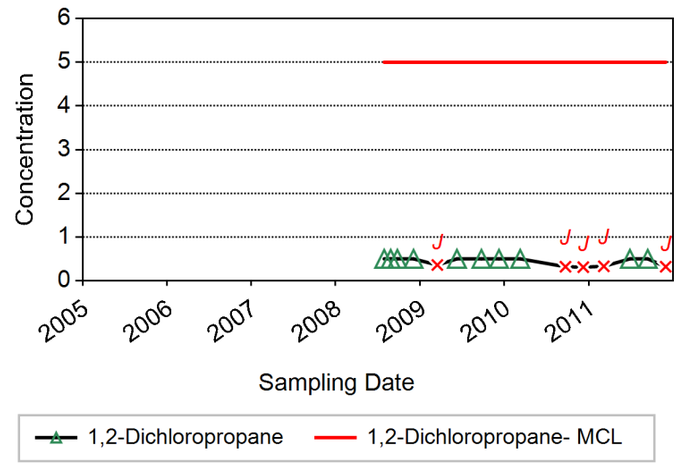
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

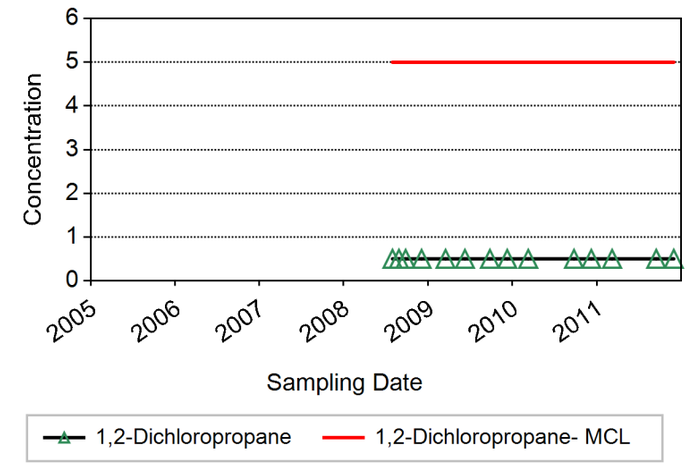
LOCATION = PC-2C
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



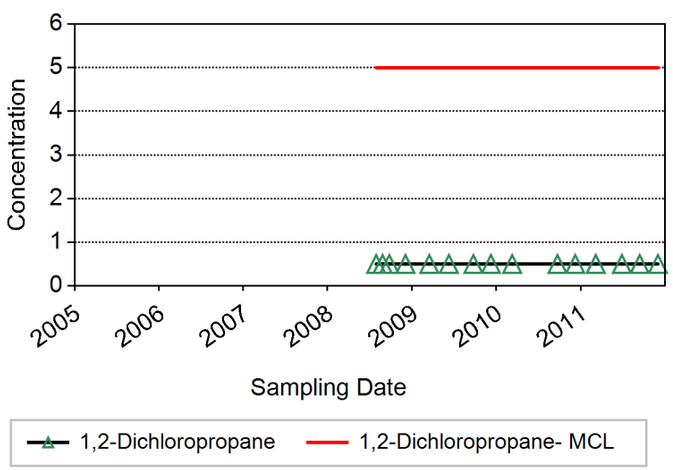
LOCATION = PW-1B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



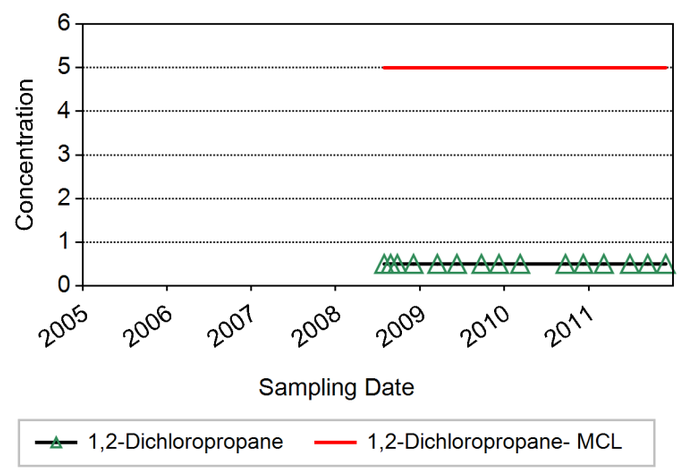
LOCATION = PW-2A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



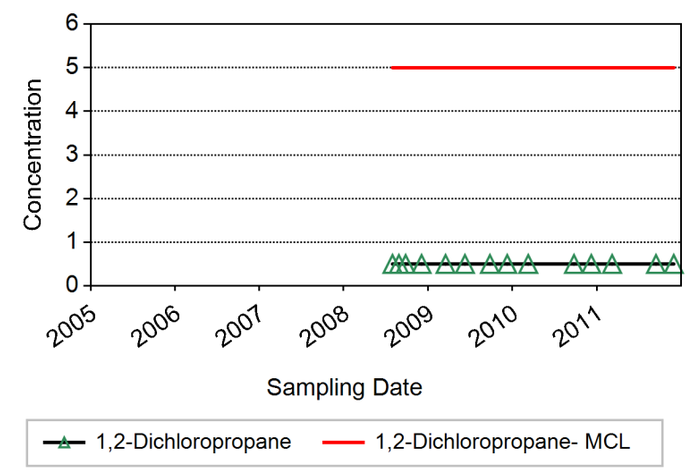
LOCATION = PW-1A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = PW-1C
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = PW-2B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



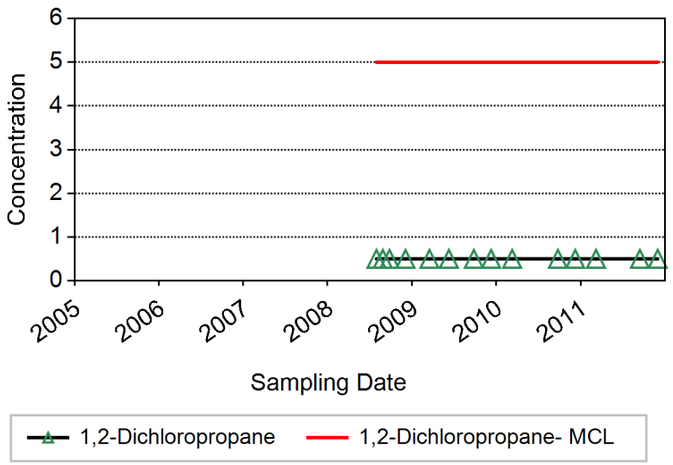
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

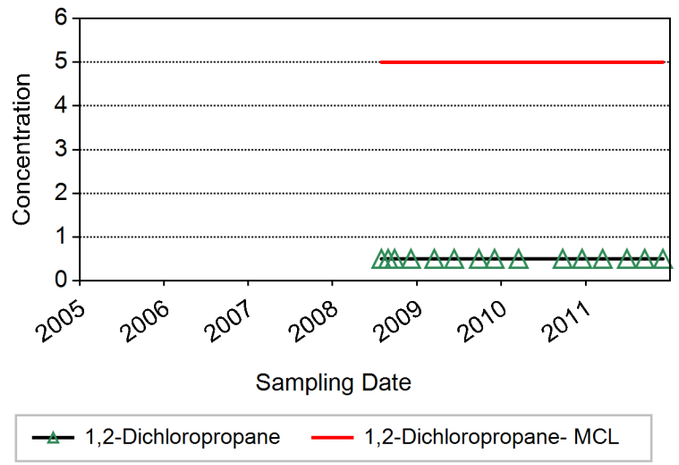
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

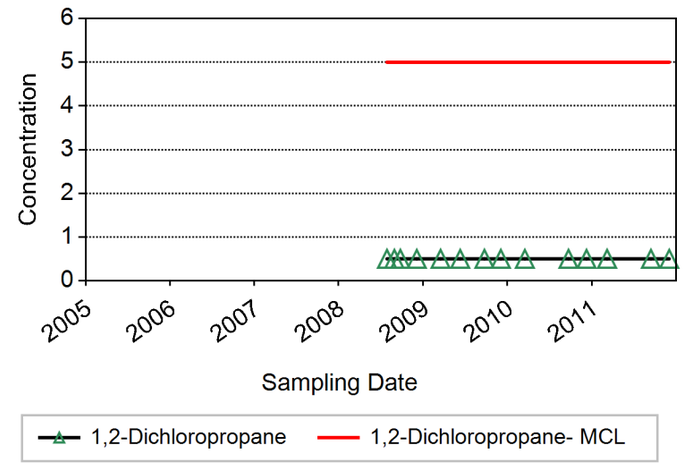
LOCATION = PW-2C
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



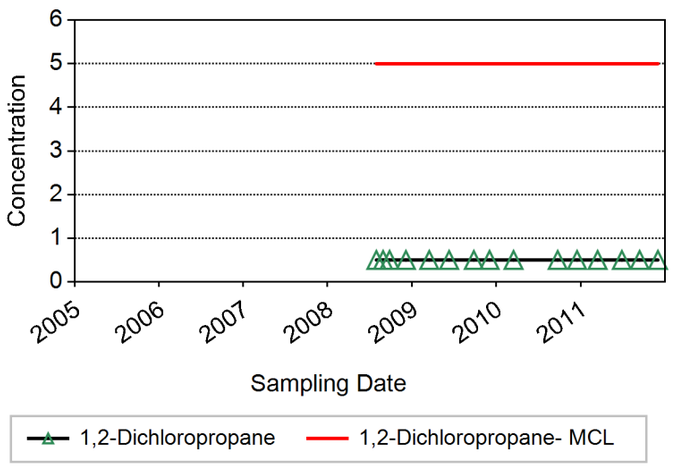
LOCATION = PW-3B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



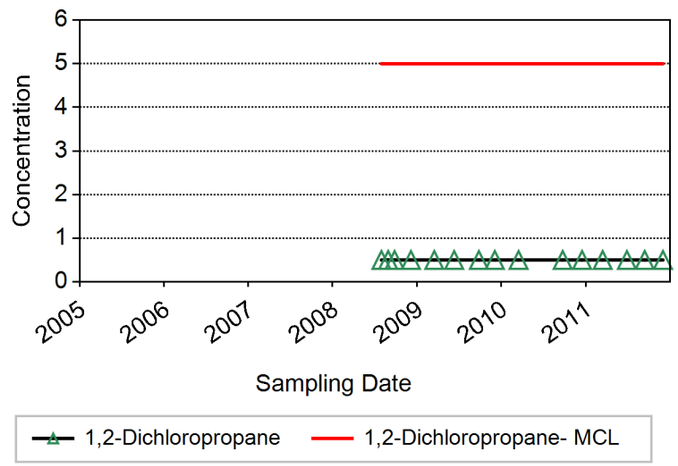
LOCATION = PW-4A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



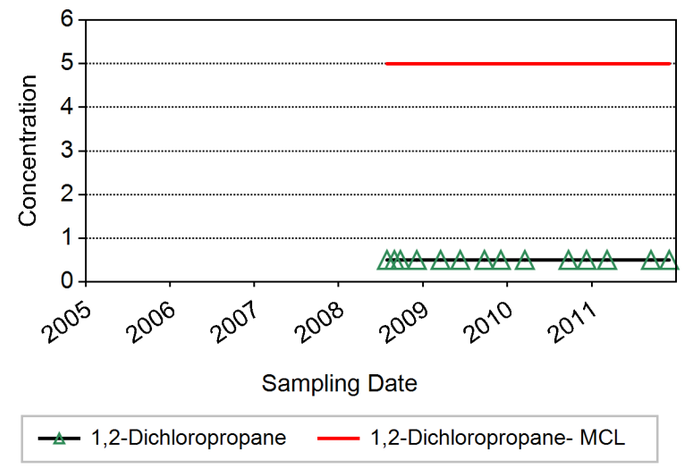
LOCATION = PW-3A
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = PW-3C
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = PW-4B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



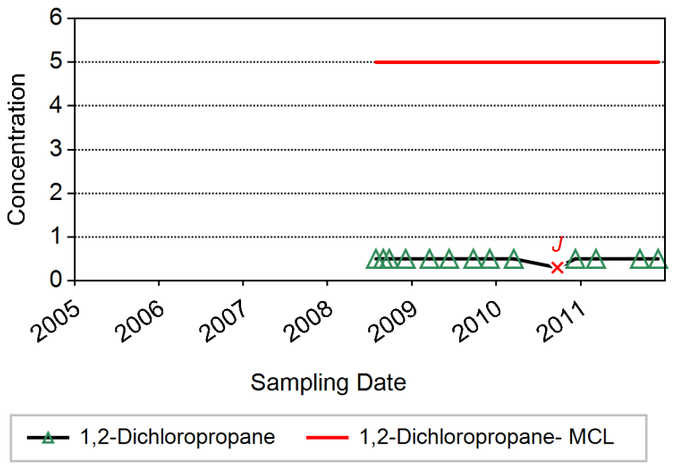
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

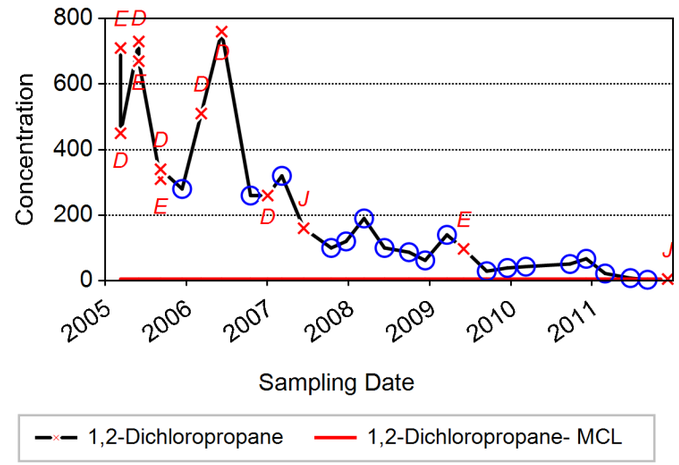
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

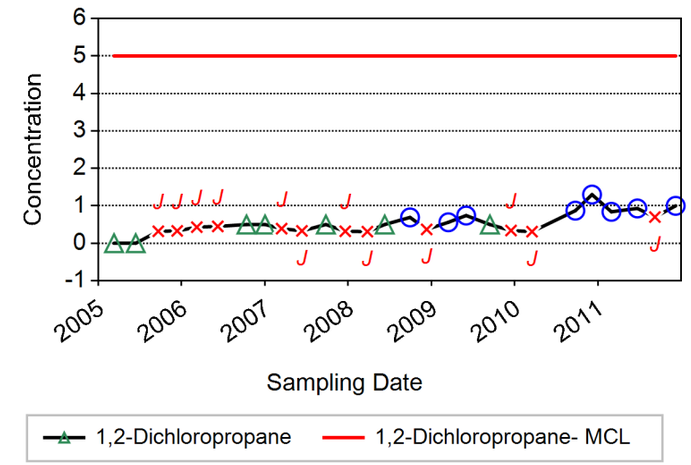
LOCATION = PW-4C
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



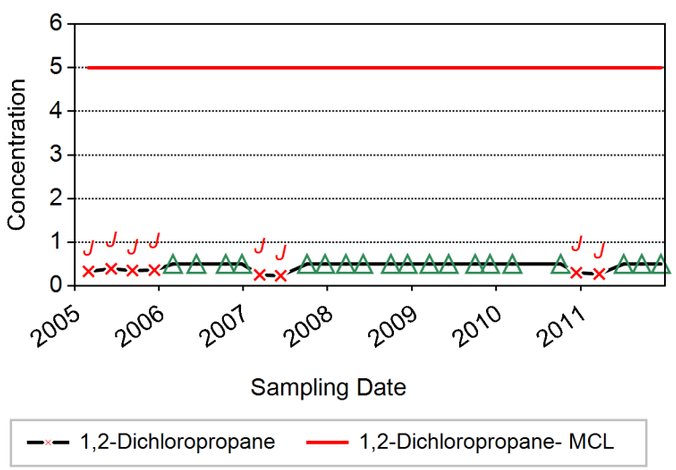
LOCATION = X-1A
MAXIMUM = 97.0 (µg/L)
MCL = 5.0 (µg/L)



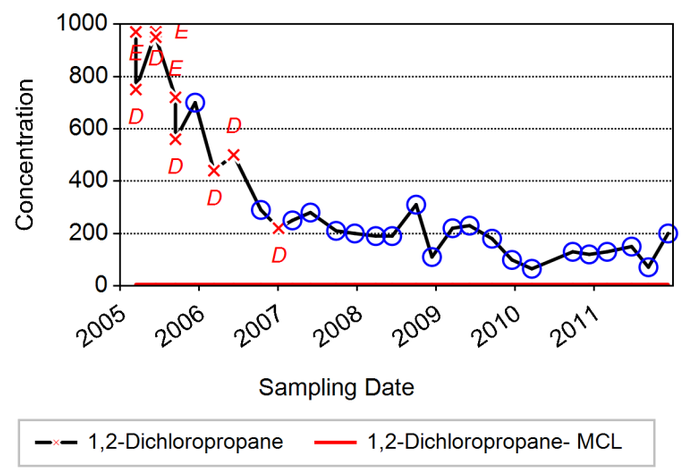
LOCATION = X-1C
MAXIMUM = 1.3 (µg/L)
MCL = 5.0 (µg/L)



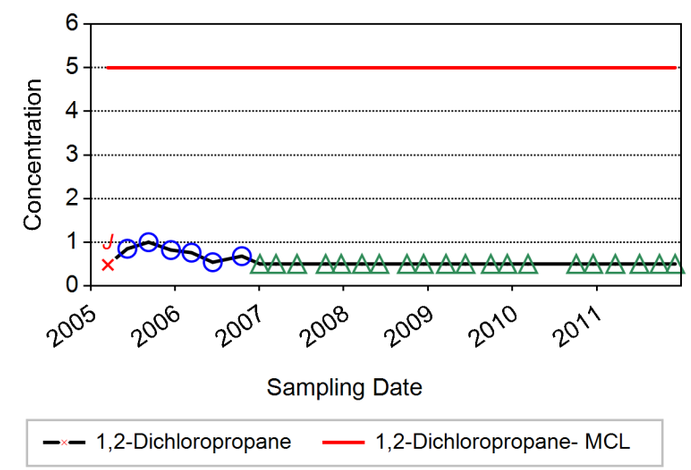
LOCATION = X-10B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = X-1B
MAXIMUM = 99.0 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = X-2A
MAXIMUM = 1.0 (µg/L)
MCL = 5.0 (µg/L)



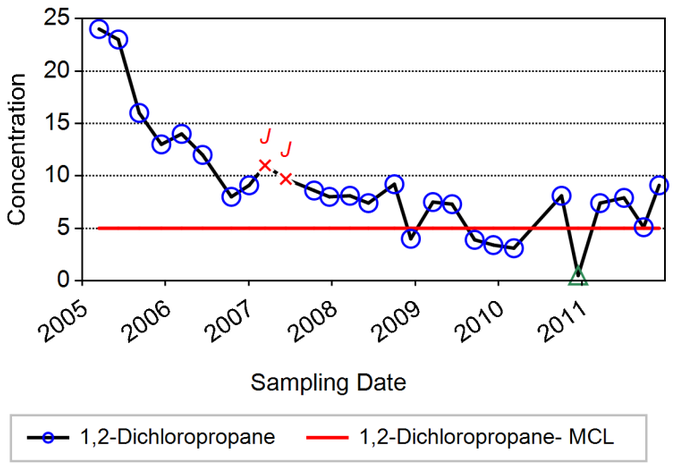
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

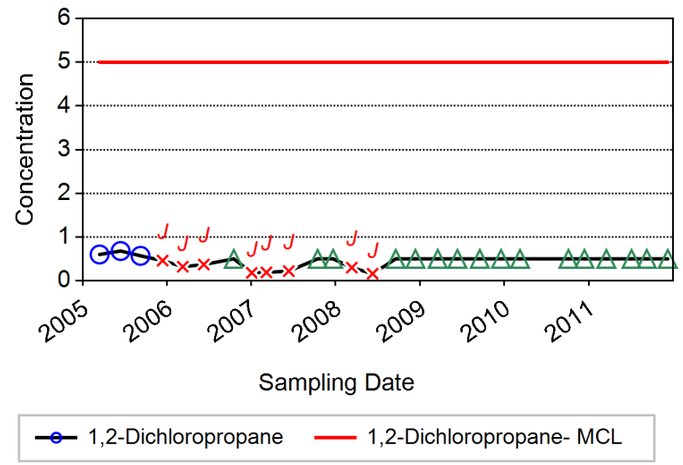
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
o = DETECTED
x = FLAGGED DATA

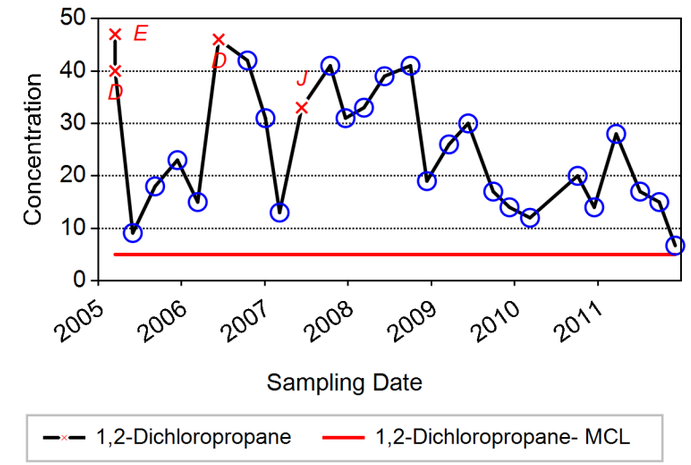
LOCATION = X-2B
MAXIMUM = 9.7 (µg/L)
MCL = 5.0 (µg/L)



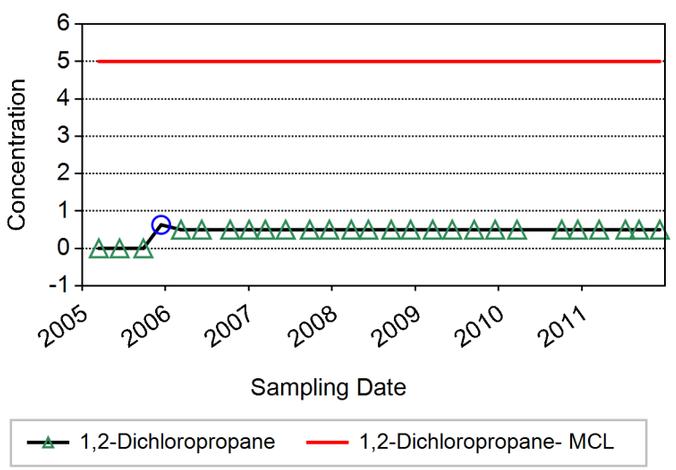
LOCATION = X-3B
MAXIMUM = 0.68 (µg/L)
MCL = 5.0 (µg/L)



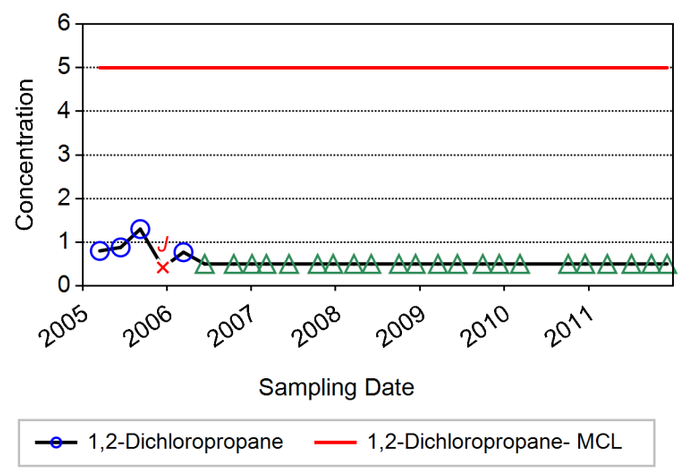
LOCATION = X-4B
MAXIMUM = 9.1 (µg/L)
MCL = 5.0 (µg/L)



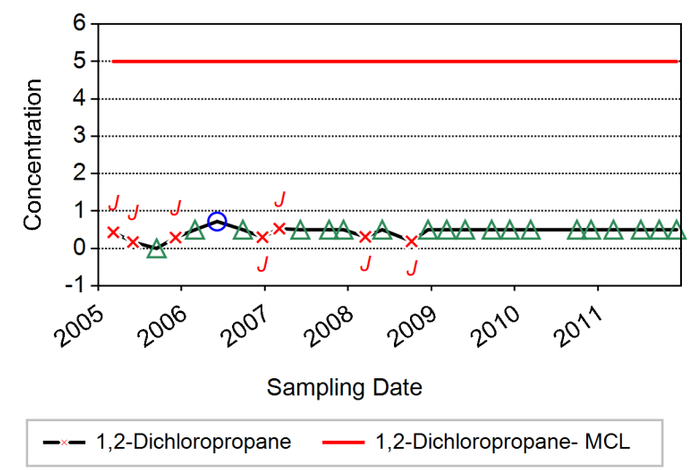
LOCATION = X-3A
MAXIMUM = 0.63 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = X-4A
MAXIMUM = 1.3 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = X-5A
MAXIMUM = 0.72 (µg/L)
MCL = 5.0 (µg/L)



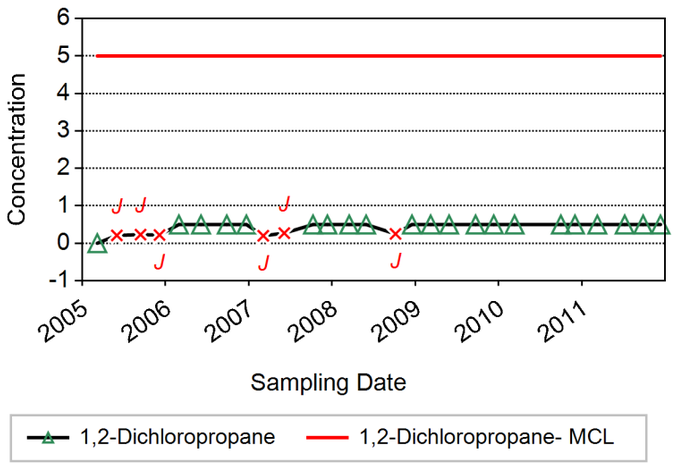
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

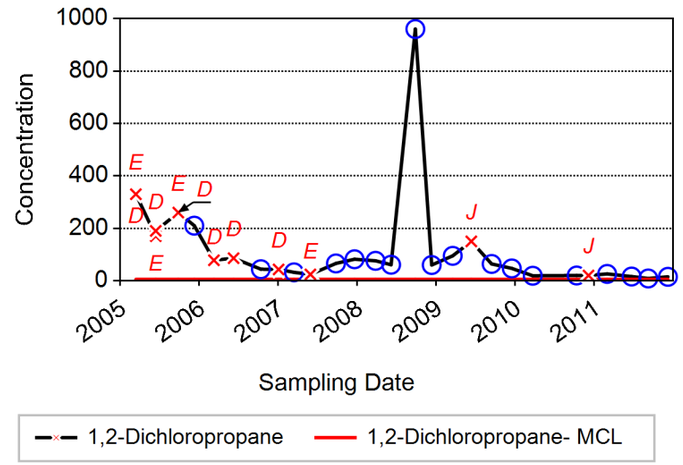
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

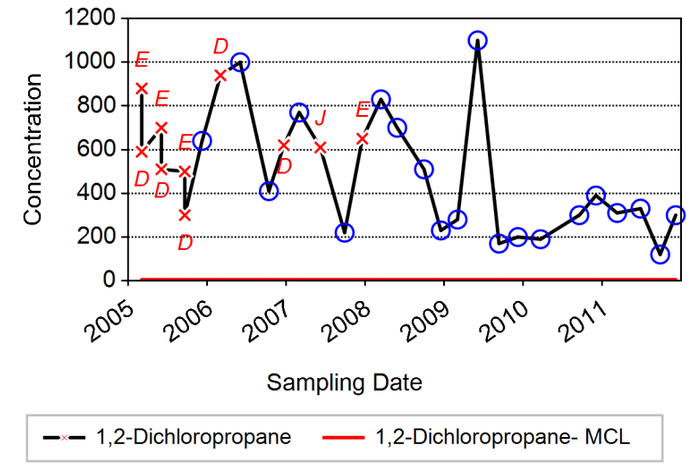
LOCATION = X-5B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



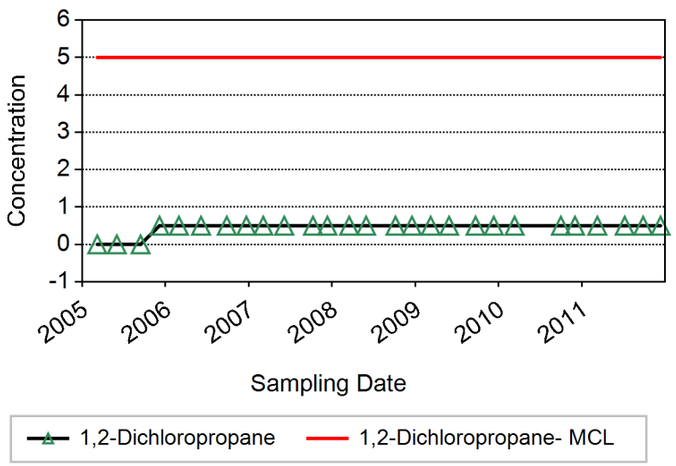
LOCATION = X-6A
MAXIMUM = 960 (µg/L)
MCL = 5.0 (µg/L)



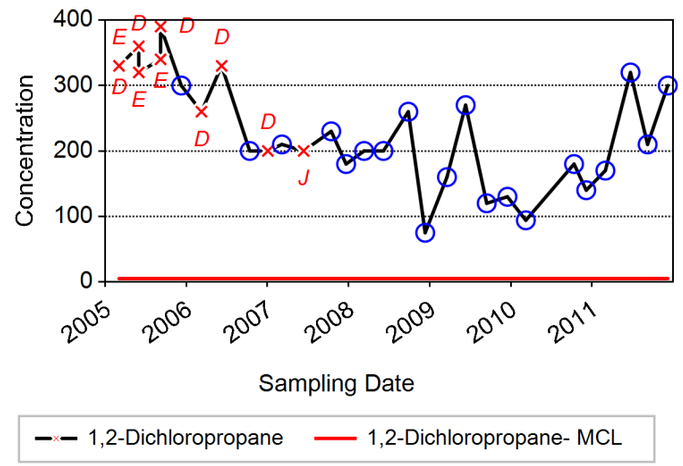
LOCATION = X-7B
MAXIMUM = 940 (µg/L)
MCL = 5.0 (µg/L)



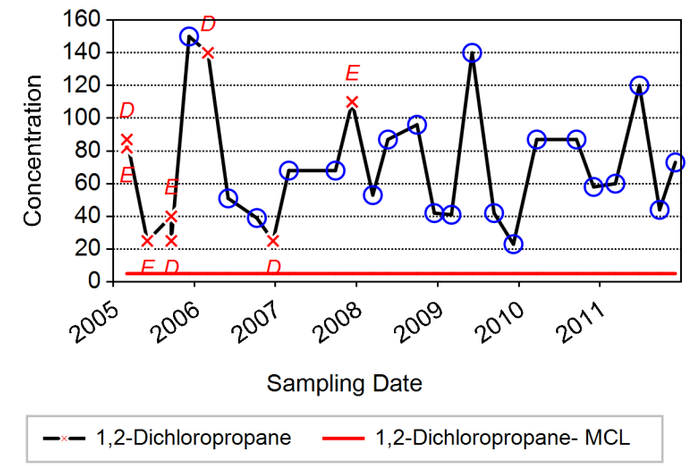
LOCATION = X-5C
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = X-6B
MAXIMUM = 94.0 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = X-7C
MAXIMUM = 96.0 (µg/L)
MCL = 5.0 (µg/L)



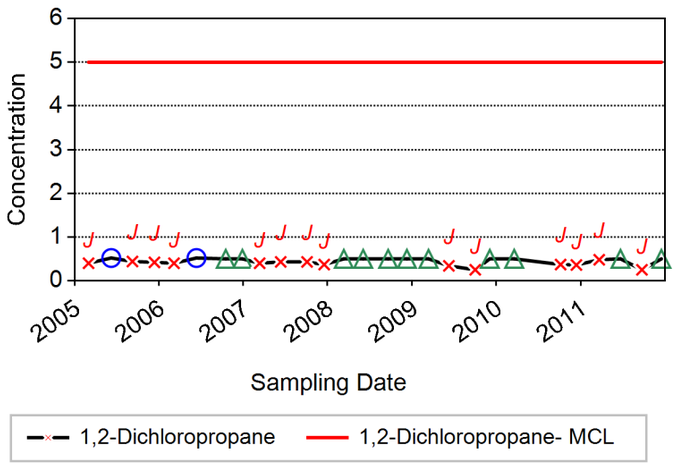
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

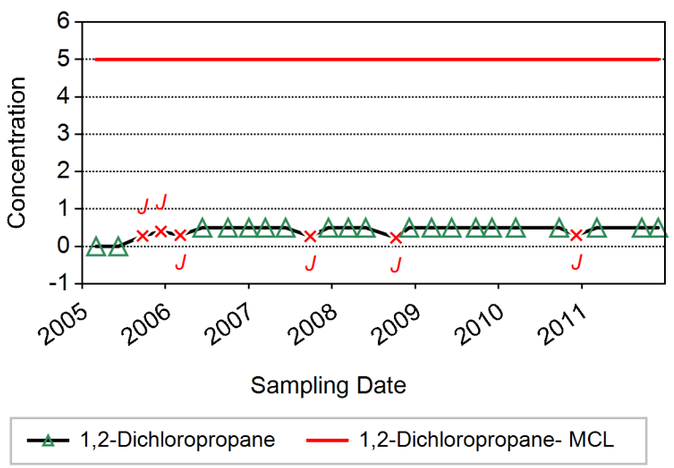
Figure B-2 Chemical Time Series Plot - 1,2-Dichloropropane (DCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

LOCATION = X-8B
MAXIMUM = 0.52 (µg/L)
MCL = 5.0 (µg/L)



LOCATION = X-9B
MAXIMUM = 0.50 (µg/L)
MCL = 5.0 (µg/L)



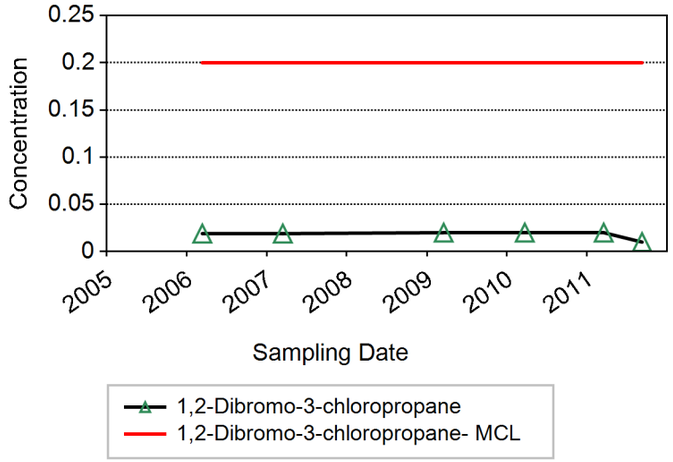
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

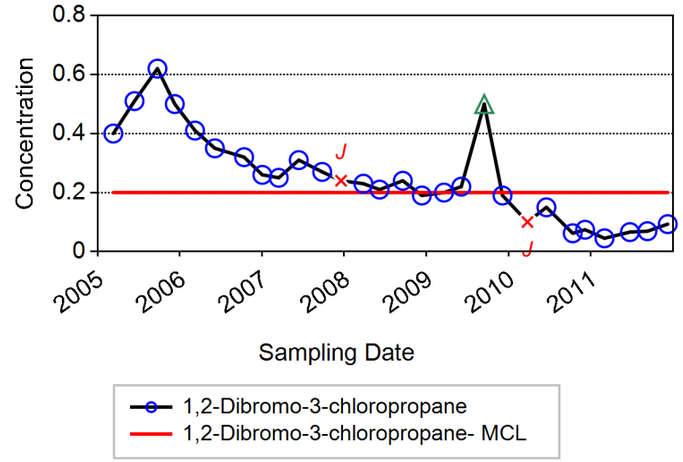
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

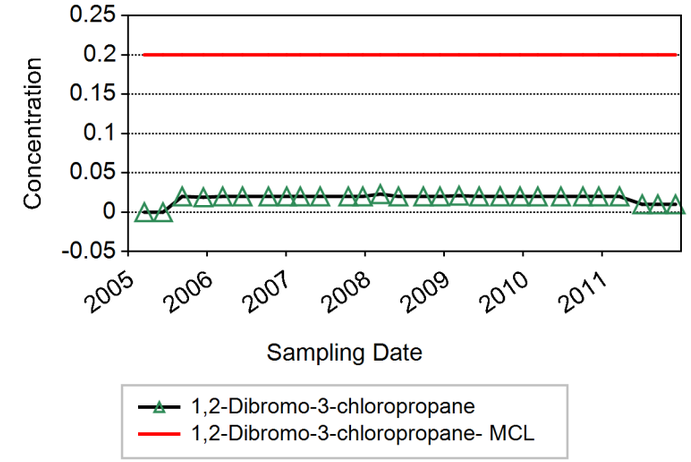
LOCATION = AW-1
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



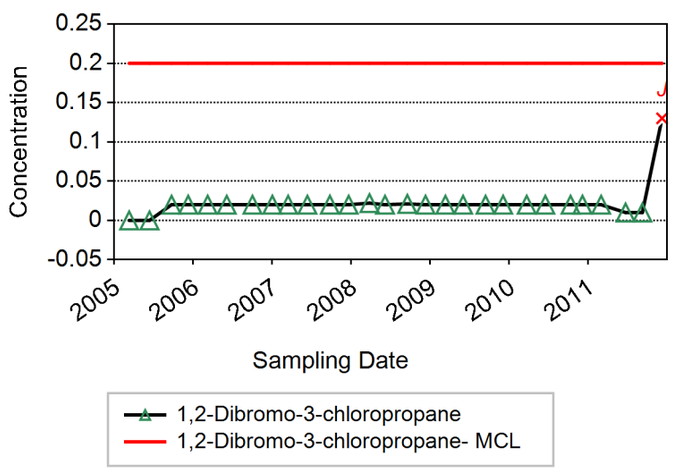
LOCATION = AW-2B
MAXIMUM = 0.62 (µg/L)
MCL = 0.20 (µg/L)



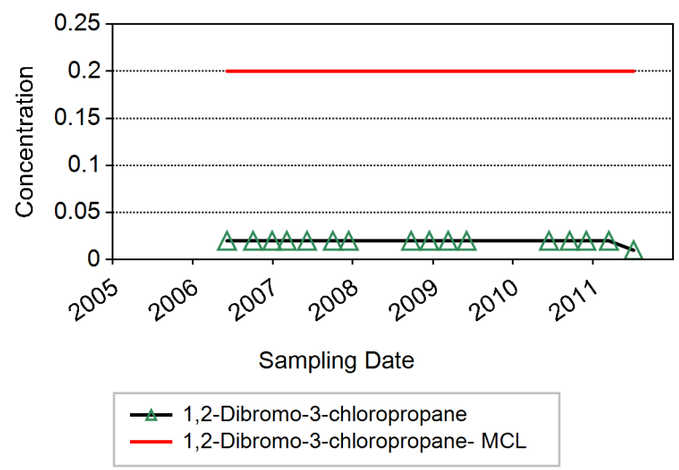
LOCATION = MW-11A
MAXIMUM = 0.023 (µg/L)
MCL = 0.20 (µg/L)



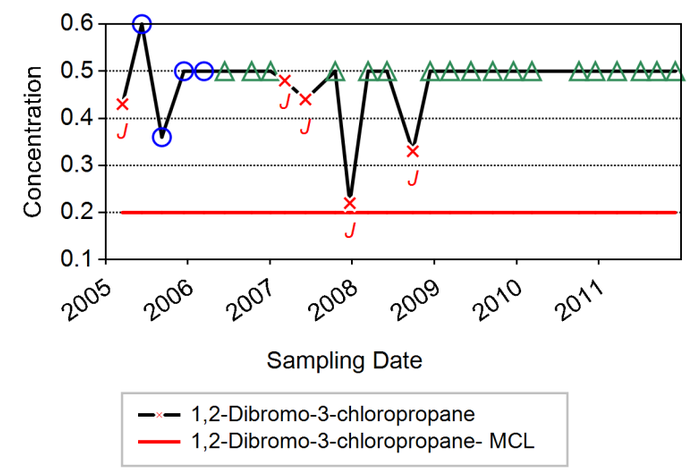
LOCATION = AW-2A
MAXIMUM = 0.13 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = CityWell29
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = MW-11B
MAXIMUM = 0.60 (µg/L)
MCL = 0.20 (µg/L)



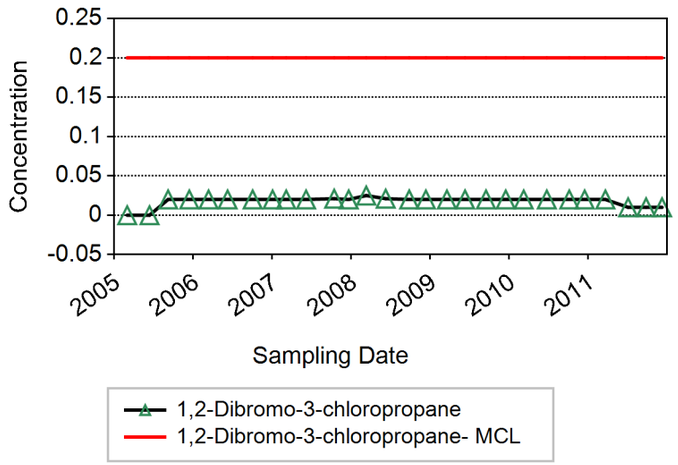
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

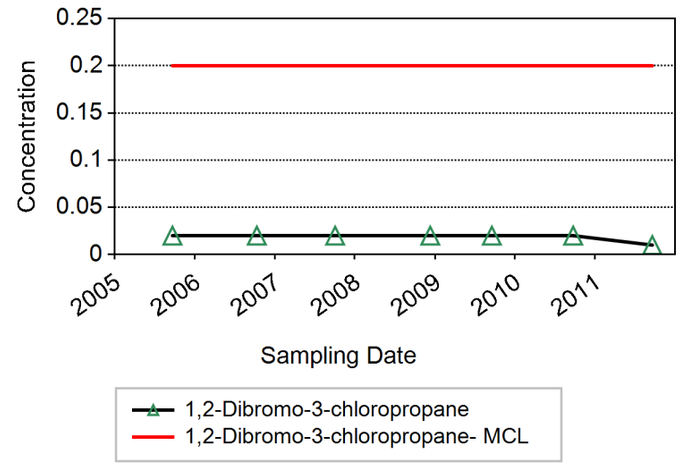
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

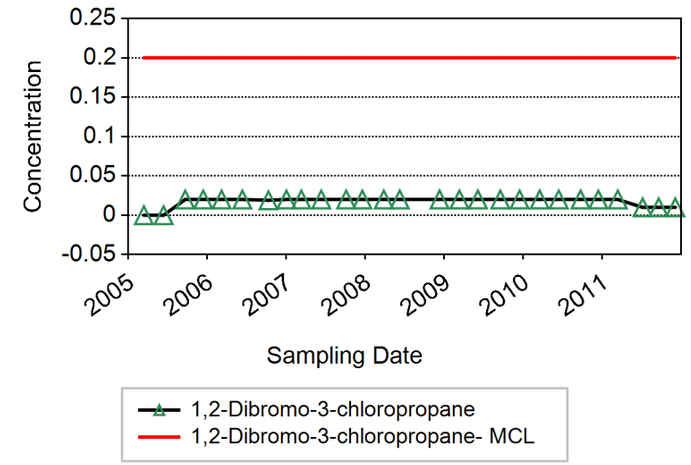
LOCATION = MW-12A
MAXIMUM = 0.025 (µg/L)
MCL = 0.20 (µg/L)



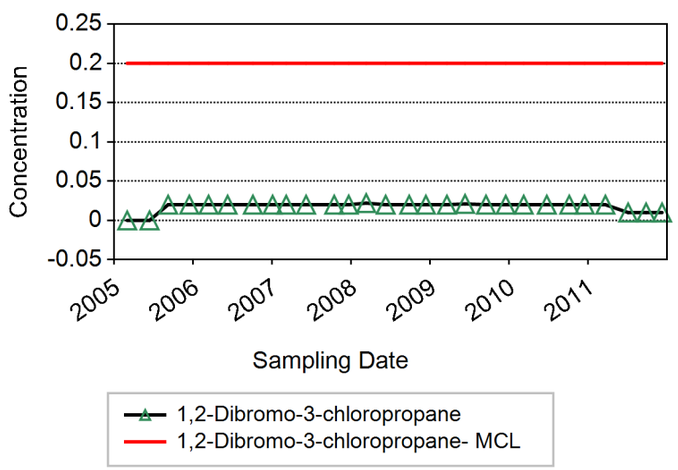
LOCATION = MW-13A
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



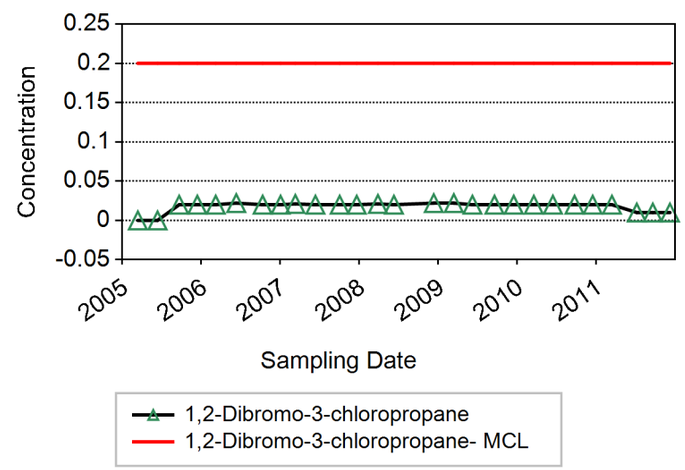
LOCATION = MW-13C
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



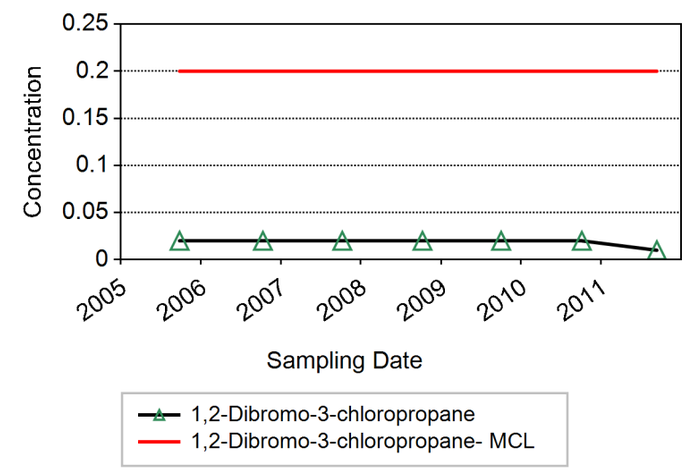
LOCATION = MW-12B
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = MW-13B
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = MW-3A
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



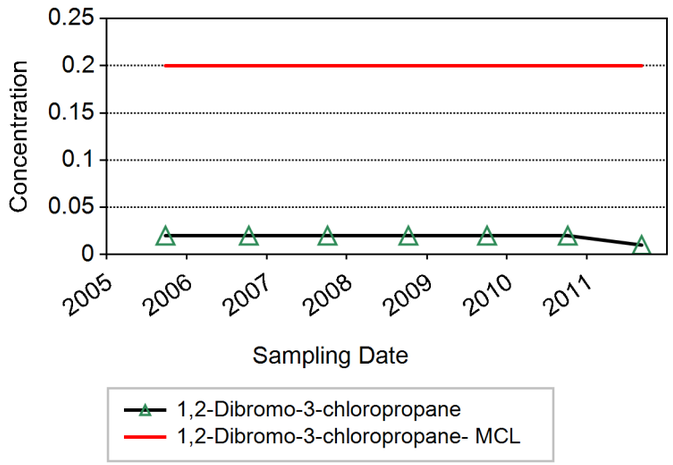
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

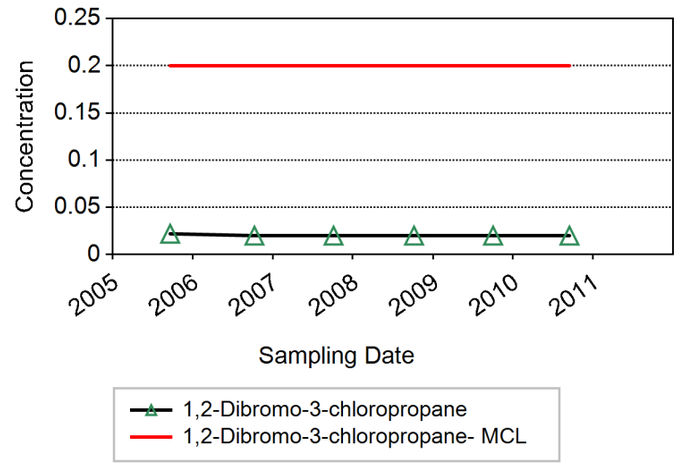
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

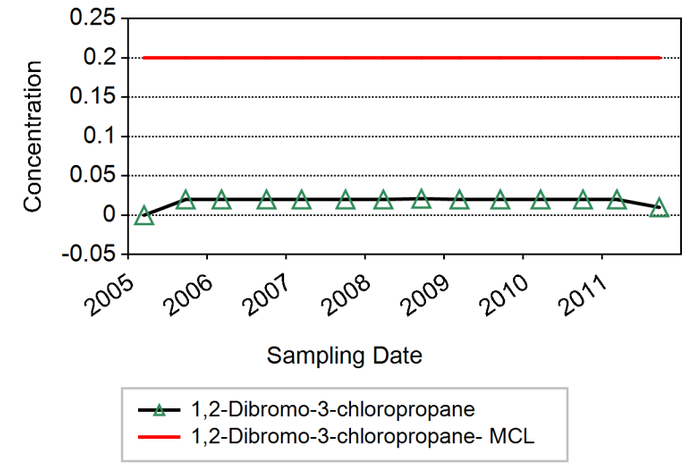
LOCATION = MW-3B
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



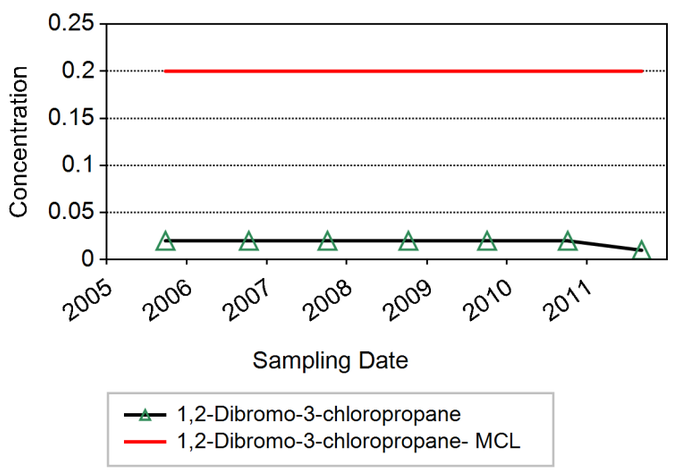
LOCATION = MW-4C
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



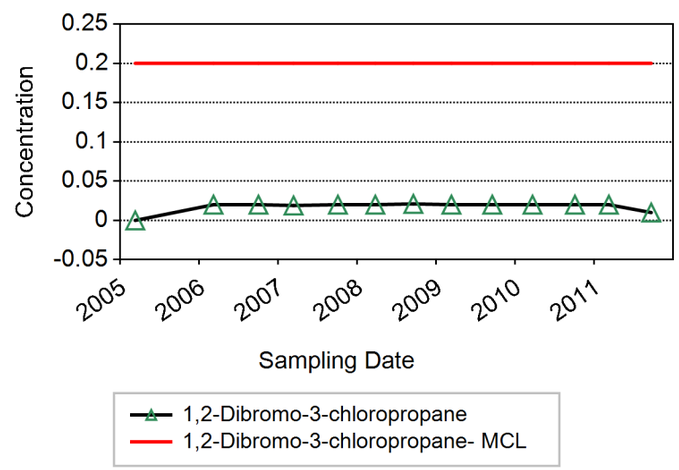
LOCATION = MW-5B
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



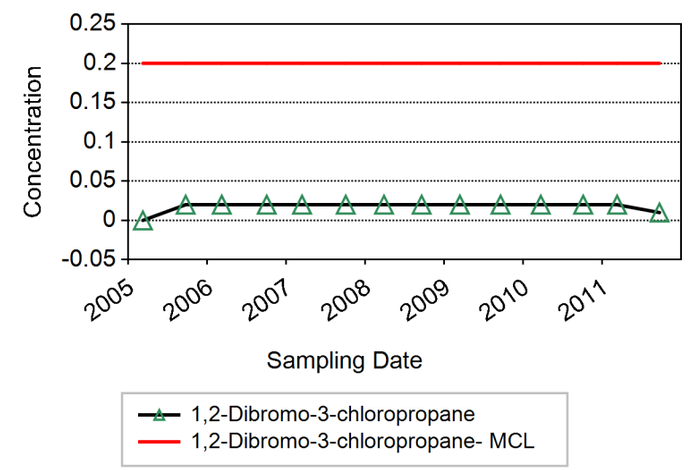
LOCATION = MW-3C
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = MW-5A
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = MW-5C
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



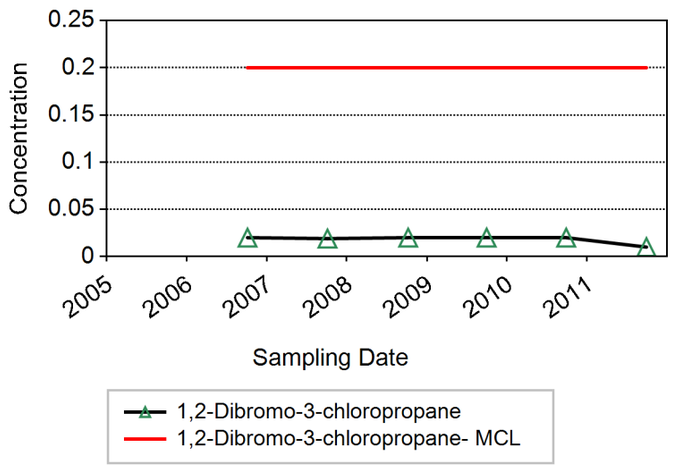
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

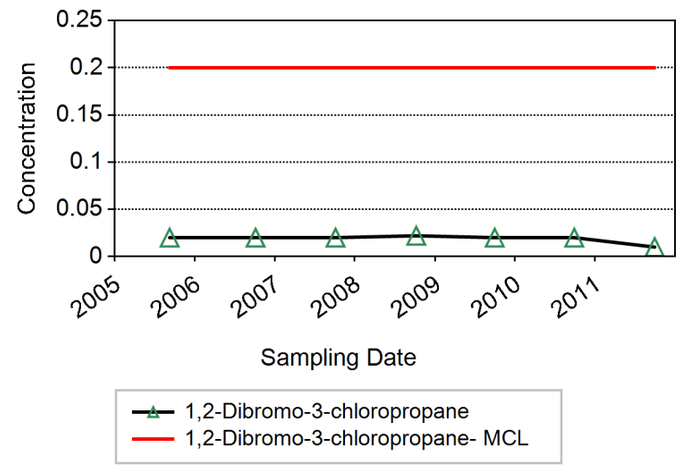
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
o = DETECTED
x = FLAGGED DATA

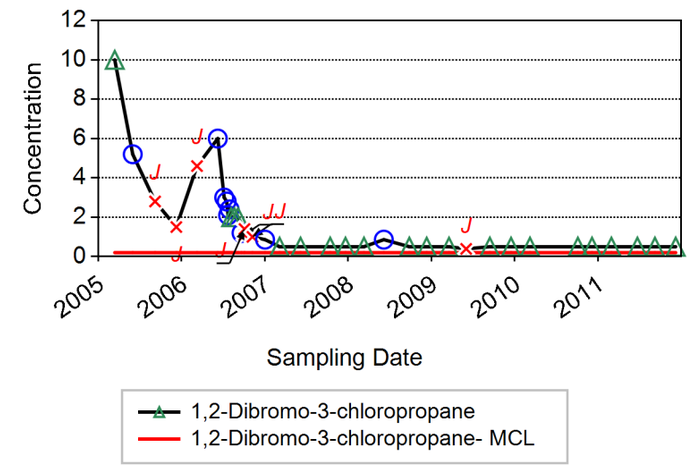
LOCATION = MW-6A
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



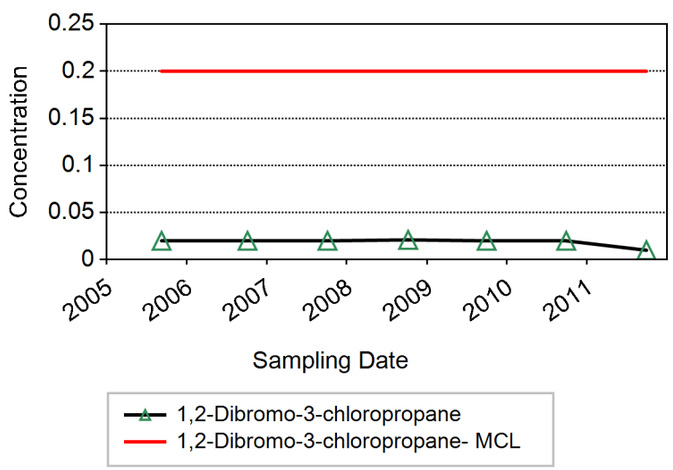
LOCATION = MW-6C
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



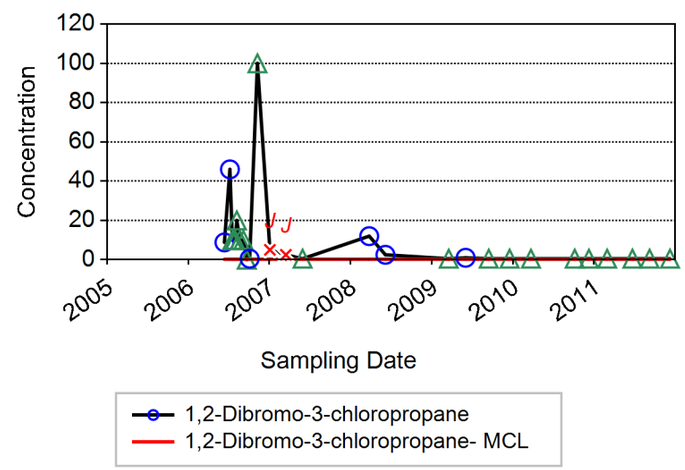
LOCATION = MW-7B
MAXIMUM = 6.0 (µg/L)
MCL = 0.20 (µg/L)



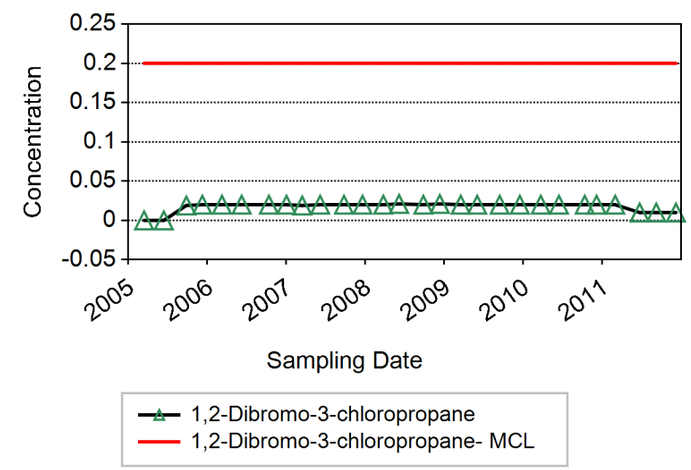
LOCATION = MW-6B
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = MW-7A
MAXIMUM = 8.8 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = MW-7D
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



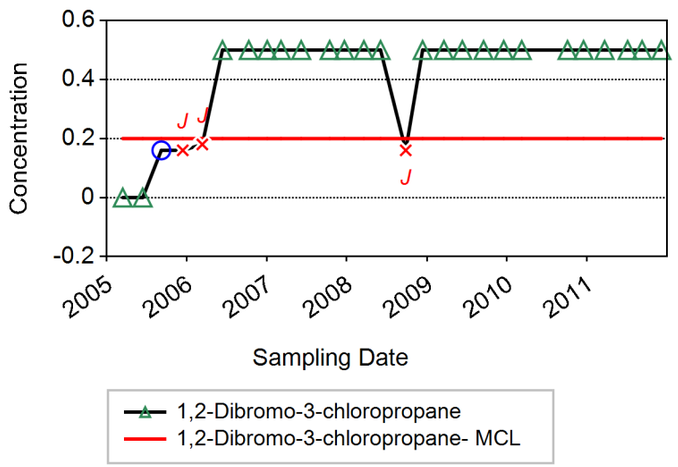
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

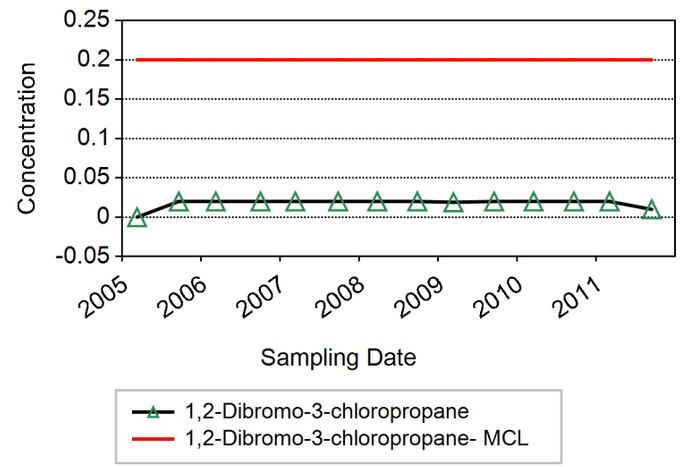
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

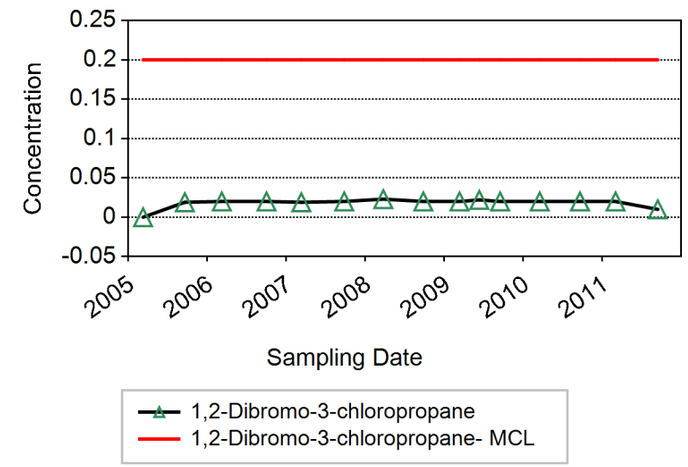
LOCATION = MW-8A
MAXIMUM = 0.50 (µg/L)
MCL = 0.20 (µg/L)



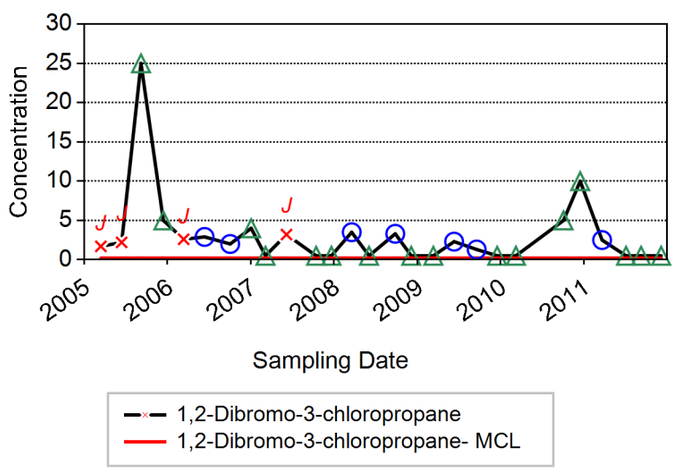
LOCATION = MW-9A
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



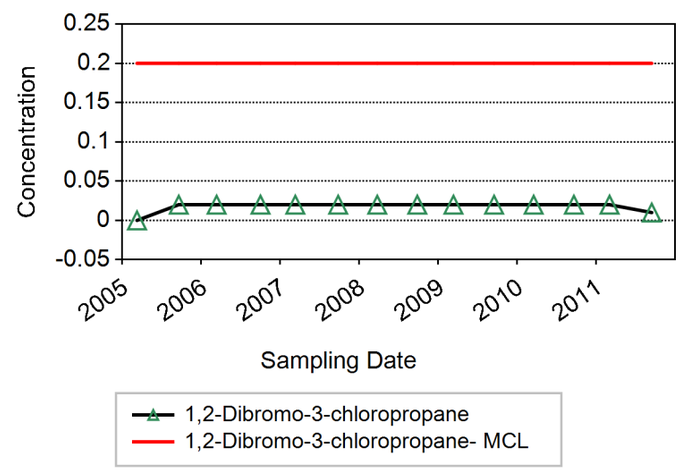
LOCATION = MW-9C
MAXIMUM = 0.023 (µg/L)
MCL = 0.20 (µg/L)



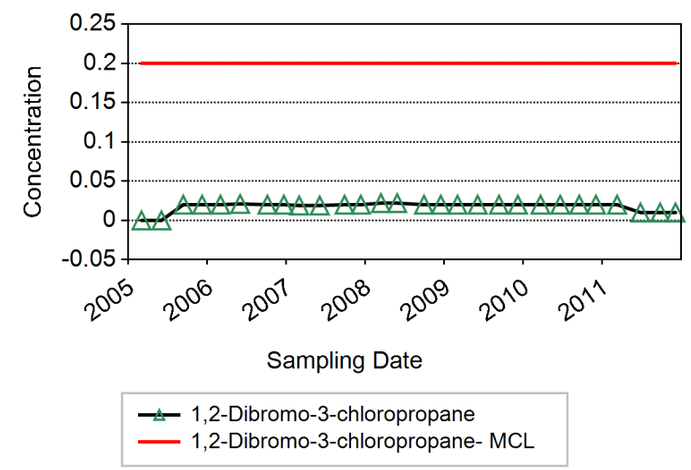
LOCATION = MW-8B
MAXIMUM = 5.0 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = MW-9B
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = OW-11A
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



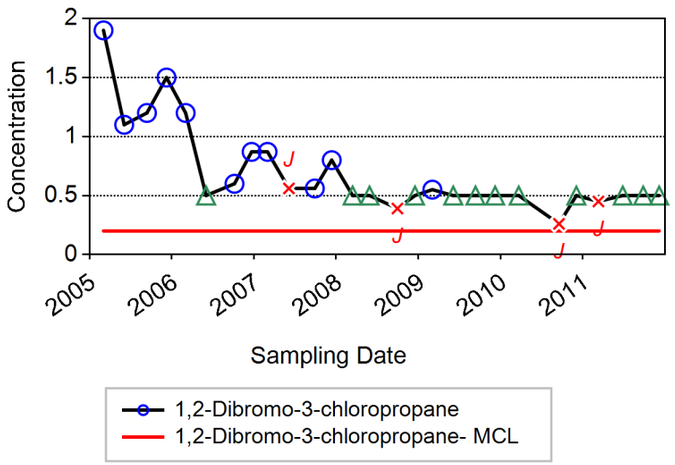
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

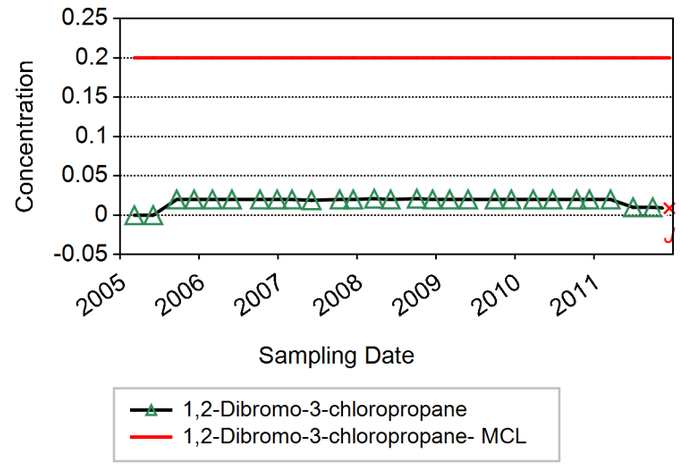
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

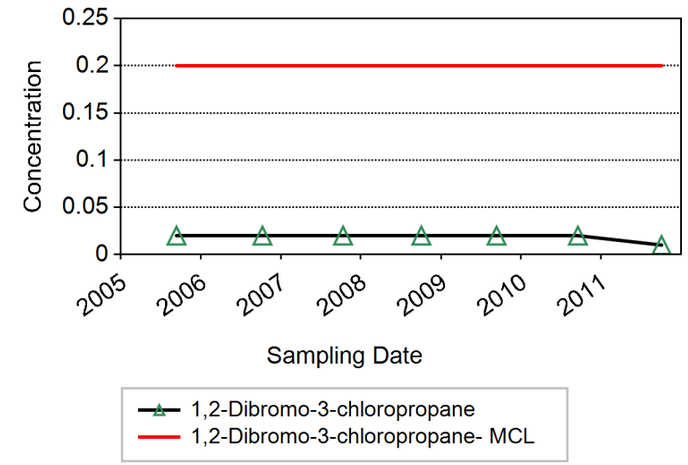
LOCATION = OW-11B
MAXIMUM = 1.9 (µg/L)
MCL = 0.20 (µg/L)



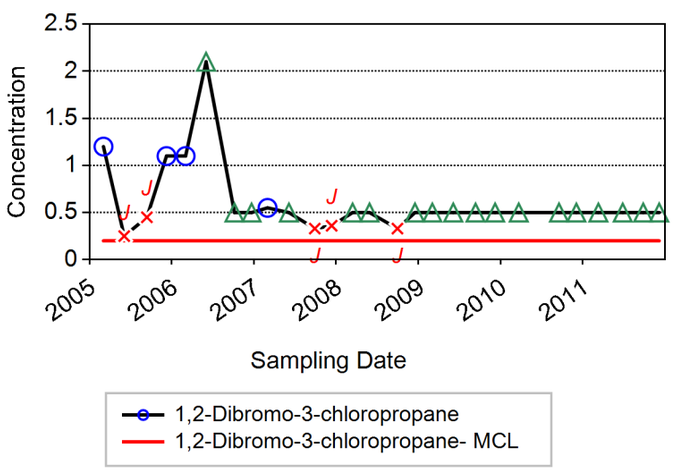
LOCATION = OW-12A
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



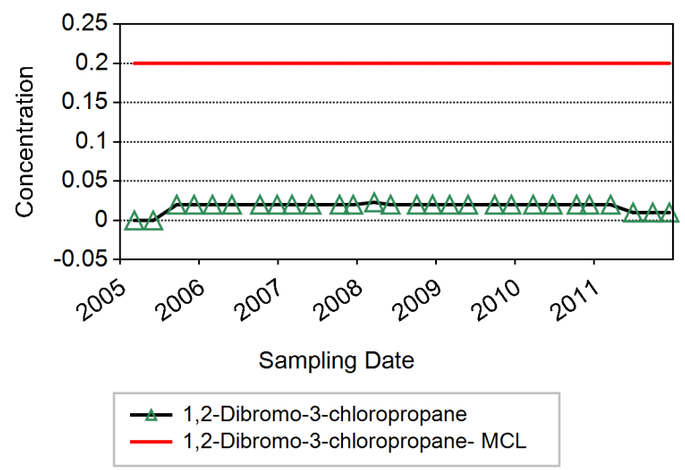
LOCATION = OW-13B
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



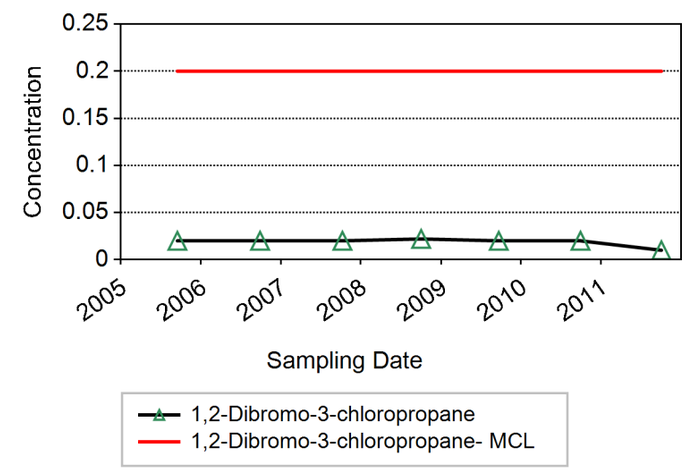
LOCATION = OW-11C
MAXIMUM = 2.1 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = OW-12B
MAXIMUM = 0.023 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = OW-14A
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



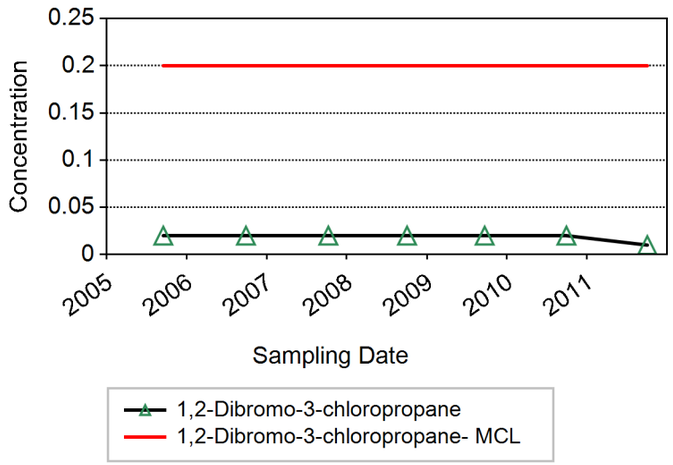
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

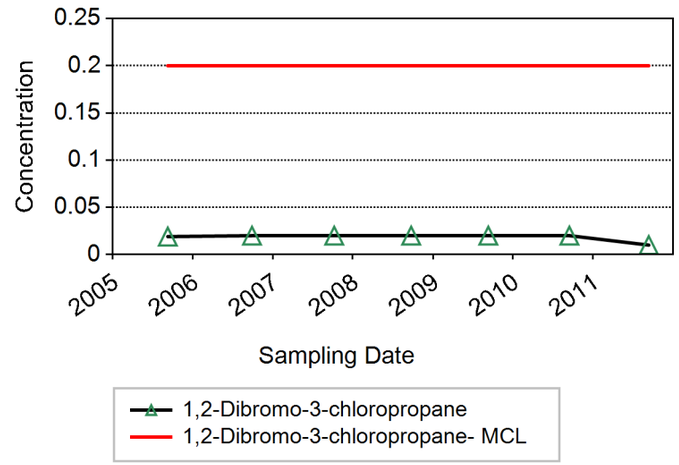
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

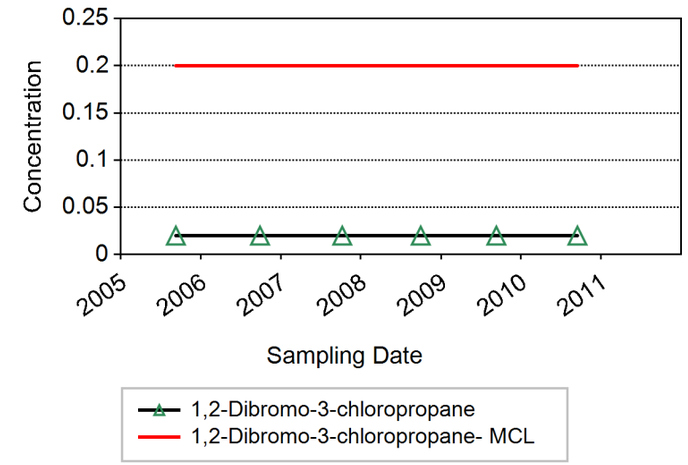
LOCATION = OW-14B
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



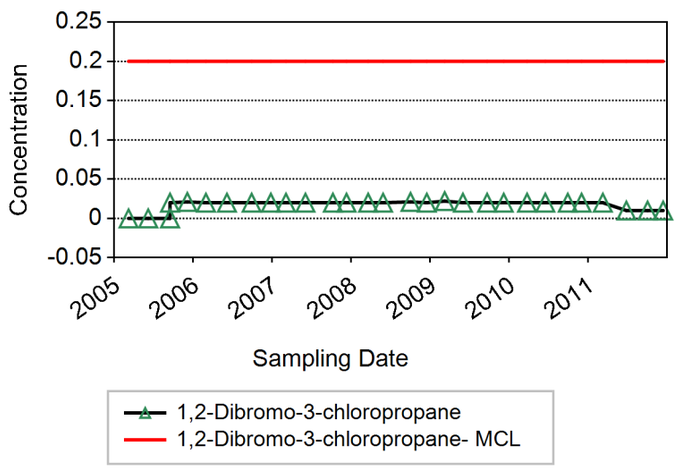
LOCATION = OW-15A
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



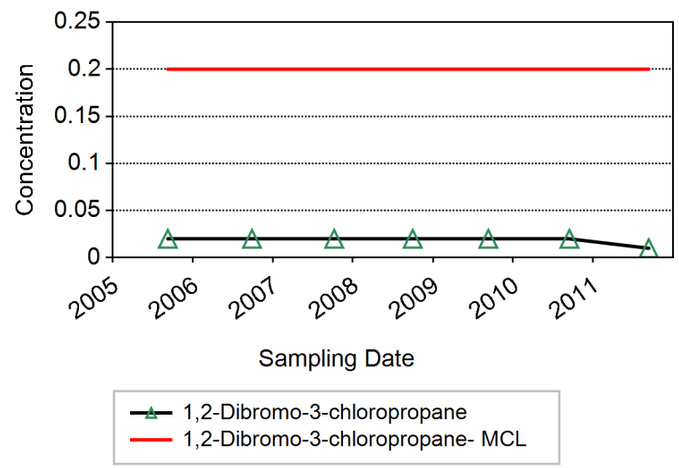
LOCATION = Ow-15C
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



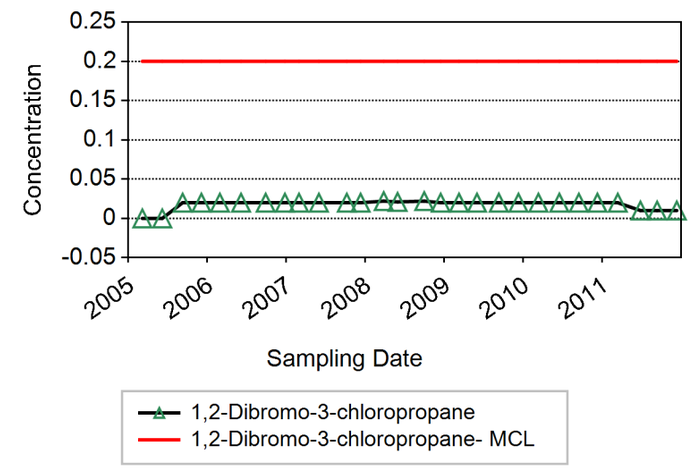
LOCATION = OW-14C
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = OW-15B
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = OW-15D
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



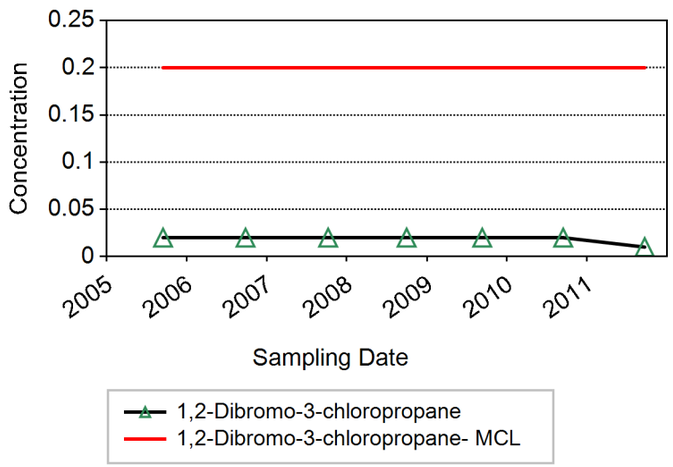
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

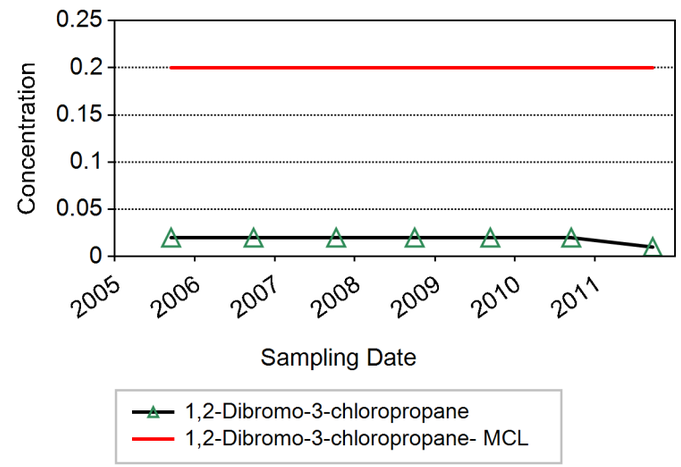
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

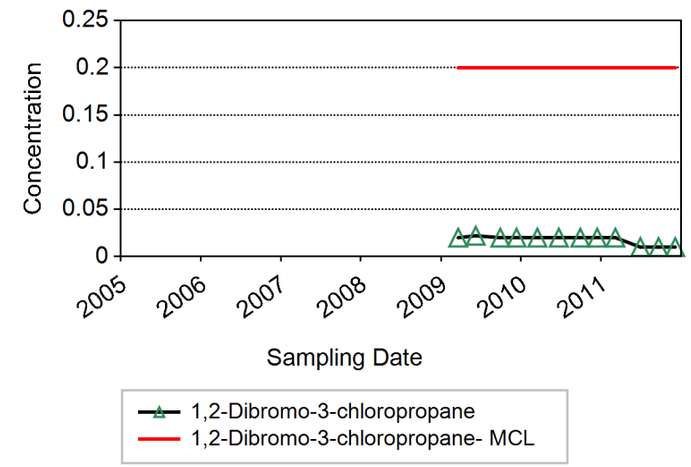
LOCATION = OW-16A
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



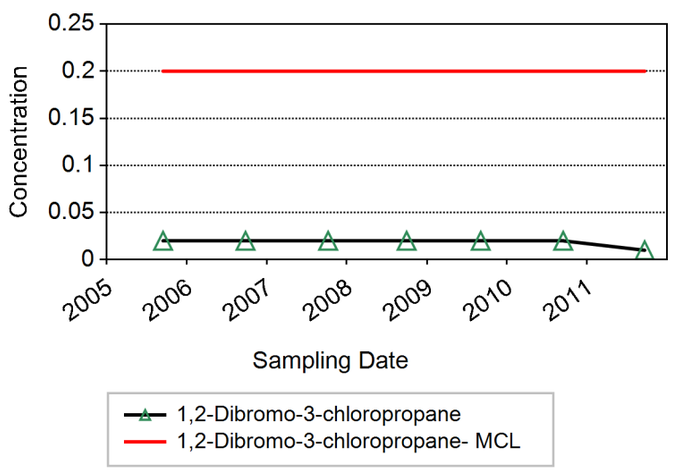
LOCATION = OW-16C
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



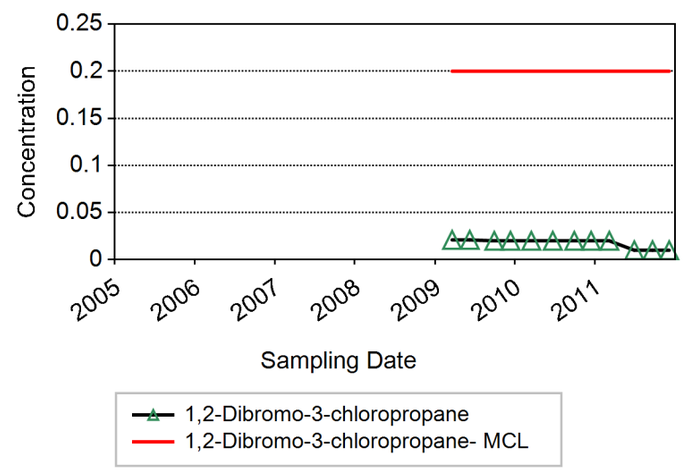
LOCATION = OW-18BR
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



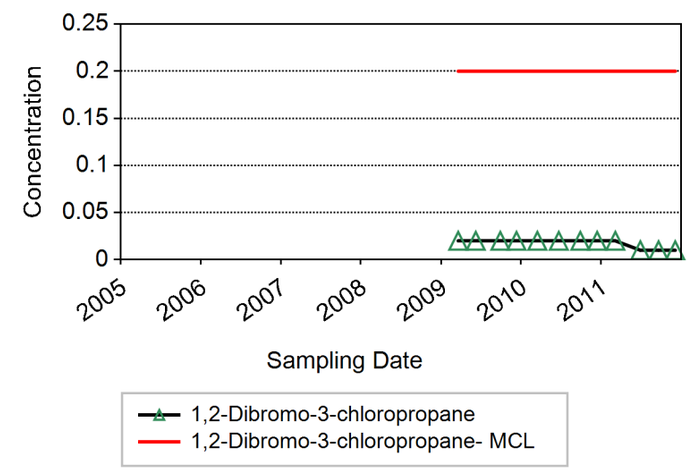
LOCATION = OW-16B
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = OW-18AR
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = OW-18CR
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



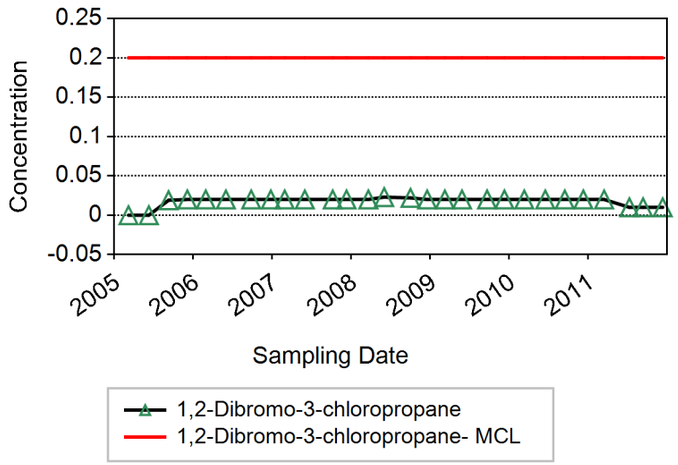
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

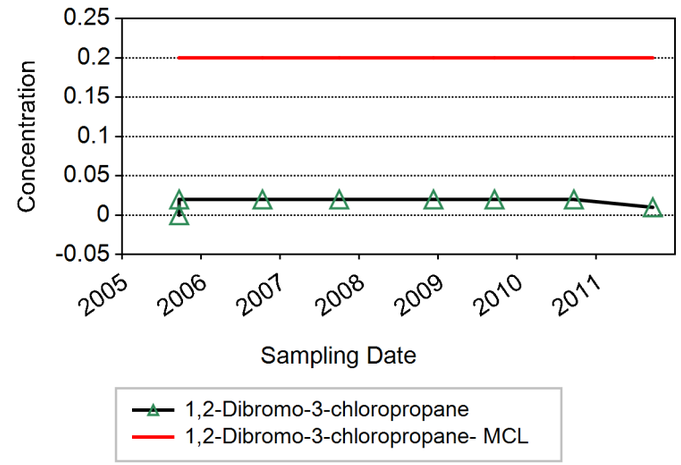
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

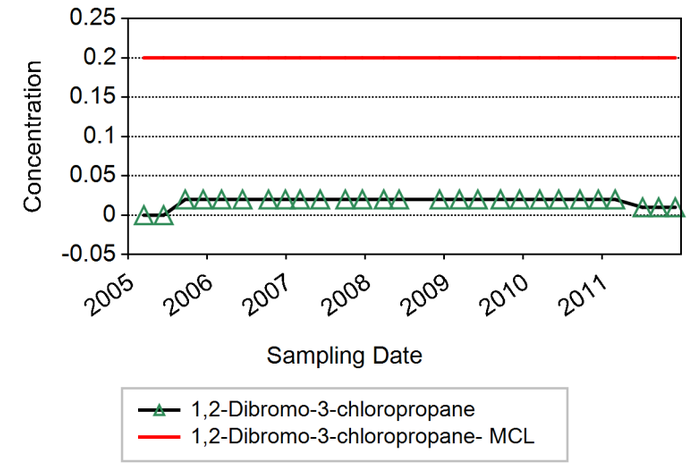
LOCATION = OW-19C
MAXIMUM = 0.023 (µg/L)
MCL = 0.20 (µg/L)



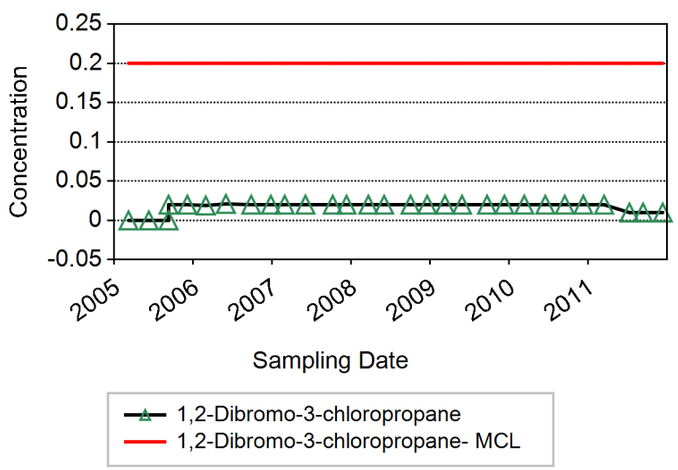
LOCATION = OW-1A
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



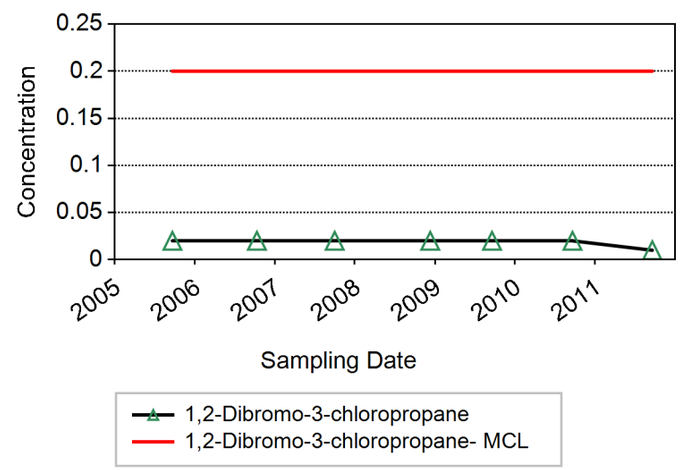
LOCATION = OW-1C
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



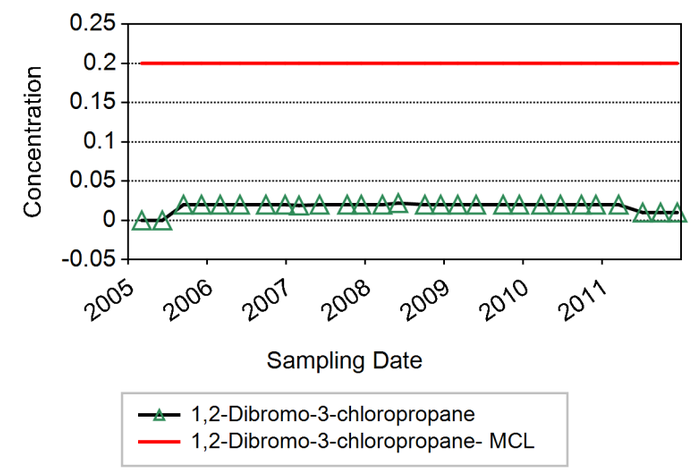
LOCATION = OW-19D
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = OW-1B
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = OW-20B
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



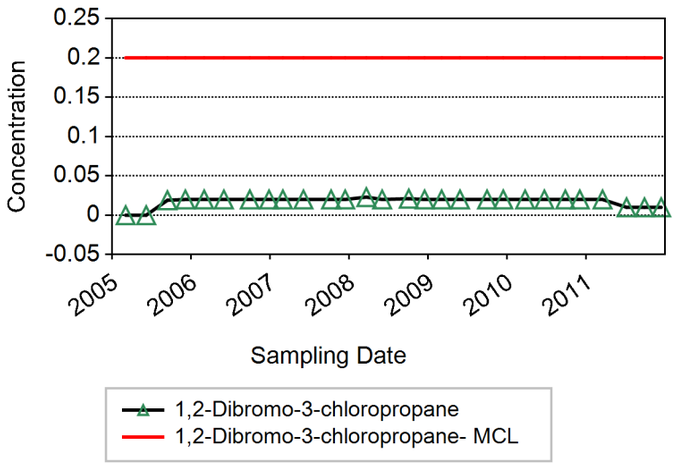
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

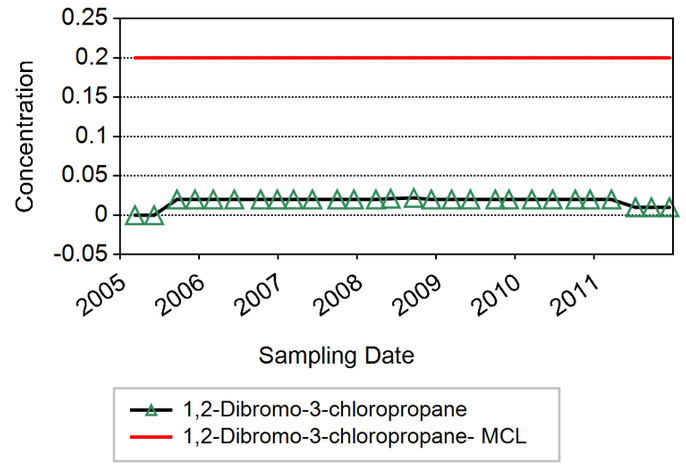
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

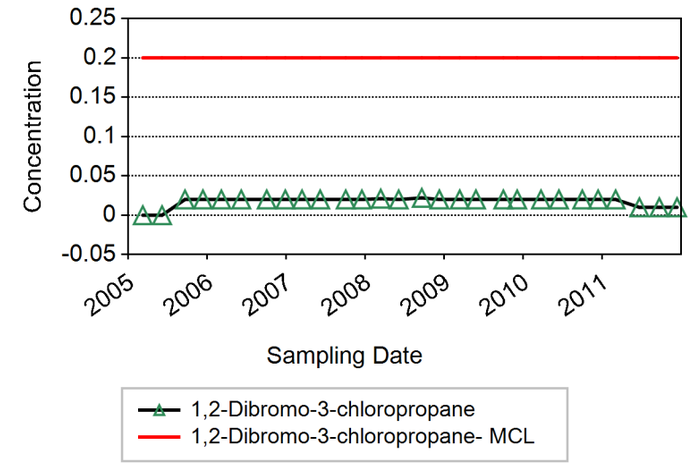
LOCATION = OW-20C
MAXIMUM = 0.023 (µg/L)
MCL = 0.20 (µg/L)



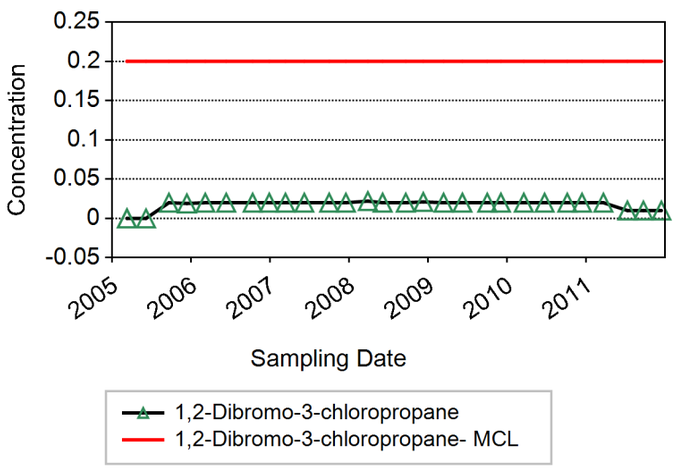
LOCATION = OW-3B
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



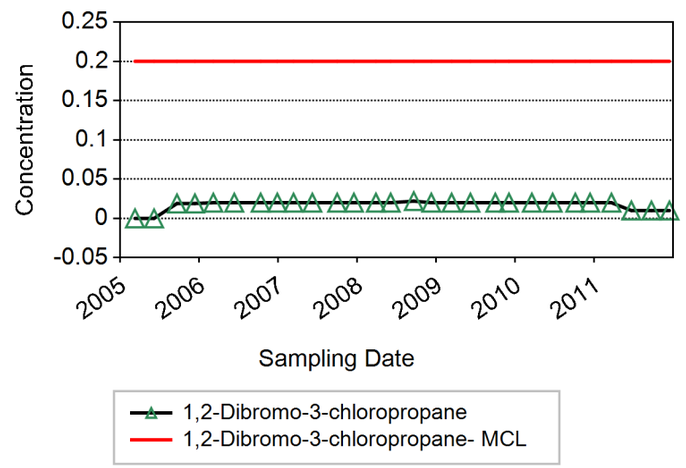
LOCATION = OW-4A
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



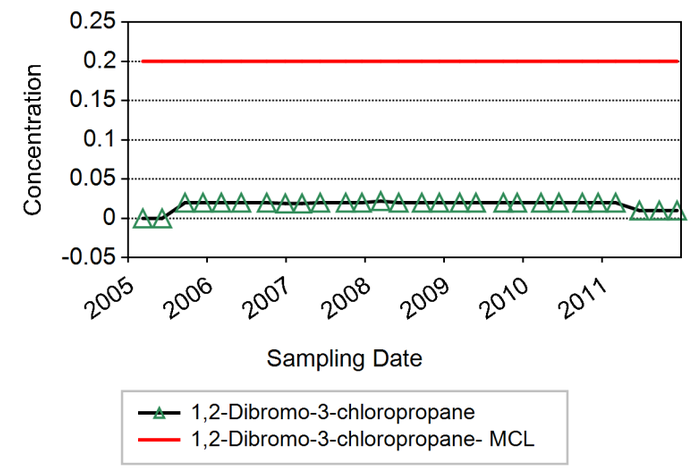
LOCATION = OW-3A
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = OW-3C
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = OW-4B
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



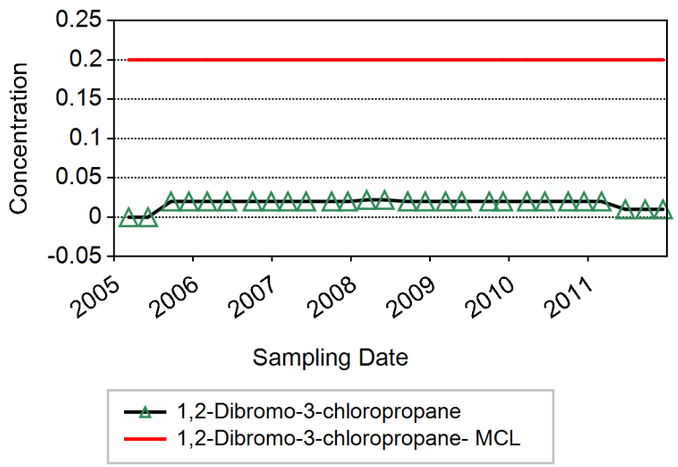
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

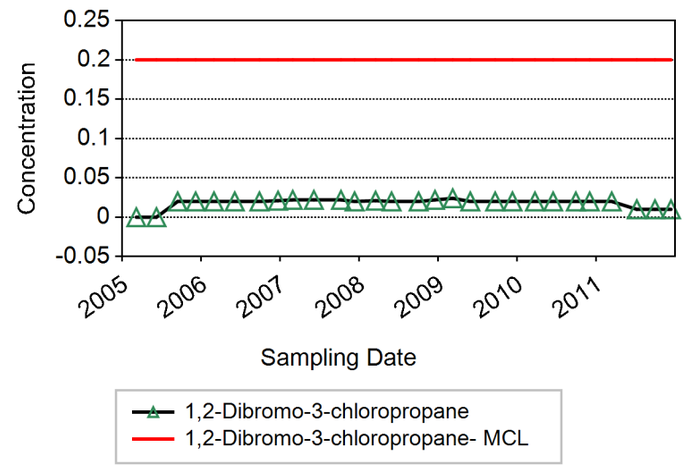
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

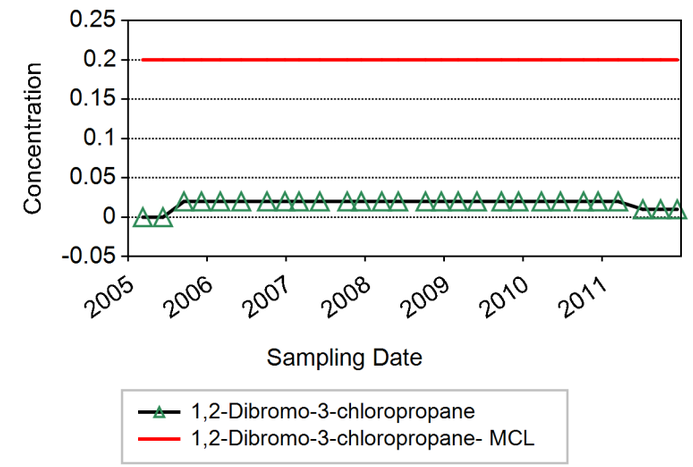
LOCATION = OW-4C
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



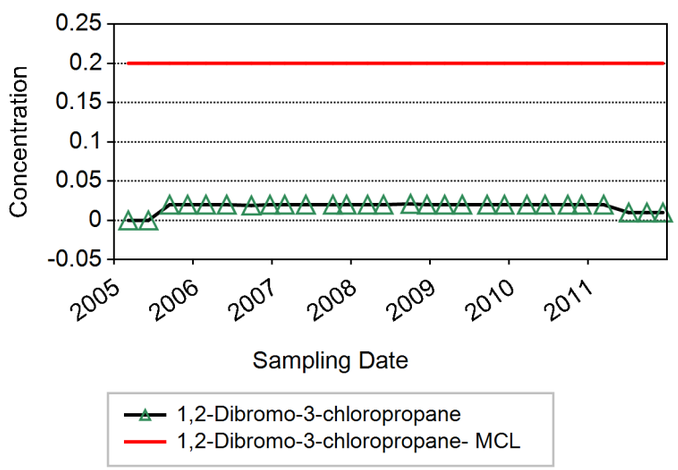
LOCATION = OW-5B
MAXIMUM = 0.024 (µg/L)
MCL = 0.20 (µg/L)



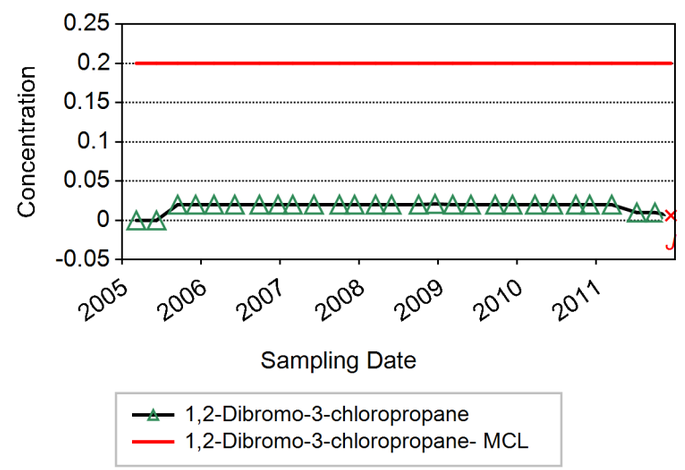
LOCATION = OW-6A
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



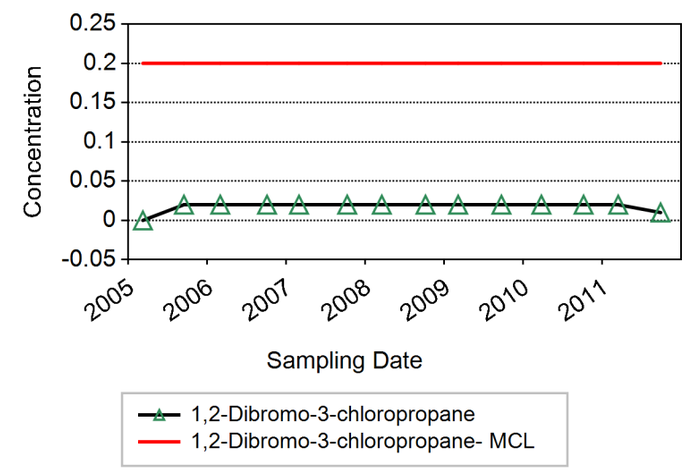
LOCATION = OW-5A
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = OW-5C
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = OW-6B
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



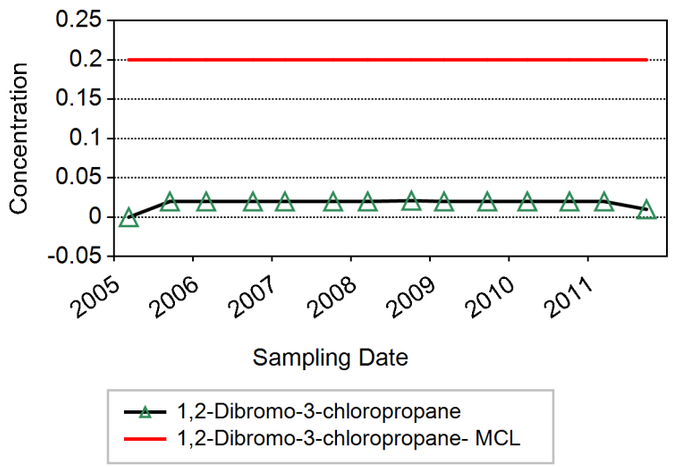
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

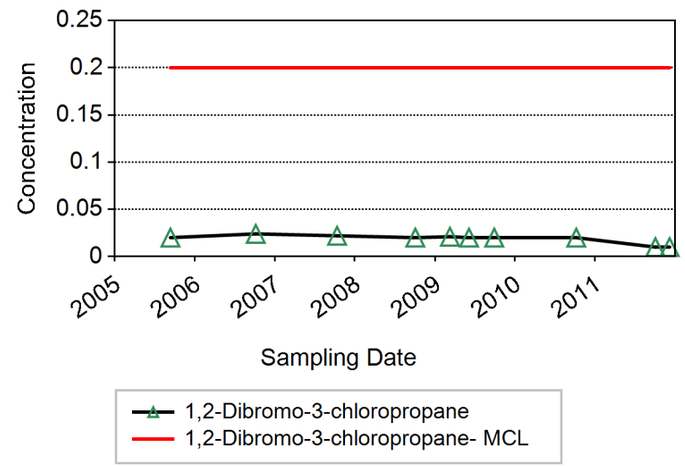
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

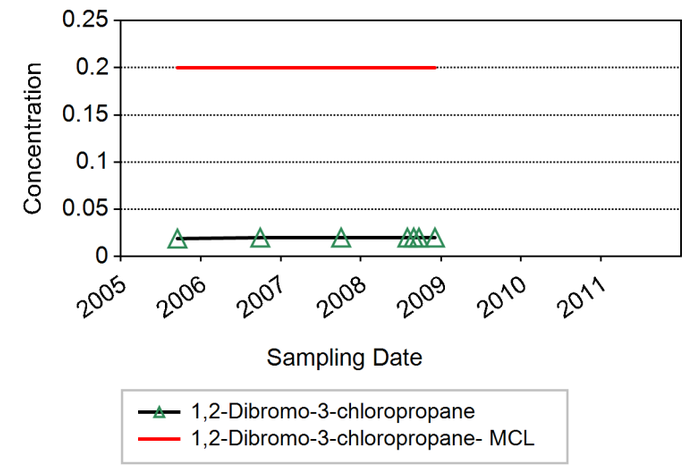
LOCATION = OW-6C
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



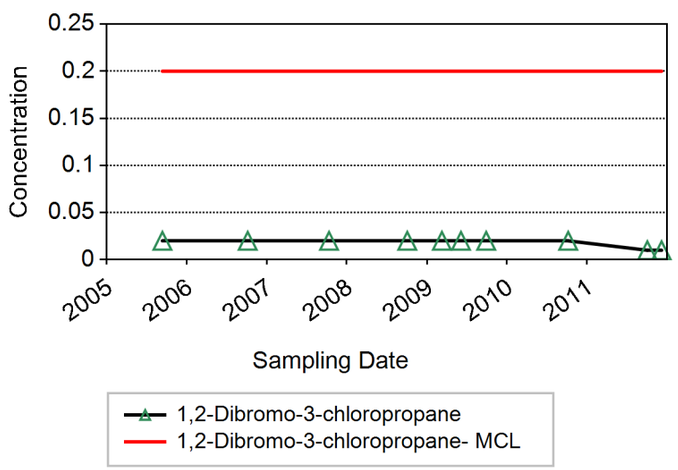
LOCATION = OW-7B
MAXIMUM = 0.024 (µg/L)
MCL = 0.20 (µg/L)



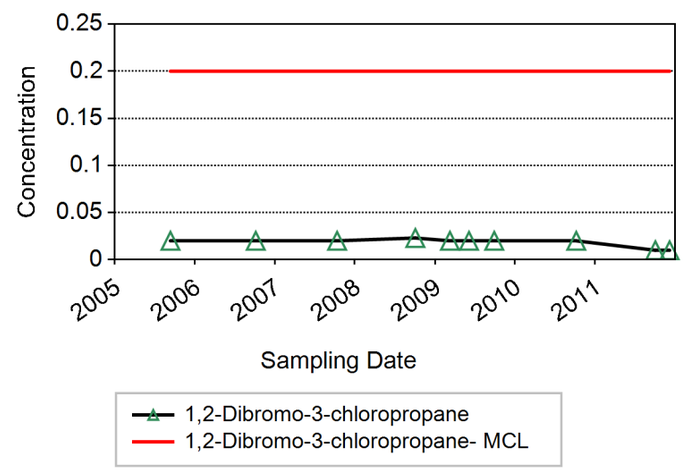
LOCATION = OW-8A
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



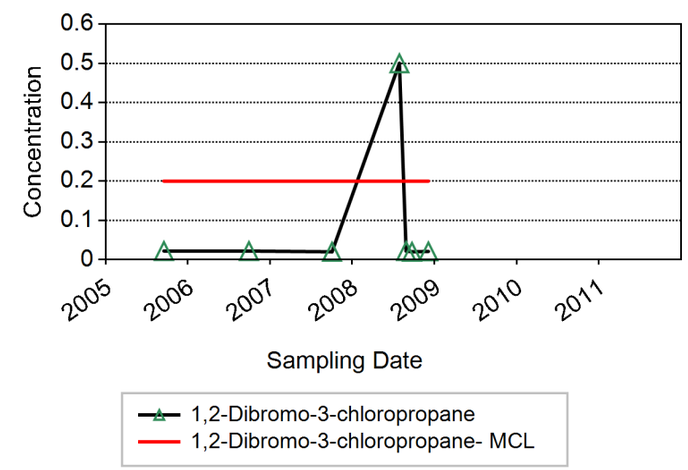
LOCATION = OW-7A
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = OW-7C
MAXIMUM = 0.023 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = OW-8B
MAXIMUM = 0.50 (µg/L)
MCL = 0.20 (µg/L)



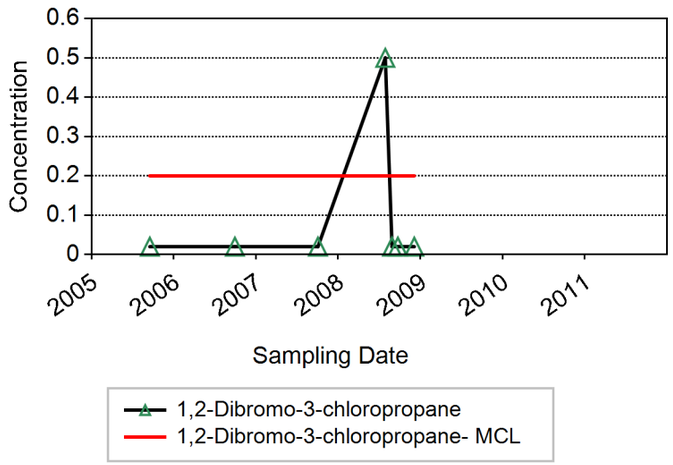
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

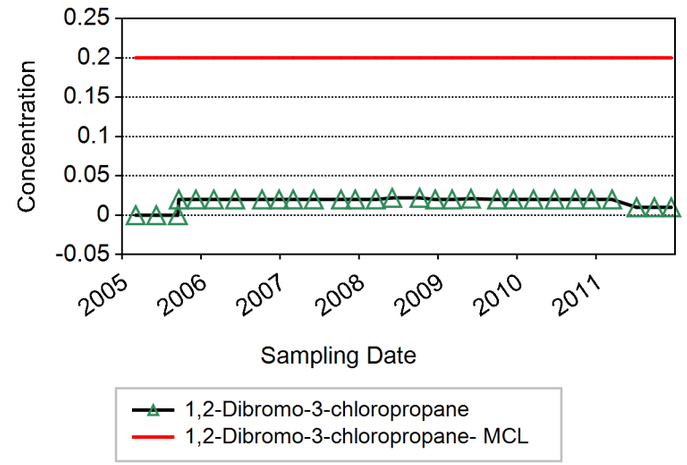
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

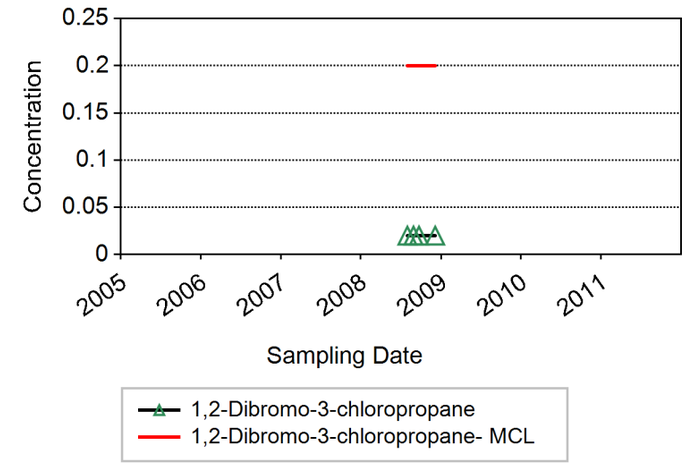
LOCATION = OW-8C
MAXIMUM = 0.50 (µg/L)
MCL = 0.20 (µg/L)



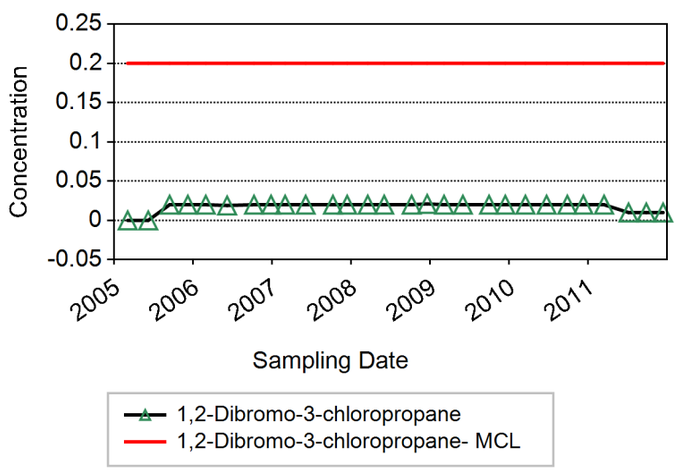
LOCATION = OW-9B
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



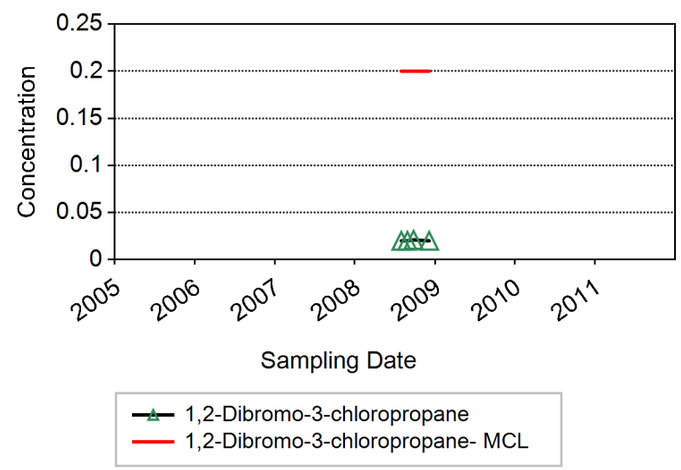
LOCATION = PC-1C
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



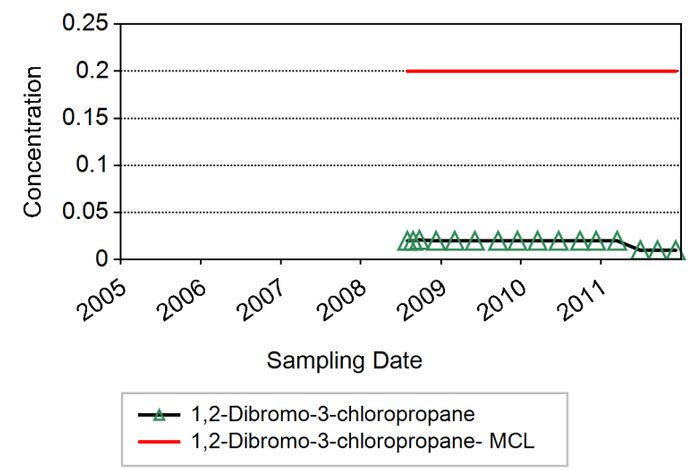
LOCATION = OW-9A
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = PC-1B
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = PC-2B
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



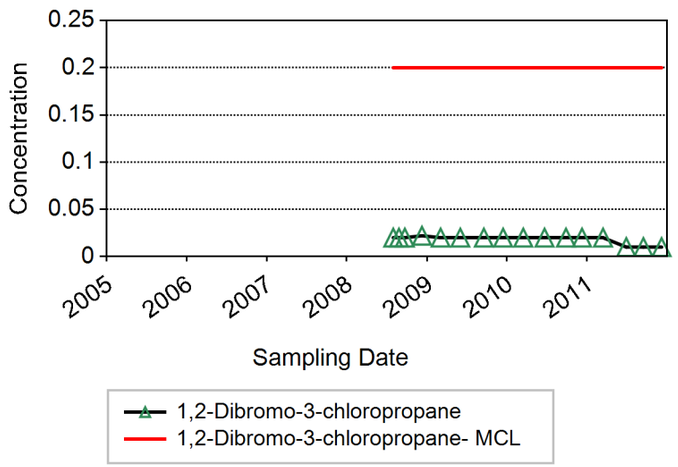
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

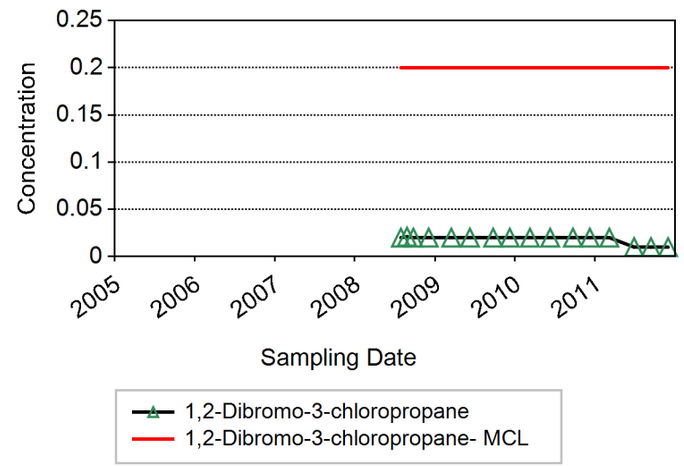
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

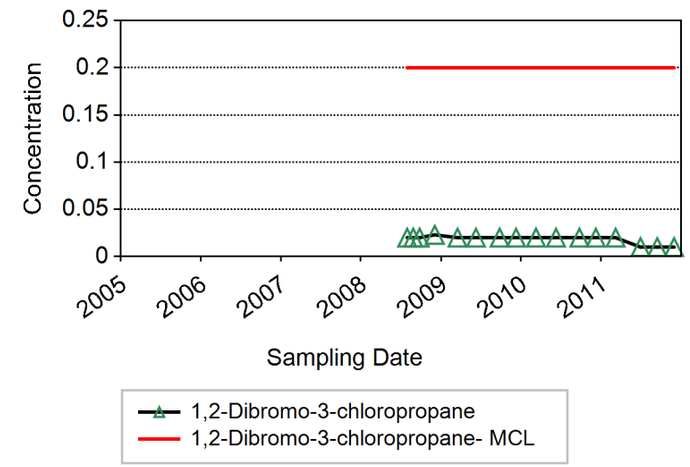
LOCATION = PC-2C
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



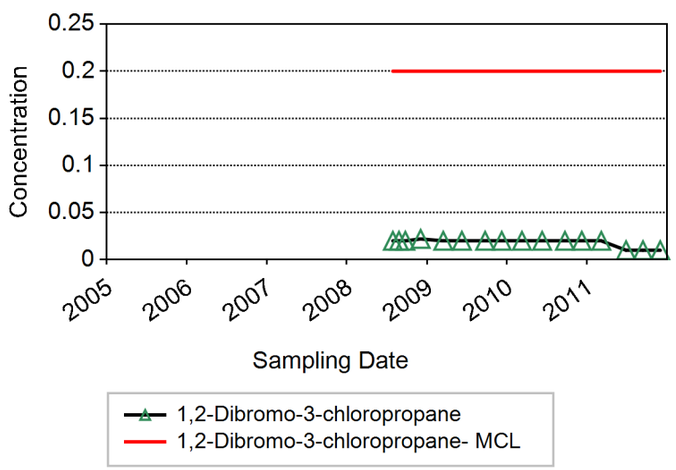
LOCATION = PW-1B
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



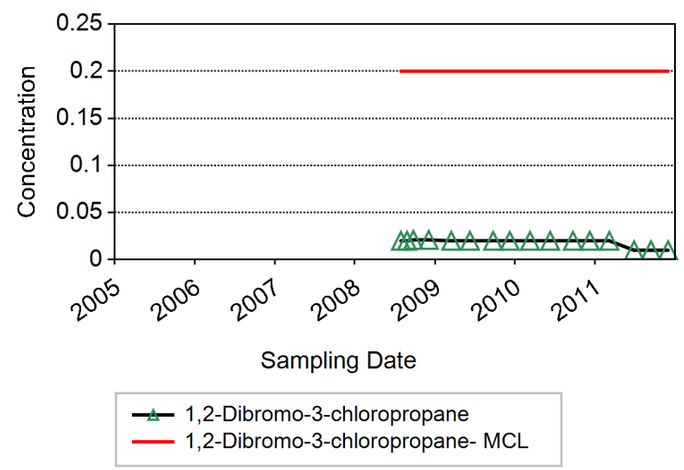
LOCATION = PW-2A
MAXIMUM = 0.023 (µg/L)
MCL = 0.20 (µg/L)



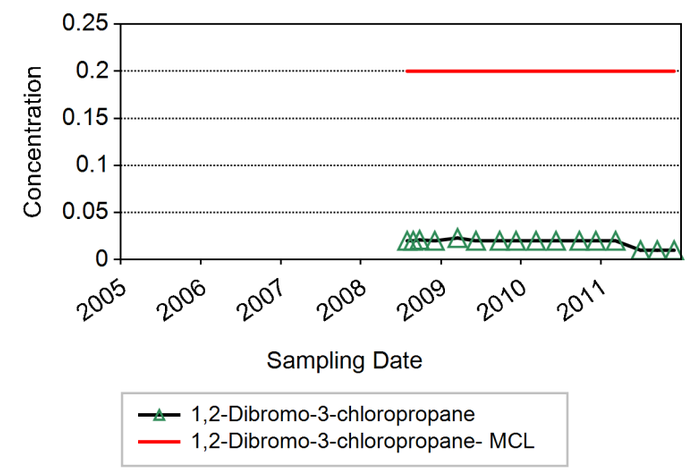
LOCATION = PW-1A
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = PW-1C
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = PW-2B
MAXIMUM = 0.023 (µg/L)
MCL = 0.20 (µg/L)



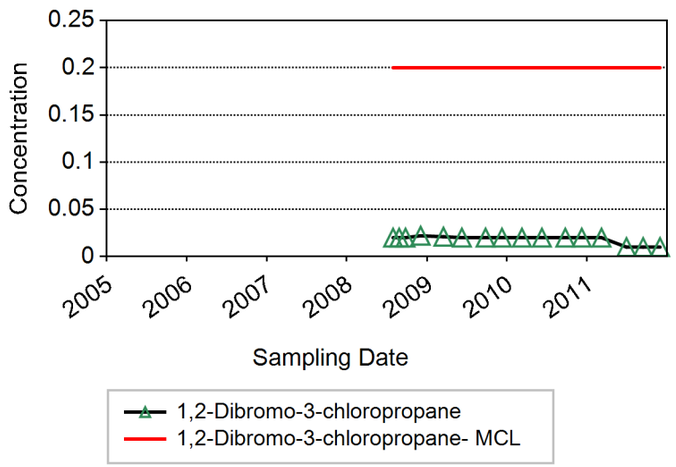
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

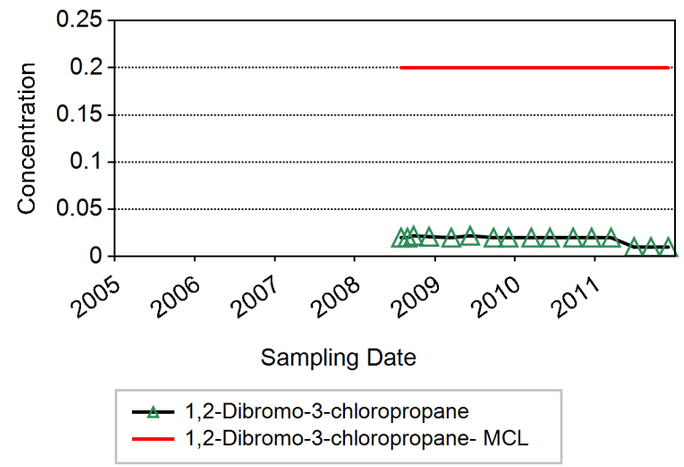
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

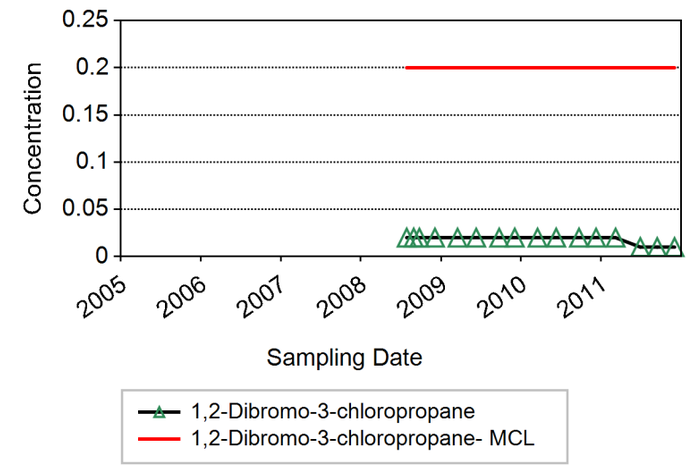
LOCATION = PW-2C
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



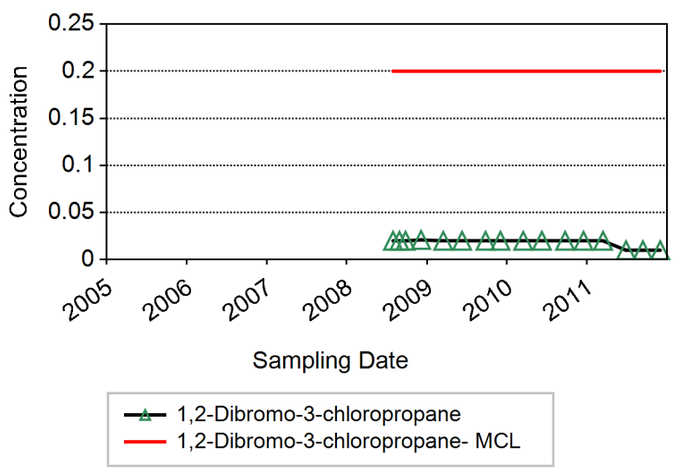
LOCATION = PW-3B
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



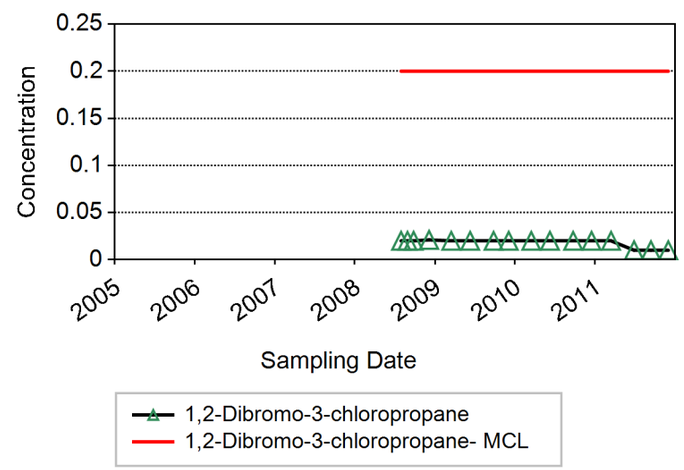
LOCATION = PW-4A
MAXIMUM = 0.020 (µg/L)
MCL = 0.20 (µg/L)



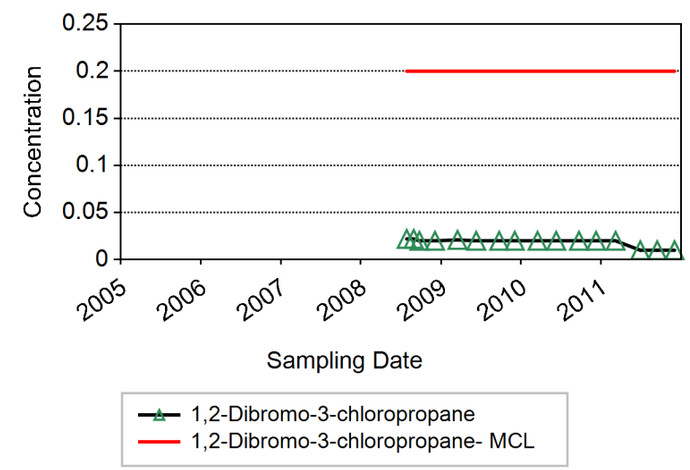
LOCATION = PW-3A
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = PW-3C
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = PW-4B
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



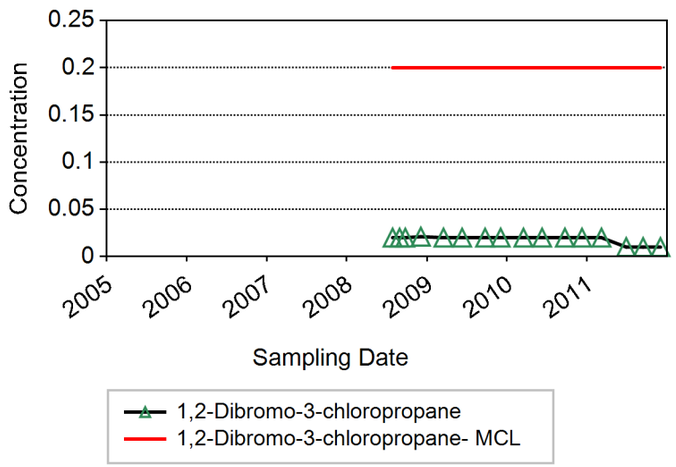
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

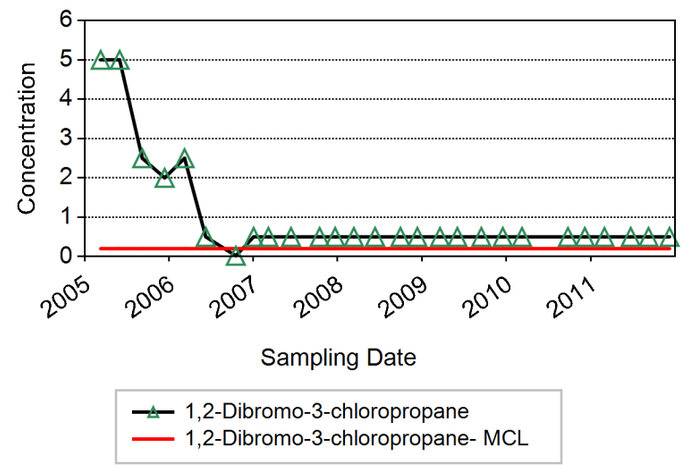
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

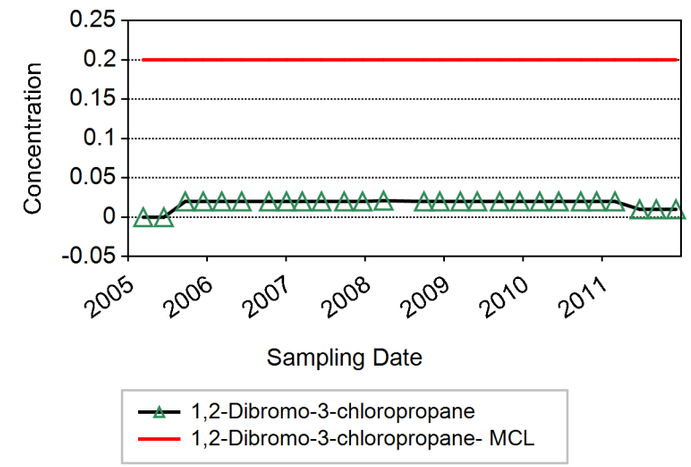
LOCATION = PW-4C
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



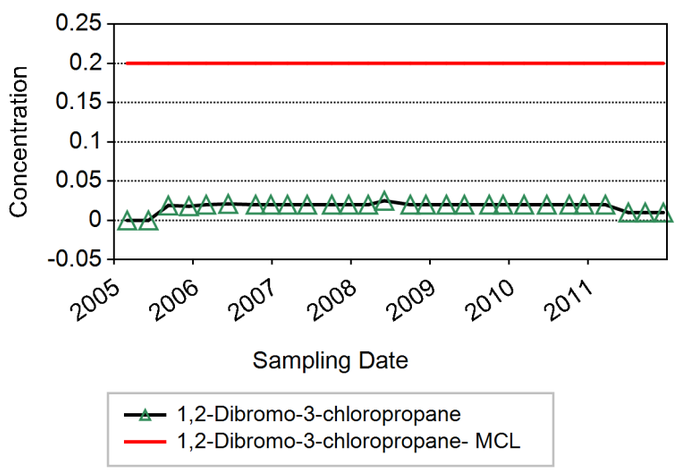
LOCATION = X-1A
MAXIMUM = 5.0 (µg/L)
MCL = 0.20 (µg/L)



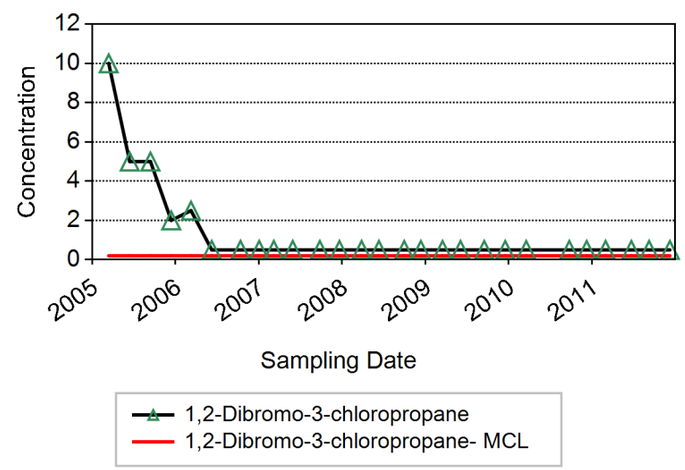
LOCATION = X-1C
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



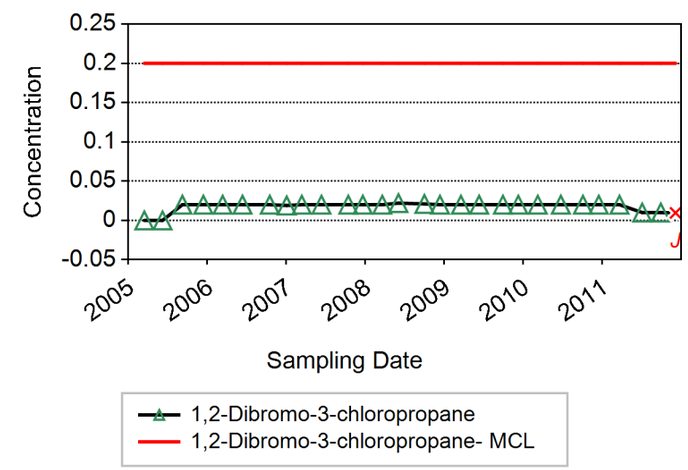
LOCATION = X-10B
MAXIMUM = 0.025 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = X-1B
MAXIMUM = 5.0 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = X-2A
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



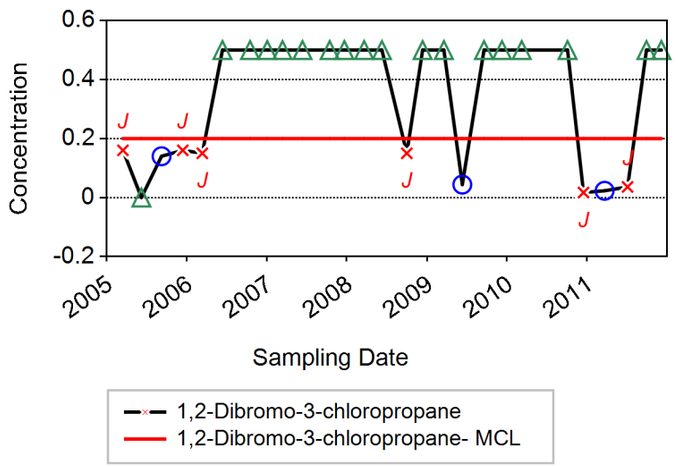
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

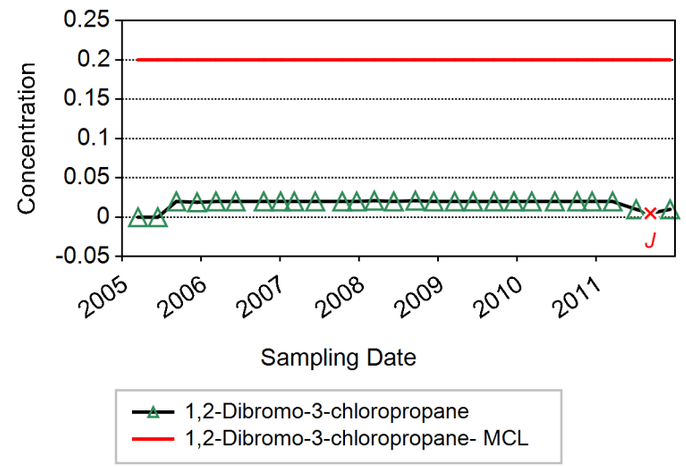
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

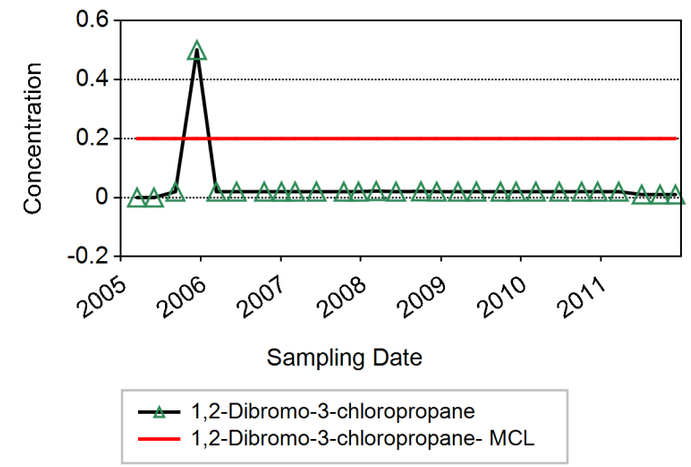
LOCATION = X-2B
MAXIMUM = 0.50 (µg/L)
MCL = 0.20 (µg/L)



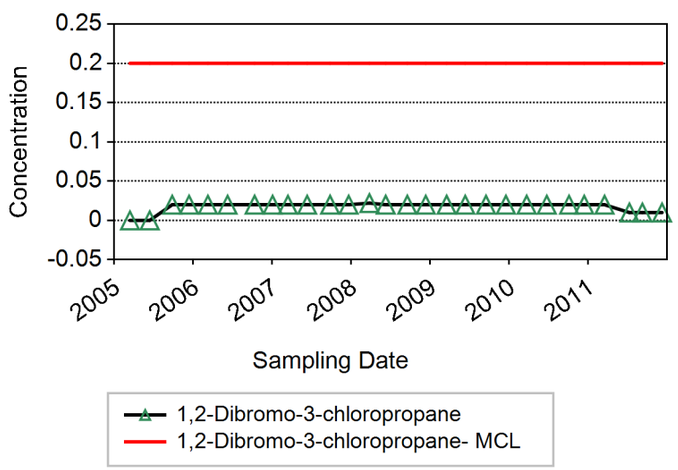
LOCATION = X-3B
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



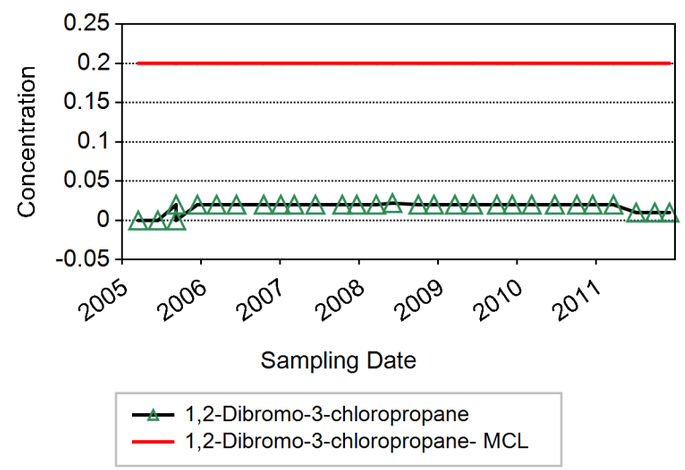
LOCATION = X-4B
MAXIMUM = 0.50 (µg/L)
MCL = 0.20 (µg/L)



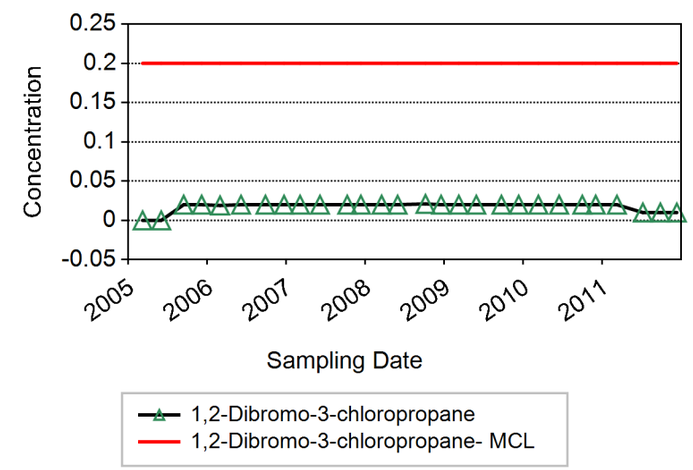
LOCATION = X-3A
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = X-4A
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = X-5A
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



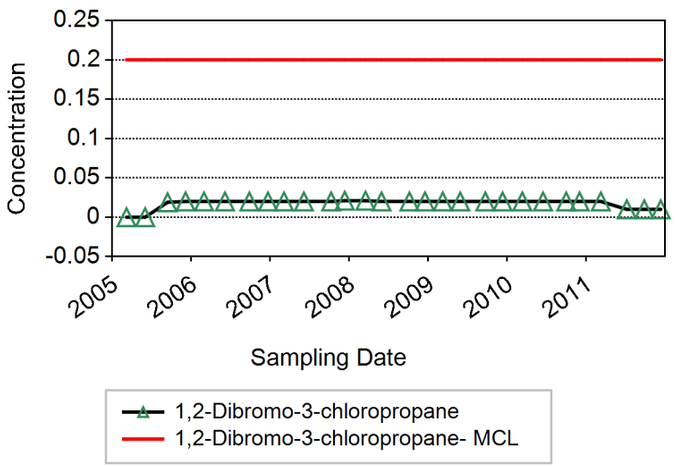
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

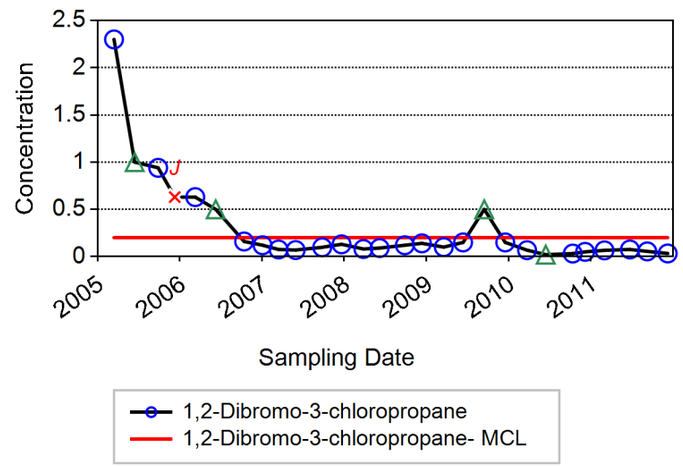
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

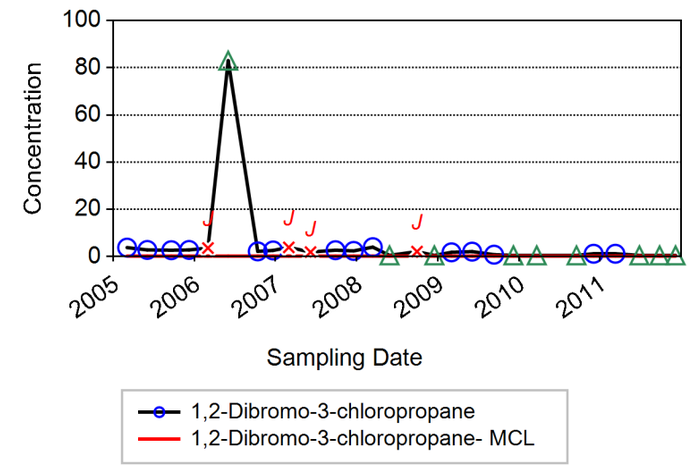
LOCATION = X-5B
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



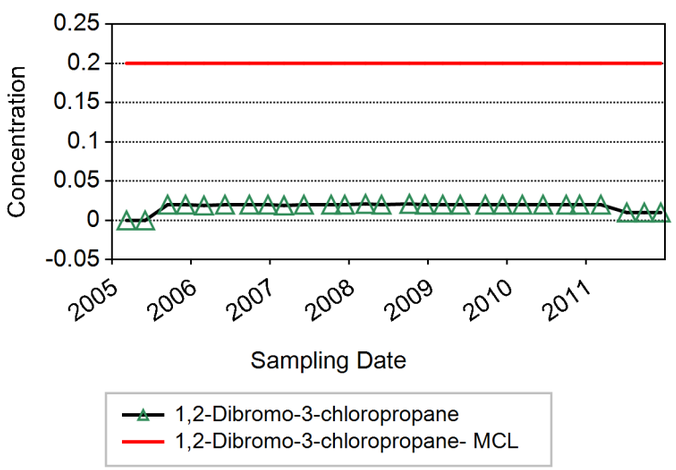
LOCATION = X-6A
MAXIMUM = 2.3 (µg/L)
MCL = 0.20 (µg/L)



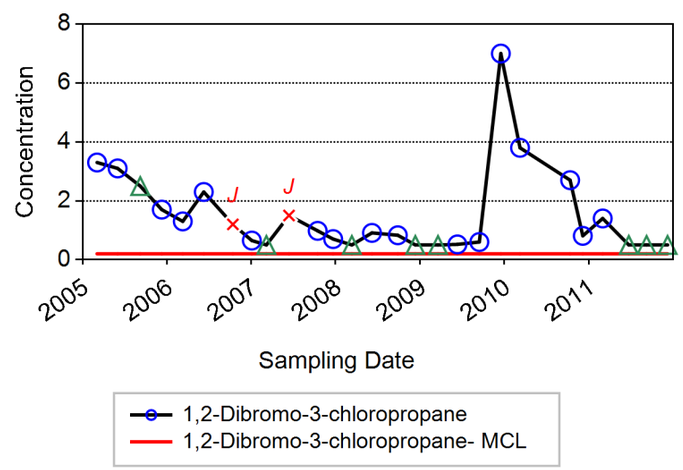
LOCATION = X-7B
MAXIMUM = 83.0 (µg/L)
MCL = 0.20 (µg/L)



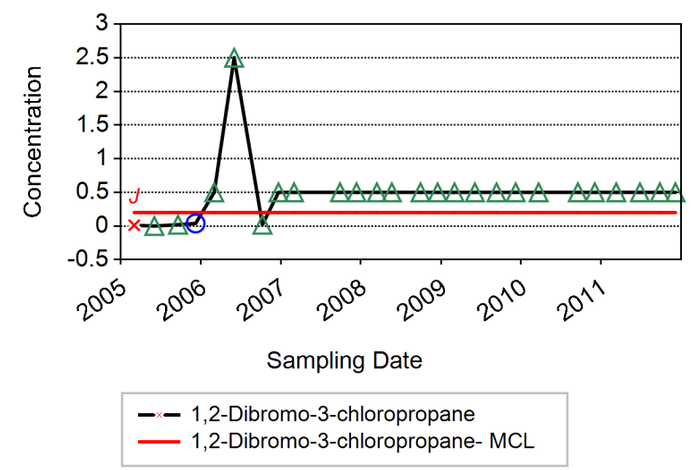
LOCATION = X-5C
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = X-6B
MAXIMUM = 7.0 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = X-7C
MAXIMUM = 2.5 (µg/L)
MCL = 0.20 (µg/L)

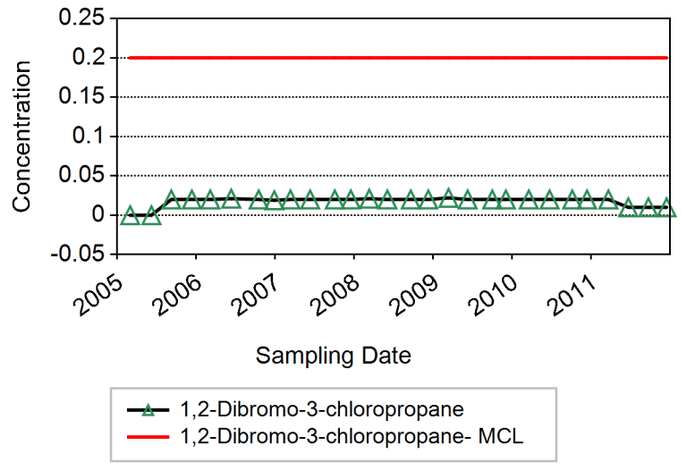


Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

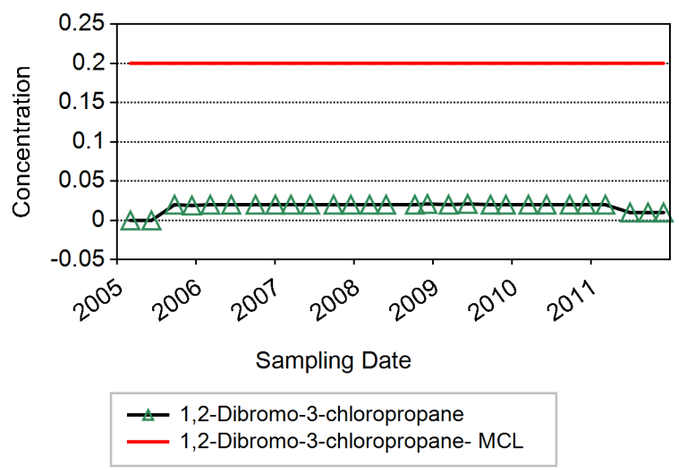
Figure B-3 Chemical Time Series Plot - 1,2-Dibromo-3-chloropropane (DBCP)

Δ = NON-DETECT
o = DETECTED
x = FLAGGED DATA

LOCATION = X-8B
MAXIMUM = 0.022 (µg/L)
MCL = 0.20 (µg/L)



LOCATION = X-9B
MAXIMUM = 0.021 (µg/L)
MCL = 0.20 (µg/L)



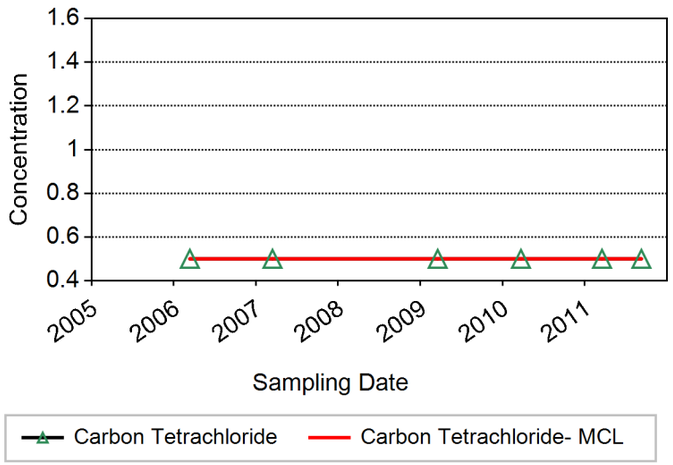
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

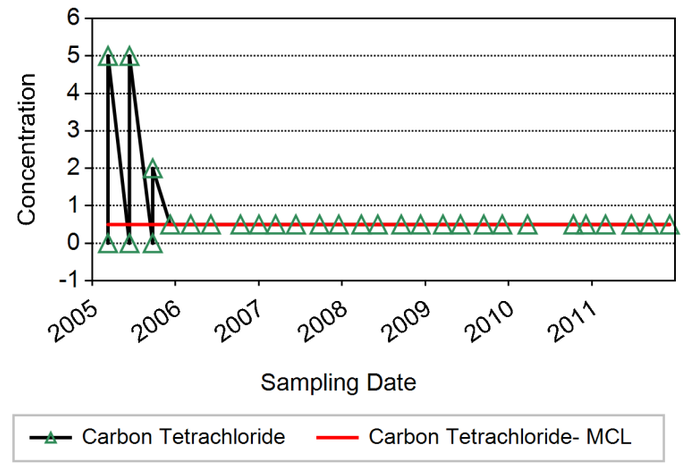
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

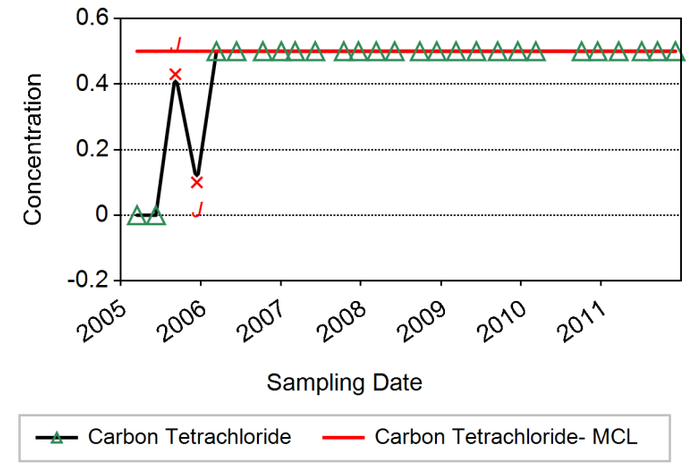
LOCATION = AW-1
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



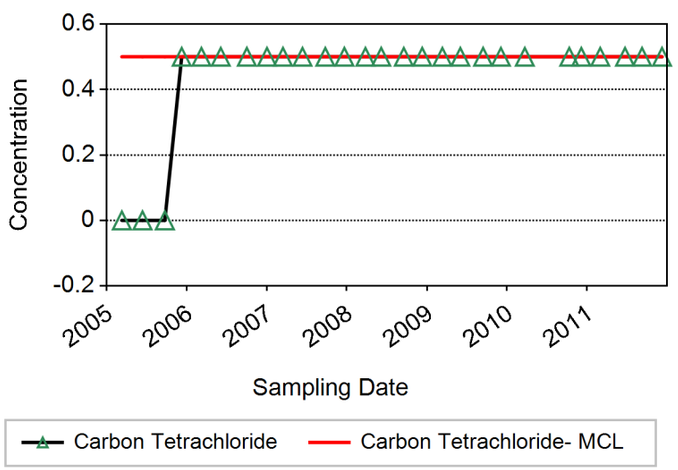
LOCATION = AW-2B
MAXIMUM = 5.0 (µg/L)
MCL = 0.50 (µg/L)



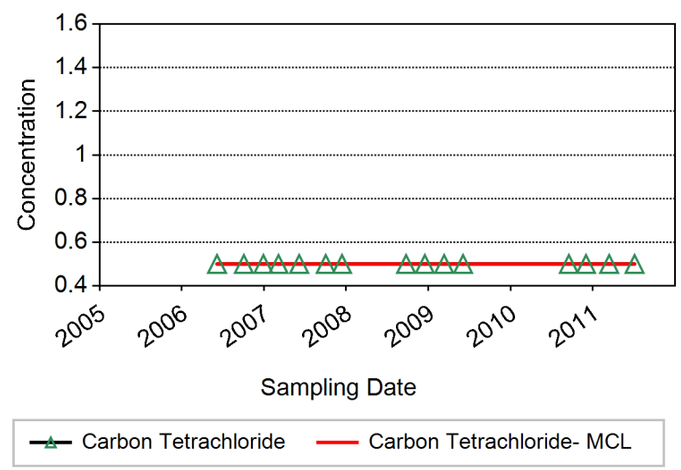
LOCATION = MW-11A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



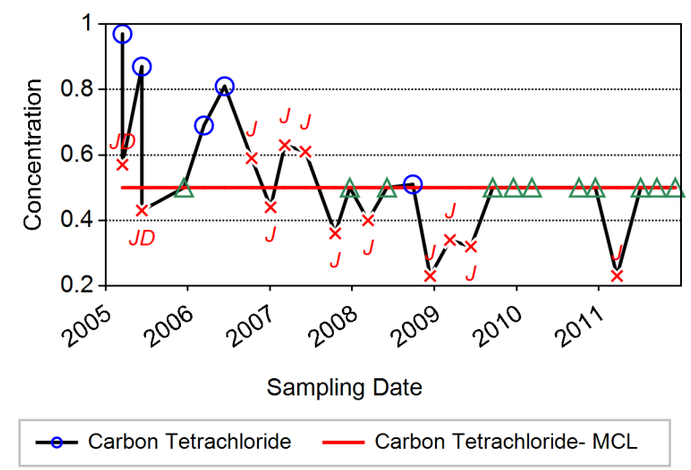
LOCATION = AW-2A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = CityWell29
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = MW-11B
MAXIMUM = 0.97 (µg/L)
MCL = 0.50 (µg/L)



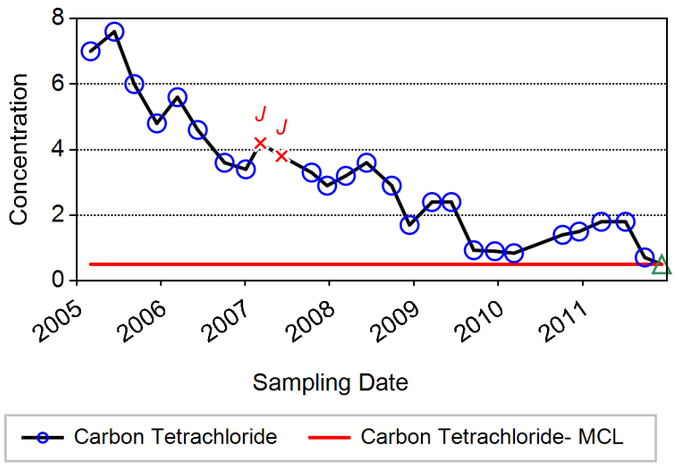
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

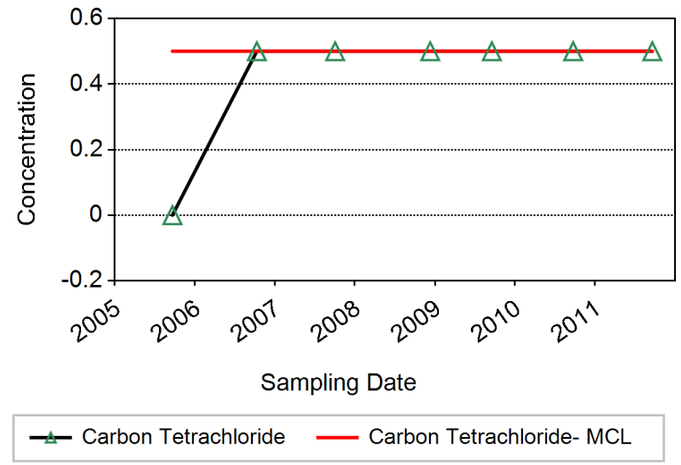
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

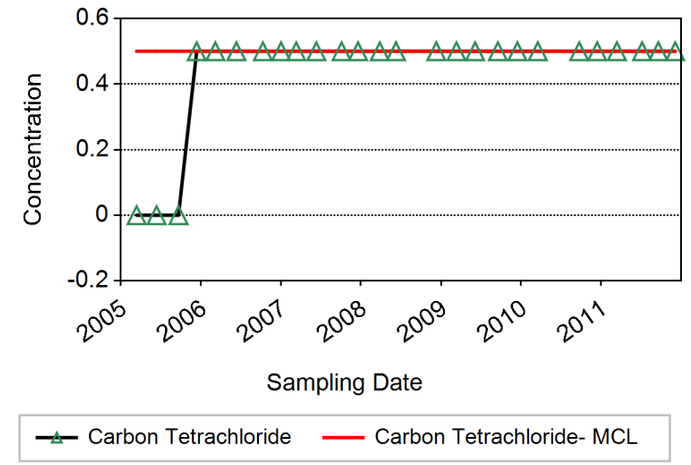
LOCATION = MW-12A
MAXIMUM = 7.6 (µg/L)
MCL = 0.50 (µg/L)



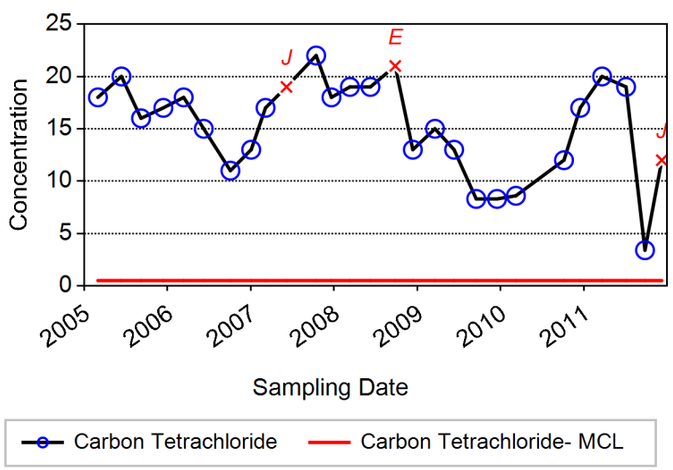
LOCATION = MW-13A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



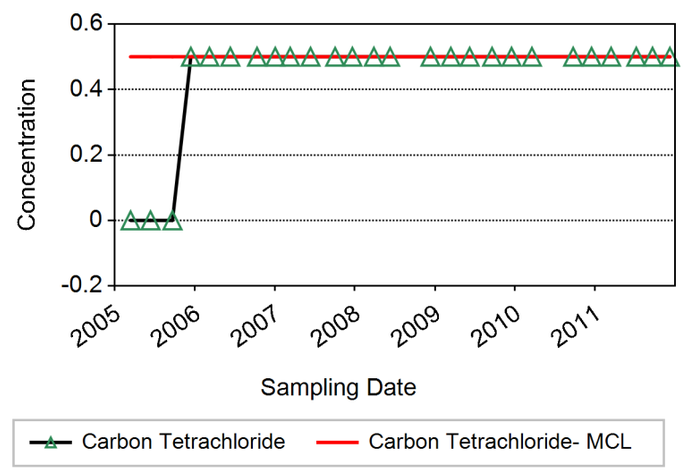
LOCATION = MW-13C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



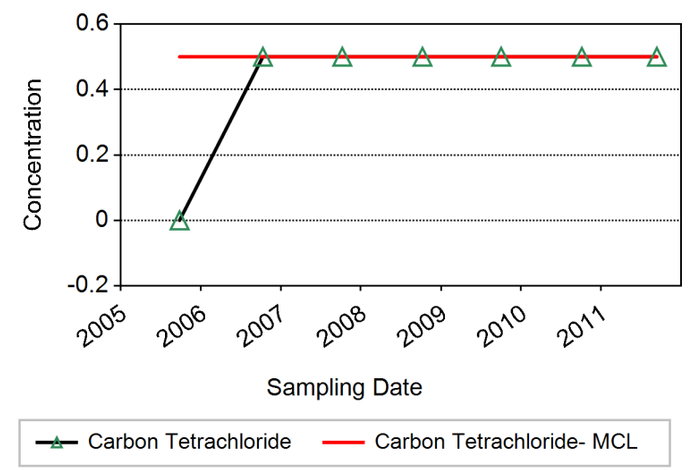
LOCATION = MW-12B
MAXIMUM = 8.6 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = MW-13B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = MW-3A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



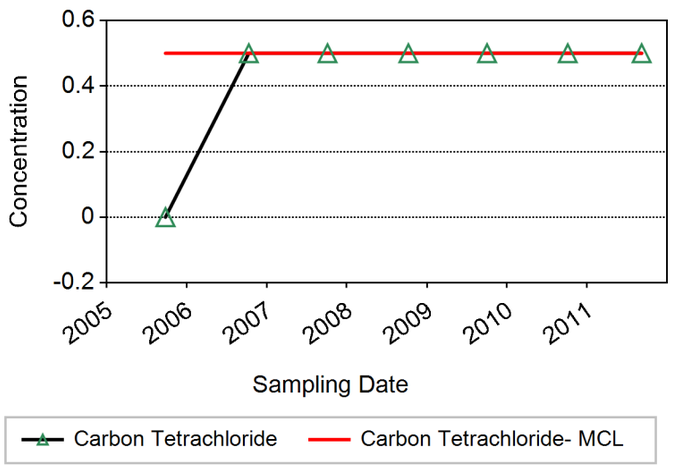
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

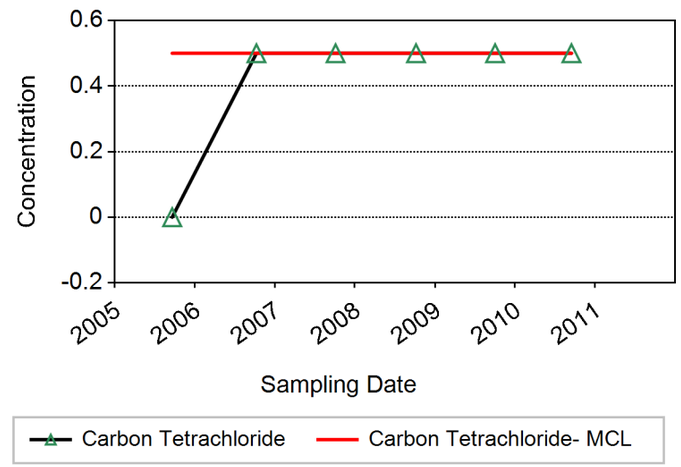
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

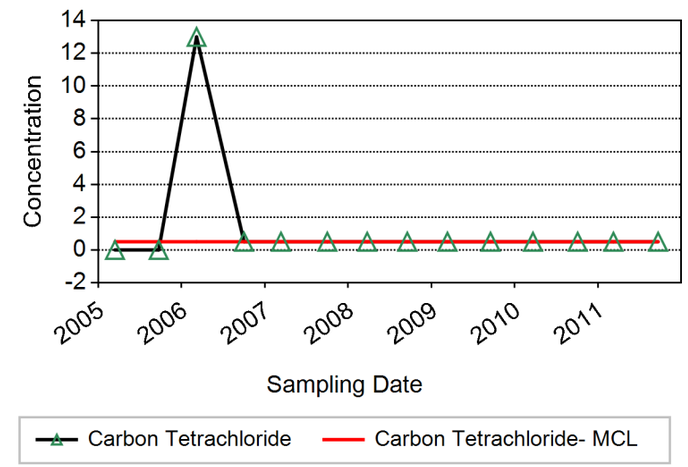
LOCATION = MW-3B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



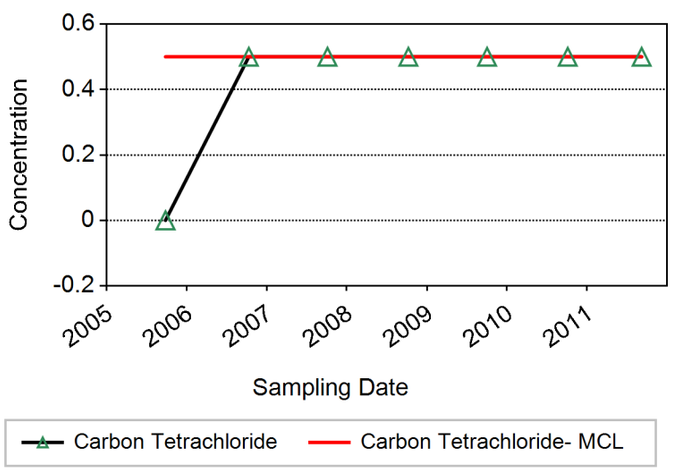
LOCATION = MW-4C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



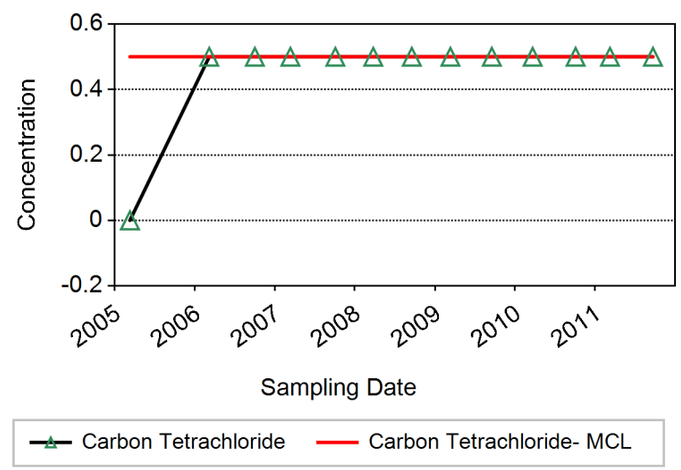
LOCATION = MW-5B
MAXIMUM = 13.0 (µg/L)
MCL = 0.50 (µg/L)



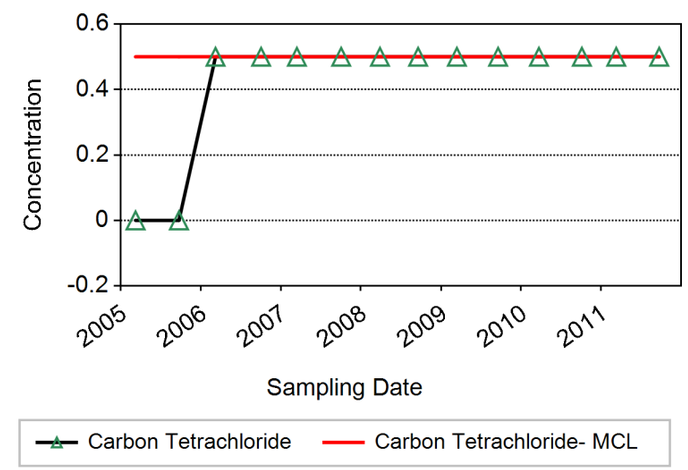
LOCATION = MW-3C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = MW-5A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = MW-5C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



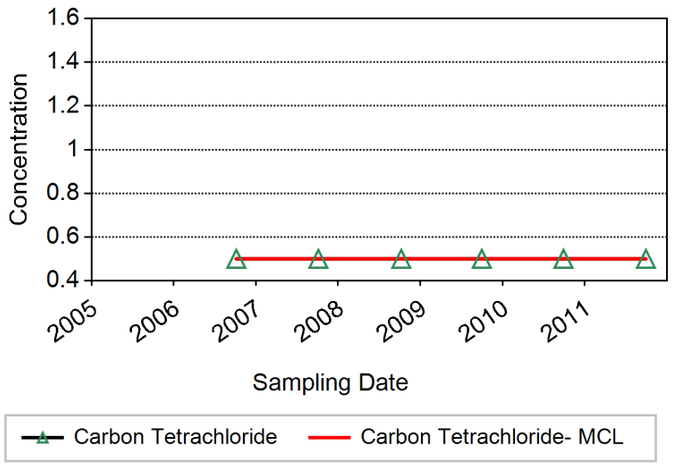
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

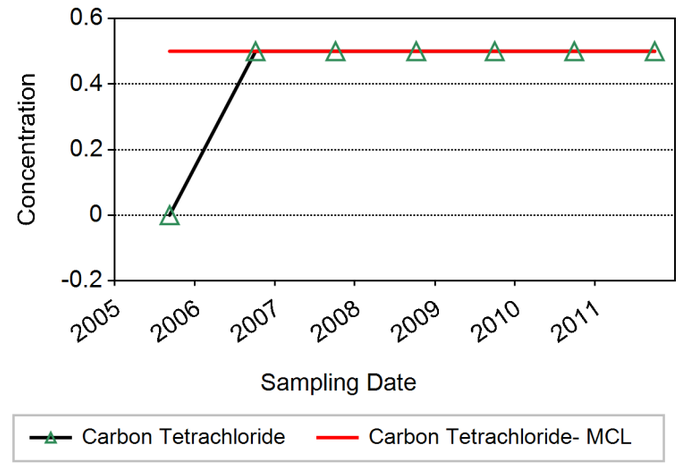
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

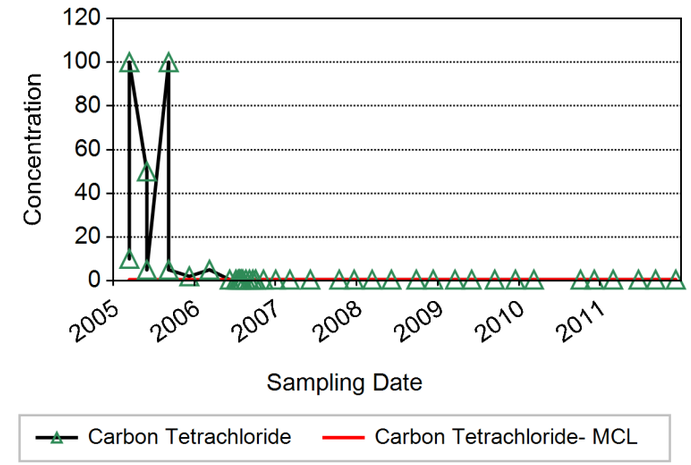
LOCATION = MW-6A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



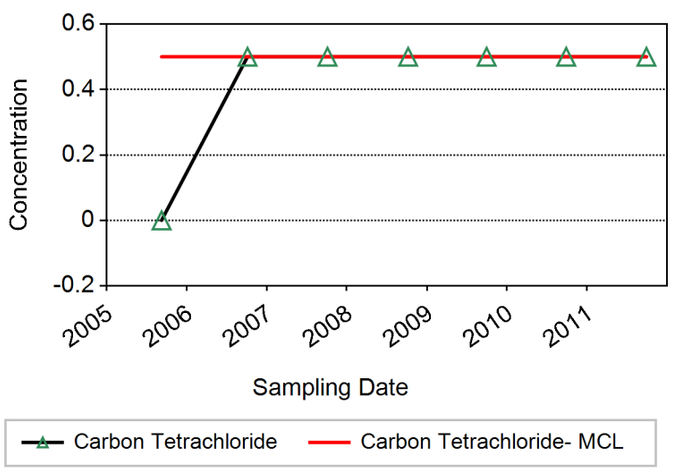
LOCATION = MW-6C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



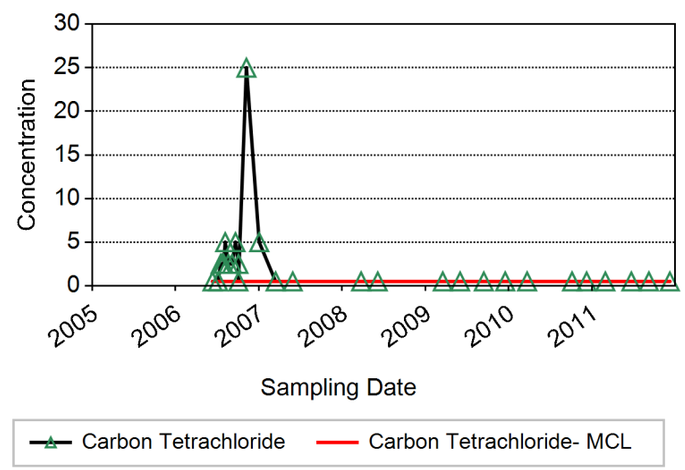
LOCATION = MW-7B
MAXIMUM = 50.0 (µg/L)
MCL = 0.50 (µg/L)



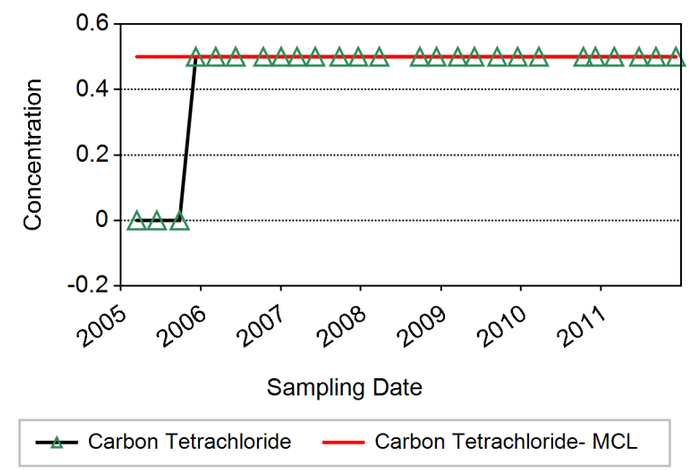
LOCATION = MW-6B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = MW-7A
MAXIMUM = 5.0 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = MW-7D
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



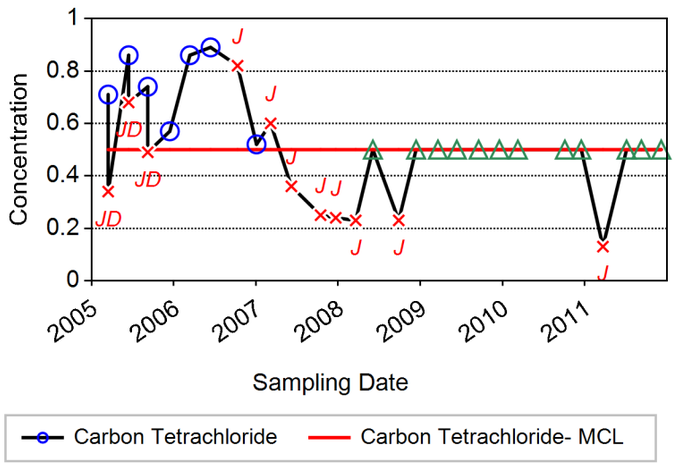
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

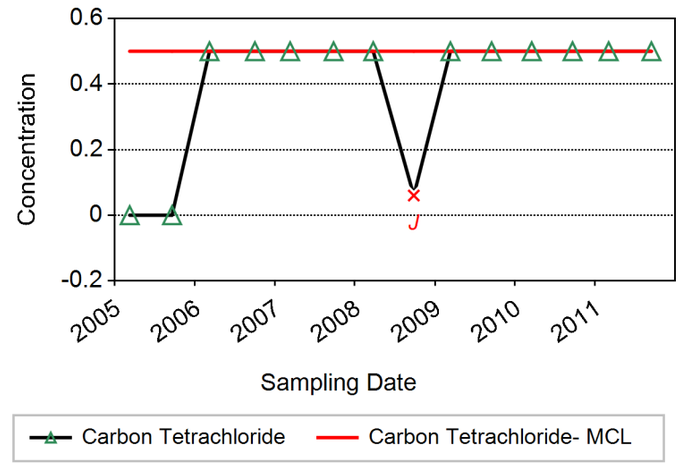
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

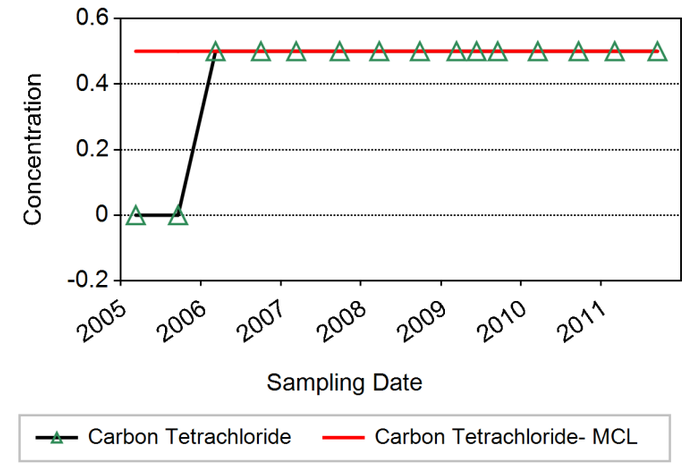
LOCATION = MW-8A
MAXIMUM = 0.89 (µg/L)
MCL = 0.50 (µg/L)



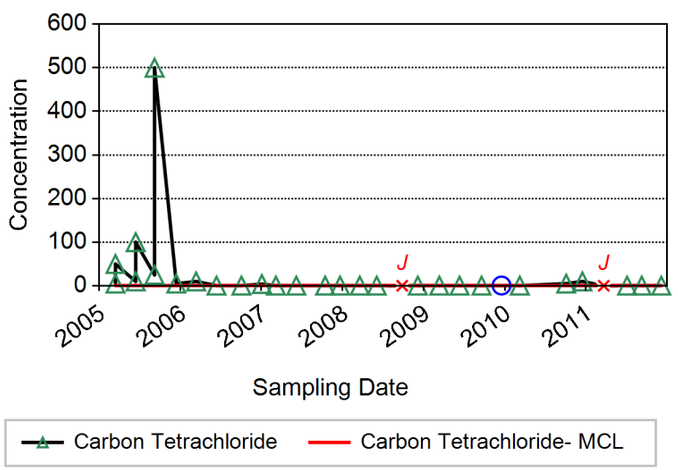
LOCATION = MW-9A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



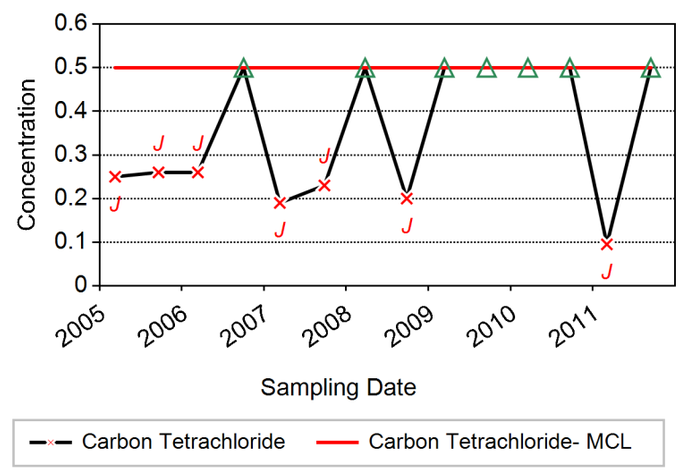
LOCATION = MW-9C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



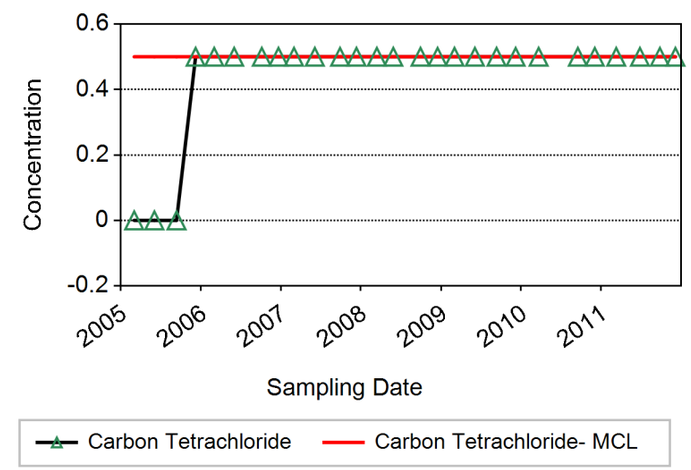
LOCATION = MW-8B
MAXIMUM = 500 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = MW-9B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = OW-11A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



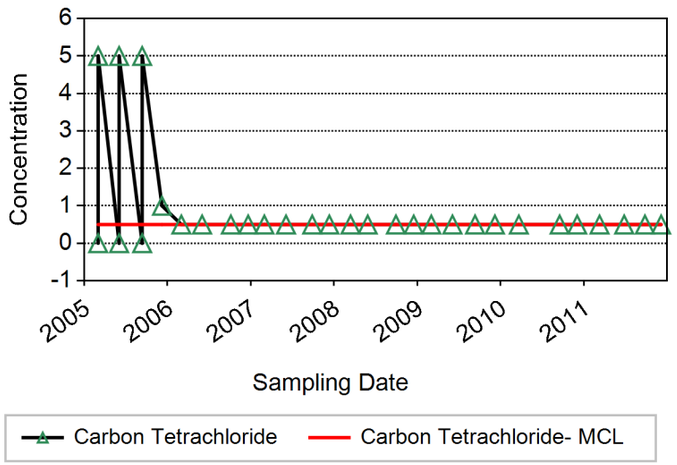
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

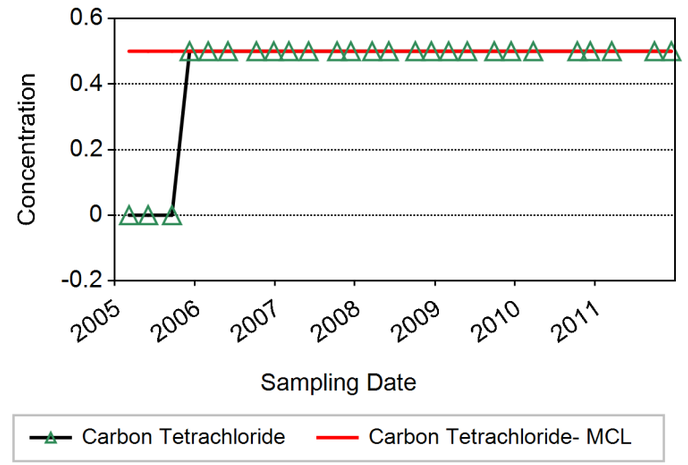
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

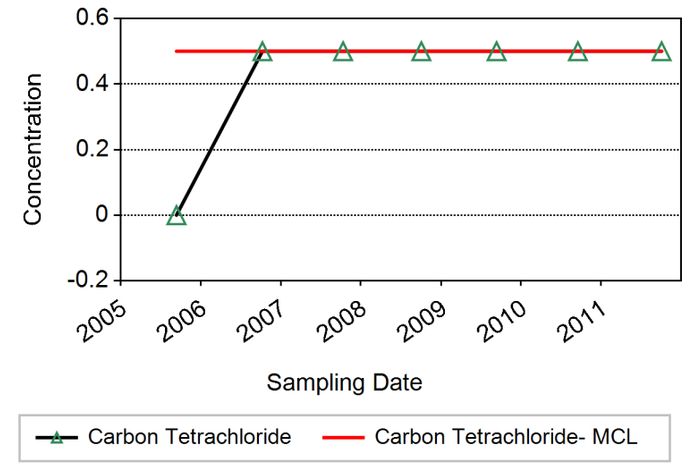
LOCATION = OW-11B
MAXIMUM = 5.0 (µg/L)
MCL = 0.50 (µg/L)



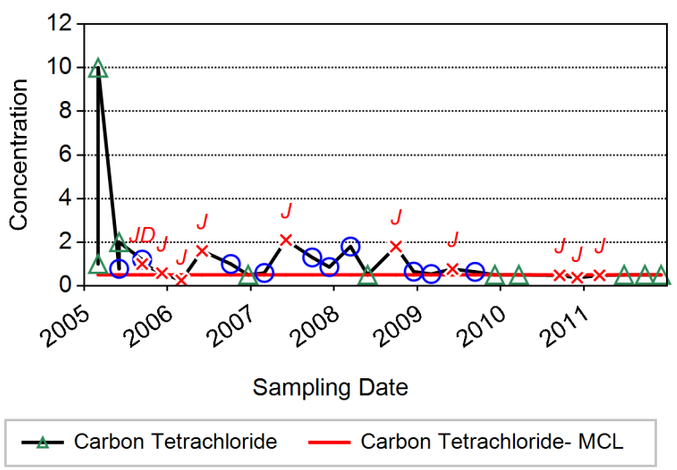
LOCATION = OW-12A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



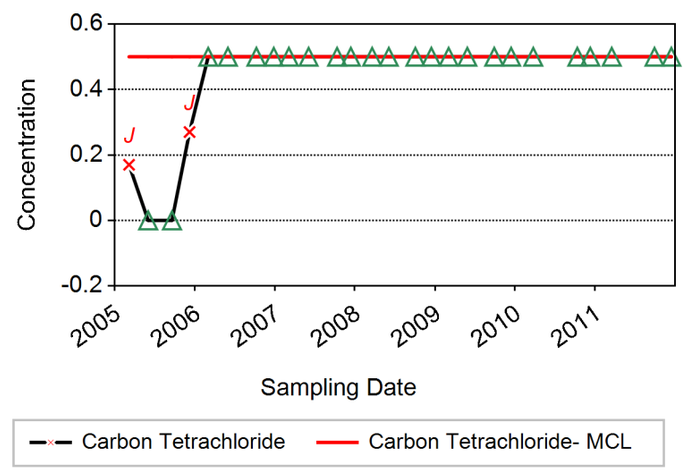
LOCATION = OW-13B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



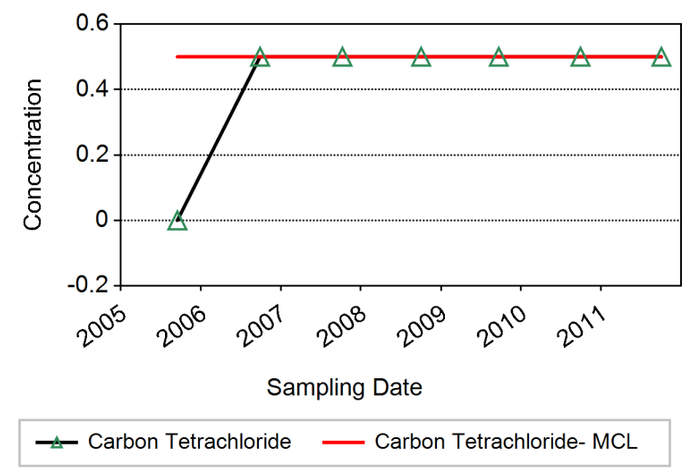
LOCATION = OW-11C
MAXIMUM = 2.1 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = OW-12B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = OW-14A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



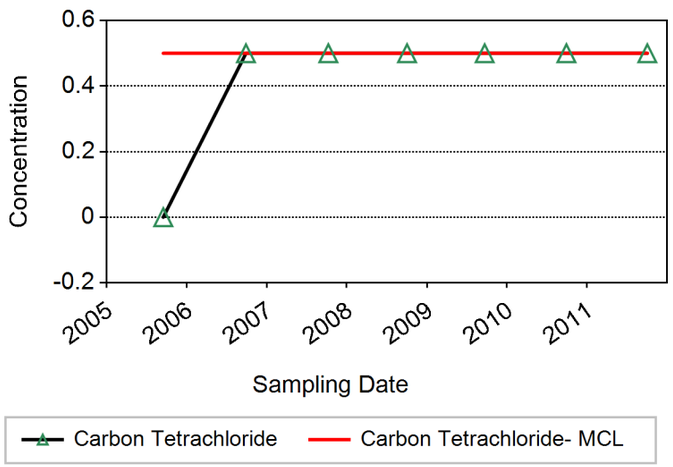
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

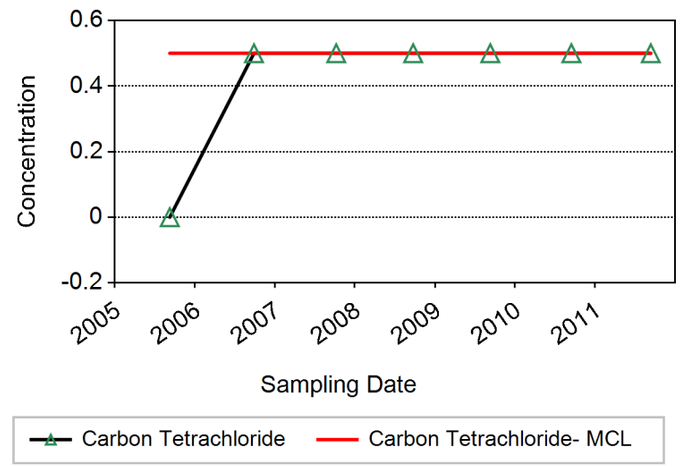
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

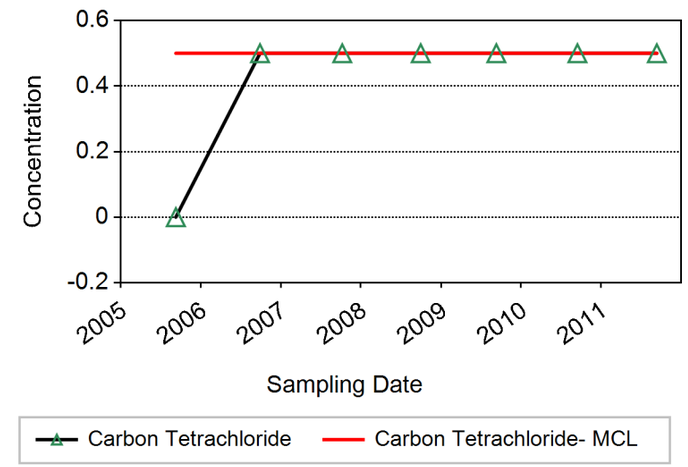
LOCATION = OW-14B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



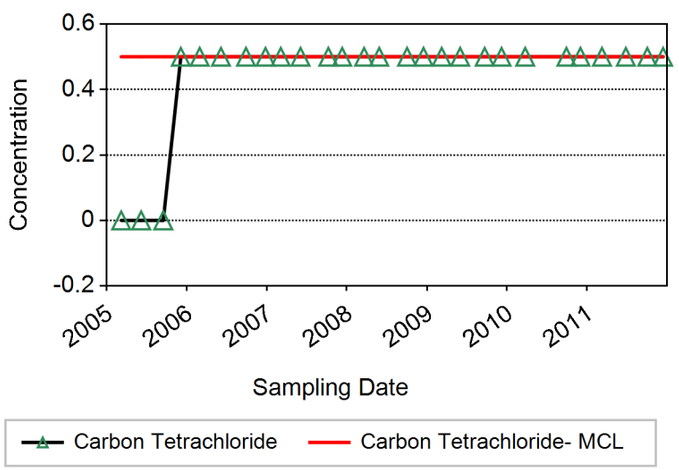
LOCATION = OW-15A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



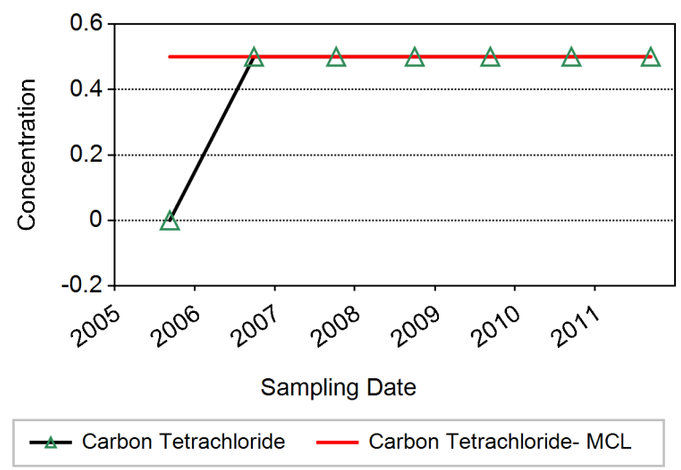
LOCATION = OW-15C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



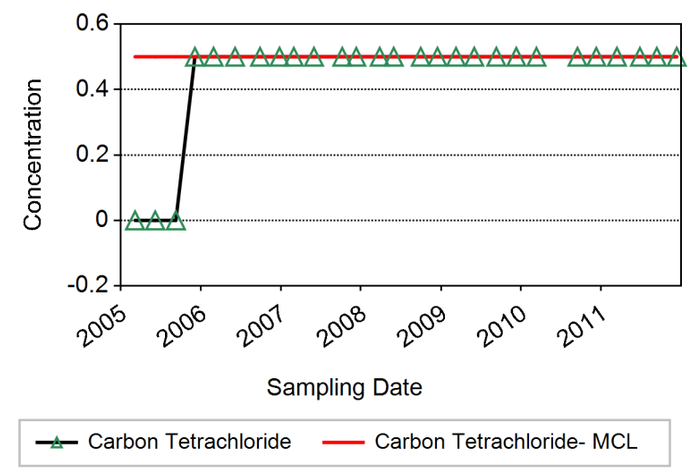
LOCATION = OW-14C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = OW-15B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = OW-15D
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



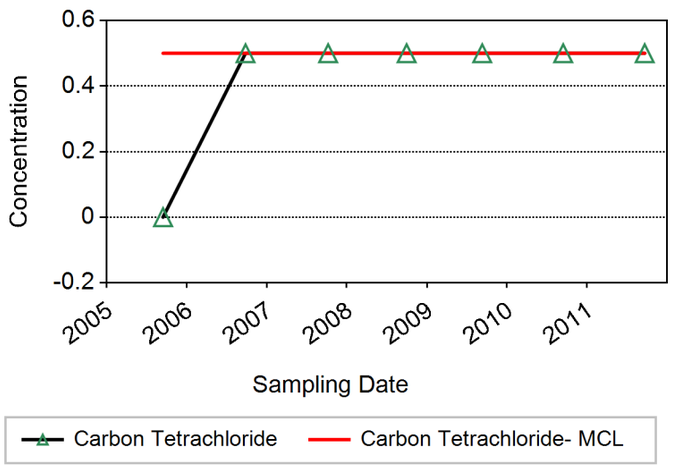
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

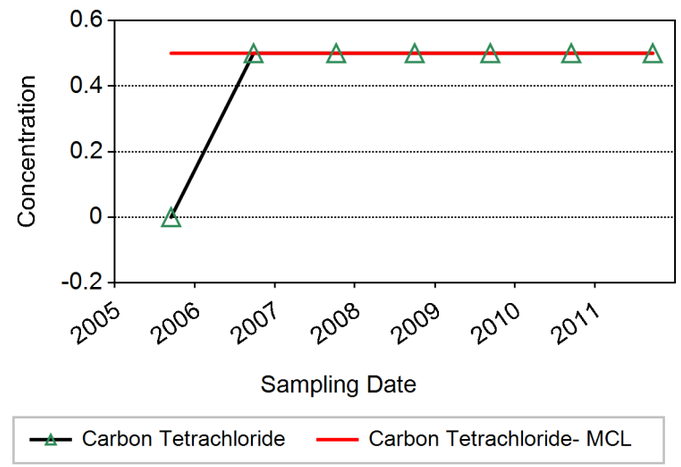
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

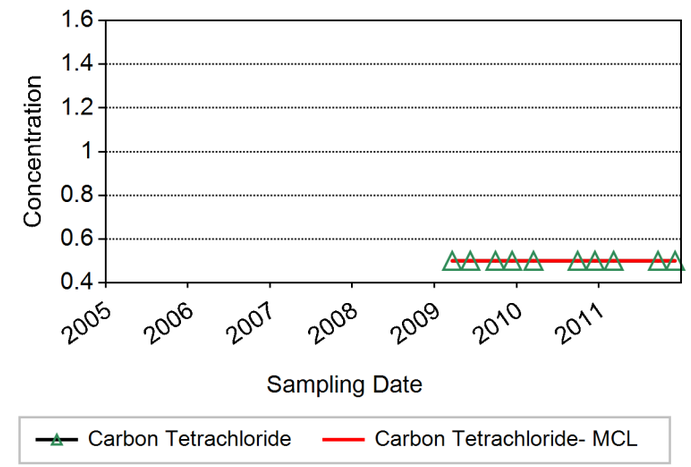
LOCATION = OW-16A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



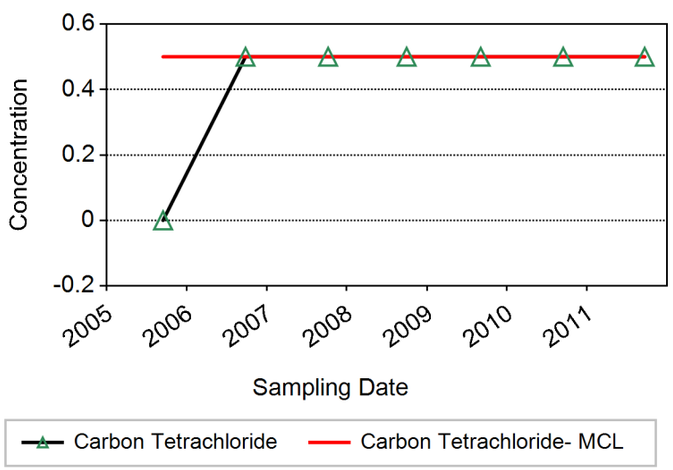
LOCATION = OW-16C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



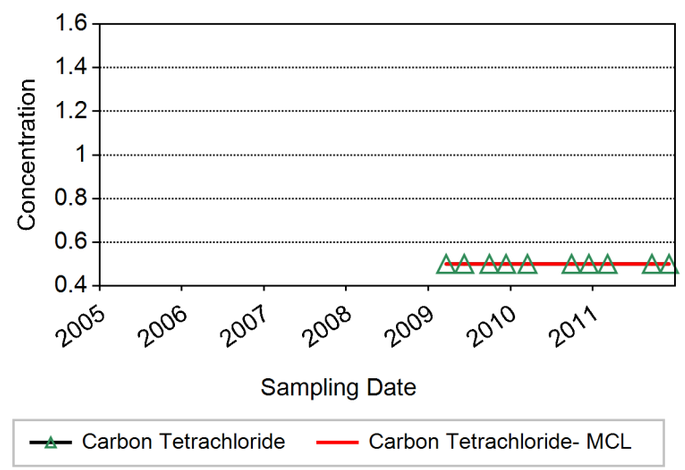
LOCATION = OW-18BR
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



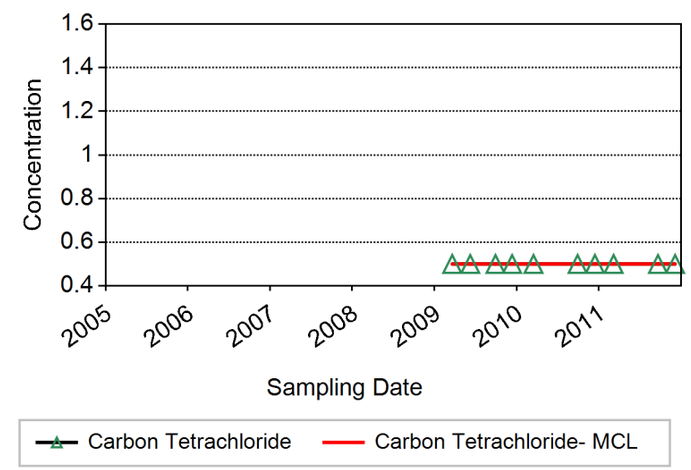
LOCATION = OW-16B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = OW-18AR
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = OW-18CR
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



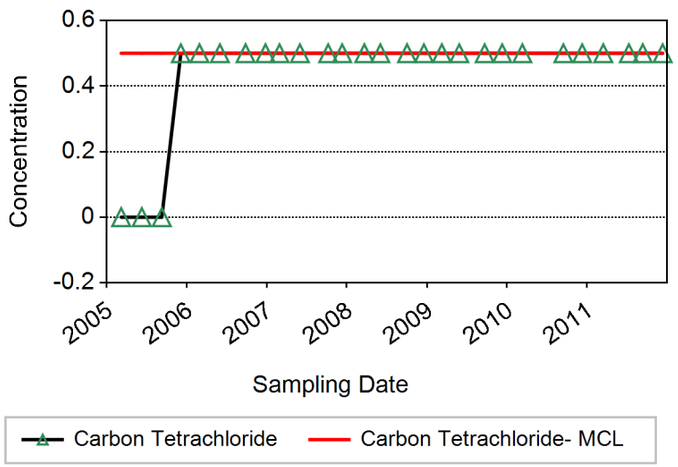
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

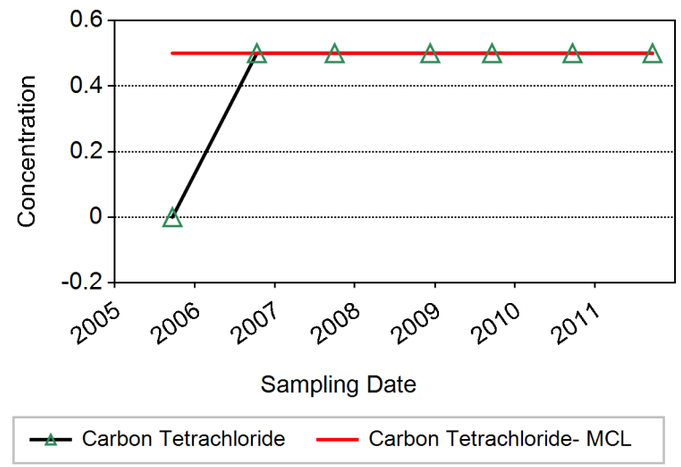
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

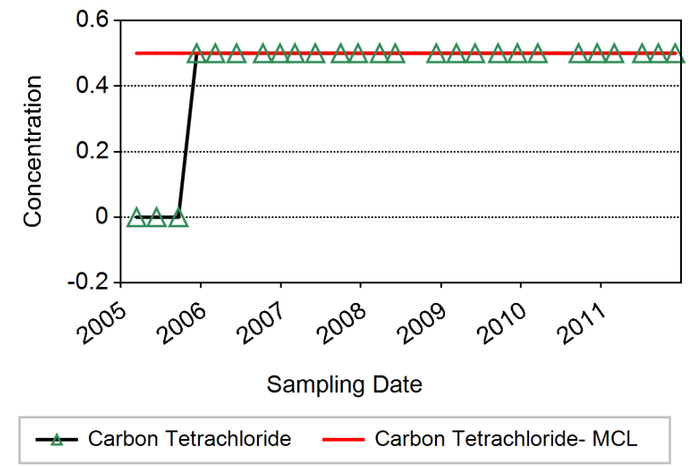
LOCATION = OW-19C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



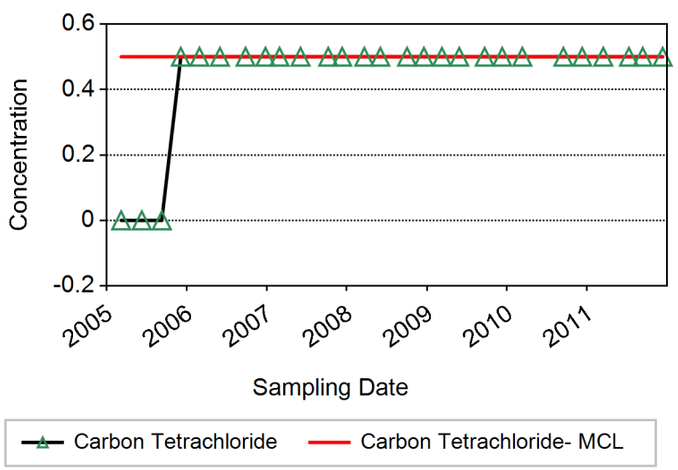
LOCATION = OW-1A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



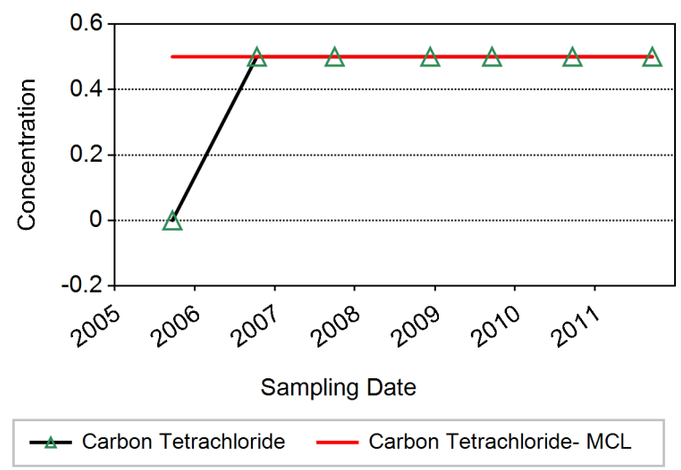
LOCATION = OW-1C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



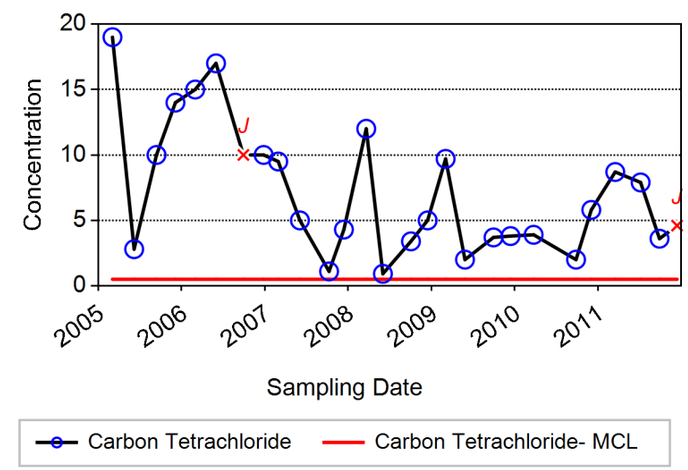
LOCATION = OW-19D
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = OW-1B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = OW-20B
MAXIMUM = 9.7 (µg/L)
MCL = 0.50 (µg/L)



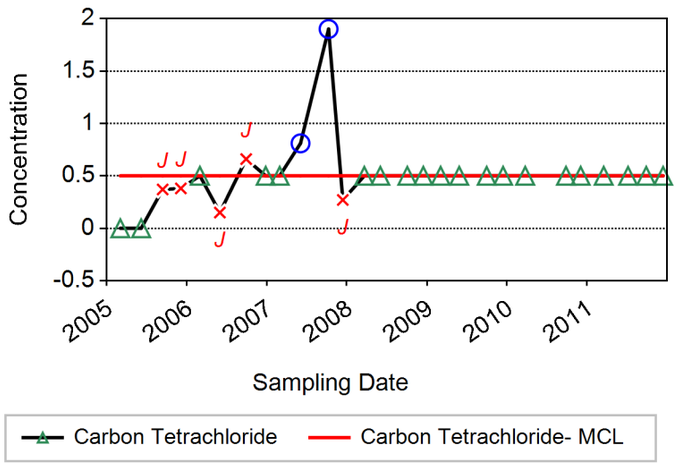
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

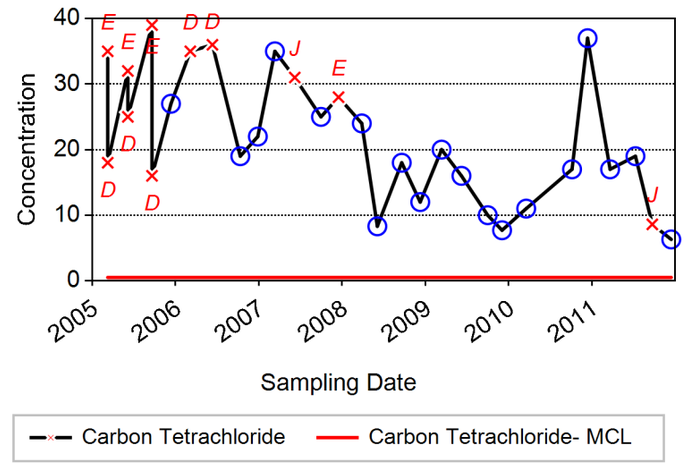
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
o = DETECTED
x = FLAGGED DATA

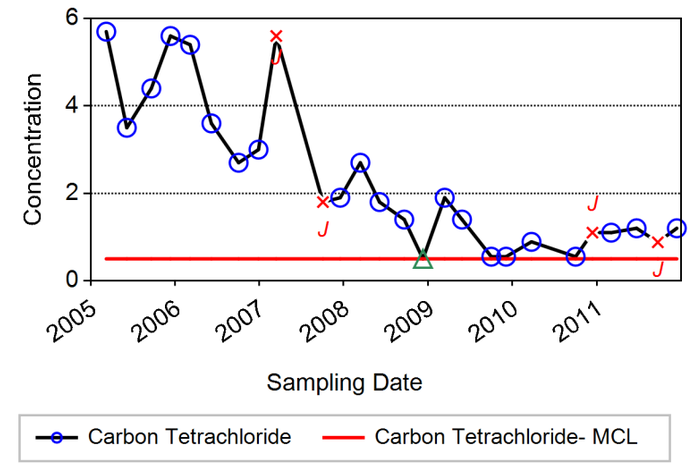
LOCATION = OW-20C
MAXIMUM = 1.9 (µg/L)
MCL = 0.50 (µg/L)



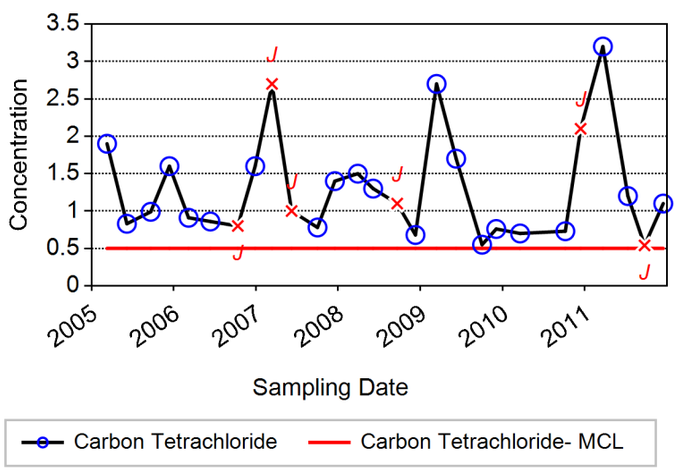
LOCATION = OW-3B
MAXIMUM = 8.6 (µg/L)
MCL = 0.50 (µg/L)



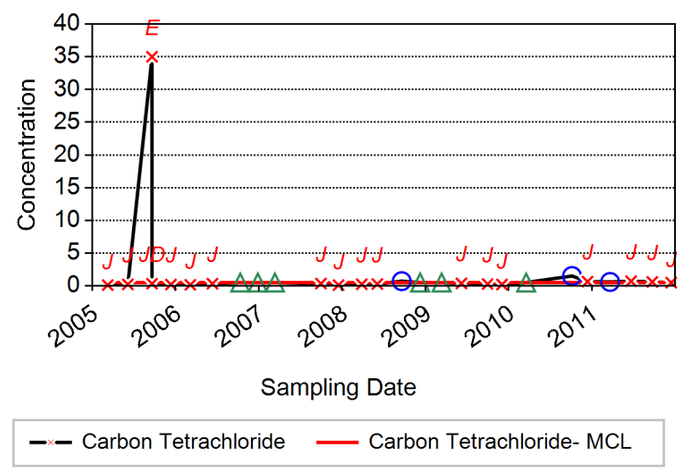
LOCATION = OW-4A
MAXIMUM = 5.7 (µg/L)
MCL = 0.50 (µg/L)



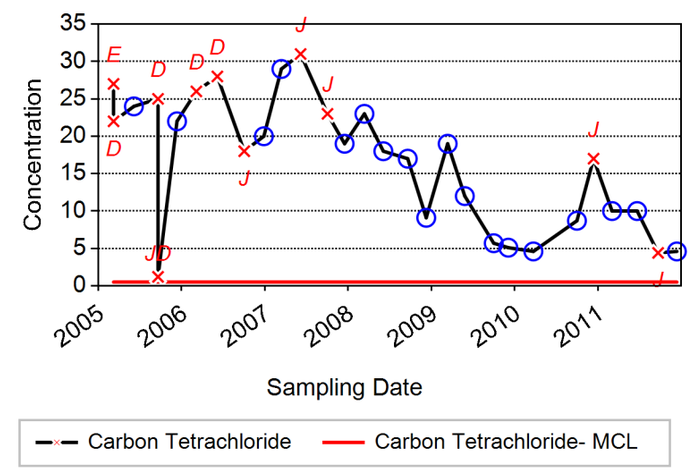
LOCATION = OW-3A
MAXIMUM = 3.2 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = OW-3C
MAXIMUM = 35.0 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = OW-4B
MAXIMUM = 9.1 (µg/L)
MCL = 0.50 (µg/L)



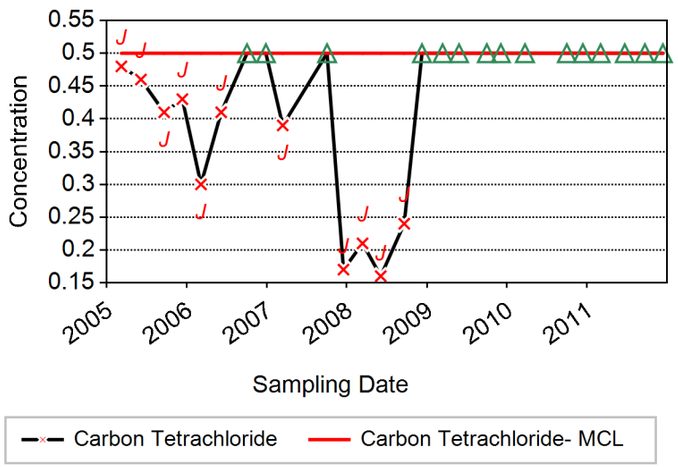
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

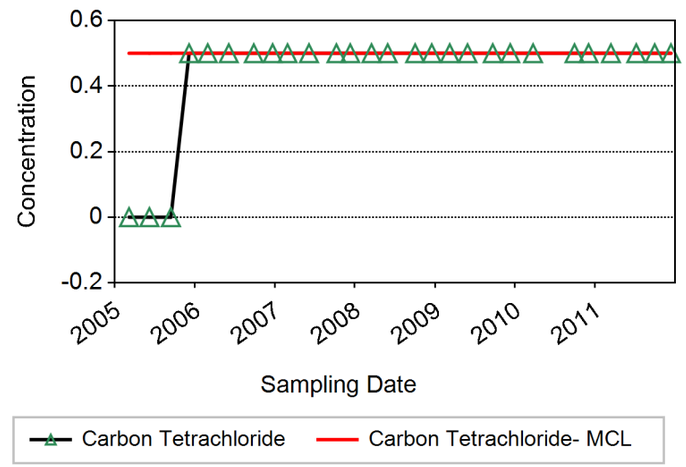
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

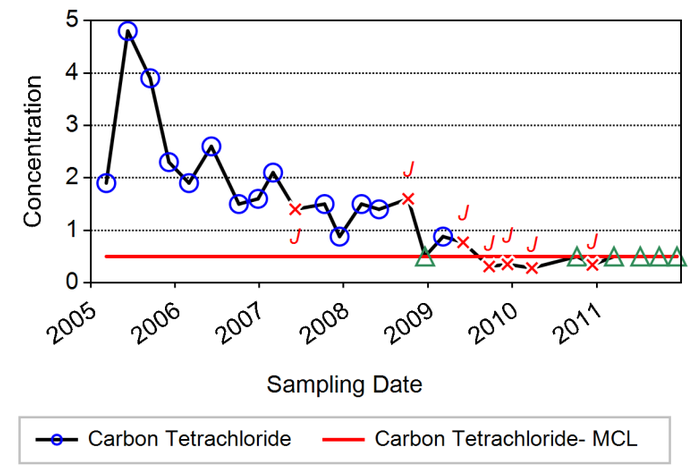
LOCATION = OW-4C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



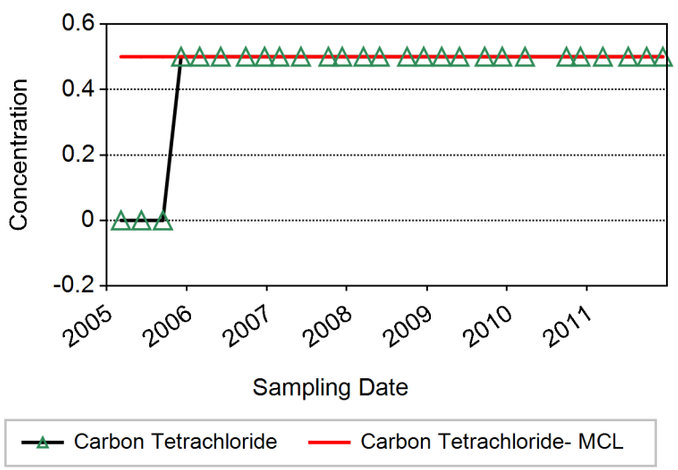
LOCATION = OW-5B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



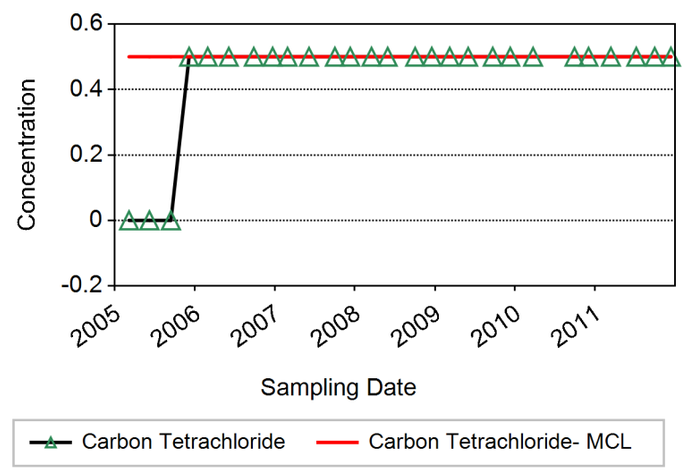
LOCATION = OW-6A
MAXIMUM = 4.8 (µg/L)
MCL = 0.50 (µg/L)



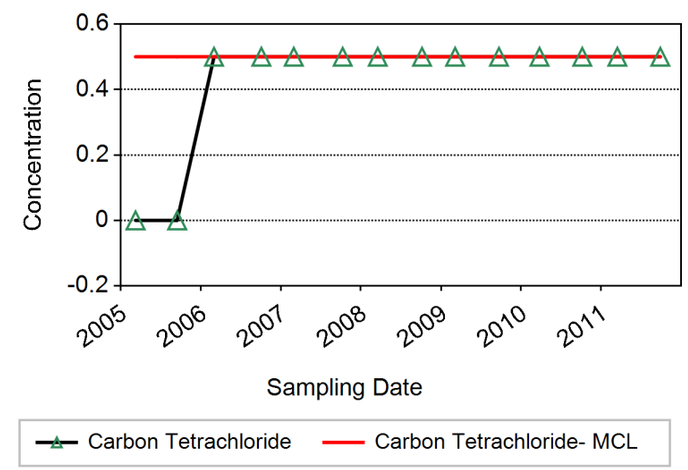
LOCATION = OW-5A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = OW-5C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = OW-6B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



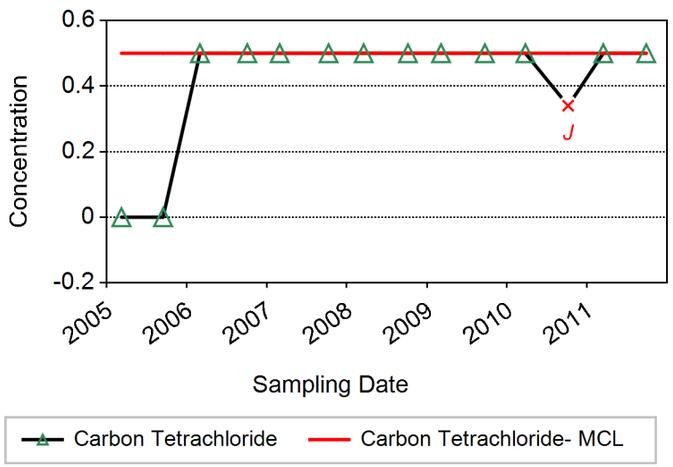
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

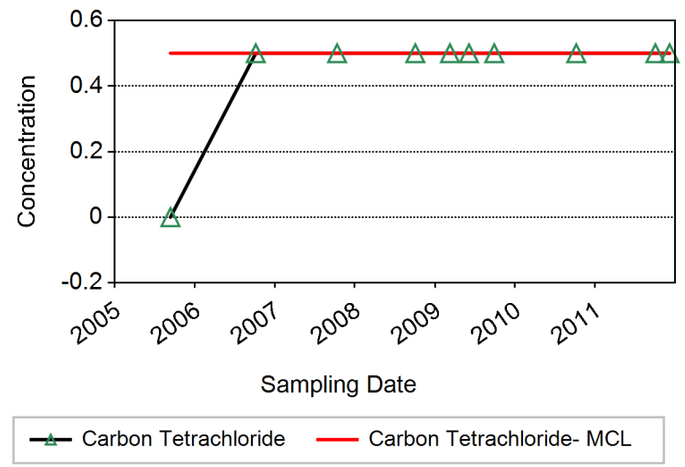
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

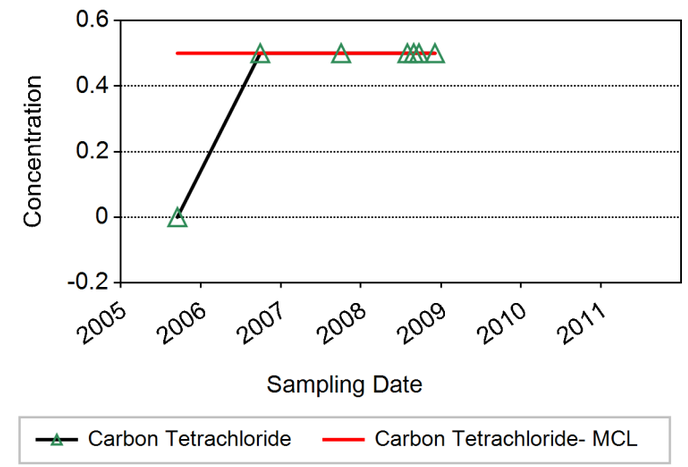
LOCATION = OW-6C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



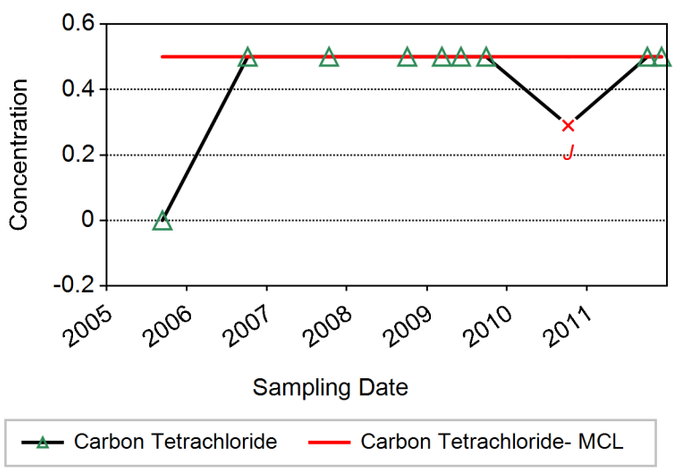
LOCATION = OW-7B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



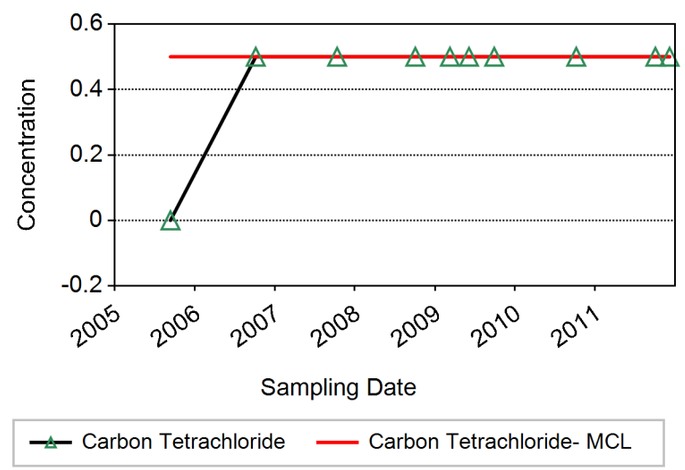
LOCATION = OW-8A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



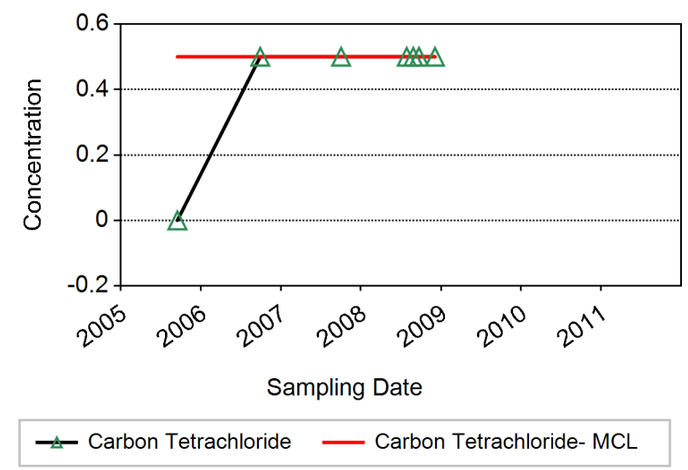
LOCATION = OW-7A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = OW-7C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = OW-8B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



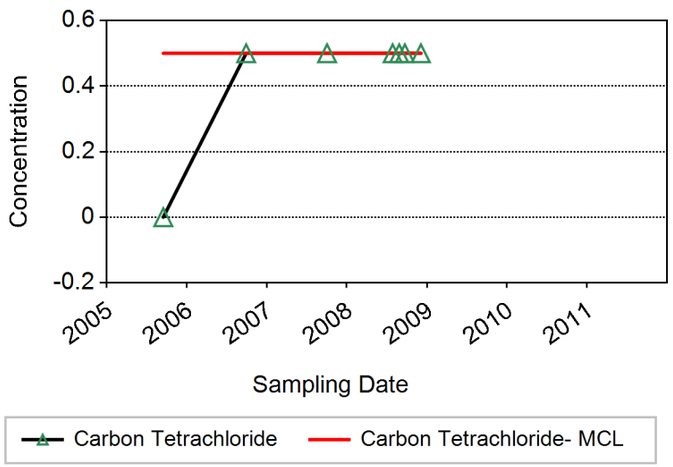
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

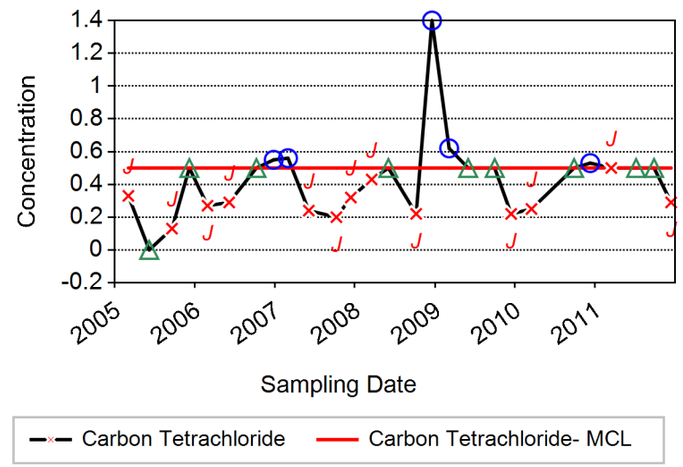
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

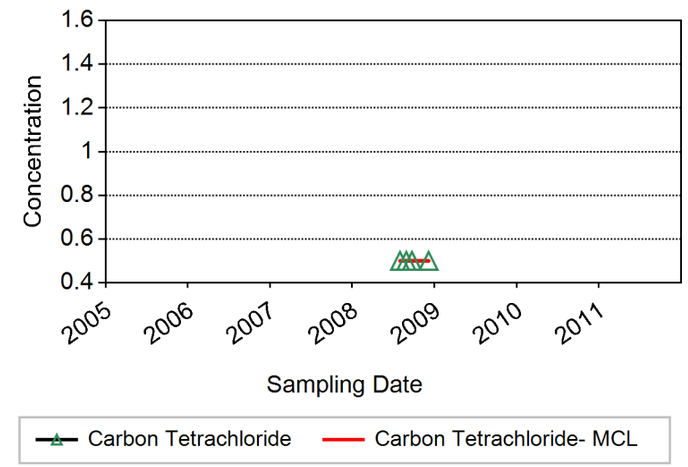
LOCATION = OW-8C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



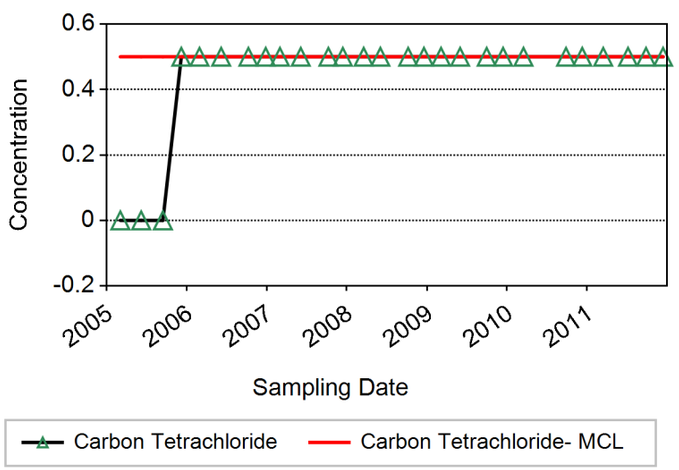
LOCATION = OW-9B
MAXIMUM = 1.4 (µg/L)
MCL = 0.50 (µg/L)



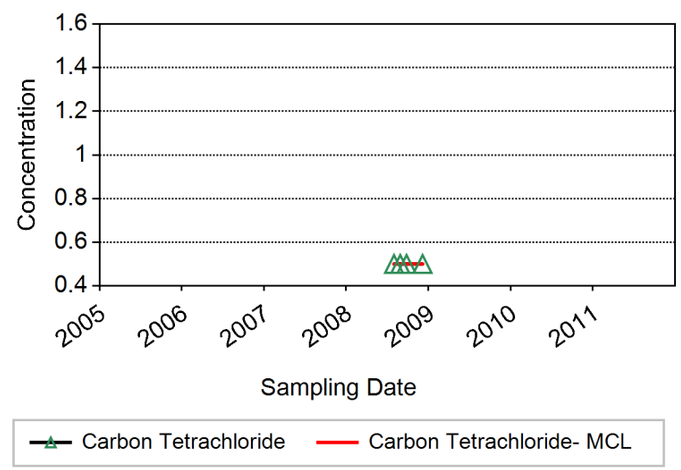
LOCATION = PC-1C
MAXIMUM = ND
MCL = 0.50 (µg/L)



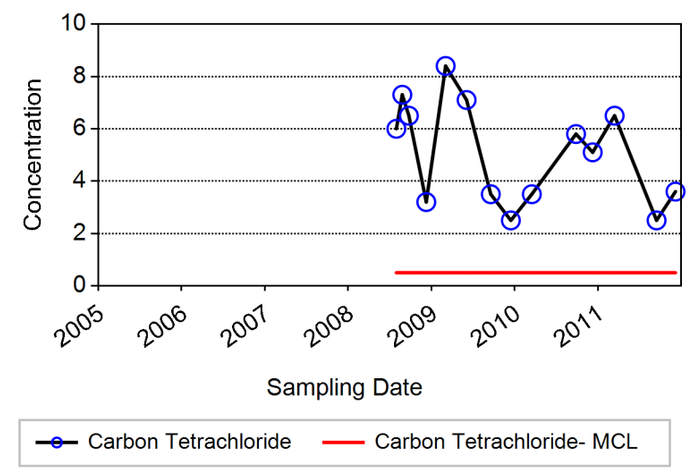
LOCATION = OW-9A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = PC-1B
MAXIMUM = ND
MCL = 0.50 (µg/L)



LOCATION = PC-2B
MAXIMUM = 8.4 (µg/L)
MCL = 0.50 (µg/L)

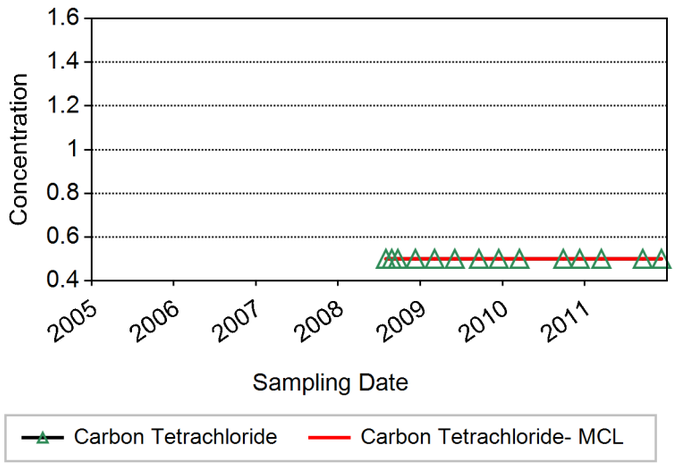


Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

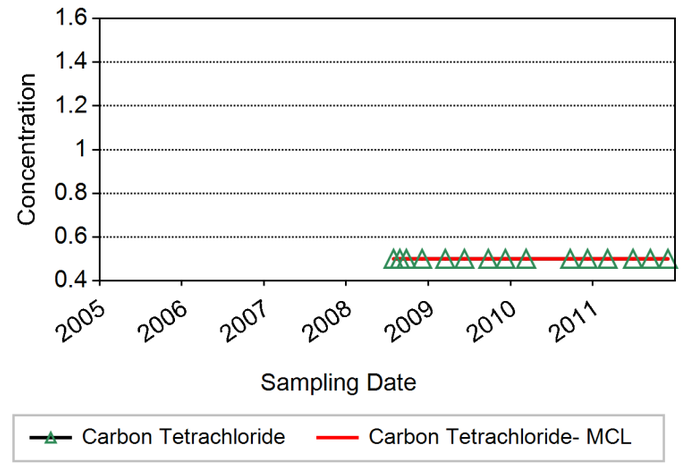
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

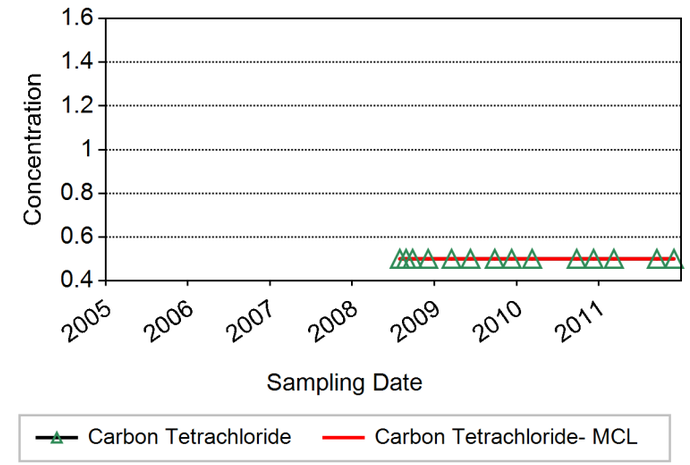
LOCATION = PC-2C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



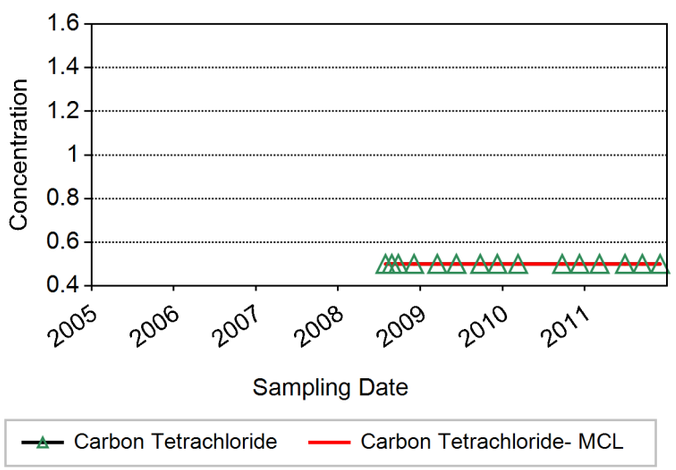
LOCATION = PW-1B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



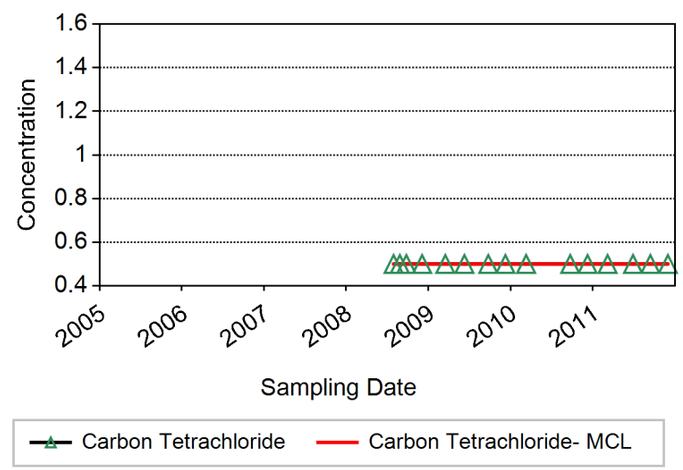
LOCATION = PW-2A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



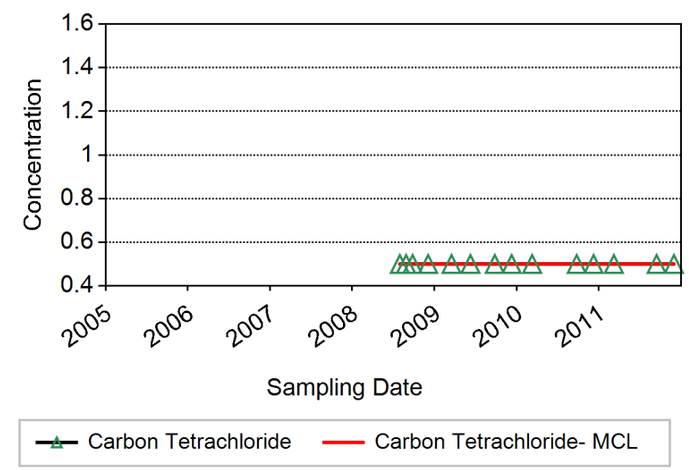
LOCATION = PW-1A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = PW-1C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = PW-2B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



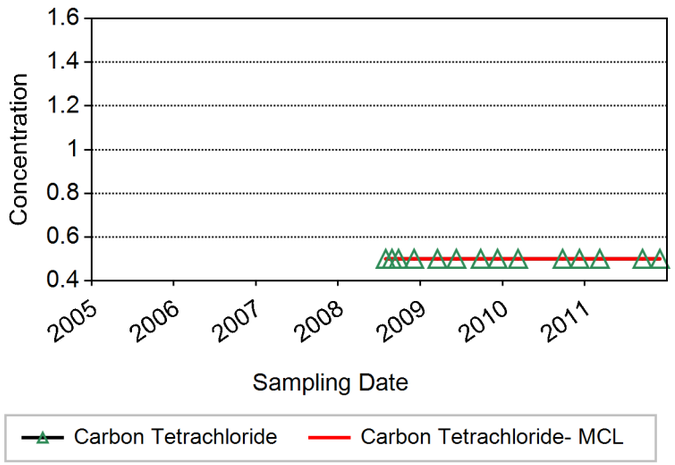
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

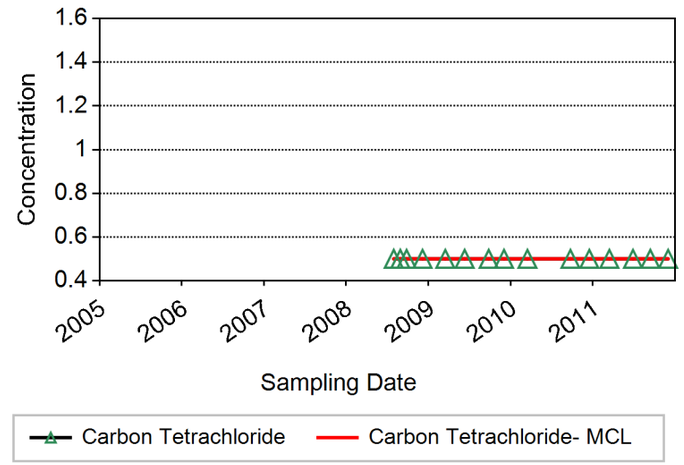
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

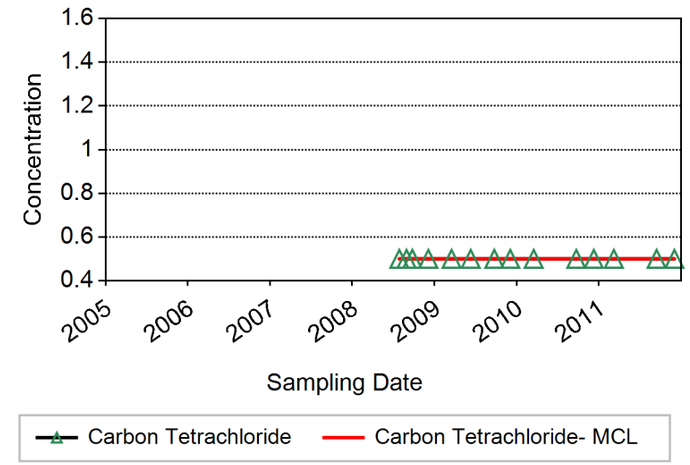
LOCATION = PW-2C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



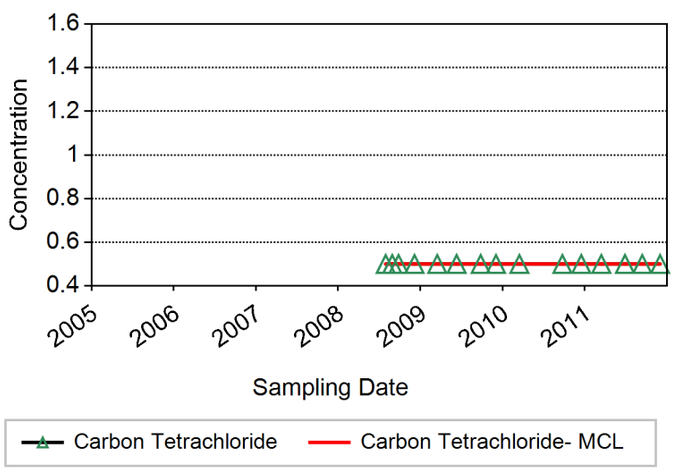
LOCATION = PW-3B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



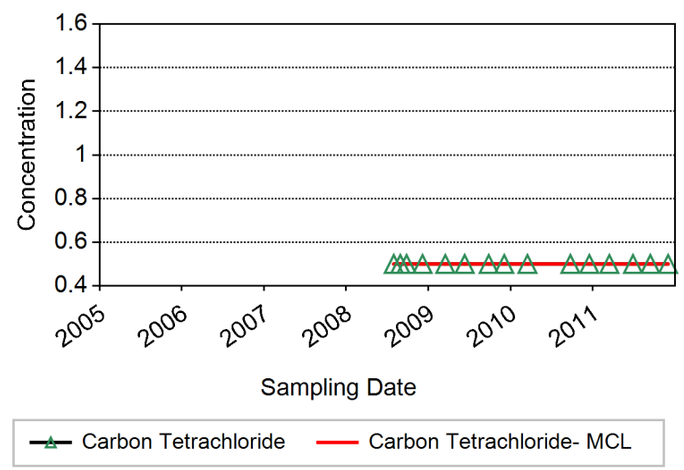
LOCATION = PW-4A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



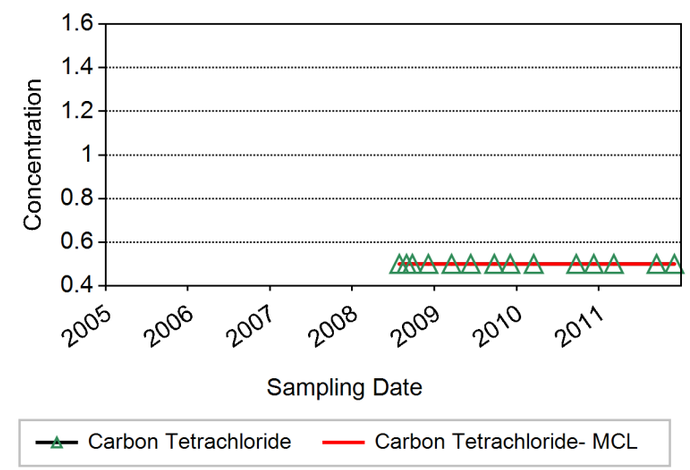
LOCATION = PW-3A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = PW-3C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = PW-4B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)

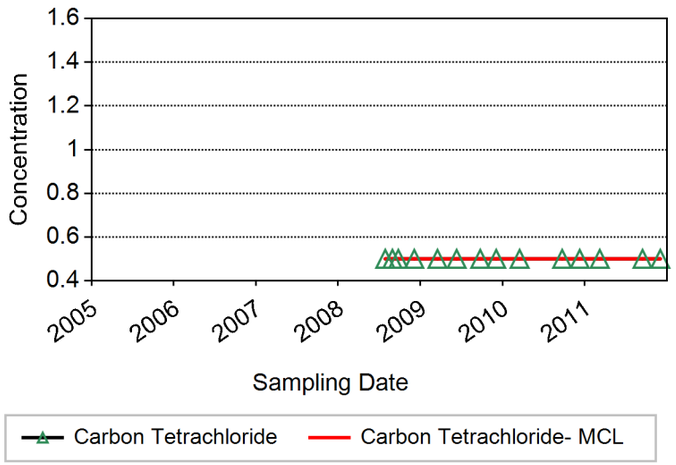


Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

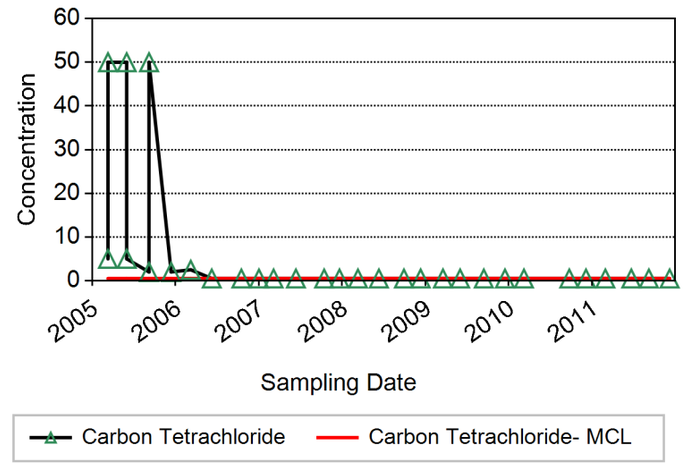
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

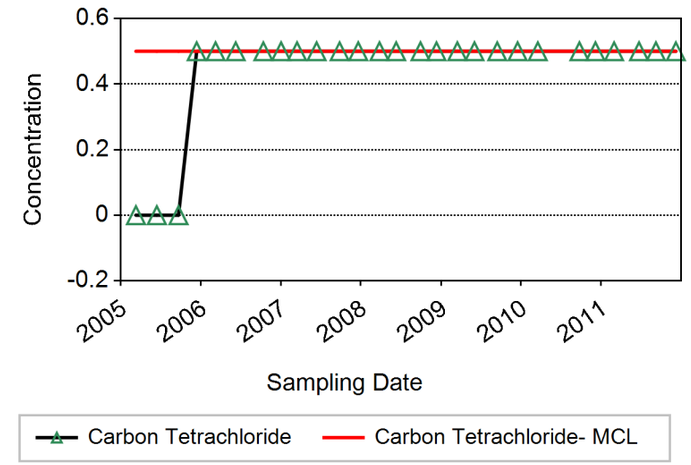
LOCATION = PW-4C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



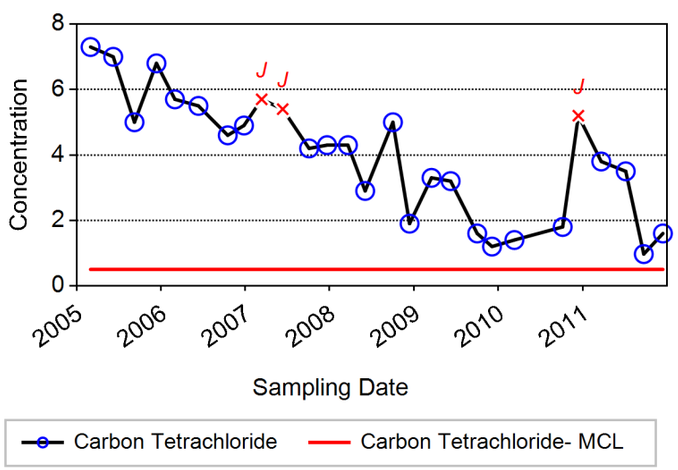
LOCATION = X-1A
MAXIMUM = 50.0 (µg/L)
MCL = 0.50 (µg/L)



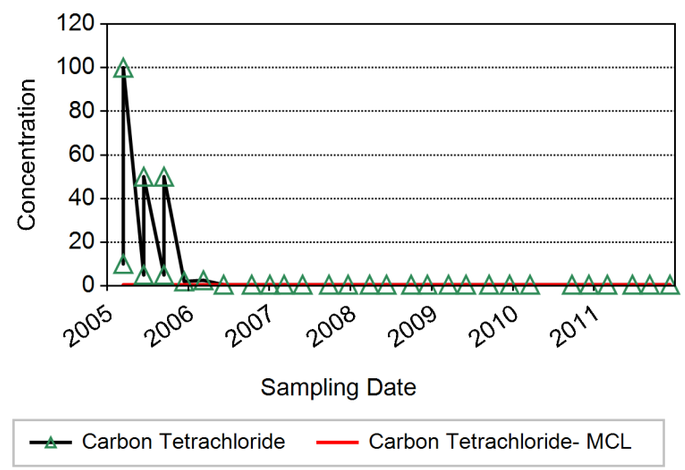
LOCATION = X-1C
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



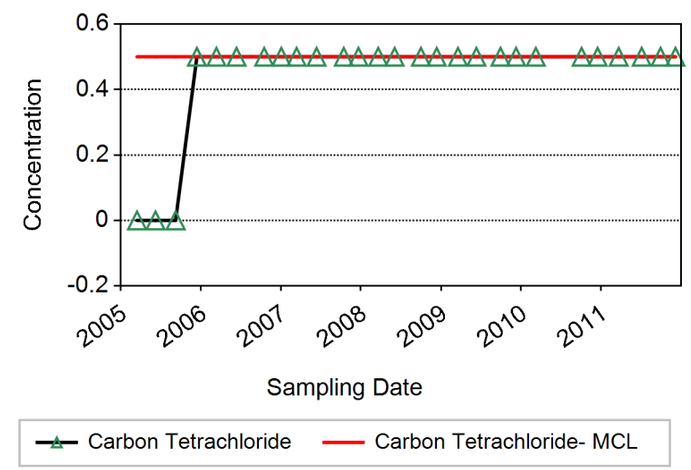
LOCATION = X-10B
MAXIMUM = 7.3 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = X-1B
MAXIMUM = 50.0 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = X-2A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)

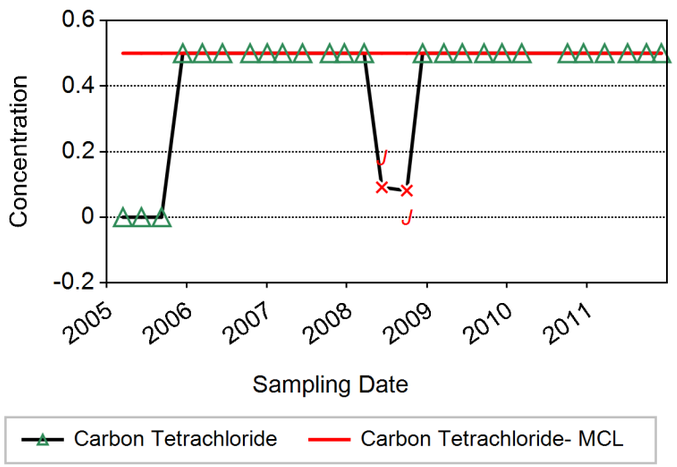


Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

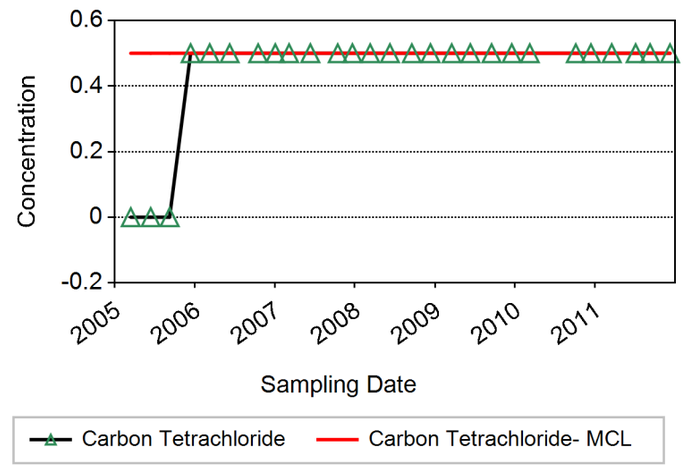
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

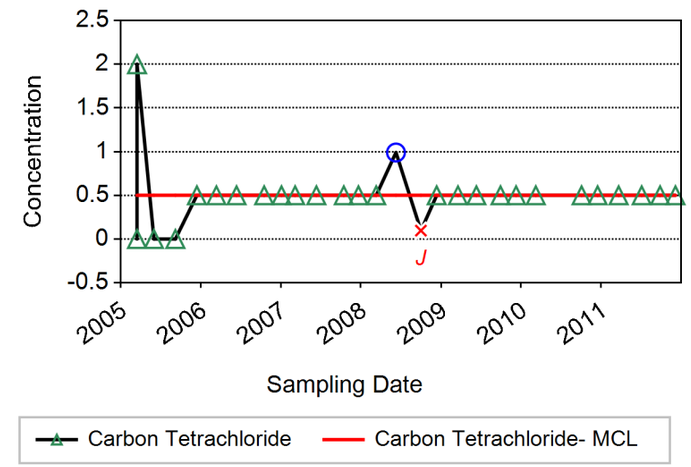
LOCATION = X-2B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



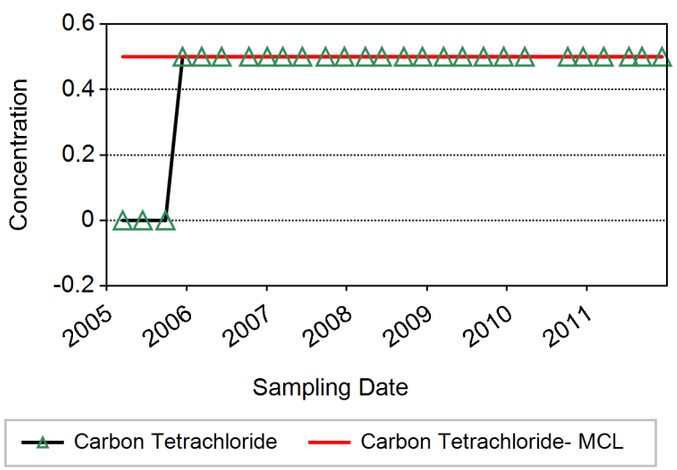
LOCATION = X-3B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



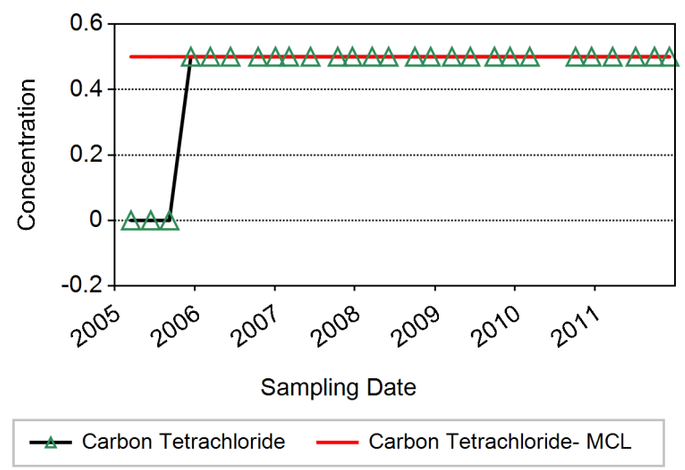
LOCATION = X-4B
MAXIMUM = 2.0 (µg/L)
MCL = 0.50 (µg/L)



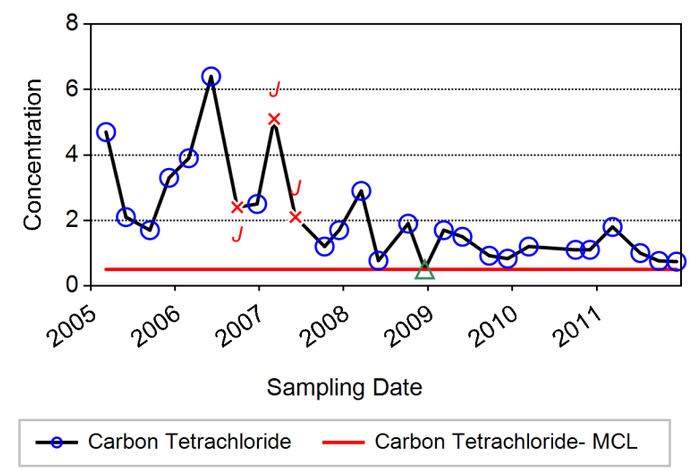
LOCATION = X-3A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = X-4A
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = X-5A
MAXIMUM = 6.4 (µg/L)
MCL = 0.50 (µg/L)



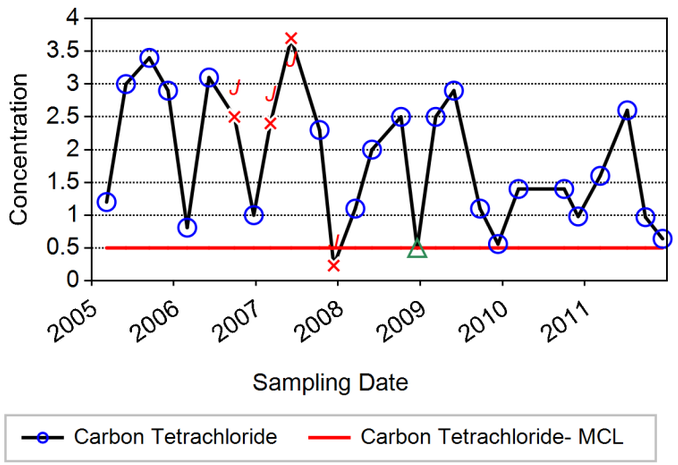
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

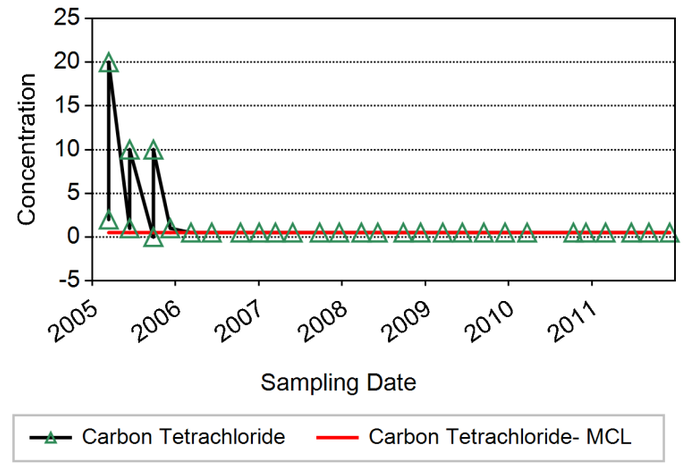
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
O = DETECTED
X = FLAGGED DATA

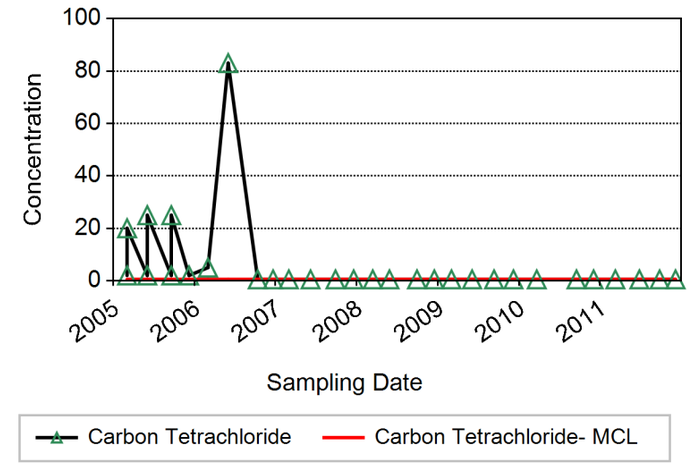
LOCATION = X-5B
MAXIMUM = 3.7 (µg/L)
MCL = 0.50 (µg/L)



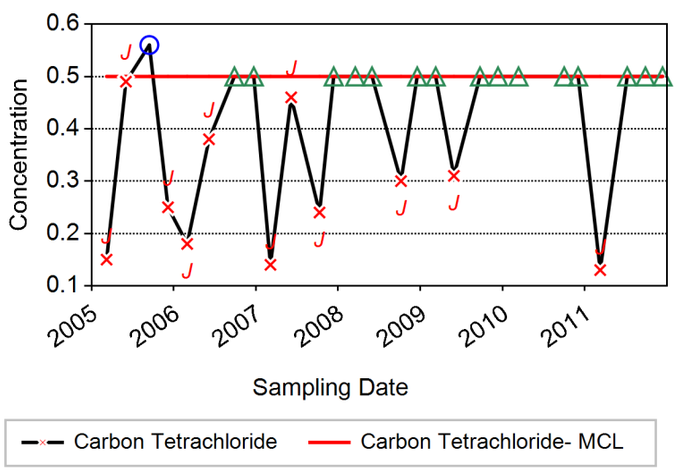
LOCATION = X-6A
MAXIMUM = 20.0 (µg/L)
MCL = 0.50 (µg/L)



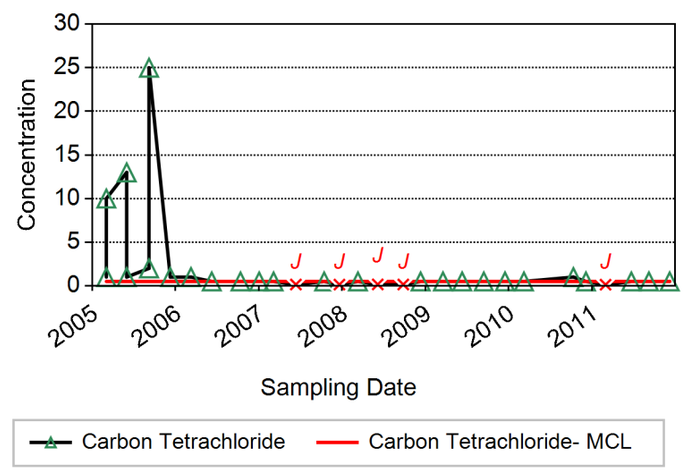
LOCATION = X-7B
MAXIMUM = 83.0 (µg/L)
MCL = 0.50 (µg/L)



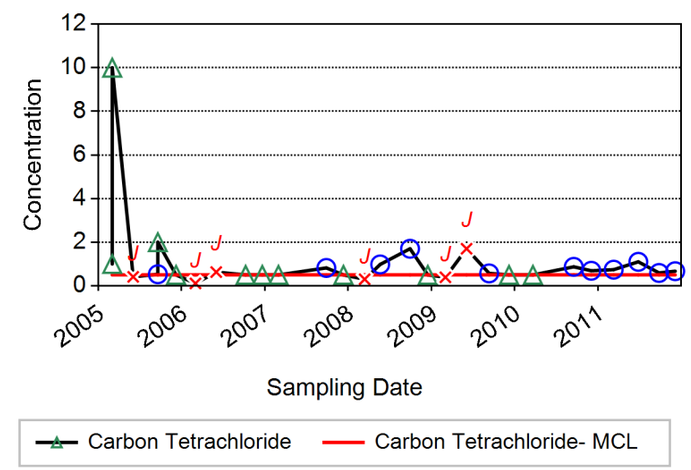
LOCATION = X-5C
MAXIMUM = 0.56 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = X-6B
MAXIMUM = 25.0 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = X-7C
MAXIMUM = 2.0 (µg/L)
MCL = 0.50 (µg/L)



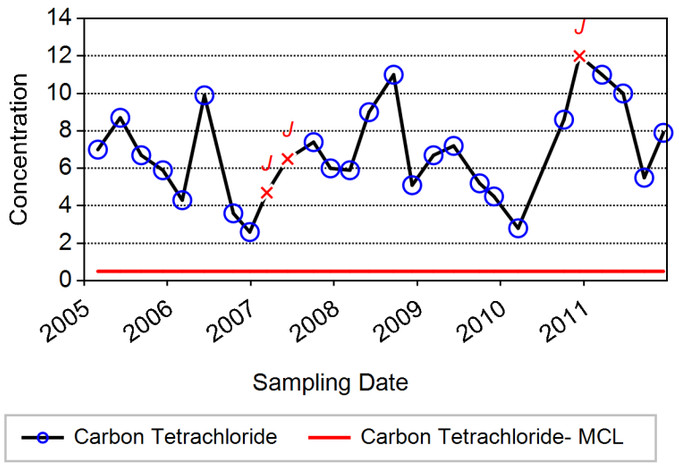
Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Innovative Technical Solutions, Inc.
A Gilbane Company

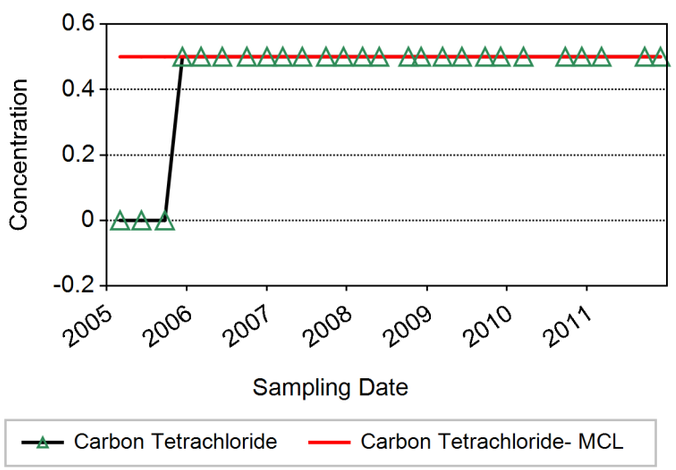
Figure B-4 Chemical Time Series Plot - Carbon tetrachloride (CCL4)

Δ = NON-DETECT
o = DETECTED
x = FLAGGED DATA

LOCATION = X-8B
MAXIMUM = 9.9 (µg/L)
MCL = 0.50 (µg/L)



LOCATION = X-9B
MAXIMUM = 0.50 (µg/L)
MCL = 0.50 (µg/L)



Notes:
Rejected results are excluded.
Reporting Limit is plotted when analyte was not detected.
Non-detects are plotted as zero in those cases where the reporting limit was not available.

Appendix C
Historical Analytical Results for COCs in Monitoring and Extraction Wells

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
AW-1	3/31/1997	ND	ND				504.1
	3/31/1997			ND	ND		624/25ML
	6/25/1997	ND	ND	ND	0.5	ND	624/25ML
	6/26/1997	ND	ND				504.1
	6/23/2000	ND	ND				504.1
	6/23/2000			ND	ND	ND	524.2
	10/2/2000	ND	ND				504.1
	10/2/2000			ND	ND	ND	524.2
	4/18/2001	ND	ND				504.1
	4/18/2001			ND	ND	ND	524.2
	6/7/2001	ND	ND				504.1
	6/7/2001			ND	ND	ND	524.2
	1/11/2002	ND	ND				504.1
	1/11/2002			ND	ND	ND	524.2
	3/22/2002	ND	ND				504.1
	3/22/2002			ND	ND	ND	524.2
	3/3/2004	ND	ND				504.1
	3/3/2004			ND	ND	ND	OLC03.2
	3/13/2006	ND	ND				504.1
	3/13/2006			ND	ND	ND	OLC032
	3/15/2007	ND	ND				504.1
	3/15/2007			ND	ND	ND	TVOL
	3/18/2009	ND	ND				5041
	3/18/2009					ND	524.2 SIM
	3/18/2009			ND	ND		TVOL
	3/23/2010	ND	ND			ND	5242SIM
	3/23/2010			ND	ND		TVOL
	3/18/2011	ND	ND			ND	5242SIM
	3/18/2011			ND	ND		TVOL
	09/09/2011			< 0.5	< 0.5		TVOL
	09/09/2011	< 0.01	< 0.005			0.0053	E524.2S
AW-2A	10/17/1995	11 J	8	560	ND		624/25ML
	5/24/1996	5 J	5.9 J				504.1
	5/24/1996			660 D	ND		624/25ML
	10/23/1997	0.19	0.19 J				504.1
	10/23/1997			40	ND	1	624/25ML
	1/29/1998	0.34	0.21 J				504.1
	1/29/1998			57	ND	5	624/25ML
	5/21/1998	0.89	0.96				504.1
	5/21/1998			150	ND	11	624/25ML
	8/19/1998	0.55	0.49				504.1
	8/19/1998			91 J	0.5 J	6 J	624/25ML
	12/2/1998	ND	ND				504.1
	12/2/1998			12	ND	ND	624/25ML
	3/17/1999	1.2	0.8 J				504.1
	3/17/1999			120	ND	6	624/25ML
	7/1/1999	1.3	1.3				504.1
	7/1/1999			170	ND	12	624/25ML
	9/15/1999	ND	1	130	ND	8	624/25ML
	12/21/1999	0.48	0.53				504.1
	12/21/1999			120	ND	6	624/25ML
	3/29/2000	0.08	ND				504.1
	3/29/2000			50	ND	4	624/25ML
	7/7/2000	0.79	0.97				504.1
	7/7/2000			140	ND	7	524.2
	10/9/2000	0.24	0.16				504.1
	10/9/2000			23	ND	1	524.2
	12/18/2000	0.8	0.57				504.1
	12/18/2000			47	ND	3	524.2
	4/26/2001	0.95	2.9				504.1
	4/26/2001			80	ND	6	524.2
	6/12/2001	0.33	0.38				504.1
	6/12/2001			90	ND	6	524.2
	10/3/2001	71 J	220 J				504.1
	10/3/2001			1800	ND	50	524.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	4/9/2002	ND	6	12	ND	ND	524.2
	6/27/2002	ND	ND	3	ND	ND	524.2
	9/27/2002	ND	ND	3	ND	ND	524.2
	12/16/2002	0.07	0.06				504.1
	12/16/2002			32	ND	3	524.2
	3/25/2003	2	7	100 D	0.09 J		VOCS
	6/12/2003	2.4	0.65	77 D	ND		OLC03.2
	9/22/2003	ND	0.18	21 DB	0.057 J	2 E	OLC03.2
	12/8/2003	0.19	0.089				504.1
	12/8/2003			19 D	ND	ND	OLC03.2
	3/15/2004	0.029	0.032				504.1
	3/15/2004			6.7	ND	0.75	OLC03.2
	6/14/2004	0.014 J	0.063				504.1
	6/14/2004			9.3	ND	0.7	OLC03.2
	9/17/2004	ND	0.025				504.1
	9/17/2004			1.4	ND	ND	OLC03.2
	12/9/2004	ND	0.017 J				504.1
	12/9/2004			1.1	ND	ND	OLC03.2
	3/11/2005	ND	0.012 J				504.1
	3/11/2005			1.8	ND	0.15 J	OLC03.2
	6/13/2005	ND	0.013				504.1
	6/13/2005			1.4	ND	ND	OLC03.2
	9/23/2005	ND	0.018 J				504.1
	9/23/2005			0.82	ND	ND	OLC032
	12/9/2005	ND	0.017 J				504.1
	12/9/2005			0.76	ND	ND	OLC032
	3/9/2006	ND	ND				504.1
	3/9/2006			0.77	ND	ND	OLC032
	6/5/2006	ND	ND				504.1
	6/5/2006			0.68	ND	ND	OLC032
	10/2/2006	ND	0.011 J				504.1
	10/2/2006			ND	ND	ND	TVOL
	1/2/2007	ND	0.011 J				504.1
	1/2/2007			0.51	ND	ND	TVOL
	3/16/2007	ND	0.01 J				504.1
	3/16/2007			0.61 J	ND	ND	TVOL
	6/13/2007	ND	0.012 J				504.1
	6/13/2007			0.44 J	ND	ND	TVOL
	9/25/2007	ND	0.013 J				504.1
	9/25/2007			0.51	ND	ND	TVOL
	12/21/2007	ND	0.014 J				504.1
	12/21/2007			0.44 J	ND	ND	TVOL
	3/26/2008	ND	0.011 J				504.1
	3/26/2008			0.43 J	ND	ND	TVOL
	6/6/2008	ND	ND				504.1
	6/6/2008			ND	ND	ND	TVOL
	9/17/2008	ND	ND				504.1
	9/17/2008			ND	ND	ND	TVOL
	12/10/2008	ND	ND				504.1
	12/10/2008			0.23 J	ND	ND	TVOL
	3/12/2009	ND	ND				5041
	3/12/2009					ND	524.2 SIM
	3/12/2009			ND	ND		TVOL
	6/2/2009	ND	ND				5041
	6/2/2009					0.0076	5242SIM
	6/2/2009			ND	ND		TVOL
	9/14/2009	ND	0.015			0.0093	5242SIM
	9/14/2009			ND	ND		TVOL
	12/4/2009	ND	0.0036 J			0.0056	5242SIM
	12/4/2009			ND	ND		TVOL
	3/23/2010	ND	ND			0.0068	5242SIM
	3/23/2010			ND	ND		TVOL
	6/17/2010	ND	ND			0.0026 J	5242SIM
	6/17/2010			ND	ND		TVOL
	10/12/2010	ND	0.0029 J			0.0044 J	5242SIM

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	10/12/2010			ND	ND		TVOL
	12/6/2010	ND	ND			0.0029 J	5242SIM
	12/6/2010			ND	ND		TVOL
	3/2/2011	ND	ND			0.0059	5242SIM
	3/2/2011			ND	ND		TVOL
	6/23/2011	ND	ND			ND	5242SIM
	6/23/2011			ND	ND		TVOL
	09/09/2011			< 0.5	< 0.5		TVOL
	09/09/2011	< 0.01	0.0031 J			0.0092	E524.2S
	12/09/2011			1.8	< 0.5		TVOL
	12/09/2011	0.13 J	0.025 J			0.47 J	E524.2S
AW-2B	10/17/1995	300 J	220	1100	ND		624/25ML
	5/24/1996	8 J	7.3 J				504.1
	5/24/1996			190 D	ND		624/25ML
	10/23/1997	1.2 J	1.1 J				504.1
	10/23/1997			30	ND	2	624/25ML
	1/29/1998	14 J	23 J				504.1
	1/29/1998			440	ND	17	624/25ML
	5/21/1998	31 J	80 J				504.1
	5/21/1998			1300	ND	53	624/25ML
	8/19/1998	ND	ND				504.1
	8/19/1998			390	ND	4	624/25ML
	12/2/1998	ND	ND				504.1
	12/2/1998			44	ND	ND	624/25ML
	3/17/1999	ND	ND				504.1
	3/17/1999			90	ND	ND	624/25ML
	7/1/1999	ND	ND				504.1
	7/1/1999			100	ND	1	624/25ML
	9/15/1999	ND	ND				504.1
	9/15/1999			120	ND	2	624/25ML
	12/21/1999	ND	ND				504.1
	12/21/1999			93	ND	2	624/25ML
	3/29/2000	ND	ND				504.1
	3/29/2000			60	ND	6	624/25ML
	7/7/2000	2.8	5.1				504.1
	7/7/2000			920	ND	32	524.2
	10/9/2000	3.9	6.4				504.1
	10/9/2000			1600	ND	40	524.2
	12/18/2000	65 J	56 J				504.1
	12/18/2000			700	ND	30	524.2
	4/26/2001	38 J	170 J				504.1
	4/26/2001			1100	ND	40	524.2
	6/12/2001	0.38	0.64				504.1
	6/12/2001			90	ND	6	524.2
	10/3/2001	80 J	260 J				504.1
	10/3/2001			1900	ND	70	524.2
	4/9/2002	ND	2	370	ND	13	524.2
	7/2/2002	ND	1	230	ND	9	524.2
	9/24/2002	ND	2	48	ND	1	524.2
	12/19/2002	25	90	590	ND	25	524.2
	4/1/2003	23	97	450	ND		VOCS
	6/12/2003	ND	320 D	1200 D	ND		OLC03.2
	9/22/2003	49	420	1000 DB	ND	ND	OLC03.2
	12/8/2003	36	550 D	1500 D	ND	ND	OLC03.2
	3/15/2004	0.34 J	0.82	95 D	ND	5.3	OLC03.2
	6/16/2004	ND	0.72	120 D	ND	9.4	OLC03.2
	10/8/2004	0.17 J	0.35 J	75 D	ND	4.4	OLC03.2
	12/9/2004	0.32	0.36				504.1
	12/9/2004			110 E	ND	4.7	OLC03.2
	3/11/2005	0.4	0.43				504.1
	3/11/2005			81 D	ND	8	OLC03.2
	6/13/2005	0.51	0.59				504.1
	6/13/2005			120 D	ND	11 D	OLC03.2
	9/23/2005	0.62	0.57				504.1
	9/23/2005			100 D	ND	5.5	OLC032

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/9/2005	0.5	0.46 J	99	ND	5.1	OLC032
	3/9/2006	0.41	0.39				504.1
	3/9/2006			97 D	ND	4.7	OLC032
	6/5/2006	0.35	0.33				504.1
	6/5/2006			91 D	ND	5.3	OLC032
	10/13/2006	0.32	0.29				504.1
	10/13/2006			54	ND	1.6 J	TVOL
	1/2/2007	0.26	0.26				504.1
	1/2/2007			53 D	ND	3	TVOL
	3/16/2007	0.25	0.24				504.1
	3/16/2007			78	ND	3.2 J	TVOL
	6/13/2007	0.31	0.33				504.1
	6/13/2007			66 J	ND	3.9 J	TVOL
	9/25/2007	0.27	0.26				504.1
	9/25/2007			57	ND	3.3	TVOL
	12/18/2007		0.23				504.1
	12/18/2007	0.24 J			ND	2.4	TVOL
	3/26/2008	0.23	0.21				504.1
	3/26/2008			51	ND	2.5	TVOL
	6/6/2008	0.21	0.19				504.1
	6/6/2008			61	ND	3.3	TVOL
	9/17/2008	0.24	0.22				504.1
	9/17/2008			66	ND	3.7	TVOL
	12/11/2008	0.19	0.17				504.1
	12/11/2008			25	ND	ND	TVOL
	3/19/2009	0.2	0.18				5041
	3/19/2009					2.5	524.2 SIM
	3/19/2009			49	ND		TVOL
	6/4/2009	0.22	0.21				5041
	6/4/2009			54	ND	3.6	TVOL
	9/14/2009	ND	ND	27	ND	1.5	TVOL
	12/4/2009	0.19	0.2				5242SIM
	12/4/2009			19	ND	1.1	TVOL
	3/25/2010	0.1 J	0.12				5242SIM
	3/25/2010			12	ND	0.69	TVOL
	6/17/2010	0.15	0.14				5242SIM
	6/17/2010			15	ND	0.52	TVOL
	10/12/2010	0.062	0.089				5242SIM
	10/12/2010			18	ND	1.2	TVOL
	12/6/2010	0.074	0.07				5242SIM
	12/6/2010			18	ND	0.99	TVOL
	3/2/2011	0.045	0.078				5242SIM
	3/2/2011			14	ND	0.67	TVOL
	6/23/2011	0.066	0.085				5242SIM
	6/23/2011			16	ND	0.66	TVOL
	09/09/2011			8	< 0.5		TVOL
	09/09/2011	0.069	0.083			0.73	E524.2S
	12/08/2011			15	< 0.5		TVOL
	12/08/2011	0.093	0.091			0.81	E524.2S
AW-3	3/29/1994	ND	ND				504.1
	3/29/1994			ND	ND		624/25ML
	8/24/1994	0.05 J	0.05 J				504.1
	8/24/1994			1 J	ND		624/25ML
	12/14/1994	ND	ND				504.1
	12/14/1994			ND	ND		624/25ML
	6/21/1995	ND	ND				504.1
	6/21/1995			ND	ND		624/25ML
	5/15/1996	ND	ND				504.1
	5/15/1996			ND	ND		624/25ML
	6/26/2000	ND	ND				504.1
	6/26/2000			ND	ND	ND	524.2
	10/2/2000	ND	ND				504.1
	10/2/2000			ND	ND	ND	524.2
	12/8/2000	ND	ND				504.1
	12/8/2000			ND	ND	ND	524.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	4/18/2001	ND	ND				504.1
	4/18/2001			ND	ND	ND	524.2
	6/7/2001	ND	ND				504.1
	6/7/2001			ND	ND	ND	524.2
	10/2/2001	ND	ND				504.1
	10/2/2001			ND	ND	ND	524.2
	1/11/2002	ND	ND	ND	ND	ND	524.2
	3/26/2002	ND	ND				504.1
	3/26/2002			ND	ND	ND	524.2
AW-4	3/29/1994	ND	ND				504.1
	3/29/1994			ND	ND		624/25ML
	6/22/1995	ND	ND				504.1
	6/22/1995			ND	ND		624/25ML
	5/15/1996	ND	ND				504.1
	5/15/1996			ND	ND		624/25ML
	1/28/1998	ND	ND				504.1
	1/28/1998			ND	ND	ND	624/25ML
	5/19/1998	ND	ND				504.1
	5/19/1998			ND	ND	ND	624/25ML
	8/17/1998	ND	ND				504.1
	8/17/1998			ND	ND	ND	624/25ML
	11/30/1998	ND	ND				504.1
	11/30/1998			ND	ND	ND	624/25ML
	3/15/1999	ND	ND				504.1
	3/15/1999			ND	ND	ND	624/25ML
	6/24/1999	ND	ND				504.1
	6/24/1999			ND	ND	ND	624/25ML
	9/10/1999	ND	ND				504.1
	9/10/1999			ND	ND	ND	624/25ML
	12/16/1999	ND	ND				504.1
	12/16/1999			ND	ND	ND	624/25ML
	3/23/2000	ND	ND				504.1
	3/23/2000			ND	ND	ND	624/25ML
	6/26/2000	ND	ND				504.1
	6/26/2000			ND	ND	ND	524.2
	10/2/2000	ND	ND				504.1
	10/2/2000			ND	ND	ND	524.2
	12/8/2000	ND	ND				504.1
	12/8/2000			ND	ND	ND	524.2
	4/19/2001	ND	ND				504.1
	4/19/2001			ND	ND	ND	524.2
	6/7/2001	ND	ND				504.1
	6/7/2001			ND	ND	ND	524.2
	9/26/2001	ND	ND				504.1
	9/26/2001			ND	ND	ND	524.2
	1/11/2002	ND	ND				504.1
	1/11/2002			ND	ND	ND	524.2
	3/21/2002	ND	ND				504.1
	3/21/2002			ND	ND	ND	524.2
AW-5	5/15/1996	ND	ND				504.1
	5/15/1996			ND	ND		624/25ML
	1/28/1998	ND	ND				504.1
	1/28/1998			ND	ND	ND	624/25ML
	5/19/1998	ND	ND				504.1
	5/19/1998			ND	ND	ND	624/25ML
	8/17/1998	ND	ND				504.1
	8/17/1998			ND	ND	ND	624/25ML
	11/30/1998	ND	ND				504.1
	11/30/1998			ND	ND	ND	624/25ML
	3/15/1999	ND	ND				504.1
	3/15/1999			ND	ND	ND	624/25ML
	6/24/1999	ND	ND				504.1
	6/24/1999			ND	ND	ND	624/25ML
	9/10/1999	ND	ND				504.1
	9/10/1999			ND	ND	ND	624/25ML

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/16/1999	ND	ND				504.1
	12/16/1999			ND	ND	ND	624/25ML
	3/23/2000	ND	ND				504.1
	3/23/2000			ND	ND	ND	624/25ML
	6/26/2000	ND	ND				504.1
	6/26/2000			ND	ND	ND	524.2
	10/2/2000	ND	ND				504.1
	10/2/2000			ND	ND	ND	524.2
	4/19/2001	ND	ND				504.1
	4/19/2001			ND	ND	ND	524.2
	6/7/2001	ND	ND				504.1
	6/7/2001			ND	ND	ND	524.2
	1/11/2002	ND	ND				504.1
	1/11/2002			ND	ND	ND	524.2
	3/22/2002	ND	ND				504.1
	3/22/2002			ND	ND	ND	524.2
AW-6	3/29/1994	ND	ND				504.1
	3/29/1994			0.7 J	ND		624/25ML
	8/22/1994	0.05 J	0.05 J				504.1
	8/22/1994			1 J	ND		624/25ML
	12/14/1994	ND	ND				504.1
	12/14/1994			1 J	ND		624/25ML
	6/20/1995	ND	ND				504.1
	6/20/1995			0.4 L	ND		624/25ML
	5/16/1996	ND	ND				504.1
	5/16/1996			0.5 J	ND		624/25ML
	6/26/2000	ND	ND				504.1
	6/26/2000			ND	ND	ND	524.2
	10/2/2000	ND	ND				504.1
	10/2/2000			ND	ND	ND	524.2
	12/8/2000	ND	ND				504.1
	12/8/2000			ND	ND	ND	524.2
	4/19/2001	ND	ND				504.1
	4/19/2001			ND	ND	ND	524.2
	6/7/2001	ND	ND				504.1
	6/7/2001			ND	ND	ND	524.2
	10/2/2001	ND	ND				504.1
	10/2/2001			ND	ND	ND	524.2
	1/11/2002	ND	ND				504.1
	1/11/2002			ND	ND	ND	524.2
	3/26/2002	ND	ND				504.1
	3/26/2002			ND	ND	ND	524.2
CityWell29	6/22/2000	ND	ND				504.1
	6/22/2000	ND	ND	ND	ND	ND	524.2
	9/26/2000	ND	ND				504.1
	9/26/2000	ND	ND	ND	ND	ND	524.2
	12/7/2000	ND	ND				504.1
	12/7/2000	ND	ND	ND	ND	ND	524.2
	4/24/2001	ND	ND				504.1
	4/24/2001	ND	ND	ND	ND	ND	524.2
	6/7/2001	ND	ND				504.1
	6/7/2001	ND	ND	ND	ND	ND	524.2
	9/25/2001	ND	ND				504.1
	9/25/2001	ND	ND	ND	ND	ND	524.2
	1/17/2002	ND	ND				504.1
	1/17/2002	ND	ND	ND	ND	ND	524.2
	4/2/2002	ND	ND				504.1
	4/2/2002	ND	ND	ND	ND	ND	524.2
	7/3/2002	ND	ND				504.1
	7/3/2002	ND	ND	ND	ND	ND	524.2
	9/26/2002	ND	ND				504.1
	9/26/2002	ND	ND	ND	ND	ND	524.2
	12/17/2002	ND	ND				504.1
	12/17/2002	ND	ND	ND	ND	ND	524.2
	3/17/2003	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/17/2003			ND	ND		OLC03.2
	6/10/2003	ND	ND				504.1
	6/10/2003	ND	ND	ND	ND		OLC03.2
	9/11/2003	ND	ND				504.1
	9/11/2003	ND	ND	ND	ND	ND	OLC03.2
	12/19/2003	ND	ND				504.1
	12/19/2003	ND	ND	ND	ND	ND	OLC03.2
	3/12/2004	ND	ND				504.1
	3/12/2004	ND	ND	ND	ND	ND	OLC03.2
	6/16/2004	ND	ND				504.1
	6/16/2004	ND	ND	ND	ND	ND	OLC03.2
	6/6/2006	ND	ND				504.1
	6/6/2006			ND	ND	ND	OLC032
	10/3/2006	ND	ND				504.1
	10/3/2006			ND	ND	ND	TVOL
	12/29/2006	ND	ND				504.1
	12/29/2006			ND	ND	ND	TVOL
	3/6/2007	ND	ND				504.1
	3/6/2007			ND	ND	ND	TVOL
	6/6/2007	ND	ND				504.1
	6/6/2007			ND	ND	ND	TVOL
	10/2/2007	ND	ND				504.1
	10/2/2007			ND	ND	ND	TVOL
	12/13/2007	ND	ND				504.1
	12/13/2007			ND	ND	ND	TVOL
	9/23/2008	ND	ND				504.1
	9/23/2008			ND	ND	ND	TVOL
	12/15/2008	ND	ND				504.1
	12/15/2008			ND	ND	ND	TVOL
	3/11/2009	ND	ND				5041
	3/11/2009					ND	524.2 SIM
	3/11/2009			ND	ND		TVOL
	6/3/2009	ND	ND				5041
	6/3/2009					ND	5242SIM
	6/3/2009			ND	ND		TVOL
	6/14/2010	ND	ND			ND	5242SIM
	6/14/2010			ND	ND		TVOL
	9/16/2010	ND	ND			ND	5242SIM
	9/16/2010			ND	ND		TVOL
	12/1/2010	ND	ND			ND	5242SIM
	12/1/2010			ND	ND		TVOL
	3/14/2011	ND	ND			ND	5242SIM
	3/14/2011			ND	ND		TVOL
	7/5/2011	ND	ND			ND	5242SIM
	7/5/2011			ND	ND		TVOL
MW-10A	8/25/1993	ND	ND				504.1
	8/25/1993			ND	ND		624/25ML
	3/31/1994	ND	0.06				504.1
	3/31/1994			ND	ND		624/25ML
	8/25/1994	0.05 J	0.05 J				504.1
	8/25/1994			0.5 J	ND		624/25ML
	12/16/1994	ND	ND				504.1
	12/16/1994			0.5 J	ND		624/25ML
	6/27/1995	ND	ND				504.1
	6/27/1995			ND	ND		624/25ML
	10/17/1995	ND	0.05 J				504.1
	10/17/1995			1 J	ND		624/25ML
	5/21/1996	0.05 J	0.04 J				504.1
	5/21/1996			ND	ND		624/25ML
	10/22/1997	ND	ND				504.1
	10/22/1997			ND	ND	ND	624/25ML
	2/3/1998	ND	ND				504.1
	2/3/1998			ND	ND	ND	624/25ML
	5/22/1998	ND	0.03 J				504.1
	5/22/1998			0.4 J	ND	ND	624/25ML

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	8/19/1998	ND	ND				504.1
	8/19/1998			ND	ND	ND	624/25ML
	12/1/1998	ND	ND				504.1
	12/1/1998			ND	ND	ND	624/25ML
	3/17/1999	ND	ND				504.1
	3/17/1999			ND	ND	ND	624/25ML
	6/29/1999	ND	ND				504.1
	6/29/1999			ND	ND	ND	624/25ML
	9/13/1999	ND	ND				504.1
	9/13/1999			ND	ND	ND	624/25ML
	12/20/1999	ND	ND				504.1
	12/20/1999			ND	ND	ND	624/25ML
	3/27/2000	ND	ND				504.1
	3/27/2000			ND	ND	ND	624/25ML
	6/27/2000	ND	ND				504.1
	6/27/2000			ND	ND	ND	524.2
	10/3/2000	ND	ND				504.1
	10/3/2000			ND	ND	ND	524.2
	12/11/2000	ND	ND				504.1
	12/11/2000			ND	ND	ND	524.2
	4/20/2001	ND	ND				504.1
	4/20/2001			ND	ND	ND	524.2
	6/8/2001	ND	ND				504.1
	6/8/2001			ND	ND	ND	524.2
	9/27/2001	ND	ND				504.1
	9/27/2001			ND	ND	ND	524.2
	1/14/2002	ND	ND				504.1
	1/14/2002			ND	ND	ND	524.2
	3/25/2002	ND	ND				504.1
	3/25/2002			ND	ND	ND	524.2
MW-10B	8/26/1993	ND	ND				504.1
	8/26/1993			0.5 J	0.5 J		624/25ML
	3/31/1994	ND	ND				504.1
	3/31/1994			ND	ND		624/25ML
	8/25/1994	0.05 J	1 J				504.1
	8/25/1994			3	ND		624/25ML
	12/16/1994	ND	ND				504.1
	12/16/1994			0.2 J	ND		624/25ML
	6/27/1995	ND	ND				504.1
	6/27/1995			ND	ND		624/25ML
	10/17/1995	ND	ND				504.1
	10/17/1995			1 J	ND		624/25ML
	5/21/1996	0.05 J	0.05 J				504.1
	5/21/1996			ND	ND		624/25ML
	6/29/1999	ND	ND				504.1
	6/29/1999			ND	ND	ND	624/25ML
	9/13/1999	ND	ND				504.1
	9/13/1999			ND	ND	ND	624/25ML
	12/20/1999	ND	ND				504.1
	12/20/1999			ND	ND	ND	624/25ML
	3/27/2000	ND	ND				504.1
	3/27/2000			ND	ND	ND	624/25ML
	6/27/2000	ND	ND				504.1
	6/27/2000			ND	ND	ND	524.2
	10/3/2000	ND	ND				504.1
	10/3/2000			ND	ND	ND	524.2
	12/11/2000	ND	ND				504.1
	12/11/2000			ND	ND	ND	524.2
	4/20/2001	ND	ND				504.1
	4/20/2001			ND	ND	ND	524.2
	6/8/2001	ND	ND				504.1
	6/8/2001			ND	ND	ND	524.2
	9/27/2001	ND	ND				504.1
	9/27/2001			ND	ND	ND	524.2
	1/14/2002	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	1/14/2002			ND	ND	ND	524.2
	3/25/2002	ND	ND				504.1
	3/25/2002			ND	ND	ND	524.2
MW-11A	8/31/1993	0.06	21				504.1
	8/31/1993			6 J	0.5 J		624/25ML
	3/31/1994	0.14	33 J				504.1
	3/31/1994			100	ND		624/25ML
	8/24/1994	130 J	4600	9900	1		624/25ML
	12/15/1994	16 J	2700	7800	1		624/25ML
	6/23/1995	3.2 J	26 J				504.1
	6/23/1995			290	ND		624/25ML
	10/18/1995	0.85 J	7.2 J				504.1
	10/18/1995			10	ND		624/25ML
	5/24/1996	3.3 J	43 J				504.1
	5/24/1996			300 D	ND		624/25ML
	10/23/1997	0.05	0.68 J				504.1
	10/23/1997			5	1	0.6 J	624/25ML
	1/29/1998	0.07	0.68 J				504.1
	1/29/1998			5	5	0.5 J	624/25ML
	5/21/1998	0.05	1.1 J				504.1
	5/21/1998			3	3	ND	624/25ML
	8/19/1998	1.4 J	22 J				504.1
	8/19/1998			170 J	6 J	8 J	624/25ML
	12/2/1998	0.04 J	1.4 J				504.1
	12/2/1998			3	3	ND	624/25ML
	3/17/1999	0.04 J	1				504.1
	3/17/1999			2	7	ND	624/25ML
	6/28/1999	ND	1.2				504.1
	6/28/1999			3	1.9	ND	624/25ML
	9/14/1999	0.03 J	2				504.1
	9/14/1999			5	13	ND	624/25ML
	12/20/1999	2	90	310	0.4 J	11	624/25ML
	3/30/2000	2.3	72 J				504.1
	3/30/2000			310	0.5	10	624/25ML
	7/10/2000	0.03 J	3.3				504.1
	7/10/2000			7	1	0.7 J	524.2
	10/6/2000	0.01 J	1.9				504.1
	10/6/2000			3	3	ND	524.2
	12/18/2000	0.02	0.71				504.1
	12/18/2000			1	1	ND	524.2
	4/26/2001	ND	0.04				504.1
	4/26/2001			1	22	ND	524.2
	6/12/2001	0.02 J	0.53				504.1
	6/12/2001			0.9 J	0.3 J	ND	524.2
	10/3/2001	0.01 J	0.51				504.1
	10/3/2001			1	0.3 J	ND	524.2
	1/21/2002	0.02	0.81				504.1
	1/21/2002			1	ND	ND	524.2
	4/2/2002	ND	0.27				504.1
	4/2/2002			0.8 J	0.3 J	ND	524.2
	6/25/2002	ND	0.29				504.1
	6/25/2002			ND	0.3 J	ND	524.2
	9/20/2002	0.02	0.97				504.1
	9/20/2002			2	ND	ND	524.2
	12/16/2002	0.01 J	0.64				504.1
	12/16/2002			1	ND	ND	524.2
	3/20/2003	ND	0.32				504.1
	3/20/2003			1	0.2 J		VOCS
	6/12/2003	ND	0.35				504.1
	6/12/2003			0.93	ND		OLC03.2
	9/15/2003	ND	0.55				504.1
	9/15/2003			1.5	0.072 J	ND	OLC03.2
	12/19/2003	ND	0.14				504.1
	12/19/2003			0.35 J	ND	ND	OLC03.2
	3/17/2004	ND	0.069				504.1

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/17/2004			0.34 J	ND	ND	OLC03.2
	6/17/2004	ND	0.21				504.1
	6/17/2004			0.4 J	0.072 J	ND	OLC03.2
	9/21/2004	ND	0.3				504.1
	9/21/2004			0.95	0.31 J	ND	OLC03.2
	12/10/2004	ND	0.33				504.1
	12/10/2004			1	ND	ND	OLC03.2
	3/16/2005	ND	0.29				504.1
	3/16/2005			0.95	ND	0.26 J	OLC03.2
	6/10/2005	ND	0.34				504.1
	6/10/2005			1.3	ND	0.35 J	OLC03.2
	9/7/2005	ND	0.27				504.1
	9/7/2005			1	0.43 J	0.16 J	OLC032
	12/14/2005	ND	0.23				504.1
	12/14/2005			0.79	0.1 J	0.12 J	OLC032
	3/13/2006	ND	0.18				504.1
	3/13/2006			0.55	ND	ND	OLC032
	6/13/2006	ND	0.18				504.1
	6/13/2006			0.77	ND	ND	OLC032
	10/11/2006	ND	0.2				504.1
	10/11/2006			0.73 J	ND	ND	TVOL
	1/3/2007	ND	0.096				504.1
	1/3/2007			ND	ND	ND	TVOL
	3/7/2007	ND	0.035				504.1
	3/7/2007			0.089 J	ND	ND	TVOL
	6/7/2007	ND	0.15				504.1
	6/7/2007			0.45 J	ND	ND	TVOL
	10/15/2007	ND	0.19				504.1
	10/15/2007			ND	ND	ND	TVOL
	12/21/2007	ND	0.16				504.1
	12/21/2007			0.5 J	ND	ND	TVOL
	3/11/2008	ND	0.13				504.1
	3/11/2008			1.1	ND	ND	TVOL
	6/3/2008	ND	0.14				504.1
	6/3/2008			ND	ND	ND	TVOL
	9/26/2008	ND	0.18				504.1
	9/26/2008			ND	ND	0.12 J	TVOL
	12/12/2008	ND	0.18				504.1
	12/12/2008			ND	ND	ND	TVOL
	3/10/2009	ND	0.14				5041
	3/10/2009					0.053	524.2 SIM
	3/10/2009			ND	ND		TVOL
	6/11/2009	ND	0.11				5041
	6/11/2009					1 J	5242SIM
	6/11/2009			0.5 J	ND		TVOL
	9/16/2009	ND	0.19			0.048	5242SIM
	9/16/2009			ND	ND		TVOL
	12/17/2009	ND	0.13			0.034	5242SIM
	12/17/2009			ND	ND		TVOL
	3/9/2010	ND	0.1			0.037	5242SIM
	3/9/2010			0.22 J	ND		TVOL
	6/24/2010	ND	0.13			0.035	5242SIM
	6/24/2010			ND	ND		TVOL
	10/4/2010	ND	0.13			0.044	5242SIM
	10/4/2010			0.49 J	ND		TVOL
	12/16/2010	ND	0.067			0.017	5242SIM
	12/16/2010			0.35 J	ND		TVOL
	3/22/2011	ND	0.049			0.017	5242SIM
	3/22/2011			ND	ND		TVOL
	7/5/2011	ND	0.11			0.041	5242SIM
	7/5/2011			ND	ND		TVOL
	9/15/2011			< 0.5	< 0.5		TVOL
	9/15/2011	<0.01	0.14			0.055	E524.2S
	12/6/2011			< 0.5	< 0.5		TVOL
	12/6/2011	<0.01	0.15			0.037	E524.2S

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
MW-11B	8/30/1993	0.4 J	3 J				504.1
	8/30/1993			19 J	0.5 J		624/25ML
	3/31/1994	5 J	98	510	ND		624/25ML
	8/24/1994	13	200	910	ND		624/25ML
	12/15/1994	19 J	280	1000	ND		624/25ML
	6/27/1995	1.2	13 J				504.1
	10/18/1995	1 J	20	130	ND		624/25ML
	5/28/1996	25 J	370 J				504.1
	5/28/1996			2200 D	ND		624/25ML
	10/23/1997	1.9 J	34 J				504.1
	10/23/1997			570	0.4 J	0.6 J	624/25ML
	1/29/1998	1.3 J	44 J				504.1
	1/29/1998			880	1	0.5 J	624/25ML
	5/21/1998	2.3 J	30 J				504.1
	5/21/1998			360	2	ND	624/25ML
	8/19/1998	0.03 J	0.7				504.1
	8/19/1998			150 J	4 J	8 J	624/25ML
	12/2/1998	1.2 J	19 J				504.1
	12/2/1998			210	6	7	624/25ML
	3/17/1999	0.04 J	0.96				504.1
	3/17/1999			14	4	1	624/25ML
	6/28/1999	0.34	4.3				504.1
	6/28/1999			73	7	4	624/25ML
	9/14/1999	0.18	2.7				504.1
	9/14/1999			14	0.3 J	4	624/25ML
	12/20/1999	ND	60	240	0.4 J	10	624/25ML
	3/30/2000	1.4	33 J				504.1
	3/30/2000			220	0.5	9	624/25ML
	7/10/2000	0.06	0.8				504.1
	7/10/2000			31	4	4	524.2
	10/6/2000	0.04	0.62				504.1
	10/6/2000			21	8	2	524.2
	12/18/2000	0.6	7.1				504.1
	12/18/2000			53	9	3	524.2
	4/26/2001	ND	0.01 J				504.1
	4/26/2001			ND	20	ND	524.2
	6/12/2001	0.22	1.2				504.1
	6/12/2001			23	2.2	1	524.2
	10/3/2001	0.16	1.2				504.1
	10/3/2001			24	2.2	1	524.2
	1/21/2002	0.33	3.2				504.1
	1/21/2002			34	5.4	2	524.2
	4/4/2002	0.7	7				504.1
	4/4/2002			66	5	2	524.2
	7/5/2002	0.42	3.6				504.1
	7/5/2002			42	3.2	2	524.2
	9/20/2002	0.52	4.8				504.1
	9/20/2002			40	3.6	2	524.2
	12/23/2002	0.54	5.9				504.1
	12/23/2002			94	2	3	524.2
	3/28/2003	0.59	6.8				504.1
	3/28/2003			87 D	3		VOCS
	6/13/2003	0.59	5.7				504.1
	6/13/2003			57 D	1.7		OLC03.2
	9/22/2003	0.85	5.5	43 DB	1.8	3.5 D	OLC03.2
	12/19/2003	ND	9.3	68 D	1.8	4.7	OLC03.2
	3/17/2004	ND	5.6	55	1.1 J	3.3	OLC03.2
	6/16/2004	0.31 J	4	13 D	0.88	2.1	OLC03.2
	9/21/2004	ND	4.1	28 D	1.3	2.3	OLC03.2
	12/10/2004	ND	4.8	40 D	1.3	2.4 D	OLC03.2
	3/16/2005	0.43 J	5.2	44 D	0.97	4.1	OLC03.2
	6/10/2005	0.6	6.6	44 D	0.87	6.2	OLC03.2
	9/7/2005	0.36	2.9				504.1
	12/14/2005	0.5	4	38	ND	2.2	OLC032
	3/13/2006	0.5	5	55 D	0.69	2.6	OLC032

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/13/2006	ND	5.4	45 D	0.81	2.6	OLC032
	10/11/2006	ND	3.4 J	46 J	0.59 J	0.96 J	TVOL
	1/3/2007	ND	2.9	37 D	0.44 J	1.7	TVOL
	3/7/2007	0.48 J	6.5 J	61	0.63 J	3.3 J	TVOL
	6/7/2007	0.44 J	4.1 J	37 J	0.61 J	2.3 J	TVOL
	10/17/2007	ND	2.4	28	0.36 J	1.5	TVOL
	12/21/2007	0.22 J	3	30	ND	1.7	TVOL
	3/11/2008	ND	3.8	60	0.4 J	2.6	TVOL
	6/3/2008	ND	3.5	56	ND	ND	TVOL
	9/26/2008	0.33 J	3.1	38	0.51	2.1	TVOL
	12/12/2008	ND	1.4	18	0.23 J	ND	TVOL
	3/10/2009	ND	3.5	38	0.34 J	1.9	TVOL
	6/11/2009	ND	2.5	35	0.32 J	2.4	TVOL
	9/16/2009	ND	0.97	14	ND	0.71	TVOL
	12/17/2009	ND	1.1	13	ND	0.64	TVOL
	3/9/2010	ND	1.2	17	ND	0.56	TVOL
	6/24/2010	ND	1.8	53 J	0.3 J	0.96	TVOL
	10/4/2010	ND	1.9	19	ND	1.7	TVOL
	12/16/2010	ND	1.8	28	ND	1.4	TVOL
	3/22/2011	ND	2.3	35	0.23 J	1.7	TVOL
	7/5/2011	ND	1.9	36	ND	1.3	TVOL
	9/15/2011	< 0.5	0.63	11	< 0.5	0.58	TVOL
	12/06/2011	< 0.5	1.1	20	< 0.5	0.74	TVOL
MW-12A	8/31/1993	ND	0.2				504.1
	8/31/1993			1 J	6 J		624/25ML
	3/31/1994	ND	ND				504.1
	3/31/1994			1	54		624/25ML
	8/24/1994	0.05 J	0.05 J				504.1
	8/24/1994			1 J	57		624/25ML
	12/15/1994	ND	ND				504.1
	12/15/1994			1	56		624/25ML
	6/23/1995	ND	ND				504.1
	6/23/1995			2	62		624/25ML
	10/18/1995	ND	ND				504.1
	10/18/1995			1 J	58		624/25ML
	5/28/1996	ND	0.02 J				504.1
	5/28/1996			1 J	31 J		624/25ML
	10/23/1997	ND	ND				504.1
	10/23/1997			0.6 J	28	ND	624/25ML
	1/29/1998	ND	ND				504.1
	1/29/1998			0.5 J	33	ND	624/25ML
	5/21/1998	ND	ND				504.1
	5/21/1998			0.5 J	50	ND	624/25ML
	12/2/1998	ND	ND				504.1
	3/17/1999	ND	0.06 J				504.1
	3/17/1999			0.6 J	35	ND	624/25ML
	7/10/2000	ND	ND				504.1
	7/10/2000			ND	40	ND	524.2
	10/9/2000	ND	ND				504.1
	10/9/2000			ND	16	ND	524.2
	12/18/2000	ND	ND				504.1
	12/18/2000			ND	25	ND	524.2
	4/26/2001	ND	ND				504.1
	4/26/2001			ND	17	ND	524.2
	6/12/2001	ND	ND				504.1
	6/12/2001			1	63	ND	524.2
	10/3/2001	ND	ND				504.1
	10/3/2001			ND	24	ND	524.2
	1/21/2002	ND	ND				504.1
	1/21/2002			ND	19	ND	524.2
	4/4/2002	ND	ND				504.1
	4/4/2002			ND	23	ND	524.2
	6/28/2002	ND	ND				504.1
	6/28/2002			0.5 J	29	ND	524.2
	9/23/2002	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	9/23/2002			ND	17	ND	524.2
	12/17/2002	ND	ND				504.1
	12/17/2002			ND	12	ND	524.2
	3/25/2003	ND	ND				504.1
	3/25/2003			0.5 J	13		VOCS
	6/13/2003	ND	ND				504.1
	6/13/2003			0.33 J	14		OLC03.2
	9/22/2003	ND	ND				504.1
	9/22/2003			0.47 J	16	ND	OLC03.2
	12/19/2003	ND	ND				504.1
	12/19/2003			0.43 J	13	ND	OLC03.2
	3/17/2004	ND	0.015 J				504.1
	3/17/2004			0.36 J	4.7	ND	OLC03.2
	6/16/2004	ND	ND				504.1
	6/16/2004			0.27 J	5.5	ND	OLC03.2
	10/4/2004	ND	ND				504.1
	10/4/2004			0.25 J	6.3	ND	OLC03.2
	11/30/2004	ND	ND				504.1
	11/30/2004			ND	6.2	ND	OLC03.2
	3/2/2005	ND	ND				504.1
	3/2/2005			ND	7	ND	OLC03.2
	6/13/2005	ND	ND				504.1
	6/13/2005			0.36 J	7.6	ND	OLC03.2
	9/7/2005	ND	ND				504.1
	9/7/2005			0.29 J	6	ND	OLC032
	12/14/2005	ND	ND				504.1
	12/14/2005			0.29 J	4.8	ND	OLC032
	3/13/2006	ND	ND				504.1
	3/13/2006			0.34 J	5.6	ND	OLC032
	6/9/2006	ND	ND				504.1
	6/9/2006			0.32 J	4.6	ND	OLC032
	10/3/2006	ND	ND				504.1
	10/3/2006			ND	3.6	ND	TVOL
	1/3/2007	ND	ND				504.1
	1/3/2007			ND	3.4	ND	TVOL
	3/7/2007	ND	0.01 J				504.1
	3/7/2007			0.43 J	4.2 J	0.089 J	TVOL
	6/7/2007	ND	0.012 J				504.1
	6/7/2007			0.33 J	3.8 J	0.15 J	TVOL
	10/15/2007	ND	ND				504.1
	10/15/2007			ND	3.3	ND	TVOL
	12/21/2007	ND	ND				504.1
	12/21/2007			ND	2.9	ND	TVOL
	3/11/2008	ND	ND				504.1
	3/11/2008			0.4 J	3.2	ND	TVOL
	6/9/2008	ND	ND				504.1
	6/9/2008			ND	3.6	ND	TVOL
	9/26/2008	ND	ND				504.1
	9/26/2008			ND	2.9	ND	TVOL
	12/12/2008	ND	ND				504.1
	12/12/2008			ND	1.7	ND	TVOL
	3/19/2009	ND	ND				5041
	3/19/2009					0.049	524.2 SIM
	3/19/2009			ND	2.4		TVOL
	6/11/2009	ND	ND				5041
	6/11/2009					0.04	5242SIM
	6/11/2009			ND	2.4		TVOL
	9/16/2009	ND	0.0049 J			0.053	5242SIM
	9/16/2009			ND	0.93		TVOL
	12/16/2009	ND	0.0061			0.05	5242SIM
	12/16/2009			ND	0.9		TVOL
	3/9/2010	ND	0.004 J			0.04	5242SIM
	3/9/2010			ND	0.84		TVOL
	6/24/2010	ND	0.0036 J			0.042	5242SIM
	6/24/2010			ND	2.5		TVOL

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	10/6/2010	ND	0.0028 J			0.035	5242SIM
	10/6/2010			ND	1.4		TVOL
	12/16/2010	ND	0.0031 J			0.03	5242SIM
	12/16/2010			0.34 J	1.5		TVOL
	3/22/2011	ND	0.0037 J			0.042	5242SIM
	3/22/2011			0.33 J	1.8		TVOL
	7/5/2011	ND	0.003 J			0.034	5242SIM
	7/5/2011			ND	1.8		TVOL
	09/26/2011			< 0.5	0.71		TVOL
	09/26/2011	< 0.01	< 0.005			0.032	E524.2S
	12/09/2011			< 0.5	< 0.5		TVOL
	12/09/2011	< 0.01	0.0032 J			0.037 J	E524.2S
MW-12B	8/31/1993	ND	0.06				504.1
	8/31/1993			3 J	6 J		624/25ML
	3/31/1994	ND	ND				504.1
	3/31/1994			3	220		624/25ML
	8/24/1994	0.05 J	0.05 J				504.1
	8/24/1994			3	220		624/25ML
	12/15/1994	ND	ND				504.1
	12/15/1994			4	240		624/25ML
	6/23/1995	ND	ND				504.1
	6/23/1995			4	220		624/25ML
	10/18/1995	0.01 L	0.19				504.1
	10/18/1995			5	100		624/25ML
	5/28/1996	ND	ND				504.1
	5/28/1996			4	160 J		624/25ML
	8/19/1998	ND	ND				504.1
	8/19/1998			3 J	33 J	0.6 J	624/25ML
	12/2/1998	ND	ND	0.8 J	27	ND	624/25ML
	7/10/2000	ND	0.04 J				504.1
	7/10/2000			2	95	ND	524.2
	10/9/2000	ND	ND				504.1
	10/9/2000			2	56	0.5 J	524.2
	12/18/2000	ND	ND				504.1
	12/18/2000			2	60	ND	524.2
	4/26/2001	ND	ND				504.1
	4/26/2001			1	44	ND	524.2
	6/12/2001	ND	ND				504.1
	6/12/2001			ND	16	ND	524.2
	10/3/2001	ND	ND				504.1
	10/3/2001			1	44	ND	524.2
	1/21/2002	ND	ND				504.1
	1/21/2002			1	46	ND	524.2
	4/4/2002	ND	ND				504.1
	4/4/2002			1	36	ND	524.2
	6/28/2002	ND	ND				504.1
	6/28/2002			1	38	ND	524.2
	9/23/2002	ND	ND				504.1
	9/23/2002			0.9 J	28	ND	524.2
	12/17/2002	ND	ND				504.1
	12/17/2002			1	28	ND	524.2
	3/27/2003	ND	ND				504.1
	3/27/2003			1	33		VOCS
	6/13/2003	ND	ND				504.1
	6/13/2003			1.1	20 D		OLC03.2
	9/22/2003	ND	ND				504.1
	9/22/2003			1	20 D	ND	OLC03.2
	12/19/2003	ND	ND				504.1
	12/19/2003			1.5 D	33 D	ND	OLC03.2
	3/17/2004	ND	ND				504.1
	3/17/2004			1.2	17 D	ND	OLC03.2
	6/17/2004	ND	ND				504.1
	6/17/2004			0.9	19	0.23 J	OLC03.2
	10/8/2004	ND	ND				504.1
	10/8/2004			0.87	17	0.19 J	OLC03.2

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	11/30/2004	ND	ND				504.1
	11/30/2004			0.8	19	ND	OLC03.2
	3/2/2005	ND	ND				504.1
	3/2/2005			0.85	18	0.28 J	OLC03.2
	6/13/2005	ND	ND				504.1
	6/13/2005			1	20	0.41 J	OLC03.2
	9/7/2005	ND	ND				504.1
	9/7/2005			0.85	16	0.15 J	OLC032
	12/14/2005	ND	ND				504.1
	12/14/2005			0.8	17	0.11 J	OLC032
	3/13/2006	ND	ND				504.1
	3/13/2006			0.87	18	0.14 J	OLC032
	6/9/2006	ND	ND				504.1
	6/9/2006			0.79	15	ND	OLC032
	10/4/2006	ND	ND				504.1
	10/4/2006			0.63	11	ND	TVOL
	1/3/2007	ND	ND				504.1
	1/3/2007			ND	13	ND	TVOL
	3/7/2007	ND	ND				504.1
	3/7/2007			0.98 J	17	0.14 J	TVOL
	6/7/2007	ND	ND				504.1
	6/7/2007			0.87 J	19 J	0.17 J	TVOL
	10/15/2007	ND	ND				504.1
	10/15/2007			ND	22	ND	TVOL
	12/21/2007	ND	ND				504.1
	12/21/2007			0.89	18	ND	TVOL
	3/11/2008	ND	ND				504.1
	3/11/2008			0.95	19	ND	TVOL
	6/9/2008	ND	ND				504.1
	6/9/2008			0.95	19	ND	TVOL
	9/26/2008	ND	ND				504.1
	9/26/2008			0.91	21 E	0.13 J	TVOL
	12/12/2008	ND	ND				504.1
	12/12/2008			ND	13	ND	TVOL
	3/19/2009	ND	ND				5041
	3/19/2009					0.092	524.2 SIM
	3/19/2009			0.87	15		TVOL
	6/11/2009	ND	ND				5041
	6/11/2009					0.086	5242SIM
	6/11/2009			0.68	13		TVOL
	9/16/2009	ND	ND			0.11	5242SIM
	9/16/2009			ND	8.3		TVOL
	12/16/2009	ND	ND			0.097	5242SIM
	12/16/2009			0.45 J	8.3		TVOL
	3/9/2010	ND	ND			0.087	5242SIM
	3/9/2010			0.39 J	8.6		TVOL
	6/24/2010	ND	ND			0.096	5242SIM
	6/24/2010			0.78	9.8 J		TVOL
	10/6/2010	ND	ND			0.082	5242SIM
	10/6/2010			0.64	12		TVOL
	12/16/2010	ND	ND			0.063	5242SIM
	12/16/2010			ND	17		TVOL
	3/22/2011	ND	ND			0.098	5242SIM
	3/22/2011			1	20		TVOL
	7/5/2011	ND	ND			0.095	5242SIM
	7/5/2011			0.79	19		TVOL
	09/26/2011			0.34 J	3.4		TVOL
	09/26/2011	< 0.01	< 0.005			0.1	E524.2S
	12/09/2011			< 0.5	12 J		TVOL
	12/09/2011	< 0.01	< 0.005			0.099 J	E524.2S
MW-13A	8/30/1993	0.01 J	0.02 J				504.1
	8/30/1993			0.5 J	0.5 J		624/25ML
	3/30/1994	ND	ND				504.1
	3/30/1994			2	ND		624/25ML
	8/24/1994	0.05 J	0.05 J				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	8/24/1994			4	ND		624/25ML
	12/15/1994	ND	ND				504.1
	12/15/1994			3	ND		624/25ML
	6/27/1995	0.15	1.3 J				504.1
	10/19/1995	ND	0.09				504.1
	10/19/1995			2 J	ND		624/25ML
	5/22/1996	0.05 J	0.04 J				504.1
	5/22/1996			0.6 J	ND		624/25ML
	10/3/1996	0.25 J	0.25 J				504.1
	10/3/1996			2	ND		624/25ML
	3/27/1997	ND	ND				504.1
	3/27/1997			0.8 J	ND		624/25ML
	6/25/1997	0.0022 J	0.3				504.1
	6/25/1997			1	ND	ND	624/25ML
	10/17/1997	ND	ND				504.1
	10/17/1997			3	ND	ND	624/25ML
	5/20/1998	ND	0.02 J				504.1
	5/20/1998			6	ND	ND	624/25ML
	8/18/1998	ND	ND				504.1
	8/19/1998	ND	ND	0.5 J	ND	ND	624/25ML
	12/2/1998	ND	ND				504.1
	12/2/1998			ND	ND	ND	624/25ML
	3/16/1999	ND	ND				504.1
	3/16/1999			ND	ND	ND	624/25ML
	6/25/1999	ND	ND				504.1
	6/25/1999			ND	ND	ND	624/25ML
	9/10/1999	ND	ND				504.1
	9/10/1999			0.5 J	ND	ND	624/25ML
	12/17/1999	ND	ND				504.1
	12/17/1999			ND	ND	ND	624/25ML
	3/24/2000	ND	ND				504.1
	3/24/2000			0.5 J	ND	ND	624/25ML
	6/27/2000	ND	ND				504.1
	6/27/2000			0.6 J	ND	ND	524.2
	10/4/2000	ND	ND				504.1
	10/4/2000			0.8 J	ND	ND	524.2
	12/12/2000	ND	ND				504.1
	12/12/2000			0.8 J	ND	ND	524.2
	4/23/2001	ND	ND				504.1
	4/23/2001			0.6 J	ND	ND	524.2
	6/11/2001	ND	ND				504.1
	6/11/2001			0.5 J	ND	ND	524.2
	9/28/2001	ND	ND				504.1
	9/28/2001			0.7 J	ND	ND	524.2
	1/16/2002	ND	ND				504.1
	1/16/2002			0.8 J	ND	ND	524.2
	3/21/2002	ND	ND				504.1
	3/21/2002			0.6	ND	ND	524.2
	9/9/2002	ND	0.18				504.1
	9/9/2002			2	ND	ND	524.2
	9/5/2003	ND	ND				504.1
	9/5/2003			0.44 J	ND	ND	OLC03.2
	9/13/2004	ND	ND				504.1
	9/13/2004			0.86	ND	ND	OLC03.2
	9/21/2005	ND	ND				504.1
	9/21/2005			0.71	ND	ND	OLC032
	10/11/2006	ND	ND				504.1
	10/11/2006			ND	ND	ND	TVOL
	10/3/2007	ND	ND				504.1
	10/3/2007			ND	ND	ND	TVOL
	12/10/2008	ND	ND				504.1
	12/10/2008			ND	ND	ND	TVOL
	9/17/2009	ND	ND			ND	5242SIM
	9/17/2009			ND	ND		TVOL
	9/23/2010	ND	ND			ND	5242SIM

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	9/23/2010			ND	ND		TVOL
	09/19/2011			< 0.5	< 0.5		TVOL
	09/19/2011	< 0.01	< 0.005			< 0.005	E524.2S
MW-13B	8/30/1993	0.01 J	0.02 J				504.1
	8/30/1993			0.5 J	0.5 J		624/25ML
	3/30/1994	ND	ND				504.1
	3/30/1994			ND	ND		624/25ML
	8/24/1994	0.05 J	0.05 J				504.1
	8/24/1994			1 J	ND		624/25ML
	12/15/1994	ND	ND				504.1
	12/15/1994			0.3 J	ND		624/25ML
	6/30/1995	ND	ND				504.1
	6/30/1995			ND	ND		624/25ML
	10/19/1995	ND	0.17				504.1
	10/19/1995			1 J	ND		624/25ML
	5/22/1996	0.05 J	0.27 J				504.1
	5/22/1996			ND	ND		624/25ML
	10/4/1996	0.25 J	0.25 J				504.1
	10/4/1996			1 J	ND		624/25ML
	3/28/1997	0.01 J	0.13				504.1
	3/28/1997			3	ND		624/25ML
	6/25/1997	ND	0.12 J				504.1
	6/26/1997	ND	ND				504.1
	6/26/1997			0.7 J	ND	ND	624/25ML
	10/20/1997	ND	ND				504.1
	10/20/1997			ND	ND	ND	624/25ML
	5/20/1998	ND	ND				504.1
	5/20/1998			ND	ND	ND	624/25ML
	8/18/1998	ND	ND				504.1
	8/18/1998			ND	ND	ND	624/25ML
	12/2/1998	ND	ND				504.1
	12/2/1998			ND	ND	ND	624/25ML
	3/16/1999	ND	ND				504.1
	3/16/1999			ND	ND	ND	624/25ML
	6/25/1999	ND	ND				504.1
	6/25/1999			ND	ND	ND	624/25ML
	9/10/1999	ND	ND				504.1
	9/10/1999			ND	ND	ND	624/25ML
	12/17/1999	ND	ND				504.1
	12/17/1999			ND	ND	ND	624/25ML
	3/24/2000	ND	ND				504.1
	3/24/2000			ND	ND	ND	624/25ML
	6/27/2000	ND	ND				504.1
	6/27/2000			ND	ND	ND	524.2
	10/4/2000	ND	ND				504.1
	10/4/2000			ND	ND	ND	524.2
	12/12/2000	ND	ND				504.1
	12/12/2000			ND	ND	ND	524.2
	4/23/2001	ND	ND				504.1
	4/23/2001			ND	ND	ND	524.2
	6/11/2001	ND	ND				504.1
	6/11/2001			ND	ND	ND	524.2
	9/28/2001	ND	ND				504.1
	9/28/2001			2	ND	ND	524.2
	1/16/2002	ND	ND				504.1
	1/16/2002			9	ND	ND	524.2
	3/21/2002	ND	ND				504.1
	3/21/2002			5	ND	ND	524.2
	6/26/2002	ND	ND				504.1
	6/26/2002			2	ND	ND	524.2
	9/19/2002	ND	ND				504.1
	9/19/2002			2	ND	ND	524.2
	12/19/2002	ND	ND				504.1
	12/19/2002			8	ND	ND	524.2
	3/21/2003	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/21/2003			5	ND		VOCS
	6/19/2003	ND	ND				504.1
	6/19/2003			4.4	0.094 J		OLC03.2
	9/15/2003	ND	ND				504.1
	9/15/2003			11	ND	ND	OLC03.2
	12/15/2003	ND	ND				504.1
	12/15/2003			12	0.15 J	ND	OLC03.2
	3/12/2004	ND	0.013 J				504.1
	3/12/2004			9.1	0.13 J	ND	OLC03.2
	6/7/2004	ND	ND				504.1
	6/7/2004			4.6	ND	ND	OLC03.2
	9/13/2004	ND	ND				504.1
	9/13/2004			8.9	ND	ND	OLC03.2
	11/30/2004	ND	ND				504.1
	11/30/2004			6.9	ND	ND	OLC03.2
	3/14/2005	ND	ND				504.1
	3/14/2005			7.2	ND	ND	OLC03.2
	6/13/2005	ND	ND				504.1
	6/13/2005			4.2	ND	ND	OLC03.2
	9/21/2005	ND	ND				504.1
	9/21/2005			5	ND	ND	OLC032
	12/14/2005	ND	ND				504.1
	12/14/2005			9.3	ND	ND	OLC032
	3/9/2006	ND	ND				504.1
	3/9/2006			10	ND	ND	OLC032
	6/12/2006	ND	ND				504.1
	6/12/2006			5.4	ND	ND	OLC032
	10/12/2006	ND	ND				504.1
	10/12/2006			6.5	ND	ND	TVOL
	1/3/2007	ND	ND				504.1
	1/3/2007			7.3	ND	ND	TVOL
	3/12/2007	ND	ND				504.1
	3/12/2007			10 J	ND	ND	TVOL
	6/13/2007	ND	ND				504.1
	6/13/2007			8.4 J	ND	ND	TVOL
	10/3/2007	ND	ND				504.1
	10/3/2007			ND	ND	ND	TVOL
	12/21/2007	ND	ND				504.1
	12/21/2007			8	ND	ND	TVOL
	3/28/2008	ND	ND				504.1
	3/28/2008			8.2	ND	ND	TVOL
	6/10/2008	ND	ND				504.1
	6/10/2008			5.1	ND	ND	TVOL
	12/11/2008	ND	ND				504.1
	12/11/2008			5.1	ND	ND	TVOL
	3/14/2009	ND	ND				5041
	3/14/2009					ND	524.2 SIM
	3/14/2009			6.3	ND		TVOL
	6/8/2009	ND	ND				5041
	6/8/2009					ND	5242SIM
	6/8/2009			5.6	ND		TVOL
	9/18/2009	ND	ND			ND	5242SIM
	9/18/2009			3.8	ND		TVOL
	12/16/2009	ND	ND			0.0025 J	5242SIM
	12/16/2009			4.2	ND		TVOL
	3/19/2010	ND	ND			ND	5242SIM
	3/19/2010			3.1	ND		TVOL
	6/15/2010	ND	ND			ND	5242SIM
	6/15/2010			ND	ND		TVOL
	9/23/2010	ND	ND			ND	5242SIM
	9/23/2010			4.2	ND		TVOL
	12/16/2010	ND	ND			ND	5242SIM
	12/16/2010			6.3	ND		TVOL
	3/15/2011	ND	ND			ND	5242SIM
	3/15/2011			7.3	ND		TVOL

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	7/8/2011	ND	ND			ND	5242SIM
	7/8/2011			2	ND		TVOL
	09/20/2011			2.3	< 0.5		TVOL
	09/20/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/08/2011			4.4	< 0.5		TVOL
	12/08/2011	< 0.01	< 0.005			< 0.005	E524.2S
MW-13C	8/27/1993	ND	0.05 J			ND	504.1
	8/27/1993			0.5 J	0.5 J		624/25ML
	3/30/1994	ND	ND				504.1
	3/30/1994			ND	ND		624/25ML
	8/24/1994	0.05 J	0.02 J				504.1
	8/24/1994			ND	ND		624/25ML
	12/15/1994	ND	0.01 J				504.1
	12/15/1994			ND	ND		624/25ML
	6/28/1995	ND	0.56				504.1
	6/28/1995			1	ND		624/25ML
	10/19/1995	ND	1.6				504.1
	10/19/1995			3 J	ND		624/25ML
	5/22/1996	0.05 J	1.3 J				504.1
	5/22/1996			2	ND		624/25ML
	10/3/1996	0.25 J	0.25 J				504.1
	10/3/1996			0.7 J	ND		624/25ML
	3/27/1997	ND	ND				504.1
	3/27/1997			ND	ND		624/25ML
	6/25/1997	ND	0.04 J				504.1
	6/25/1997			ND	ND	ND	624/25ML
	10/17/1997	ND	ND				504.1
	10/17/1997			ND	ND	ND	624/25ML
	5/20/1998	ND	ND				504.1
	5/20/1998			0.2 J	ND	ND	624/25ML
	8/18/1998	ND	ND				504.1
	8/19/1998	ND	ND	ND	ND	ND	624/25ML
	12/2/1998	ND	ND				504.1
	12/2/1998			ND	ND	ND	624/25ML
	3/16/1999	ND	ND				504.1
	3/16/1999			ND	ND	ND	624/25ML
	6/28/1999	ND	ND				504.1
	6/28/1999			ND	ND	ND	624/25ML
	9/10/1999	ND	ND				504.1
	9/10/1999			ND	ND	ND	624/25ML
	12/17/1999	ND	ND				504.1
	12/17/1999			ND	ND	ND	624/25ML
	3/24/2000	ND	ND				504.1
	3/24/2000			ND	ND	ND	624/25ML
	6/27/2000	ND	ND				504.1
	6/27/2000			ND	ND	ND	524.2
	10/4/2000	ND	ND				504.1
	10/4/2000			ND	ND	ND	524.2
	12/12/2000	ND	ND				504.1
	12/12/2000			ND	ND	ND	524.2
	4/23/2001	ND	ND				504.1
	4/23/2001			ND	ND	ND	524.2
	6/11/2001	ND	ND				504.1
	6/11/2001			ND	ND	ND	524.2
	9/28/2001	ND	ND				504.1
	9/28/2001			ND	ND	ND	524.2
	1/16/2002	ND	ND				504.1
	1/16/2002			ND	ND	ND	524.2
	3/21/2002	ND	ND				504.1
	3/21/2002			ND	ND	ND	524.2
	6/24/2002	ND	ND				504.1
	6/24/2002			ND	ND	ND	524.2
	9/9/2002	ND	ND				504.1
	9/9/2002			ND	ND	ND	524.2
	12/9/2002	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/9/2002			ND	ND	ND	524.2
	3/13/2003	ND	ND				504.1
	3/13/2003			ND	ND		OLC03.2
	3/13/2003		ND				VOCS
	6/16/2003	ND	ND				504.1
	6/16/2003			0.025 J	ND		OLC03.2
	9/5/2003	ND	ND				504.1
	9/5/2003			0.043 J	ND	ND	OLC03.2
	12/15/2003	ND	ND				504.1
	12/15/2003			ND	0.18 J	ND	OLC03.2
	3/12/2004	ND	ND				504.1
	3/12/2004			ND	0.055 J	ND	OLC03.2
	6/7/2004	ND	ND				504.1
	6/7/2004			ND	ND	ND	OLC03.2
	9/14/2004	ND	ND				504.1
	9/14/2004			0.11 J	ND	ND	OLC03.2
	11/30/2004	ND	ND				504.1
	11/30/2004			ND	ND	ND	OLC03.2
	3/14/2005	ND	ND				504.1
	3/14/2005			ND	ND	ND	OLC03.2
	6/13/2005	ND	ND				504.1
	6/13/2005			ND	ND	ND	OLC03.2
	9/21/2005	ND	ND				504.1
	9/21/2005			ND	ND	ND	OLC032
	12/13/2005	ND	ND				504.1
	12/13/2005			0.21 J	ND	ND	OLC032
	3/8/2006	ND	ND				504.1
	3/8/2006			0.19 J	ND	ND	OLC032
	6/12/2006	ND	ND				504.1
	6/12/2006			ND	ND	ND	OLC032
	10/11/2006	ND	ND				504.1
	10/11/2006			ND	ND	ND	TVOL
	1/2/2007	ND	ND				504.1
	1/2/2007			ND	ND	ND	TVOL
	3/12/2007	ND	ND				504.1
	3/12/2007			ND	ND	ND	TVOL
	6/12/2007	ND	ND				504.1
	6/12/2007			ND	ND	ND	TVOL
	10/5/2007	ND	ND				504.1
	10/5/2007			ND	ND	ND	TVOL
	12/19/2007	ND	ND				504.1
	12/19/2007			ND	ND	ND	TVOL
	3/27/2008	ND	ND				504.1
	3/27/2008			ND	ND	ND	TVOL
	6/9/2008	ND	ND				504.1
	6/9/2008			ND	ND	ND	TVOL
	12/10/2008	ND	ND				504.1
	12/10/2008			0.25 J	ND	ND	TVOL
	3/12/2009	ND	ND				5041
	3/12/2009					ND	524.2 SIM
	3/12/2009			ND	ND		TVOL
	6/5/2009	ND	ND				5041
	6/5/2009					ND	5242SIM
	6/5/2009			ND	ND		TVOL
	9/17/2009	ND	ND			ND	5242SIM
	9/17/2009			ND	ND		TVOL
	12/15/2009	ND	ND			ND	5242SIM
	12/15/2009			ND	ND		TVOL
	3/18/2010	ND	ND			ND	5242SIM
	3/18/2010			ND	ND		TVOL
	6/14/2010	ND	ND			ND	5242SIM
	6/14/2010			ND	ND		TVOL
	9/23/2010	ND	ND			ND	5242SIM
	9/23/2010			ND	ND		TVOL
	12/14/2010	ND	ND			ND	5242SIM

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/14/2010			0.56	ND		TVOL
	3/14/2011	ND	ND			ND	5242SIM
	3/14/2011			ND	ND		TVOL
	7/7/2011	ND	ND			ND	5242SIM
	7/7/2011			ND	ND		TVOL
	09/19/2011			< 0.5	< 0.5		TVOL
	09/19/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/05/2011			0.36 J	< 0.5		TVOL
	12/05/2011	< 0.01	< 0.005			< 0.005	E524.2S
MW-3A	8/27/1993	ND	ND				504.1
	8/27/1993			0.5 J	0.5 J		624/25ML
	3/29/1994	ND	ND				504.1
	3/29/1994			ND	ND		624/25ML
	8/23/1994	0.05 J	0.05 J				504.1
	8/23/1994			ND	ND		624/25ML
	12/13/1994	ND	ND				504.1
	12/13/1994			ND	ND		624/25ML
	6/20/1995	ND	ND				504.1
	6/20/1995			ND	ND		624/25ML
	5/14/1996	ND	ND				504.1
	5/14/1996			ND	ND		624/25ML
	10/1/1996	0.25 J	0.25 J				504.1
	10/1/1996			ND	ND		624/25ML
	3/25/1997	0.05 J	0.05 J				504.1
	3/25/1997			ND	ND		624/25ML
	6/23/1997	ND	ND				504.1
	6/23/1997			ND	ND	ND	624/25ML
	10/15/1997	ND	ND				504.1
	10/15/1997			ND	ND	ND	624/25ML
	1/27/1998	ND	ND				504.1
	1/27/1998			ND	ND	ND	624/25ML
	5/19/1998	ND	ND				504.1
	5/19/1998			ND	ND	ND	624/25ML
	8/17/1998	ND	ND				504.1
	8/17/1998			ND	ND	ND	624/25ML
	12/1/1998	ND	ND				504.1
	12/1/1998			ND	ND	ND	624/25ML
	3/15/1999	ND	ND				504.1
	3/15/1999			ND	ND	ND	624/25ML
	6/24/1999	ND	ND				504.1
	6/24/1999			ND	ND	ND	624/25ML
	9/9/1999	ND	ND				504.1
	9/9/1999			ND	ND	ND	624/25ML
	12/16/1999	ND	ND				504.1
	12/16/1999			ND	ND	ND	624/25ML
	3/28/2000	ND	ND				504.1
	3/28/2000			ND	ND	ND	624/25ML
	6/28/2000	ND	ND				504.1
	6/28/2000			ND	ND	ND	524.2
	10/4/2000	ND	ND				504.1
	10/4/2000			ND	ND	ND	524.2
	12/12/2000	ND	ND				504.1
	12/12/2000			ND	ND	ND	524.2
	4/23/2001	ND	ND				504.1
	4/23/2001			ND	ND	ND	524.2
	6/11/2001	ND	ND				504.1
	6/11/2001			ND	ND	ND	524.2
	9/28/2001	ND	ND				504.1
	9/28/2001			ND	ND	ND	524.2
	1/15/2002	ND	ND				504.1
	1/15/2002			ND	ND	ND	524.2
	3/27/2002	ND	ND				504.1
	3/27/2002			ND	ND	ND	524.2
	9/9/2002	ND	ND				504.1
	9/9/2002			ND	ND	ND	524.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	9/5/2003	ND	ND				504.1
	9/5/2003			ND	ND	ND	OLC03.2
	9/13/2004	ND	ND				504.1
	9/13/2004			ND	ND	ND	OLC03.2
	9/26/2005	ND	ND				504.1
	9/26/2005			ND	ND	ND	OLC032
	10/11/2006	ND	ND				504.1
	10/11/2006			ND	ND	ND	TVOL
	10/8/2007	ND	ND				504.1
	10/8/2007			ND	ND	ND	TVOL
	10/8/2008	ND	ND				504.1
	10/8/2008			ND	ND	ND	TVOL
	10/2/2009	ND	ND			ND	5242SIM
	10/2/2009			ND	ND		TVOL
	10/5/2010	ND	ND			ND	5242SIM
	10/5/2010			ND	ND		TVOL
	09/12/2011			< 0.5	< 0.5		TVOL
	09/12/2011	< 0.01	< 0.005			< 0.005	E524.2S
MW-3B	8/27/1993	ND	ND				504.1
	8/27/1993			1 J	0.5 J		624/25ML
	3/29/1994	ND	ND				504.1
	3/29/1994			1	ND		624/25ML
	8/23/1994	0.05 J	0.05 J				504.1
	8/23/1994			1 J	ND		624/25ML
	12/13/1994	ND	ND				504.1
	12/13/1994			2	ND		624/25ML
	6/20/1995	ND	ND				504.1
	6/20/1995			2	ND		624/25ML
	5/14/1996	ND	ND				504.1
	5/14/1996			0.5 J	ND		624/25ML
	10/1/1996	0.25 J	0.25 J				504.1
	10/1/1996			1	ND		624/25ML
	3/25/1997	ND	ND				504.1
	3/25/1997			2	ND		624/25ML
	6/23/1997	ND	ND				504.1
	6/23/1997			1	0.2 J	ND	624/25ML
	10/15/1997	ND	ND				504.1
	10/15/1997			0.7 J	ND	ND	624/25ML
	1/27/1998	ND	ND				504.1
	1/27/1998			0.6 J	ND	ND	624/25ML
	5/19/1998	ND	ND				504.1
	5/19/1998			0.7 J	ND	ND	624/25ML
	8/17/1998	ND	ND				504.1
	8/17/1998			0.4 J	ND	ND	624/25ML
	12/1/1998	ND	ND				504.1
	12/1/1998			ND	ND	ND	624/25ML
	3/15/1999	ND	ND				504.1
	3/15/1999			0.6 J	ND	ND	624/25ML
	6/24/1999	ND	ND				504.1
	6/24/1999			ND	ND	ND	624/25ML
	9/9/1999	ND	ND				504.1
	9/9/1999			ND	ND	ND	624/25ML
	12/16/1999	ND	ND				504.1
	12/16/1999			ND	ND	ND	624/25ML
	3/28/2000	ND	ND				504.1
	3/28/2000			2	ND	ND	624/25ML
	6/28/2000	ND	ND				504.1
	6/28/2000			1	ND	ND	524.2
	10/4/2000	ND	ND				504.1
	10/4/2000			1	ND	ND	524.2
	12/12/2000	ND	ND				504.1
	12/12/2000			1	ND	ND	524.2
	4/23/2001	ND	ND				504.1
	4/23/2001			1 J	ND	ND	524.2
	6/11/2001	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/11/2001			0.8 J	ND	ND	524.2
	9/28/2001	ND	ND				504.1
	9/28/2001			0.8 J	ND	ND	524.2
	1/15/2002	ND	ND				504.1
	1/15/2002			0.7 J	ND	ND	524.2
	3/27/2002	ND	ND				504.1
	3/27/2002			0.7 J	ND	ND	524.2
	9/10/2002	ND	ND				504.1
	9/10/2002			ND	ND	ND	524.2
	9/5/2003	ND	ND				504.1
	9/5/2003			0.52	ND	ND	OLC03.2
	9/13/2004	ND	ND				504.1
	9/13/2004			0.46 J	ND	ND	OLC03.2
	9/26/2005	ND	ND				504.1
	9/26/2005			0.25 J	ND	ND	OLC032
	10/11/2006	ND	ND				504.1
	10/11/2006			ND	ND	ND	TVOL
	10/5/2007	ND	ND				504.1
	10/5/2007			ND	ND	ND	TVOL
	10/8/2008	ND	ND				504.1
	10/8/2008			ND	ND	ND	TVOL
	10/2/2009	ND	ND			0.0026 J	5242SIM
	10/2/2009			ND	ND		TVOL
	10/5/2010	ND	ND			0.0026 J	5242SIM
	10/5/2010			ND	ND		TVOL
	09/07/2011			< 0.5	< 0.5		TVOL
	09/07/2011	< 0.01	< 0.005			0.0025 J	E524.2S
MW-3C	8/27/1993	ND	ND			ND	504.1
	8/27/1993			0.5 J	0.5 J		624/25ML
	3/29/1994	ND	ND				504.1
	3/29/1994			0.3 J	ND		624/25ML
	8/23/1994	0.05 J	0.05 J				504.1
	8/23/1994			1 J	ND		624/25ML
	12/13/1994	ND	ND				504.1
	12/13/1994			0.3 J	ND		624/25ML
	6/20/1995	ND	ND				504.1
	6/20/1995			ND	ND		624/25ML
	5/15/1996	ND	ND				504.1
	5/15/1996			ND	0.3 J		624/25ML
	10/2/1996	0.25 J	0.25 J				504.1
	10/2/1996			ND	0.2 J		624/25ML
	3/25/1997	ND	ND				504.1
	3/25/1997			ND	ND		624/25ML
	6/23/1997	ND	0.17 J				504.1
	6/23/1997			0.9 J	ND	ND	624/25ML
	10/15/1997	ND	0.03 J				504.1
	10/15/1997			0.4 J	ND	ND	624/25ML
	1/28/1998	ND	ND				504.1
	1/28/1998			0.2 J	ND	ND	624/25ML
	5/19/1998	ND	ND				504.1
	5/19/1998			ND	ND	ND	624/25ML
	8/17/1998	ND	ND				504.1
	8/17/1998			ND	ND	ND	624/25ML
	12/1/1998	ND	ND				504.1
	12/1/1998			ND	ND	ND	624/25ML
	3/15/1999	ND	ND				504.1
	3/15/1999			ND	ND	ND	624/25ML
	6/24/1999	ND	ND				504.1
	6/24/1999			ND	ND	ND	624/25ML
	9/9/1999	ND	ND				504.1
	9/9/1999			ND	ND	ND	624/25ML
	12/16/1999	ND	ND				504.1
	12/16/1999			ND	ND	ND	624/25ML
	3/28/2000	ND	ND				504.1
	3/28/2000			ND	ND	ND	624/25ML

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/28/2000	ND	ND				504.1
	6/28/2000			ND	ND	ND	524.2
	10/4/2000	ND	ND				504.1
	10/4/2000			ND	ND	ND	524.2
	12/12/2000	ND	ND				504.1
	12/12/2000			ND	ND	ND	524.2
	4/23/2001	ND	ND				504.1
	4/23/2001			ND	ND	ND	524.2
	6/11/2001	ND	ND				504.1
	6/11/2001			ND	ND	ND	524.2
	9/28/2001	ND	ND				504.1
	9/28/2001			ND	ND	ND	524.2
	1/15/2002	ND	ND				504.1
	1/15/2002			ND	ND	ND	524.2
	3/27/2002	ND	ND				504.1
	3/27/2002			ND	ND	ND	524.2
	9/10/2002	ND	ND				504.1
	9/10/2002			ND	ND	ND	524.2
	9/5/2003	ND	ND				504.1
	9/5/2003			0.14 J	ND	ND	OLC03.2
	9/13/2004	ND	ND				504.1
	9/13/2004			0.19 J	ND	ND	OLC03.2
	9/26/2005	ND	ND				504.1
	9/26/2005			ND	ND	ND	OLC032
	10/11/2006	ND	ND				504.1
	10/11/2006			ND	ND	ND	TVOL
	10/5/2007	ND	ND				504.1
	10/5/2007			ND	ND	ND	TVOL
	10/8/2008	ND	ND				504.1
	10/8/2008			0.28 J	ND	ND	TVOL
	10/2/2009	ND	ND			ND	5242SIM
	10/2/2009			ND	ND		TVOL
	10/5/2010	ND	ND			ND	5242SIM
	10/5/2010			ND	ND		TVOL
	09/07/2011			< 0.5	< 0.5		TVOL
	09/07/2011	< 0.01	< 0.005			< 0.005	E524.2S
MW-4C	8/31/1993	ND	0.05				504.1
	8/31/1993			0.5 J	0.5 J		624/25ML
	3/30/1994	ND	ND				504.1
	3/30/1994			ND	ND		624/25ML
	8/23/1994	0.05 J	0.05 J				504.1
	8/23/1994			1 J	ND		624/25ML
	12/14/1994	ND	ND				504.1
	12/14/1994			ND	ND		624/25ML
	6/21/1995	ND	ND				504.1
	6/21/1995			ND	ND		624/25ML
	5/16/1996	ND	ND				504.1
	5/16/1996			ND	ND		624/25ML
	10/2/1996	0.25 J	0.25 J				504.1
	10/2/1996			ND	ND		624/25ML
	3/26/1997	ND	ND				504.1
	3/26/1997			ND	ND		624/25ML
	6/24/1997	0.05 J	0.05 J				504.1
	6/24/1997			ND	ND	ND	624/25ML
	10/16/1997	ND	ND				504.1
	10/16/1997			ND	ND	ND	624/25ML
	1/28/1998	ND	ND				504.1
	1/28/1998			ND	ND	ND	624/25ML
	5/19/1998	ND	ND				504.1
	5/19/1998			ND	ND	ND	624/25ML
	8/18/1998	ND	ND				504.1
	8/18/1998			ND	ND	ND	624/25ML
	11/30/1998	ND	ND				504.1
	11/30/1998			ND	ND	ND	624/25ML
	3/16/1999	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/16/1999			ND	ND	ND	624/25ML
	6/24/1999	ND	ND				504.1
	6/24/1999			ND	ND	ND	624/25ML
	9/10/1999	ND	ND				504.1
	9/10/1999			ND	ND	ND	624/25ML
	12/16/1999	ND	ND				504.1
	12/16/1999			ND	ND	ND	624/25ML
	3/28/2000	ND	ND				504.1
	3/28/2000			ND	ND	ND	624/25ML
	6/28/2000	ND	ND				504.1
	6/28/2000			ND	ND	ND	524.2
	10/4/2000	ND	ND				504.1
	10/4/2000			ND	ND	ND	524.2
	12/12/2000	ND	ND				504.1
	12/12/2000			ND	ND	ND	524.2
	4/18/2001	ND	ND				504.1
	4/18/2001			ND	ND	ND	524.2
	6/11/2001	ND	ND				504.1
	6/11/2001			ND	ND	ND	524.2
	9/28/2001	ND	ND				504.1
	9/28/2001			ND	ND	ND	524.2
	1/16/2002	ND	ND				504.1
	1/16/2002			ND	ND	ND	524.2
	3/22/2002	ND	ND				504.1
	3/22/2002			ND	ND	ND	524.2
	9/8/2003	ND	ND				504.1
	9/8/2003			0.072 J	ND	ND	OLC03.2
	9/8/2004	ND	ND				504.1
	9/8/2004			0.2 J	ND	ND	OLC03.2
	9/20/2005	ND	ND				504.1
	9/20/2005			ND	ND	ND	OLC032
	10/9/2006	ND	ND				504.1
	10/9/2006			ND	ND	ND	TVOL
	10/5/2007	ND	ND				504.1
	10/5/2007			ND	ND	ND	TVOL
	10/6/2008	ND	ND				504.1
	10/6/2008			ND	ND	ND	TVOL
	10/2/2009	ND	ND			ND	5242SIM
	10/2/2009			ND	ND		TVOL
	9/15/2010	ND	ND			ND	5242SIM
	9/15/2010			0.64	ND		TVOL
MW-5A	3/30/1994	ND	ND				504.1
	3/30/1994			ND	ND		624/25ML
	8/23/1994	0.05 J	0.05 J				504.1
	8/23/1994			1 J	ND		624/25ML
	12/14/1994	ND	ND				504.1
	12/14/1994			ND	ND		624/25ML
	6/22/1995	ND	ND				504.1
	6/22/1995			0.3 L	ND		624/25ML
	5/16/1996	ND	0.05 J				504.1
	5/16/1996			0.2 J	ND		624/25ML
	10/2/1996	0.25 J	0.25 J				504.1
	10/2/1996			0.6 J	ND		624/25ML
	3/26/1997	ND	ND				504.1
	3/26/1997			0.6 J	ND		624/25ML
	6/24/1997	0.05 J	0.06 J				504.1
	6/24/1997			0.5 J	ND	ND	624/25ML
	10/16/1997	ND	ND				504.1
	10/16/1997			1	ND	ND	624/25ML
	1/28/1998	ND	ND				504.1
	1/28/1998			1	ND	ND	624/25ML
	5/19/1998	ND	ND				504.1
	5/19/1998			ND	ND	ND	624/25ML
	8/18/1998	ND	ND				504.1
	8/19/1998	ND	ND	0.5 J	ND	ND	624/25ML

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	11/30/1998	ND	ND				504.1
	11/30/1998			ND	ND	ND	624/25ML
	3/15/1999	ND	ND				504.1
	3/15/1999			ND	ND	ND	624/25ML
	6/25/1999	ND	ND				504.1
	6/25/1999			ND	ND	ND	624/25ML
	9/10/1999	ND	ND				504.1
	9/10/1999			ND	ND	ND	624/25ML
	12/17/1999	ND	ND				504.1
	12/17/1999			ND	ND	ND	624/25ML
	3/24/2000	ND	ND				504.1
	3/24/2000			ND	ND	ND	624/25ML
	6/26/2000	ND	ND				504.1
	6/26/2000			ND	ND	ND	524.2
	10/3/2000	ND	ND				504.1
	10/3/2000			ND	ND	ND	524.2
	12/8/2000	ND	ND				504.1
	12/8/2000			ND	ND	ND	524.2
	4/19/2001	ND	ND				504.1
	4/19/2001			ND	ND	ND	524.2
	6/8/2001	ND	ND				504.1
	6/8/2001			ND	ND	ND	524.2
	9/27/2001	ND	ND				504.1
	9/27/2001			ND	ND	ND	524.2
	1/14/2002	ND	ND				504.1
	1/14/2002			ND	ND	ND	524.2
	3/27/2002	ND	ND				504.1
	3/27/2002			ND	ND	ND	524.2
	9/6/2002	ND	ND				504.1
	9/6/2002			ND	ND	ND	524.2
	3/10/2003	ND	ND				504.1
	3/10/2003			ND	ND		OLC03.2
	3/10/2003		ND				VOCS
	9/8/2003	ND	ND				504.1
	9/8/2003			ND	ND	ND	OLC03.2
	3/5/2004	ND	ND				504.1
	3/5/2004			ND	ND	ND	OLC03.2
	3/11/2005	ND	ND				504.1
	3/11/2005			ND	ND	ND	OLC03.2
	3/8/2006	ND	ND				504.1
	3/8/2006			ND	ND	ND	OLC032
	10/2/2006	ND	ND				504.1
	10/2/2006			ND	ND	ND	TVOL
	3/13/2007	ND	ND				504.1
	3/13/2007			ND	ND	ND	TVOL
	10/4/2007	ND	ND				504.1
	10/4/2007			ND	ND	ND	TVOL
	3/25/2008	ND	ND				504.1
	3/25/2008			ND	ND	ND	TVOL
	9/17/2008	ND	ND				504.1
	9/17/2008			ND	ND	ND	TVOL
	3/12/2009	ND	ND				5041
	3/12/2009					ND	524.2 SIM
	3/12/2009			ND	ND		TVOL
	9/17/2009	ND	ND			ND	5242SIM
	9/17/2009			ND	ND		TVOL
	3/22/2010	ND	ND			ND	5242SIM
	3/22/2010			ND	ND		TVOL
	10/4/2010	ND	ND			ND	5242SIM
	10/4/2010			ND	ND		TVOL
	3/10/2011	ND	ND			ND	5242SIM
	3/10/2011			ND	ND		TVOL
	09/22/2011			< 0.5	< 0.5		TVOL
	09/22/2011	< 0.01	< 0.005			< 0.005	E524.2S
MW-5B	8/25/1993	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	8/25/1993			0.5 J	0.5 J		624/25ML
	3/30/1994	ND	ND				504.1
	3/30/1994			ND	ND		624/25ML
	8/23/1994	0.05 J	0.05 J				504.1
	8/23/1994			1 J	ND		624/25ML
	12/14/1994	ND	ND				504.1
	12/14/1994			ND	ND		624/25ML
	6/22/1995	ND	ND	ND	ND		624/25ML
	5/16/1996	ND	ND				504.1
	5/16/1996			ND	ND		624/25ML
	10/2/1996	0.25 J	0.25 J				504.1
	10/2/1996			0.8 J	ND		624/25ML
	3/26/1997	ND	0.03 J				504.1
	3/26/1997			0.7 J	ND		624/25ML
	6/24/1997	ND	0.33 J				504.1
	6/24/1997			0.3 J	0.3 J	ND	624/25ML
	10/16/1997	ND	0.05 J				504.1
	10/16/1997			0.7 J	ND	ND	624/25ML
	1/28/1998	ND	ND				504.1
	1/28/1998			ND	ND	ND	624/25ML
	5/19/1998	ND	ND				504.1
	5/19/1998			ND	ND	ND	624/25ML
	8/18/1998	ND	ND				504.1
	8/18/1998			ND	ND	ND	624/25ML
	11/30/1998	ND	ND				504.1
	11/30/1998			ND	ND	ND	624/25ML
	3/15/1999	ND	ND				504.1
	3/15/1999			ND	ND	ND	624/25ML
	6/25/1999	ND	ND				504.1
	6/25/1999			ND	ND	ND	624/25ML
	9/10/1999	ND	ND				504.1
	9/10/1999			ND	ND	ND	624/25ML
	12/17/1999	ND	ND				504.1
	12/17/1999			ND	ND	ND	624/25ML
	3/24/2000	ND	ND				504.1
	3/24/2000			ND	ND	ND	624/25ML
	6/26/2000	ND	ND				504.1
	6/26/2000			ND	ND	ND	524.2
	10/3/2000	ND	ND				504.1
	10/3/2000			ND	ND	ND	524.2
	12/8/2000	ND	ND				504.1
	12/8/2000			ND	ND	ND	524.2
	4/19/2001	ND	ND				504.1
	4/19/2001			ND	ND	ND	524.2
	6/8/2001	ND	ND				504.1
	6/8/2001			ND	ND	ND	524.2
	9/27/2001	ND	ND				504.1
	9/27/2001			ND	ND	ND	524.2
	1/14/2002	ND	ND				504.1
	1/14/2002			ND	ND	ND	524.2
	3/27/2002	ND	ND				504.1
	3/27/2002			ND	ND	ND	524.2
	9/6/2002	ND	ND				504.1
	9/6/2002			ND	ND	ND	524.2
	3/10/2003	ND	ND				504.1
	3/10/2003			ND	ND		OLC03.2
	3/10/2003		ND				VOCS
	9/8/2003	ND	ND				504.1
	9/8/2003			ND	ND	ND	OLC03.2
	3/5/2004	ND	ND				504.1
	3/5/2004			ND	ND	ND	OLC03.2
	9/8/2004	ND	ND				504.1
	9/8/2004			ND	ND	ND	OLC03.2
	3/15/2005	ND	ND				504.1
	3/15/2005			ND	ND	ND	OLC03.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	9/23/2005	ND	ND				504.1
	9/23/2005			ND	ND	ND	OLC032
	3/8/2006	ND	ND				504.1
	3/8/2006			ND	ND	ND	OLC032
	10/2/2006	ND	ND				504.1
	10/2/2006			ND	ND	ND	TVOL
	3/13/2007	ND	ND				504.1
	3/13/2007			ND	ND	ND	TVOL
	10/2/2007	ND	ND				504.1
	10/2/2007			ND	ND	ND	TVOL
	3/25/2008	ND	ND				504.1
	3/25/2008			ND	ND	ND	TVOL
	9/17/2008	ND	ND				504.1
	9/17/2008			ND	ND	ND	TVOL
	3/12/2009	ND	ND				5041
	3/12/2009					ND	524.2 SIM
	3/12/2009			ND	ND		TVOL
	9/17/2009	ND	ND			ND	5242SIM
	9/17/2009			ND	ND		TVOL
	3/22/2010	ND	ND			ND	5242SIM
	3/22/2010			ND	ND		TVOL
	10/4/2010	ND	ND			ND	5242SIM
	10/4/2010			ND	ND		TVOL
	3/10/2011	ND	ND			ND	5242SIM
	3/10/2011			ND	ND		TVOL
	09/22/2011			< 0.5	< 0.5		TVOL
	09/22/2011	< 0.01	< 0.005			< 0.005	E524.2S
MW-5C	8/25/1993	0.06	ND				504.1
	8/25/1993			0.5 J	0.5 J		624/25ML
	3/30/1994	ND	0.09				504.1
	3/30/1994			ND	ND		624/25ML
	8/23/1994	0.05 J	0.03 J				504.1
	8/23/1994			ND	ND		624/25ML
	12/14/1994	ND	0.03 J				504.1
	12/14/1994			ND	ND		624/25ML
	6/29/1995	0.08	2.2 J				504.1
	6/29/1995			0.4 L	ND		624/25ML
	5/22/1996	0.05 J	0.04 J				504.1
	5/22/1996			ND	ND		624/25ML
	10/4/1996	0.25 J	0.25 J				504.1
	10/4/1996			1 J	ND		624/25ML
	3/28/1997	ND	0.02 J				504.1
	3/28/1997			ND	ND		624/25ML
	6/24/1997	0.006 J	0.31 J				504.1
	6/24/1997			ND	2	ND	624/25ML
	10/17/1997	ND	ND				504.1
	10/17/1997			ND	ND	ND	624/25ML
	1/29/1998	ND	ND				504.1
	1/29/1998			ND	ND	ND	624/25ML
	5/20/1998	ND	0.01 J				504.1
	5/20/1998			0.7 J	ND	ND	624/25ML
	8/18/1998	ND	ND				504.1
	8/18/1998			ND	ND	ND	624/25ML
	11/30/1998	ND	ND				504.1
	11/30/1998			ND	ND	ND	624/25ML
	3/15/1999	ND	ND				504.1
	3/15/1999			ND	ND	ND	624/25ML
	6/25/1999	ND	ND				504.1
	6/25/1999			ND	ND	ND	624/25ML
	9/10/1999	ND	ND				504.1
	9/10/1999			ND	ND	ND	624/25ML
	12/17/1999	ND	ND				504.1
	12/17/1999			ND	ND	ND	624/25ML
	3/24/2000	ND	ND				504.1
	3/24/2000			ND	ND	ND	624/25ML

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/27/2000	ND	ND				504.1
	6/27/2000			ND	ND	ND	524.2
	10/3/2000	ND	ND				504.1
	10/3/2000			ND	ND	ND	524.2
	12/8/2000	ND	ND				504.1
	12/8/2000			ND	ND	ND	524.2
	4/19/2001	ND	ND				504.1
	4/19/2001			ND	ND	ND	524.2
	6/8/2001	ND	0.01 J				504.1
	6/8/2001			ND	ND	ND	524.2
	9/27/2001	ND	0.01 J				504.1
	9/27/2001			ND	ND	ND	524.2
	1/14/2002	ND	ND				504.1
	1/14/2002			ND	ND	ND	524.2
	3/27/2002	ND	0.01 J				504.1
	3/27/2002			ND	ND	ND	524.2
	9/6/2002	ND	ND				504.1
	9/6/2002			ND	ND	ND	524.2
	3/10/2003	ND	ND				504.1
	3/10/2003			ND	ND		OLC03.2
	3/10/2003		0.02 J				VOCS
	9/8/2003	ND	ND				504.1
	9/8/2003			ND	ND	ND	OLC03.2
	3/5/2004	ND	ND				504.1
	3/5/2004			ND	ND	ND	OLC03.2
	9/8/2004	ND	ND				504.1
	9/8/2004			ND	ND	ND	OLC03.2
	3/9/2005	ND	0.015 J				504.1
	3/9/2005			ND	ND	ND	OLC03.2
	9/23/2005	ND	0.01 J				504.1
	9/23/2005			ND	ND	ND	OLC032
	3/9/2006	ND	0.01 J				504.1
	3/9/2006			ND	ND	ND	OLC032
	10/3/2006	ND	0.012 J				504.1
	10/3/2006			ND	ND	ND	TVOL
	3/15/2007	ND	0.013 J				504.1
	3/15/2007			ND	ND	ND	TVOL
	10/3/2007	ND	0.013 J				504.1
	10/3/2007			ND	ND	ND	TVOL
	3/28/2008	ND	ND				504.1
	3/28/2008			ND	ND	ND	TVOL
	9/18/2008	ND	ND				504.1
	9/18/2008			ND	ND	ND	TVOL
	3/14/2009	ND	ND				5041
	3/14/2009					ND	524.2 SIM
	3/14/2009			ND	ND		TVOL
	9/18/2009	ND	0.011			ND	5242SIM
	9/18/2009			ND	ND		TVOL
	3/23/2010	ND	0.0073			ND	5242SIM
	3/23/2010			ND	ND		TVOL
	10/5/2010	ND	0.0078			ND	5242SIM
	10/5/2010			ND	ND		TVOL
	3/11/2011	ND	0.009			ND	5242SIM
	3/11/2011			ND	ND		TVOL
	09/23/2011			< 0.5	< 0.5		TVOL
	09/23/2011	< 0.01	0.0092			< 0.005	E524.2S
MW-6A	3/28/1994	ND	ND				504.1
	3/28/1994			ND	ND		624/25ML
	8/22/1994	0.05 J	0.05 J				504.1
	8/22/1994			ND	ND		624/25ML
	6/20/1995	ND	ND				504.1
	6/20/1995			ND	ND		624/25ML
	5/14/1996	ND	ND				504.1
	5/14/1996			ND	ND		624/25ML
	10/1/1996	0.25 J	0.25 J				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	10/1/1996			ND	ND		624/25ML
	3/26/1997	ND	ND				504.1
	3/26/1997			ND	ND		624/25ML
	6/24/1997	ND	0.05 J				504.1
	6/24/1997			ND	ND	ND	624/25ML
	10/14/1997	ND	ND				504.1
	10/14/1997			ND	ND	ND	624/25ML
	1/27/1998	ND	ND				504.1
	1/27/1998			ND	ND	ND	624/25ML
	5/18/1998	ND	ND				504.1
	5/18/1998			ND	ND	ND	624/25ML
	8/17/1998	ND	ND				504.1
	8/17/1998			ND	ND	ND	624/25ML
	11/30/1998	ND	ND				504.1
	11/30/1998			ND	ND	ND	624/25ML
	3/15/1999	ND	ND				504.1
	3/15/1999			ND	ND	ND	624/25ML
	6/24/1999	ND	ND				504.1
	6/24/1999			ND	ND	ND	624/25ML
	9/9/1999	ND	ND				504.1
	9/9/1999			ND	ND	ND	624/25ML
	12/16/1999	ND	ND				504.1
	12/16/1999			ND	ND	ND	624/25ML
	3/23/2000	ND	ND				504.1
	3/23/2000			ND	ND	ND	624/25ML
	6/29/2000	ND	ND				504.1
	6/29/2000			ND	ND	ND	524.2
	10/6/2000	ND	ND				504.1
	10/6/2000			ND	ND	ND	524.2
	12/13/2000	ND	ND				504.1
	12/13/2000			ND	ND	ND	524.2
	4/24/2001	ND	ND				504.1
	4/24/2001			ND	ND	ND	524.2
	6/13/2001	ND	ND				504.1
	6/13/2001			ND	ND	ND	524.2
	10/1/2001	ND	ND				504.1
	10/1/2001			ND	ND	ND	524.2
	1/17/2002	ND	ND				504.1
	1/17/2002			ND	ND	ND	524.2
	3/18/2002	ND	ND				504.1
	3/18/2002			ND	ND	ND	524.2
	9/10/2002	ND	ND				504.1
	9/10/2002			ND	ND	ND	524.2
	9/8/2003	ND	ND				504.1
	9/8/2003			ND	ND	ND	OLC03.2
	10/5/2006	ND	ND				504.1
	10/5/2006			ND	ND	ND	TVOL
	10/5/2007	ND	ND				504.1
	10/5/2007			ND	ND	ND	TVOL
	10/7/2008	ND	ND				504.1
	10/7/2008			ND	ND	ND	TVOL
	9/30/2009	ND	ND			ND	5242SIM
	9/30/2009			ND	ND		TVOL
	9/28/2010	ND	ND			ND	5242SIM
	9/28/2010			ND	ND		TVOL
	09/29/2011			< 0.5	< 0.5		TVOL
	09/29/2011	< 0.01	< 0.005			< 0.005	E524.2S
MW-6B	8/24/1993	ND	ND				504.1
	8/24/1993			0.5 J	0.5 J		624/25ML
	3/28/1994	ND	ND				504.1
	3/28/1994			ND	ND		624/25ML
	8/22/1994	0.05 J	0.05 J				504.1
	8/22/1994			ND	ND		624/25ML
	12/13/1994	ND	ND				504.1
	12/13/1994			ND	ND		624/25ML

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/19/1995	ND	ND				504.1
	6/19/1995			ND	ND		624/25ML
	5/14/1996	ND	ND				504.1
	5/14/1996			ND	ND		624/25ML
	10/1/1996	0.25 J	0.25 J				504.1
	10/1/1996			ND	ND		624/25ML
	3/26/1997	ND	ND				504.1
	3/26/1997			ND	ND		624/25ML
	6/24/1997	ND	0.05 J				504.1
	6/24/1997			ND	ND	ND	624/25ML
	10/15/1997	ND	ND				504.1
	10/15/1997			ND	ND	ND	624/25ML
	1/27/1998	ND	ND				504.1
	1/27/1998			ND	ND	ND	624/25ML
	5/18/1998	ND	ND				504.1
	5/18/1998			ND	ND	ND	624/25ML
	8/17/1998	ND	ND				504.1
	8/17/1998			ND	ND	ND	624/25ML
	11/30/1998	ND	ND				504.1
	11/30/1998			ND	ND	ND	624/25ML
	3/15/1999	ND	ND				504.1
	3/15/1999			ND	ND	ND	624/25ML
	6/24/1999	ND	ND				504.1
	6/24/1999			ND	ND	ND	624/25ML
	9/9/1999	ND	ND				504.1
	9/9/1999			ND	ND	ND	624/25ML
	12/16/1999	ND	ND				504.1
	12/16/1999			ND	ND	ND	624/25ML
	3/23/2000	ND	ND				504.1
	3/23/2000			ND	ND	ND	624/25ML
	6/29/2000	ND	ND				504.1
	6/29/2000			ND	ND	ND	524.2
	10/6/2000	ND	ND				504.1
	10/6/2000			ND	ND	ND	524.2
	12/13/2000	ND	ND				504.1
	12/13/2000			ND	ND	ND	524.2
	4/24/2001	ND	ND				504.1
	4/24/2001			ND	ND	ND	524.2
	6/13/2001	ND	ND				504.1
	6/13/2001			ND	ND	ND	524.2
	10/1/2001	ND	ND				504.1
	10/1/2001			ND	ND	ND	524.2
	1/17/2002	ND	ND				504.1
	1/17/2002			ND	ND	ND	524.2
	3/18/2002	ND	ND				504.1
	3/18/2002			ND	ND	ND	524.2
	9/10/2002	ND	ND				504.1
	9/10/2002			ND	ND	ND	524.2
	9/8/2003	ND	ND				504.1
	9/8/2003			ND	ND	ND	OLC03.2
	10/6/2004	ND	ND				504.1
	10/6/2004			ND	ND	ND	OLC03.2
	9/8/2005	ND	ND				504.1
	9/8/2005			ND	ND	ND	OLC032
	10/5/2006	ND	ND				504.1
	10/5/2006			ND	ND	ND	TVOL
	10/5/2007	ND	ND				504.1
	10/5/2007			ND	ND	ND	TVOL
	10/7/2008	ND	ND				504.1
	10/7/2008			ND	ND	ND	TVOL
	9/30/2009	ND	ND			ND	5242SIM
	9/30/2009			ND	ND		TVOL
	9/28/2010	ND	ND			ND	5242SIM
	9/28/2010			ND	ND		TVOL
	09/29/2011			< 0.5	< 0.5		TVOL

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	09/29/2011	< 0.01	< 0.005			< 0.005	E524.2S
MW-6C	8/24/1993	ND	ND				504.1
	8/24/1993			0.5 J	0.5 J		624/25ML
	3/28/1994	ND	ND				504.1
	3/28/1994			ND	ND		624/25ML
	8/22/1994	0.05 J	0.05 J				504.1
	8/22/1994			1 J	ND		624/25ML
	12/13/1994	ND	ND				504.1
	12/13/1994			ND	ND		624/25ML
	6/20/1995	ND	ND				504.1
	6/20/1995			ND	ND		624/25ML
	5/14/1996	ND	ND				504.1
	5/14/1996			ND	ND		624/25ML
	10/1/1996	0.25 J	0.25 J				504.1
	10/1/1996			ND	ND		624/25ML
	3/26/1997	0.05 J	0.05 J				504.1
	3/26/1997			ND	ND		624/25ML
	6/24/1997	ND	ND				504.1
	6/24/1997			ND	1	ND	624/25ML
	10/15/1997	ND	ND				504.1
	10/15/1997			ND	ND	ND	624/25ML
	1/27/1998	ND	ND				504.1
	1/27/1998			ND	ND	ND	624/25ML
	5/18/1998	ND	ND				504.1
	5/18/1998			ND	ND	ND	624/25ML
	8/17/1998	ND	ND				504.1
	8/17/1998			ND	ND	ND	624/25ML
	11/30/1998	ND	ND				504.1
	11/30/1998			ND	ND	ND	624/25ML
	3/15/1999	ND	ND				504.1
	3/15/1999			ND	ND	ND	624/25ML
	6/24/1999	ND	ND				504.1
	6/24/1999			ND	ND	ND	624/25ML
	9/9/1999	ND	ND				504.1
	9/9/1999			ND	ND	ND	624/25ML
	12/16/1999	ND	ND				504.1
	12/16/1999			ND	ND	ND	624/25ML
	3/23/2000	ND	ND				504.1
	3/23/2000			ND	ND	ND	624/25ML
	6/29/2000	ND	ND				504.1
	6/29/2000			ND	ND	ND	524.2
	10/6/2000	ND	ND				504.1
	10/6/2000			ND	ND	ND	524.2
	12/13/2000	ND	ND				504.1
	12/13/2000			ND	ND	ND	524.2
	4/24/2001	ND	ND				504.1
	4/24/2001			ND	ND	ND	524.2
	6/13/2001	ND	ND				504.1
	6/13/2001			ND	ND	ND	524.2
	10/1/2001	ND	ND				504.1
	10/1/2001			ND	ND	ND	524.2
	1/17/2002	ND	ND				504.1
	1/17/2002			ND	ND	ND	524.2
	3/18/2002	ND	ND				504.1
	3/18/2002			ND	ND	ND	524.2
	9/11/2002	ND	ND				504.1
	9/11/2002			ND	ND	ND	524.2
	9/8/2003	ND	ND				504.1
	9/8/2003			ND	ND	ND	OLC03.2
	10/6/2004	ND	ND				504.1
	10/6/2004			ND	ND	ND	OLC03.2
	9/8/2005	ND	ND				504.1
	9/8/2005			ND	ND	ND	OLC032
	10/5/2006	ND	ND				504.1
	10/5/2006			ND	ND	ND	TVOL

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	10/5/2007	ND	ND				504.1
	10/5/2007			ND	ND	ND	TVOL
	10/7/2008	ND	ND				504.1
	10/7/2008			ND	ND	ND	TVOL
	9/30/2009	ND	ND			ND	5242SIM
	9/30/2009			ND	ND		TVOL
	9/28/2010	ND	ND			ND	5242SIM
	9/28/2010			ND	ND		TVOL
	09/30/2011			< 0.5	< 0.5		TVOL
	09/30/2011	< 0.01	< 0.005			< 0.005	E524.2S
MW-7A	3/31/1994	ND	2200	2400	ND		624/5ML
	8/25/1994	ND	1 J	4 J	ND	10	624/5ML
	6/27/1995	ND	160	420	ND		624/5ML
	10/19/1995	6 J	390	1700	0.3 J		624/25ML
	5/20/1996	ND	130	760 D	ND		624/25ML
	10/23/1997	8	300 J	320 J	ND	53 J	624/25ML
	4/26/2001	1.7	43 J				504.1
	4/26/2001			2700	ND	150	524.2
	6/13/2001	2.4	56 J				504.1
	6/13/2001			2300	ND	130	524.2
	10/2/2001	0.02	0.64				504.1
	10/2/2001			1200	ND	100	524.2
	1/18/2002	11	250 J				504.1
	1/18/2002			5000	ND	240	524.2
	4/9/2002	140 J	1700 J				504.1
	4/9/2002			14000	ND	810	524.2
	7/5/2002	40	1800	9300	ND	440	524.2
	12/23/2002	12 J	600	3700	ND	190	524.2
	3/28/2003	ND	3700	8700	ND		VOCS
	6/26/2003	ND	500 D	3400 D	ND		OLC03.2
	3/16/2004	ND	7.2	230 D	ND	25 D	OLC03.2
	6/12/2006	8.8	27				504.1
	6/12/2006			3100 D	ND	180 D	OLC032
	10/4/2006	0.74	19	1800	ND	140	TVOL
	1/3/2007	5 J	140	1800 D	ND	110 D	TVOL
	3/16/2007	2.5 J	51	1500	ND		TVOL
	5/30/2007	ND	17	1100	ND	98	TVOL
	3/25/2008	12	330	1800	ND	99 J	TVOL
	6/6/2008	2.5	15 J	490	ND	62	TVOL
	3/18/2009	ND	490	920	ND	78	TVOL
	6/2/2009	0.98	16 J	330 E	ND	21 J	TVOL
	9/14/2009	ND	0.66	45	ND	10	TVOL
	12/17/2009	ND	0.67	24	ND	6.9	TVOL
	3/23/2010	ND	0.8	32	ND	6.4	TVOL
	6/16/2010	ND	ND	140	ND	10	TVOL
	10/6/2010	ND	0.3 J	4.1	ND	15	TVOL
	12/9/2010	ND	0.35 J	3.6	ND	5.7	TVOL
	3/1/2011	ND	ND	160	ND	13	TVOL
	6/23/2011	ND	ND	620	ND	33 J	TVOL
	09/08/2011	< 0.5	< 0.5	290	< 0.5	< 20	TVOL
	12/09/2011	< 0.5	< 0.5	500	< 0.5	< 50	TVOL
MW-7B	8/31/1993			0	0		624/25ML
	9/1/1993	12 J	5700				504.1
	9/1/1993			0	0		624/25ML
	4/1/1994	16	10000	8200	ND		624/5ML
	8/25/1994	23	9800	19000	1 J	350	624/5ML
	12/15/1994	24	6600	13000	ND		624/5ML
	6/23/1995	14	4300	7500	ND		624/5ML
	10/17/1995	160 J	9400	16000	0.5		624/25ML
	5/29/1996	38	7500 D	14000 D	ND		624/25ML
	10/8/1996	48	7600	11000	ND		624/5ML
	3/31/1997	19	3000	7100	ND		624/5ML
	7/1/1997	290 J	2300	6100	ND	150	624/25ML
	10/23/1997	4 J	2000	6000	ND	83	624/5ML
	1/29/1998	10	1400	4100	ND	150	624/5ML

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	5/21/1998	4 J	350	2100	ND	98	624/5ML
	8/19/1998	14	650	2500	ND	97	624/5ML
	10/14/1998	ND	ND	3900	ND	ND	624/5ML
	12/1/1998	ND	ND	ND	ND	ND	624/5ML
	3/17/1999	ND	ND	160	ND	10	624/25ML
	7/1/1999	ND	110	1500	ND	100	624/5ML
	9/15/1999	ND	100	1300	ND	73	624/25ML
	12/21/1999	3	90	1700	ND	80	624/25ML
	3/30/2000	3.5	99 J				504.1
	3/30/2000			1200	ND	100	624/25ML
	7/7/2000	1.1	35 J				504.1
	7/7/2000			2100	ND	100	524.2
	12/18/2000	2.5	50 J				504.1
	12/18/2000			2100	ND	81	524.2
	4/26/2001	15 J	68 J				504.1
	4/26/2001			450	ND	30	524.2
	6/12/2001	3.2	65 J				504.1
	6/12/2001			2100	ND	120	524.2
	10/3/2001	1.6	14 J				504.1
	10/3/2001			330	ND	10	524.2
	1/21/2002	2.2	50 J				504.1
	1/21/2002			1700	ND	70	524.2
	4/9/2002	6.1	120 J				504.1
	4/9/2002			1800	ND	60	524.2
	7/3/2002	7.1	120 J				504.1
	7/3/2002			2100	ND	80	524.2
	9/27/2002	3.2	63 J				504.1
	9/27/2002			1400	ND	33	524.2
	12/23/2002	3 J	200	1800	ND	70	524.2
	3/31/2003	ND	170 D	1200 D	ND		VOCS
	6/12/2003	6.8	130 D	1100 D	ND		OLC03.2
	9/22/2003	ND	56	510 DB	ND	ND	OLC03.2
	12/8/2003	ND	55	630 D	ND	33 D	OLC03.2
	3/16/2004	ND	8.5	1200 D	ND	63 D	OLC03.2
	6/17/2004	ND	51	820 D	ND	61	OLC03.2
	9/17/2004	ND	11	770 D	ND	67	OLC03.2
	11/29/2004	ND	8.2	660 D	ND	47 JD	OLC03.2
	3/14/2005	ND	70	580 D	ND	79	OLC03.2
	6/1/2005	5.2	91	1200 D	ND	120 D	OLC03.2
	9/7/2005	2.8 J	41	970 D	ND	50	OLC032
	12/9/2005	1.5 J	28	740	ND	36	OLC032
	3/10/2006	4.6 J	100	660 D	ND	63	OLC032
	6/9/2006	6	85 D	940 D	ND	57 D	OLC032
	10/4/2006	1.4 J	ND	480	ND	42	TVOL
	1/2/2007	0.86	20	290 D	ND	25 D	TVOL
	3/7/2007	ND	17	440	ND	44	TVOL
	6/7/2007	ND	8 J	330 J	ND	31 J	TVOL
	10/15/2007	ND	0.93 J	270	ND	27	TVOL
	12/21/2007	ND	1.1	230	ND	27	TVOL
	3/11/2008	ND	15	490	ND	46	TVOL
	6/6/2008	0.86	15	200	ND	29	TVOL
	9/26/2008	ND	1.3	240	ND	29	TVOL
	12/11/2008	ND	2	110	ND	13	TVOL
	3/19/2009	ND	15	300	ND	31	TVOL
	6/2/2009	0.39 J	5.3 J	220 E	ND	16	TVOL
	9/14/2009	ND	ND	72	ND	9.1	TVOL
	12/16/2009	ND	0.31 J	63	ND	7.2	TVOL
	3/9/2010	ND	1.4	98	ND	5.8	TVOL
	6/15/2010	ND	0.65	170	ND	11	TVOL
	10/5/2010	ND	ND	130	ND	19	TVOL
	12/6/2010	ND	0.27 J	180	ND	17	TVOL
	3/1/2011	ND	1.3	310	ND	27	TVOL
	6/23/2011	ND	ND	310	ND	20 J	TVOL
	09/08/2011	< 0.5	< 0.5	150	< 0.5	19	TVOL
	12/08/2011	< 0.5	< 0.5	250	< 0.5	20	TVOL

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
MW-7D	8/26/1993	ND	ND				504.1
	8/26/1993			0.5 J	0.5 J		624/25ML
	3/31/1994	ND	0.06				504.1
	3/31/1994			ND	ND		624/25ML
	8/25/1994	0.2 J	4 J				504.1
	8/25/1994			8	ND		624/25ML
	12/15/1994	0.08 J	5				504.1
	12/15/1994			16	ND		624/25ML
	6/22/1995	5 J	5 J				504.1
	6/22/1995			0.4 L	ND		624/25ML
	10/19/1995	0.01 L	0.28				504.1
	10/19/1995			5 J	ND		624/25ML
	5/20/1996	ND	0.14 J				504.1
	5/20/1996			0.6 J	ND		624/25ML
	10/8/1996	0.25 J	7.5 J				504.1
	10/8/1996			13	ND		624/25ML
	4/1/1997	ND	15 J				504.1
	4/1/1997			28	ND		624/25ML
	6/24/1997	0.05 J	3.1 J				504.1
	6/24/1997			33	0.7	1	624/25ML
	10/22/1997	ND	0.3 J	ND	ND	0.3 J	624/25ML
	10/29/1997	ND	0.26 J				504.1
	2/4/1998	ND	0.17				504.1
	2/4/1998			5	ND	ND	624/25ML
	5/22/1998	ND	0.16				504.1
	5/22/1998			5	ND	ND	624/25ML
	8/19/1998	ND	0.66				504.1
	8/19/1998			5 J	0.5 J	1 J	624/25ML
	12/1/1998	ND	0.04 J				504.1
	12/1/1998			4	ND	ND	624/25ML
	3/17/1999	ND	0.26				504.1
	3/17/1999			5	ND	ND	624/25ML
	7/1/1999	ND	ND				504.1
	7/1/1999			4	ND	ND	624/25ML
	9/15/1999	ND	0.06				504.1
	9/15/1999			5	ND	ND	624/25ML
	12/21/1999	ND	ND				504.1
	12/21/1999			4	ND	ND	624/25ML
	3/30/2000	ND	ND				504.1
	3/30/2000			ND	ND	ND	624/25ML
	7/6/2000	ND	0.02 J				504.1
	7/6/2000			0.6 J	ND	ND	524.2
	10/9/2000	ND	0.02				504.1
	10/9/2000			ND	ND	ND	524.2
	12/14/2000	ND	ND				504.1
	12/14/2000			ND	ND	ND	524.2
	4/24/2001	ND	ND				504.1
	4/24/2001			ND	ND	ND	524.2
	6/13/2001	ND	0.02 J				504.1
	6/13/2001			ND	ND	ND	524.2
	10/2/2001	ND	0.01 J				504.1
	10/2/2001			0.7 J	ND	ND	524.2
	1/18/2002	ND	ND				504.1
	1/18/2002			ND	ND	ND	524.2
	4/1/2002	ND	ND				504.1
	4/1/2002			ND	ND	ND	524.2
	6/21/2002	ND	ND				504.1
	6/21/2002			ND	ND	ND	524.2
	9/10/2002	ND	ND				504.1
	9/10/2002			ND	ND	ND	524.2
	12/10/2002	ND	ND				504.1
	12/10/2002			ND	ND	ND	524.2
	3/11/2003	ND	ND				504.1
	3/11/2003			ND	ND		OLC03.2
	3/11/2003		ND				VOCS

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/13/2003	ND	ND				504.1
	6/13/2003			ND	ND		OLC03.2
	9/9/2003	ND	ND				504.1
	9/9/2003			0.29 J	ND	ND	OLC03.2
	12/12/2003	ND	ND				504.1
	12/12/2003			0.21 J	ND	ND	OLC03.2
	3/10/2004	ND	ND				504.1
	3/10/2004			0.13 J	0.22 J	ND	OLC03.2
	6/11/2004	ND	ND				504.1
	6/11/2004			0.35 J	0.15 J	ND	OLC03.2
	9/10/2004	ND	ND				504.1
	9/10/2004			0.83	ND	ND	OLC03.2
	12/8/2004	ND	ND				504.1
	12/8/2004			ND	ND	ND	OLC03.2
	3/15/2005	ND	ND				504.1
	3/15/2005			ND	ND	ND	OLC03.2
	6/14/2005	ND	ND				504.1
	6/14/2005			0.39 J	ND	ND	OLC03.2
	9/26/2005	ND	ND				504.1
	9/26/2005			1.1	ND	ND	OLC032
	12/9/2005	ND	ND				504.1
	12/9/2005			0.57	ND	ND	OLC032
	3/10/2006	ND	ND				504.1
	3/10/2006			0.29 J	ND	ND	OLC032
	6/9/2006	ND	ND				504.1
	6/9/2006			ND	ND	ND	OLC032
	10/13/2006	ND	ND				504.1
	10/13/2006			0.67 J	ND	ND	TVOL
	1/2/2007	ND	ND				504.1
	1/2/2007			ND	ND	ND	TVOL
	3/16/2007	ND	ND				504.1
	3/16/2007			0.41 J	ND	ND	TVOL
	6/7/2007	ND	ND				504.1
	6/7/2007			ND	ND	ND	TVOL
	9/25/2007	ND	ND				504.1
	9/25/2007			1.8	ND	ND	TVOL
	12/20/2007	ND	ND				504.1
	12/20/2007			0.71	ND	ND	TVOL
	3/25/2008	ND	ND				504.1
	3/25/2008			0.72	ND	ND	TVOL
	6/6/2008	ND	ND				504.1
	6/6/2008			1.8	ND	ND	TVOL
	9/26/2008	ND	ND				504.1
	9/26/2008			ND	ND	ND	TVOL
	12/11/2008	ND	ND				504.1
	12/11/2008			0.68	ND	ND	TVOL
	3/18/2009	ND	ND				5041
	3/18/2009					ND	524.2 SIM
	3/18/2009			0.77	ND		TVOL
	6/2/2009	ND	ND				5041
	6/2/2009					0.003 J	5242SIM
	6/2/2009			ND	ND		TVOL
	9/14/2009	ND	ND			ND	5242SIM
	9/14/2009			0.83	ND		TVOL
	12/16/2009	ND	ND			ND	5242SIM
	12/16/2009			ND	ND		TVOL
	3/23/2010	ND	ND			ND	5242SIM
	3/23/2010			0.54	ND		TVOL
	6/15/2010	ND	ND			ND	5242SIM
	6/15/2010			ND	ND		TVOL
	10/12/2010	ND	ND			0.0034 J	5242SIM
	10/12/2010			2.1	ND		TVOL
	12/6/2010	ND	ND			ND	5242SIM
	12/6/2010			2	ND		TVOL
	3/2/2011	ND	ND			ND	5242SIM

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/2/2011			1.4	ND		TVOL
	6/23/2011	ND	ND			0.0035 J	5242SIM
	6/23/2011			1.2	ND		TVOL
	09/08/2011			1.1	< 0.5		TVOL
	09/08/2011	< 0.01	< 0.005			0.0038 J	E524.2S
	12/08/2011			2.3	< 0.5		TVOL
	12/08/2011	< 0.01	< 0.005			< 0.005	E524.2S
MW-8A	8/26/1993	ND	ND				504.1
	8/26/1993			0.8 J	0.5 J		624/25ML
	3/31/1994	ND	ND				504.1
	3/31/1994			2	ND		624/25ML
	8/24/1994	0.05 J	0.05 J				504.1
	8/24/1994			1 J	ND		624/25ML
	12/15/1994	ND	ND				504.1
	12/15/1994			1	ND		624/25ML
	6/22/1995	0.05 J	1.6 J				504.1
	6/22/1995			76	0.3 J		624/25ML
	10/17/1995	2 J	1400	7100	0.6		624/25ML
	5/29/1996	0.41 J	460 J				504.1
	5/29/1996			7000 D	0.7		624/25ML
	10/23/1997	2.5 J	140 J				504.1
	10/23/1997			1200	ND	44	624/25ML
	1/29/1998	3.1 J	130 J				504.1
	1/29/1998			950	ND	32	624/25ML
	5/21/1998	1.2 J	46 J				504.1
	5/21/1998			520	ND	23	624/25ML
	8/19/1998	0.87	37 J				504.1
	8/19/1998			260 J	0.6 J	19 J	624/25ML
	12/2/1998	1 J	40 J				504.1
	12/2/1998			280	0.6	14	624/25ML
	3/17/1999	1.1	40 J				504.1
	3/17/1999			340	0.3 J	11	624/25ML
	6/28/1999	1.3	40 J				504.1
	6/28/1999			200	ND	6	624/25ML
	9/14/1999	0.05	ND				504.1
	9/14/1999			ND	ND	2	624/25ML
	12/17/1999	2.5	69 J				504.1
	12/17/1999			350	0.4 J	10	624/25ML
	3/30/2000	1.9	62 J				504.1
	3/30/2000			260	0.6	10	624/25ML
	7/7/2000	0.13	1.4				504.1
	7/7/2000			17	0.5	2	524.2
	10/9/2000	0.16	1.1				504.1
	10/9/2000			9	0.6	1	524.2
	12/18/2000	0.84	26 J				504.1
	12/18/2000			170	0.8	7	524.2
	4/26/2001	0.61	19 J				504.1
	4/26/2001			110	1	6	524.2
	6/12/2001	0.57	19 J				504.1
	6/12/2001			130	1.4	5	524.2
	10/3/2001	0.59	20 J				504.1
	10/3/2001			160	1.2	6	524.2
	1/21/2002	0.16	3				504.1
	1/21/2002			40	2.6	1	524.2
	4/8/2002	0.43	14 J				504.1
	4/8/2002			120	2.1	4	524.2
	7/2/2002	0.72	22 J				504.1
	7/2/2002			84	2.6	4	524.2
	9/23/2002	0.38	11 J				504.1
	9/23/2002			70	2.7	3	524.2
	12/19/2002	ND	15	100	2	4	524.2
	3/31/2003	ND	15	79	2		VOCS
	6/13/2003	ND	14	80 D	3.1		OLC03.2
	9/23/2003	ND	8.3 D	61 DB	2	ND	OLC03.2
	12/19/2003	ND	8.7 D	80 D	1.9	5.1	OLC03.2

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/17/2004	0.4 J	7.5	70 E	2.4	3.5	OLC03.2
	6/17/2004	ND	6.9	56 D	1	3.9	OLC03.2
	9/17/2004	ND	5.4	61 E	1	3.2	OLC03.2
	11/29/2004	ND	4	45 D	0.85	3.6 D	OLC03.2
	3/15/2005	ND	5.1	40 D	0.71	4.1	OLC03.2
	6/14/2005	ND	5.5	45 D	0.86	4.7	OLC03.2
	9/7/2005	0.16	2.3				504.1
	9/7/2005			51 D	0.74	3.1	OLC032
	12/14/2005	0.16 J	4.5	38	0.57	2	OLC032
	3/13/2006	0.18 J	4.1	34 D	0.86	1.9	OLC032
	6/13/2006	ND	3.3	24 D	0.89	1.5	OLC032
	10/11/2006	ND	2.6	32	0.82 J	0.82 J	TVOL
	1/3/2007	ND	2.9	32 D	0.52	1.5	TVOL
	3/7/2007	ND	4 J	39	0.6 J	2 J	TVOL
	6/7/2007	ND	3.5 J	39 J	0.36 J	1.9 J	TVOL
	10/15/2007	ND	4	33	0.25 J	1.9	TVOL
	12/21/2007	ND	ND		0.24 J	2.1	TVOL
	3/19/2008	ND	4.3	40	0.23 J	1.7	TVOL
	6/3/2008	ND	4	43	ND	ND	TVOL
	9/26/2008	0.16 J	4.8	41	0.23 J	2.2	TVOL
	12/12/2008	ND	1.6	18	ND	ND	TVOL
	3/19/2009	ND	2.4	24	ND	1.6	TVOL
	6/11/2009	ND	2.5	29	ND	1.6	TVOL
	9/16/2009	ND	1.5	15	ND	0.68	TVOL
	12/17/2009	ND	1.2	12	ND	0.66	TVOL
	3/9/2010	ND	0.73	8.5 J	ND	0.28 J	TVOL
	6/24/2010	ND	1	17	ND	ND	TVOL
	10/4/2010	ND	1.5	18	ND	1.2	TVOL
	12/16/2010	ND	1.5	12	ND	1.2	TVOL
	3/22/2011	ND	0.99	14	0.13 J	0.82	TVOL
	7/5/2011	ND	ND	10	ND	0.61	TVOL
	09/09/2011	< 0.5	0.39 J	5.2	< 0.5	0.34 J	TVOL
	12/06/2011	< 0.5	0.47 J	7.9	< 0.5	0.58	TVOL
MW-8B	8/26/1993	ND	ND				504.1
	8/26/1993			0.5 J	0.5 J		624/25ML
	3/31/1994	ND	ND				504.1
	3/31/1994			ND	ND		624/25ML
	8/25/1994	0.05 J	0.05 J				504.1
	8/25/1994			ND	ND		624/25ML
	12/15/1994	ND	ND				504.1
	12/15/1994			ND	ND		624/25ML
	6/29/1995	ND	ND				504.1
	6/29/1995			8	ND		624/25ML
	10/17/1995	ND	0.59				504.1
	10/17/1995			4	ND		624/25ML
	5/24/1996	0.05 J	0.03 J				504.1
	5/24/1996			100 D	4		624/25ML
	1/29/1998	1.9 J	60 J				504.1
	1/29/1998			860	3	35	624/25ML
	5/21/1998	0.64	21 J				504.1
	5/21/1998			290	6	9	624/25ML
	8/19/1998	0.58	22 J				504.1
	8/19/1998			290 J	0.5 J	16 J	624/25ML
	12/2/1998	0.37	11 J				504.1
	12/2/1998			75	8	4	624/25ML
	3/17/1999	0.28	11 J				504.1
	3/17/1999			80	3	4	624/25ML
	3/30/2000	2	61 J				504.1
	3/30/2000			280	0.6	10	624/25ML
	7/7/2000	ND	11 J				504.1
	7/7/2000			150	ND	2	524.2
	10/9/2000	ND	21 J				504.1
	10/9/2000			180	0.5	2	524.2
	12/18/2000	0.15	14 J				504.1
	12/18/2000			120	3	2	524.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	4/26/2001	0.27	9.4				504.1
	4/26/2001			43	14	2	524.2
	6/12/2001	0.23	6.7				504.1
	6/12/2001			35	8	2	524.2
	10/3/2001	0.43	22 J				504.1
	10/3/2001			220	5.2	7	524.2
	1/21/2002	0.63	25 J				504.1
	1/21/2002			290	0.8	8	524.2
	4/8/2002	0.63	35 J				504.1
	4/8/2002			500	ND	10	524.2
	7/3/2002	1.1	53 J				504.1
	7/3/2002			490 J	ND	19	524.2
	9/24/2002	1	42 J				504.1
	9/24/2002			800	ND	14	524.2
	12/17/2002	1 J	110	1400	ND	18	524.2
	3/31/2003	ND	35	350	ND		VOCS
	6/13/2003	3.2	64 D	770 D	ND		OLC03.2
	9/23/2003	ND	42	540 DB	ND	23 D	OLC03.2
	12/19/2003	ND	66	510 D	ND	ND	OLC03.2
	3/17/2004	ND	52	680 D	ND	24 D	OLC03.2
	6/17/2004	2.3 J	61	920 D	ND	34 JD	OLC03.2
	9/20/2004	ND	75	1000 D	ND	45	OLC03.2
	12/10/2004	ND	34	980	ND	36	OLC03.2
	3/15/2005	1.7 J	46	710 D	ND	43	OLC03.2
	6/14/2005	2.2 J	61	1600 D	ND	63	OLC03.2
	9/7/2005	ND	61	2000 D	ND	ND	OLC032
	12/14/2005	ND	49	1100	ND	30	OLC032
	3/13/2006	2.6 J	59	1300 D	ND	40	OLC032
	6/13/2006	2.9	ND	1900 D	ND	30 JD	OLC032
	10/3/2006	2	ND	1600	ND	53	TVOL
	1/3/2007	ND	86	1600 D	ND	74	TVOL
	3/7/2007	ND	56	1900	ND	48	TVOL
	6/7/2007	3.2 J	66 J	1500 J	ND	52 J	TVOL
	10/15/2007	ND	56	2200	ND	50	TVOL
	12/21/2007	ND	55	2000	ND	50	TVOL
	3/19/2008	3.5	53 J	2300	ND	ND	TVOL
	6/3/2008	ND	57 E	2500	ND	ND	TVOL
	9/26/2008	3.3	65 J	2400	0.13 J	65 J	TVOL
	12/5/2008	ND	20 J	1000 J	ND	36 J	TVOL
	3/12/2009	ND	36 J	1900 J	ND	52 J	TVOL
	6/11/2009		30				5041
	6/11/2009					33 J	5242SIM
	6/11/2009	2.3		1700	ND		TVOL
	9/18/2009	1.3	20 J	910	ND	54	TVOL
	12/17/2009	ND	1.7	52	0.7	1.8	TVOL
	3/9/2010	ND	18	740	ND	15	TVOL
	6/24/2010	ND	ND	950 J	ND	22 J	TVOL
	10/4/2010	ND	24	1500	ND	40	TVOL
	12/16/2010	ND	26	1100	ND	46	TVOL
	3/22/2011	2.5	35 J	1500	0.1 J	46 J	TVOL
	7/5/2011	ND	27 J	1100	ND	35 J	TVOL
	09/09/2011	< 0.5	14	530	< 0.5	17 J	TVOL
	12/06/2011	< 0.5	< 130	1400 J	< 0.5	< 130	TVOL
MW-9A	8/26/1993	ND	ND				504.1
	8/26/1993			0.5 J	0.5 J		624/25ML
	3/30/1994	ND	ND				504.1
	3/30/1994			0.4 J	0.5		624/25ML
	8/24/1994	0.05 J	0.05 J				504.1
	8/24/1994			1 J	0.4 J		624/25ML
	12/15/1994	ND	ND				504.1
	12/15/1994			0.8 J	0.5 J		624/25ML
	6/22/1995	ND	ND				504.1
	6/22/1995			0.3 J	0.6		624/25ML
	10/19/1995	0.04 L	0.76				504.1
	10/19/1995			5 J	1 J		624/25ML

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	5/21/1996	0.05 J	0.04 J				504.1
	5/21/1996			ND	ND		624/25ML
	10/7/1996	0.25 J	0.25 J				504.1
	10/7/1996			2 J	ND		624/25ML
	3/31/1997	ND	ND				504.1
	3/31/1997			1 J	0.8		624/25ML
	6/25/1997	ND	1 J				504.1
	6/25/1997			2	ND	ND	624/25ML
	10/22/1997	ND	ND				504.1
	10/22/1997			0.9 J	0.3 J	ND	624/25ML
	5/21/1998	ND	ND				504.1
	5/21/1998			ND	ND	ND	624/25ML
	8/19/1998	ND	ND				504.1
	8/19/1998			0.3 J	ND	ND	624/25ML
	12/2/1998	ND	ND				504.1
	12/2/1998			ND	ND	ND	624/25ML
	3/17/1999	ND	ND				504.1
	3/17/1999			ND	ND	ND	624/25ML
	6/28/1999	ND	ND				504.1
	6/28/1999			0.8 J	ND	ND	624/25ML
	9/13/1999	ND	ND				504.1
	9/13/1999			ND	ND	ND	624/25ML
	12/20/1999	ND	ND				504.1
	12/20/1999			ND	ND	ND	624/25ML
	3/24/2000	ND	ND				504.1
	3/24/2000			ND	ND	ND	624/25ML
	6/28/2000	ND	ND				504.1
	6/28/2000			ND	ND	ND	524.2
	10/5/2000	ND	ND				504.1
	10/5/2000			ND	ND	ND	524.2
	12/12/2000	ND	ND				504.1
	12/12/2000			0.6 J	ND	ND	524.2
	4/23/2001	ND	ND				504.1
	4/23/2001			ND	ND	ND	524.2
	6/11/2001	ND	ND				504.1
	6/11/2001			ND	ND	ND	524.2
	10/1/2001	ND	ND				504.1
	10/1/2001			ND	ND	ND	524.2
	1/16/2002	ND	ND				504.1
	1/16/2002			ND	ND	ND	524.2
	3/28/2002	ND	ND				504.1
	3/28/2002			ND	ND	ND	524.2
	9/12/2002	ND	ND				504.1
	9/12/2002			ND	ND	ND	524.2
	3/11/2003	ND	ND				504.1
	3/11/2003			0.2 J	0.2 J		OLC03.2
	3/11/2003		ND				VOCS
	9/11/2003	ND	ND				504.1
	9/11/2003			0.068 J	0.061 J	ND	OLC03.2
	3/4/2004	ND	ND				504.1
	3/4/2004			0.11 J	0.12 J	ND	OLC03.2
	9/17/2004	ND	ND				504.1
	9/17/2004			ND	ND	ND	OLC03.2
	3/10/2005	ND	ND				504.1
	3/10/2005			ND	ND	ND	OLC03.2
	9/19/2005	ND	ND				504.1
	9/19/2005			ND	ND	ND	OLC032
	3/9/2006	ND	ND				504.1
	3/9/2006			0.11 J	ND	ND	OLC032
	10/2/2006	ND	ND				504.1
	10/2/2006			ND	ND	ND	TVOL
	3/12/2007	ND	ND				504.1
	3/12/2007			ND	ND	ND	TVOL
	9/26/2007	ND	ND				504.1
	9/26/2007			ND	ND	ND	TVOL

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/25/2008	ND	ND				504.1
	3/25/2008			ND	ND	ND	TVOL
	9/26/2008	ND	ND				504.1
	9/26/2008			ND	0.06 J	ND	TVOL
	3/12/2009	ND	ND				5041
	3/12/2009					0.0053	524.2 SIM
	3/12/2009			ND	ND		TVOL
	9/16/2009	ND	ND			0.0053	5242SIM
	9/16/2009			ND	ND		TVOL
	3/18/2010	ND	ND			0.0047 J	5242SIM
	3/18/2010			0.23 J	ND		TVOL
	9/20/2010	ND	ND			0.0031 J	5242SIM
	9/20/2010			ND	ND		TVOL
	3/4/2011	ND	ND			0.0033 J	5242SIM
	3/4/2011			0.36 J	ND		TVOL
	09/15/2011			< 0.5	< 0.5		TVOL
	09/15/2011	< 0.01	< 0.005			< 0.005	E524.2S
MW-9B	6/23/1995	ND	ND				504.1
	6/23/1995			1	2		624/25ML
	10/19/1995	ND	0.16				504.1
	10/19/1995			3 J	1		624/25ML
	5/21/1996	0.05 J	0.04 J				504.1
	5/21/1996			1	0.5		624/25ML
	10/7/1996	0.25 J	0.25 J				504.1
	10/7/1996			1 J	ND		624/25ML
	3/31/1997	ND	ND				504.1
	3/31/1997			1 J	2		624/25ML
	6/25/1997	ND	0.05 J				504.1
	6/25/1997			2	1	ND	624/25ML
	10/22/1997	ND	ND				504.1
	10/22/1997			1	0.9	ND	624/25ML
	5/22/1998	ND	ND				504.1
	5/22/1998			0.7 J	0.6	ND	624/25ML
	8/19/1998	ND	ND				504.1
	8/19/1998			1	0.9	ND	624/25ML
	12/2/1998	ND	ND				504.1
	12/2/1998			0.8 J	ND	ND	624/25ML
	3/17/1999	ND	ND				504.1
	3/17/1999			1	1	ND	624/25ML
	6/28/1999	ND	ND				504.1
	6/28/1999			ND	ND	ND	624/25ML
	9/13/1999	ND	ND				504.1
	9/13/1999			ND	ND	ND	624/25ML
	12/20/1999	ND	ND				504.1
	12/20/1999			ND	ND	ND	624/25ML
	3/24/2000	ND	ND				504.1
	3/24/2000			1	0.6	ND	624/25ML
	6/28/2000	ND	ND				504.1
	6/28/2000			0.9 J	0.5	ND	524.2
	10/5/2000	ND	ND				504.1
	10/5/2000			0.7 J	0.5	ND	524.2
	12/12/2000	ND	ND				504.1
	12/12/2000			0.8 J	0.4 J	ND	524.2
	4/23/2001	ND	ND				504.1
	4/23/2001			0.9 J	0.3 J	ND	524.2
	6/11/2001	ND	ND				504.1
	6/11/2001			0.8 J	0.6	ND	524.2
	10/1/2001	ND	ND				504.1
	10/1/2001			0.6 J	0.4 J	ND	524.2
	1/16/2002	ND	ND				504.1
	1/16/2002			0.7 J	0.5	ND	524.2
	3/28/2002	ND	ND				504.1
	3/28/2002			0.6 J	0.4 J	ND	524.2
	9/12/2002	ND	ND				504.1
	9/12/2002			ND	ND	ND	524.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/21/2003	ND	ND				504.1
	3/21/2003			0.8	0.6		VOCS
	9/11/2003	ND	ND				504.1
	9/11/2003			0.59	0.33 J	ND	OLC03.2
	3/4/2004	ND	ND				504.1
	3/4/2004			0.52	0.32 J	ND	OLC03.2
	9/17/2004	ND	ND				504.1
	9/17/2004			0.51	0.41 J	ND	OLC03.2
	3/10/2005	ND	ND				504.1
	3/10/2005			0.46 J	0.25 J	ND	OLC03.2
	9/19/2005	ND	ND				504.1
	9/19/2005			0.51	0.26 J	ND	OLC032
	3/13/2006	ND	ND				504.1
	3/13/2006			0.51	0.26 J	ND	OLC032
	10/2/2006	ND	ND				504.1
	10/2/2006			ND	ND	ND	TVOL
	3/12/2007	ND	ND				504.1
	3/12/2007			0.46 J	0.19 J	ND	TVOL
	9/26/2007	ND	ND				504.1
	9/26/2007			0.59	0.23 J	ND	TVOL
	3/25/2008	ND	ND				504.1
	3/25/2008			0.45 J	ND	ND	TVOL
	9/26/2008	ND	ND				504.1
	9/26/2008			ND	0.2 J	ND	TVOL
	3/12/2009	ND	ND				5041
	3/12/2009					0.013	524.2 SIM
	3/12/2009			ND	ND		TVOL
	9/16/2009	ND	ND			0.014	5242SIM
	9/16/2009			ND	ND		TVOL
	3/18/2010	ND	ND			0.0099	5242SIM
	3/18/2010			0.29 J	ND		TVOL
	9/20/2010	ND	ND			0.0095	5242SIM
	9/20/2010			ND	ND		TVOL
	3/4/2011	ND	ND			0.0094	5242SIM
	3/4/2011			0.54	0.095 J		TVOL
	09/15/2011			< 0.5	< 0.5		TVOL
	09/15/2011	< 0.01	< 0.005			0.009	E524.2S
MW-9C	8/26/1993	ND	ND				504.1
	8/26/1993			0.5 J	0.5 J		624/25ML
	3/30/1994	ND	ND				504.1
	3/30/1994			ND	ND		624/25ML
	8/24/1994	0.05 J	0.05 J				504.1
	8/24/1994			ND	ND		624/25ML
	12/15/1994	ND	ND				504.1
	12/15/1994			ND	ND		624/25ML
	6/23/1995	ND	ND				504.1
	10/19/1995	ND	0.09				504.1
	10/19/1995			ND	ND		624/25ML
	5/21/1996	0.05 J	0.09 J				504.1
	5/21/1996			ND	ND		624/25ML
	10/7/1996	0.25 J	0.25 J				504.1
	10/7/1996			ND	ND		624/25ML
	3/31/1997	ND	ND				504.1
	3/31/1997			ND	2		624/25ML
	6/25/1997	ND	0.17 J				504.1
	6/25/1997			0.5 J	ND	ND	624/25ML
	10/22/1997	ND	ND				504.1
	10/22/1997			ND	ND	ND	624/25ML
	5/22/1998	ND	ND				504.1
	5/22/1998			ND	ND	ND	624/25ML
	8/19/1998	ND	ND				504.1
	8/19/1998			ND	ND	ND	624/25ML
	12/2/1998	ND	ND				504.1
	12/2/1998			ND	ND	ND	624/25ML
	3/17/1999	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/17/1999			ND	ND	ND	624/25ML
	6/28/1999	ND	ND				504.1
	6/28/1999			ND	ND	ND	624/25ML
	9/13/1999	ND	ND				504.1
	9/13/1999			ND	ND	ND	624/25ML
	12/20/1999	ND	ND				504.1
	12/20/1999			ND	ND	ND	624/25ML
	3/24/2000	ND	ND				504.1
	3/24/2000			ND	ND	ND	624/25ML
	6/28/2000	ND	ND				504.1
	6/28/2000			ND	ND	ND	524.2
	10/5/2000	ND	ND				504.1
	10/5/2000			ND	ND	ND	524.2
	12/12/2000	ND	ND				504.1
	12/12/2000			ND	ND	ND	524.2
	4/23/2001	ND	ND				504.1
	4/23/2001			ND	ND	ND	524.2
	6/11/2001	ND	ND				504.1
	6/11/2001			ND	ND	ND	524.2
	10/1/2001	ND	ND				504.1
	10/1/2001			ND	ND	ND	524.2
	1/16/2002	ND	ND				504.1
	1/16/2002			ND	ND	ND	524.2
	3/28/2002	ND	ND				504.1
	3/28/2002			ND	ND	ND	524.2
	9/12/2002	ND	ND				504.1
	9/12/2002			ND	ND	ND	524.2
	3/11/2003	ND	ND				504.1
	3/11/2003	ND	ND	ND	ND		OLC03.2
	3/21/2003	ND	ND	ND	ND		OLC03.2
	3/21/2003		0.005 J				VOCS
	9/11/2003	ND	ND				504.1
	9/11/2003			ND	ND	ND	OLC03.2
	3/4/2004	ND	ND				504.1
	3/4/2004			ND	ND	ND	OLC03.2
	9/17/2004	ND	ND				504.1
	9/17/2004			0.31 J	ND	ND	OLC03.2
	3/10/2005	ND	ND				504.1
	3/10/2005			ND	ND	ND	OLC03.2
	9/19/2005	ND	ND				504.1
	9/19/2005			0.53	ND	ND	OLC032
	3/9/2006	ND	ND				504.1
	3/9/2006			0.33 J	ND	ND	OLC032
	10/2/2006	ND	ND				504.1
	10/2/2006			ND	ND	ND	TVOL
	3/12/2007	ND	ND				504.1
	3/12/2007			0.33 J	ND	ND	TVOL
	9/26/2007	ND	ND				504.1
	9/26/2007			0.34 J	ND	ND	TVOL
	3/25/2008	ND	ND	0.36 J	ND	ND	TVOL
	9/26/2008	ND	ND				504.1
	9/26/2008			ND	ND	ND	TVOL
	3/12/2009	ND	ND				5041
	3/12/2009					ND	524.2 SIM
	3/12/2009			ND	ND		TVOL
	6/12/2009	ND	ND				5041
	6/12/2009					ND	5242SIM
	6/12/2009			0.64	ND		TVOL
	9/16/2009	ND	ND			ND	5242SIM
	9/16/2009			0.59	ND		TVOL
	3/18/2010	ND	ND			ND	5242SIM
	3/18/2010			0.31 J	ND		TVOL
	9/20/2010	ND	ND			0.0032 J	5242SIM
	9/20/2010			1.5	ND		TVOL
	3/4/2011	ND	ND			0.0037 J	5242SIM

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/4/2011			2	ND		TVOL
	09/15/2011			0.98 J	< 0.5		TVOL
	09/15/2011	< 0.01	< 0.005			0.0047 J	E524.2S
OW-10A	8/20/1998	ND	ND				504.1
	8/20/1998			ND	ND	ND	624/25ML
	12/4/1998	ND	ND				504.1
	12/4/1998			ND	ND	ND	624/25ML
	3/18/1999	ND	ND				504.1
	3/18/1999			ND	ND	ND	624/25ML
	6/23/1999	ND	ND				504.1
	6/23/1999			ND	ND	ND	624/25ML
	9/8/1999	ND	ND				504.1
	9/8/1999			ND	ND	ND	624/25ML
	12/15/1999	ND	ND				504.1
	12/15/1999			ND	ND	ND	624/25ML
	3/22/2000	ND	ND				504.1
	3/22/2000			ND	ND	ND	624/25ML
	6/20/2000	ND	ND				504.1
	6/20/2000			ND	ND	ND	524.2
	9/25/2000	ND	ND				504.1
	9/25/2000			ND	ND	ND	524.2
	12/5/2000	ND	ND				504.1
	12/5/2000			ND	ND	ND	524.2
	4/16/2001	ND	ND				504.1
	4/16/2001			ND	ND	ND	524.2
	6/6/2001	ND	ND				504.1
	6/6/2001			ND	ND	ND	524.2
	9/25/2001	ND	ND				504.1
	9/25/2001			ND	ND	ND	524.2
	1/8/2002	ND	ND				504.1
	1/8/2002			ND	ND	ND	524.2
	3/18/2002	ND	ND				504.1
	3/18/2002			ND	ND	ND	524.2
OW-10B	7/6/1998	ND	ND				504.1
	7/6/1998			ND	ND	ND	624/25ML
	7/8/1998	ND	ND				504.1
	7/8/1998			ND	ND	ND	624/25ML
	8/20/1998	ND	ND				504.1
	8/20/1998			ND	ND	ND	624/25ML
	12/4/1998	ND	ND				504.1
	12/4/1998			ND	ND	ND	624/25ML
	3/19/1999	ND	0.06				504.1
	3/19/1999			ND	ND	ND	624/25ML
	6/23/1999	ND	ND				504.1
	6/23/1999			ND	ND	ND	624/25ML
	9/8/1999	ND	ND				504.1
	9/8/1999			ND	ND	ND	624/25ML
	12/15/1999	ND	ND				504.1
	12/15/1999			ND	ND	ND	624/25ML
	3/22/2000	ND	ND				504.1
	3/22/2000			ND	ND	ND	624/25ML
	6/20/2000	ND	ND				504.1
	6/20/2000			ND	ND	ND	524.2
	9/25/2000	ND	ND				504.1
	9/25/2000			ND	ND	ND	524.2
	12/5/2000	ND	ND				504.1
	12/5/2000			ND	ND	ND	524.2
	4/16/2001	ND	ND				504.1
	4/16/2001			ND	ND	ND	524.2
	6/6/2001	ND	ND				504.1
	6/6/2001			ND	ND	ND	524.2
	9/25/2001	ND	ND				504.1
	9/25/2001			ND	ND	ND	524.2
	1/8/2002	ND	ND				504.1
	1/8/2002			ND	ND	ND	524.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/18/2002	ND	ND				504.1
	3/18/2002			ND	ND	ND	524.2
OW-11A	11/10/1997	0.03 J	0.32 J				504.1
	11/10/1997			4	ND	0.3 J	624/25ML
	1/29/1998	ND	0.3 J	3	ND	0.5 J	624/25ML
	5/20/1998	ND	0.05				504.1
	5/20/1998			2	ND	ND	624/25ML
	7/10/1998	ND	ND				504.1
	7/10/1998			ND	ND	ND	624/25ML
	8/19/1998	0.03 J	0.51				504.1
	8/19/1998			8	ND	ND	624/25ML
	12/3/1998	ND	2 J				504.1
	12/3/1998			ND	ND	ND	624/25ML
	12/4/1998	ND	ND				504.1
	12/4/1998			ND	ND	ND	624/25ML
	3/18/1999	ND	0.2				504.1
	3/18/1999			0.9 J	ND	ND	624/25ML
	6/30/1999	ND	0.06 J				504.1
	6/30/1999			0.6 J	ND	ND	624/25ML
	9/15/1999	ND	ND				504.1
	9/15/1999			ND	ND	ND	624/25ML
	12/21/1999	ND	ND				504.1
	12/21/1999			ND	ND	ND	624/25ML
	3/30/2000	ND	0.17				504.1
	3/30/2000			1	ND	ND	624/25ML
	7/6/2000	ND	0.09				504.1
	7/6/2000			ND	ND	ND	524.2
	10/11/2000	ND	0.06				504.1
	10/11/2000			ND	ND	ND	524.2
	12/15/2000	ND	0.24				504.1
	12/15/2000			0.7 J	0.8 J	ND	524.2
	4/25/2001	ND	0.18				504.1
	4/25/2001			ND	ND	ND	524.2
	6/14/2001	ND	0.14				504.1
	6/14/2001			ND	ND	ND	524.2
	10/3/2001	ND	0.11				504.1
	10/3/2001			ND	ND	ND	524.2
	1/22/2002	ND	0.06				504.1
	1/22/2002			ND	ND	ND	524.2
	3/29/2002	ND	ND				504.1
	3/29/2002			ND	ND	ND	524.2
	6/24/2002	ND	0.07				504.1
	6/24/2002			ND	ND	ND	524.2
	9/11/2002	ND	0.03				504.1
	9/11/2002			ND	ND	ND	524.2
	12/10/2002	ND	0.08				504.1
	12/10/2002			ND	ND	ND	524.2
	3/18/2003	ND	0.054				504.1
	3/18/2003			0.3 J	ND		VOCS
	6/20/2003	ND	0.078				504.1
	6/20/2003			0.23 J	ND		OLC03.2
	9/15/2003	ND	ND				504.1
	9/15/2003			0.24 J	ND	ND	OLC03.2
	12/17/2003	ND	0.067				504.1
	12/17/2003			0.3 J	0.31 J	ND	OLC03.2
	3/11/2004	ND	ND				504.1
	3/11/2004			ND	0.077 J	ND	OLC03.2
	6/9/2004	ND	ND				504.1
	6/9/2004			ND	0.06 J	ND	OLC03.2
	9/23/2004	ND	0.053				504.1
	9/23/2004			ND	ND	ND	OLC03.2
	12/6/2004	ND	0.033				504.1
	12/6/2004			ND	ND	ND	OLC03.2
	3/3/2005	ND	0.095				504.1
	3/3/2005			ND	ND	ND	OLC03.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/3/2005	ND	0.028				504.1
	6/3/2005			ND	ND	ND	OLC03.2
	9/12/2005	ND	0.045				504.1
	9/12/2005			ND	ND	ND	OLC032
	12/8/2005	ND	0.056				504.1
	12/8/2005			0.24 J	ND	ND	OLC032
	3/3/2006	ND	ND				504.1
	3/3/2006			ND	ND	ND	OLC032
	6/2/2006	ND	0.034				504.1
	6/2/2006			ND	ND	ND	OLC032
	10/6/2006	ND	0.012 J				504.1
	10/6/2006			ND	ND	ND	TVOL
	12/21/2006	ND	0.062				504.1
	12/21/2006			ND	ND	ND	TVOL
	3/2/2007	ND	ND				504.1
	3/2/2007			ND	ND	ND	TVOL
	6/5/2007	ND	0.049				504.1
	6/5/2007			ND	ND	ND	TVOL
	9/28/2007	ND	0.068				504.1
	9/28/2007			0.35 J	ND	ND	TVOL
	12/12/2007	ND	0.041				504.1
	12/12/2007			ND	ND	ND	TVOL
	3/14/2008	ND	ND	0.23 J	ND	ND	TVOL
	5/28/2008	ND	0.033				504.1
	5/28/2008			ND	ND	ND	TVOL
	9/29/2008	ND	0.054				504.1
	9/29/2008			ND	ND	ND	TVOL
	12/16/2008	ND	ND				504.1
	12/16/2008			ND	ND	ND	TVOL
	3/3/2009	ND	ND				5041
	3/3/2009					0.0026 J	524.2 SIM
	3/3/2009			ND	ND		TVOL
	6/4/2009	ND	0.023				5041
	6/4/2009					0.013	5242SIM
	6/4/2009			ND	ND		TVOL
	9/11/2009	ND	0.0032 J			0.0054	5242SIM
	9/11/2009			ND	ND		TVOL
	12/7/2009	ND	0.012			0.0078	5242SIM
	12/7/2009			ND	ND		TVOL
	3/22/2010	ND	0.029			0.018	5242SIM
	3/22/2010			ND	ND		TVOL
	6/21/2010	ND	ND			ND	5242SIM
	6/21/2010			ND	ND		TVOL
	9/17/2010	ND	0.015			0.012	5242SIM
	9/17/2010			ND	ND		TVOL
	12/3/2010	ND	0.0038 J			0.0036 J	5242SIM
	12/3/2010			ND	ND		TVOL
	3/11/2011	ND	ND			ND	5242SIM
	3/11/2011			ND	ND		TVOL
	6/27/2011	ND	ND			ND	5242SIM
	6/27/2011			ND	ND		TVOL
	09/26/2011			< 0.5	< 0.5		TVOL
	09/26/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/06/2011			< 0.5	< 0.5		TVOL
	12/06/2011	< 0.01	0.026			0.014	E524.2S
OW-11B	11/10/1997	7.2 J	210 J				504.1
	11/10/1997			2300	ND	42	624/25ML
	1/29/1998	2.9 J	60 J				504.1
	1/30/1998	5	160	1200	ND	26	624/25ML
	5/21/1998	7.9 J	130 J				504.1
	5/21/1998			1700	ND	55	624/25ML
	7/10/1998	ND	ND				504.1
	7/10/1998			ND	ND	ND	624/25ML
	12/3/1998	12 J	290 J				504.1
	12/3/1998			2900 J	ND	130 J	624/25ML

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/19/1999	12 J	200 J				504.1
	3/19/1999			2500	ND	70	624/25ML
	6/30/1999	7.4	130 J				504.1
	6/30/1999			1900	ND	53	624/25ML
	9/15/1999	12 J	190 J				504.1
	9/15/1999			2700	ND	80	624/25ML
	12/21/1999	2	54	2500	ND	77	624/25ML
	3/30/2000	5	70	1000	ND	40	624/25ML
	7/6/2000	4.5	29 J				504.1
	7/6/2000			620	ND	48	524.2
	10/11/2000	1.8	23 J				504.1
	10/11/2000			1000	1	33	524.2
	12/15/2000	1.3	14 J				504.1
	12/15/2000			760	0.3 J	40	524.2
	4/25/2001	3.1	40 J				504.1
	4/25/2001			660	ND	29	524.2
	6/14/2001	3.3	28 J				504.1
	6/14/2001			260	ND	24	524.2
	10/3/2001	2.5	11 J				504.1
	10/3/2001			130	ND	12	524.2
	1/22/2002	2	9.6				504.1
	1/22/2002			100	ND	12	524.2
	4/5/2002	3.2	37 J				504.1
	4/5/2002			610	ND	16	524.2
	7/3/2002	3	41 J	280 J	0.3 J	16	524.2
	9/25/2002	2 J	30	220	0.3 J	10	524.2
	12/20/2002	2	40	300	ND	14	524.2
	3/27/2003	ND	39	320	ND		VOCS
	6/24/2003	ND	36	160 D	ND		OLC03.2
	9/19/2003	3.9	18 D	140 D	ND	17	OLC03.2
	12/18/2003	ND	26	270 D	ND	16	OLC03.2
	3/11/2004	ND	23 D	220 D	0.12 J	16	OLC03.2
	6/9/2004	1.5	23	230 D	ND	ND	OLC03.2
	9/23/2004	2.4	22 D	170 D	ND	17	OLC03.2
	12/6/2004	ND	20	130 D	ND	ND	OLC03.2
	3/3/2005	1.9	20 D	150 D	ND	19	OLC03.2
	6/3/2005	1.1	16	86 D	ND	ND	OLC03.2
	9/12/2005	1.2	12	57 D	ND	6.2	OLC032
	12/8/2005	1.5	15	130	ND	7.9	OLC032
	3/3/2006	1.2	15	110 D	ND	7.2	OLC032
	6/2/2006	ND	ND	13	ND	2.8	OLC032
	10/6/2006	0.6	4				504.1
	10/6/2006			46	ND	2 J	TVOL
	12/21/2006	0.87	8.9	81 D	ND	5.2	TVOL
	3/2/2007	0.87	5.3	56	ND	4.5	TVOL
	6/5/2007	0.56 J	6.5 J	56 J	ND	3.8 J	TVOL
	9/28/2007	0.56	6.4	61	ND	3.6	TVOL
	12/12/2007	0.8	8.1	76	ND	5.7	TVOL
	3/14/2008	ND	6.5	68	ND	3.8	TVOL
	5/28/2008	ND	2.5	30	ND	ND	TVOL
	9/29/2008	0.39 J	4	38	ND	2.5	TVOL
	12/16/2008	ND	0.86	10	ND	ND	TVOL
	3/3/2009	0.55	7.8	56	ND	3.7	TVOL
	6/4/2009	ND	3	22	ND	3	TVOL
	9/11/2009	ND	0.56	5.3	ND	0.52	TVOL
	12/7/2009	ND	1.5	18	ND	1	TVOL
	3/22/2010	ND	3.5	38	ND	2.3	TVOL
	6/21/2010	ND	3.1 J	51 J	ND	1.7 J	TVOL
	9/17/2010	0.26 J	3.8	39	ND	2.9	TVOL
	12/3/2010	ND	5.7	46	ND	3.9	TVOL
	3/11/2011	0.45 J	4.1	39	ND	2.4	TVOL
	6/27/2011	ND	3.8	57	ND	2.1	TVOL
	09/26/2011	< 0.5	1.2	11	< 0.5	0.73	TVOL
	12/06/2011	< 0.5	1.9	19	< 0.5	1.3	TVOL
OW-11C	11/10/1997	0.11	5.2 J				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	11/10/1997			45	ND	1	624/25ML
	1/29/1998	0.12	3.3 J				504.1
	1/29/1998			61	ND	1	624/25ML
	5/20/1998	0.2	4.3 J				504.1
	5/20/1998			54	ND	2	624/25ML
	8/19/1998	1.4 J	26 J				504.1
	8/19/1998			200 J	0.5 J	7 J	624/25ML
	12/3/1998	ND	16 J				504.1
	12/3/1998			ND	ND	ND	624/25ML
	3/18/1999	0.91	14 J				504.1
	3/18/1999			170	ND	5	624/25ML
	6/30/1999	0.66	11 J				504.1
	6/30/1999			80	ND	6	624/25ML
	9/15/1999	0.75	12 J				504.1
	9/15/1999			130	ND	4	624/25ML
	12/21/1999	0.63	11 J				504.1
	12/21/1999			140	ND	4	624/25ML
	3/30/2000	0.54	11 J				504.1
	3/30/2000			100	ND	3	624/25ML
	7/6/2000	0.85	13 J				504.1
	7/6/2000			130	ND	5	524.2
	10/11/2000	1.1	13 J				504.1
	10/11/2000			140	ND	5	524.2
	12/15/2000	0.65	9.4				504.1
	12/15/2000			76	ND	4	524.2
	4/25/2001	0.34	5.8				504.1
	4/25/2001			60	ND	2	524.2
	6/14/2001	1.2	18 J				504.1
	6/14/2001			300	ND	7	524.2
	10/3/2001	1.2	16 J				504.1
	10/3/2001			160	ND	6	524.2
	1/22/2002	1.6	22 J				504.1
	1/22/2002			520	0.3 J	11	524.2
	4/5/2002	0.19	3.4				504.1
	4/5/2002			43	ND	1	524.2
	7/1/2002	0.24	4.1				504.1
	7/1/2002			55	ND	2	524.2
	9/25/2002	0.28	4.1				504.1
	9/25/2002			60	ND	1	524.2
	12/20/2002	1.2	15 J				504.1
	12/20/2002			140	ND	5	524.2
	3/27/2003	1	15				504.1
	3/27/2003			230	0.3 J		VOCS
	6/24/2003	0.43	5.4				504.1
	6/24/2003			69 D	1.2		OLC03.2
	9/19/2003	ND	ND				504.1
	9/19/2003			100 D	1	ND	OLC03.2
	12/18/2003	ND	21	200 D	0.59	ND	OLC03.2
	3/11/2004	1.4	24	230 D	0.28	11	OLC03.2
	6/9/2004	ND	5.2	66 D	1.3	ND	OLC03.2
	9/23/2004	0.39 J	9.2	77 D	1.3	5.1	OLC03.2
	12/6/2004	ND	17	220 D	0.22 J	ND	OLC03.2
	3/3/2005	1.2	17	180 D	ND	15 D	OLC03.2
	6/3/2005	0.25 J	3.6	37 D	0.78	3	OLC03.2
	9/12/2005	0.45 J	5.5	55 D	1.2	2.7	OLC032
	12/8/2005	1.1	14	140	0.58 J	6.7	OLC032
	3/3/2006	1.1	15	140 D	0.25 J	7	OLC032
	6/2/2006	ND	4.1	52	1.6 J	1.9 J	OLC032
	10/6/2006	ND	2.7	74	1	2.3	TVOL
	12/21/2006	ND	6	63 D	ND	3.1	TVOL
	3/2/2007	0.55	8.4	93	0.59	4.3	TVOL
	6/5/2007	ND	1.5 J	51 J	2.1 J	1.2 J	TVOL
	9/28/2007	0.33 J	3.7	62	1.3	2.4	TVOL
	12/12/2007	0.36 J	5.6	76	0.86	3.6	TVOL
	3/14/2008	ND	1.4	45	1.8	ND	TVOL

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	5/28/2008	ND	4.7	61	ND	ND	TVOL
	9/29/2008	0.33 J	3.1	67	1.8 J	2.5	TVOL
	12/16/2008	ND	1.4	55	0.65	ND	TVOL
	3/3/2009	ND	4.5	61	0.54	3.1	TVOL
	6/4/2009	ND	3.5 J	44	0.77 J	2.4	TVOL
	9/11/2009	ND	1.4	25	0.64	1.2	TVOL
	12/7/2009	ND	1.9	22	ND	1.3	TVOL
	3/22/2010	ND	1.7	25	ND	1.3	TVOL
	6/21/2010	ND	1 J	38 J	1.4 J	1.4 J	TVOL
	9/17/2010	ND	2.2	57	0.48 J	2.4	TVOL
	12/3/2010	ND	2.5	43	0.37 J	2.5	TVOL
	3/11/2011	ND	1.7	33	0.48 J	1.4	TVOL
	6/27/2011	ND	0.9 J	21	ND	0.98	TVOL
	09/26/2011	< 0.5	0.84	17	< 0.5	1	TVOL
	12/06/2011	< 0.5	1.3	33	< 0.5	1.1	TVOL
OW-12A	7/13/1998	ND	ND				504.1
	7/13/1998			ND	ND	ND	624/25ML
	8/20/1998	ND	ND				504.1
	8/20/1998			ND	ND	ND	624/25ML
	12/3/1998	ND	0.12 J				504.1
	12/3/1998			0.7 J	ND	ND	624/25ML
	3/19/1999	ND	0.09				504.1
	3/19/1999			0.5 J	ND	ND	624/25ML
	6/23/1999	ND	0.15				504.1
	6/23/1999			1	ND	ND	624/25ML
	9/9/1999	ND	ND				504.1
	9/9/1999			ND	ND	ND	624/25ML
	12/15/1999	ND	ND				504.1
	12/15/1999			ND	ND	ND	624/25ML
	3/29/2000	ND	ND				504.1
	3/29/2000			ND	ND	ND	624/25ML
	6/29/2000	ND	ND				504.1
	6/29/2000			ND	ND	ND	524.2
	10/5/2000	ND	ND				504.1
	10/5/2000			ND	ND	ND	524.2
	12/13/2000	ND	ND				504.1
	12/13/2000			ND	ND	ND	524.2
	4/24/2001	ND	ND				504.1
	4/24/2001			ND	ND	ND	524.2
	6/12/2001	ND	ND				504.1
	6/12/2001			ND	ND	ND	524.2
	10/1/2001	ND	ND				504.1
	10/1/2001			ND	ND	ND	524.2
	1/16/2002	ND	ND				504.1
	1/16/2002			ND	ND	ND	524.2
	3/28/2002	ND	ND				504.1
	3/28/2002			ND	ND	ND	524.2
	6/24/2002	ND	ND				504.1
	6/24/2002			ND	ND	ND	524.2
	9/13/2002	ND	ND				504.1
	9/13/2002			ND	ND	ND	524.2
	12/10/2002	ND	ND				504.1
	12/10/2002			ND	ND	ND	524.2
	3/13/2003	ND	ND				504.1
	3/13/2003			ND	ND		OLC03.2
	3/13/2003		0.006 J				VOCS
	6/17/2003	ND	ND				504.1
	6/17/2003			ND	ND		OLC03.2
	9/15/2003	ND	ND				504.1
	9/15/2003			ND	ND	ND	OLC03.2
	12/11/2003	ND	ND				504.1
	12/11/2003			ND	ND	ND	OLC03.2
	3/4/2004	ND	ND				504.1
	3/4/2004			ND	ND	ND	OLC03.2
	6/3/2004	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/3/2004			ND	ND	ND	OLC03.2
	10/5/2004	ND	ND				504.1
	10/5/2004			ND	ND	ND	OLC03.2
	12/7/2004	ND	ND				504.1
	12/7/2004			2.9	ND	ND	OLC03.2
	3/7/2005	ND	ND				504.1
	3/7/2005			ND	ND	ND	OLC03.2
	6/2/2005	ND	ND				504.1
	6/2/2005			ND	ND	ND	OLC03.2
	9/19/2005	ND	ND				504.1
	9/19/2005			ND	ND	ND	OLC032
	12/8/2005	ND	ND				504.1
	12/8/2005			ND	ND	ND	OLC032
	3/3/2006	ND	ND				504.1
	3/3/2006			ND	ND	ND	OLC032
	6/1/2006	ND	ND				504.1
	6/1/2006			ND	ND	ND	OLC032
	10/9/2006	ND	ND				504.1
	10/9/2006			ND	ND	ND	TVOL
	12/27/2006	ND	ND				504.1
	12/27/2006			ND	ND	ND	TVOL
	3/6/2007	ND	ND				504.1
	3/6/2007			ND	ND	ND	TVOL
	6/4/2007	ND	ND				504.1
	6/4/2007			ND	ND	ND	TVOL
	10/12/2007	ND	ND				504.1
	10/12/2007			ND	ND	ND	TVOL
	12/14/2007	ND	ND				504.1
	12/14/2007			ND	ND	ND	TVOL
	3/20/2008	ND	ND				504.1
	3/20/2008			ND	ND	ND	TVOL
	6/4/2008	ND	ND				504.1
	6/4/2008			ND	ND	ND	TVOL
	10/3/2008	ND	ND				504.1
	10/3/2008			ND	ND	ND	TVOL
	12/15/2008	ND	ND				504.1
	12/15/2008					ND	524.2 SIM
	12/15/2008			ND	ND		TVOL
	3/4/2009	ND	ND				5041
	3/4/2009					ND	524.2 SIM
	3/4/2009			ND	ND		TVOL
	5/28/2009	ND	ND				5041
	5/28/2009					ND	5242SIM
	5/28/2009			ND	ND		TVOL
	9/28/2009	ND	ND			ND	5242SIM
	9/28/2009			ND	ND		TVOL
	12/14/2009	ND	ND			ND	5242SIM
	12/14/2009			ND	ND		TVOL
	3/25/2010	ND	ND			0.0095	5242SIM
	3/25/2010			ND	ND		TVOL
	6/23/2010	ND	ND			ND	5242SIM
	6/23/2010			ND	ND		TVOL
	10/12/2010	ND	ND			ND	5242SIM
	10/12/2010			ND	ND		TVOL
	12/10/2010	ND	ND			ND	5242SIM
	12/10/2010			ND	ND		TVOL
	3/18/2011	ND	ND			ND	5242SIM
	3/18/2011			ND	ND		TVOL
	6/30/2011	ND	ND			ND	5242SIM
	6/30/2011			ND R	ND R		TVOL
	09/29/2011			< 0.5	< 0.5		TVOL
	09/29/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/15/2011			< 0.5	< 0.5		TVOL
	12/15/2011	0.0089 J	< 0.005			< 0.005	E524.2S
OW-12B	7/13/1998	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	7/13/1998			ND	ND	ND	624/25ML
	8/20/1998	ND	ND				504.1
	8/20/1998			ND	ND	ND	624/25ML
	12/3/1998	ND	0.02 J				504.1
	12/3/1998			ND	ND	ND	624/25ML
	3/19/1999	ND	0.66				504.1
	3/19/1999			1	ND	ND	624/25ML
	6/24/1999	ND	ND				504.1
	6/24/1999			ND	ND	ND	624/25ML
	9/9/1999	ND	0.08				504.1
	9/9/1999			0.7 J	ND	ND	624/25ML
	12/15/1999	ND	0.03 J				504.1
	12/15/1999			ND	ND	ND	624/25ML
	3/29/2000	ND	ND				504.1
	3/29/2000			ND	0.8	ND	624/25ML
	6/29/2000	ND	ND				504.1
	6/29/2000			ND	1	ND	524.2
	10/5/2000	ND	ND				504.1
	10/5/2000			ND	1	ND	524.2
	12/13/2000	ND	ND				504.1
	12/13/2000			ND	1	ND	524.2
	4/24/2001	ND	ND				504.1
	4/24/2001			ND	1.6	ND	524.2
	6/12/2001	ND	ND				504.1
	6/12/2001			ND	ND	ND	524.2
	10/1/2001	ND	ND				504.1
	10/1/2001			ND	0.9	ND	524.2
	1/16/2002	ND	ND				504.1
	1/16/2002			ND	2	ND	524.2
	3/28/2002	ND	ND				504.1
	3/28/2002			ND	0.9	ND	524.2
	6/25/2002	ND	ND				504.1
	6/25/2002			ND	0.9	ND	524.2
	9/20/2002	ND	ND				504.1
	9/20/2002			ND	0.6	ND	524.2
	12/16/2002	ND	ND				504.1
	12/16/2002			ND	0.4 J	ND	524.2
	3/18/2003	ND	ND				504.1
	3/18/2003			ND	1		VOCS
	6/17/2003	ND	ND				504.1
	6/17/2003			ND	0.56		OLC03.2
	9/15/2003	ND	ND				504.1
	9/15/2003			ND	0.19 J	ND	OLC03.2
	12/11/2003	ND	ND				504.1
	12/11/2003			ND	ND	ND	OLC03.2
	3/4/2004	ND	ND				504.1
	3/4/2004			ND	0.57	ND	OLC03.2
	6/3/2004	ND	ND				504.1
	6/3/2004			ND	0.74	ND	OLC03.2
	10/5/2004	ND	ND				504.1
	10/5/2004			ND	0.12 J	ND	OLC03.2
	12/7/2004	ND	ND				504.1
	12/7/2004			ND	ND	ND	OLC03.2
	3/7/2005	ND	ND				504.1
	3/7/2005			ND	0.17 J	ND	OLC03.2
	6/2/2005	ND	ND				504.1
	6/2/2005			ND	ND	ND	OLC03.2
	9/19/2005	ND	ND				504.1
	9/19/2005			ND	ND	ND	OLC032
	12/8/2005	ND	ND				504.1
	12/8/2005			ND	0.27 J	ND	OLC032
	3/3/2006	ND	ND				504.1
	3/3/2006			ND	ND	ND	OLC032
	6/1/2006	ND	ND				504.1
	6/1/2006			ND	ND	ND	OLC032

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	10/9/2006	ND	ND				504.1
	10/9/2006			ND	ND	ND	TVOL
	12/27/2006	ND	ND				504.1
	12/27/2006			ND	ND	ND	TVOL
	3/6/2007	ND	ND				504.1
	3/6/2007			ND	ND	ND	TVOL
	6/4/2007	ND	ND				504.1
	6/4/2007			ND	ND	ND	TVOL
	10/12/2007	ND	ND				504.1
	10/12/2007			ND	ND	ND	TVOL
	12/14/2007	ND	ND				504.1
	12/14/2007			ND	ND	ND	TVOL
	3/20/2008	ND	ND	ND	ND	ND	TVOL
	6/4/2008	ND	ND				504.1
	6/4/2008			ND	ND	ND	TVOL
	10/3/2008	ND	ND				504.1
	10/3/2008			ND	ND	ND	TVOL
	12/15/2008	ND	ND				504.1
	12/15/2008					ND	524.2 SIM
	12/15/2008			ND	ND		TVOL
	3/4/2009	ND	ND				5041
	3/4/2009					ND	524.2 SIM
	3/4/2009			ND	ND		TVOL
	5/28/2009	ND	ND				5041
	5/28/2009					ND	5242SIM
	5/28/2009			ND	ND		TVOL
	9/28/2009	ND	ND			ND	5242SIM
	9/28/2009			ND	ND		TVOL
	12/14/2009	ND	ND			ND	5242SIM
	12/14/2009			ND	ND		TVOL
	3/25/2010	ND	ND			ND	5242SIM
	3/25/2010			ND	ND		TVOL
	6/23/2010	ND	ND			ND	5242SIM
	6/23/2010			ND	ND		TVOL
	10/12/2010	ND	ND			ND	5242SIM
	10/12/2010			ND	ND		TVOL
	12/10/2010	ND	ND			ND	5242SIM
	12/10/2010			ND	ND		TVOL
	3/18/2011	ND	ND			ND	5242SIM
	3/18/2011			ND	ND		TVOL
	6/30/2011	ND	ND			ND	5242SIM
	6/30/2011			ND R	ND R		TVOL
	09/29/2011	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	TVOL
	09/29/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/15/2011	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	TVOL
	12/15/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-13B	12/3/1998	ND	0.05				504.1
	12/3/1998			ND	ND	ND	624/25ML
	3/19/1999	ND	0.62				504.1
	3/19/1999			4	ND	ND	624/25ML
	6/22/1999	ND	0.15				504.1
	6/22/1999			2	ND	ND	624/25ML
	9/8/1999	ND	0.06 J				504.1
	9/8/1999			2	ND	ND	624/25ML
	12/14/1999	ND	ND				504.1
	12/14/1999			0.7 J	ND	ND	624/25ML
	3/23/2000	ND	ND				504.1
	3/23/2000			ND	ND	ND	624/25ML
	6/21/2000	ND	ND				504.1
	6/21/2000			ND	ND	ND	524.2
	9/26/2000	ND	ND				504.1
	9/26/2000			ND	ND	ND	524.2
	12/6/2000	ND	ND				504.1
	12/6/2000			ND	ND	ND	524.2
	4/16/2001	ND	ND				504.1

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	4/16/2001			ND	ND	ND	524.2
	6/6/2001	ND	ND				504.1
	6/6/2001			ND	ND	ND	524.2
	9/25/2001	ND	ND				504.1
	9/25/2001			ND	ND	ND	524.2
	1/8/2002	ND	ND				504.1
	1/8/2002			ND	ND	ND	524.2
	3/25/2002	ND	ND				504.1
	3/25/2002			ND	ND	ND	524.2
	9/13/2002	ND	ND				504.1
	9/13/2002			ND	ND	ND	524.2
	9/10/2003	ND	ND				504.1
	9/10/2003			ND	ND	ND	OLC03.2
	9/23/2004	ND	ND				504.1
	9/23/2004			ND	ND	ND	OLC03.2
	9/12/2005	ND	ND				504.1
	9/12/2005			ND	ND	ND	OLC032
	10/9/2006	ND	ND				504.1
	10/9/2006			ND	ND	ND	TVOL
	10/12/2007	ND	ND				504.1
	10/12/2007			ND	ND	ND	TVOL
	10/3/2008	ND	ND				504.1
	10/3/2008			ND	ND	ND	TVOL
	9/11/2009	ND	ND			ND	5242SIM
	9/11/2009			ND	ND		TVOL
	9/17/2010	ND	ND			ND	5242SIM
	9/17/2010			ND	ND		TVOL
	10/04/2011			< 0.5	< 0.5		TVOL
	10/04/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-14A	1/29/1998	0.04 J	0.27 J				504.1
	12/16/1999	ND	ND				504.1
	12/16/1999			ND	ND	ND	624/25ML
	1/18/2000	ND	ND	ND	ND	ND	624/25ML
	1/25/2000	ND	ND				504.1
	3/21/2000	ND	ND				504.1
	3/21/2000			ND	ND	ND	624/25ML
	6/23/2000	ND	ND				504.1
	6/23/2000			ND	ND	ND	524.2
	10/2/2000	ND	ND				504.1
	10/2/2000			ND	ND	ND	524.2
	12/7/2000	ND	ND				504.1
	12/7/2000			ND	ND	ND	524.2
	4/18/2001	ND	ND				504.1
	4/18/2001			ND	ND	ND	524.2
	6/7/2001	ND	ND				504.1
	6/7/2001			ND	ND	ND	524.2
	9/26/2001	ND	ND				504.1
	9/26/2001			ND	ND	ND	524.2
	1/10/2002	ND	ND				504.1
	1/10/2002			ND	ND	ND	524.2
	3/15/2002	ND	ND				504.1
	3/15/2002			ND	ND	ND	524.2
	9/12/2002	ND	ND				504.1
	9/12/2002			ND	ND	ND	524.2
	9/9/2003	ND	ND				504.1
	9/9/2003			ND	ND	ND	OLC03.2
	9/22/2004	ND	ND				504.1
	9/22/2004			ND	ND	ND	OLC03.2
	9/16/2005	ND	ND				504.1
	9/16/2005			ND	ND	ND	OLC032
	9/28/2006	ND	ND				504.1
	9/28/2006			ND	ND	ND	TVOL
	10/9/2007	ND	ND				504.1
	10/9/2007			ND	ND	ND	TVOL
	10/2/2008	ND	ND				504.1

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	10/2/2008			ND	ND	ND	TVOL
	9/21/2009	ND	ND			ND	5242SIM
	9/21/2009			ND	ND		TVOL
	9/29/2010	ND	ND			ND	5242SIM
	9/29/2010			ND	ND		TVOL
	10/03/2011			< 0.5	< 0.5		TVOL
	10/03/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-14B	12/17/1999	ND	ND				504.1
	12/17/1999			ND	ND	ND	624/25ML
	1/18/2000	ND	ND	ND	ND	ND	624/25ML
	1/25/2000	ND	ND				504.1
	3/21/2000	ND	ND				504.1
	3/21/2000			ND	ND	ND	624/25ML
	6/23/2000	ND	ND				504.1
	6/23/2000			ND	ND	ND	524.2
	10/2/2000	ND	ND				504.1
	10/2/2000			ND	ND	ND	524.2
	12/7/2000	ND	ND				504.1
	12/7/2000			ND	ND	ND	524.2
	4/18/2001	ND	ND				504.1
	4/18/2001			ND	ND	ND	524.2
	6/7/2001	ND	ND				504.1
	6/7/2001			ND	ND	ND	524.2
	9/26/2001	ND	ND				504.1
	9/26/2001			ND	ND	ND	524.2
	1/10/2002	ND	ND				504.1
	1/10/2002			ND	ND	ND	524.2
	3/15/2002	ND	ND				504.1
	3/15/2002			ND	ND	ND	524.2
	9/12/2002	ND	ND				504.1
	9/12/2002			ND	ND	ND	524.2
	9/9/2003	ND	ND				504.1
	9/9/2003			ND	ND	ND	OLC03.2
	9/22/2004	ND	ND				504.1
	9/22/2004			ND	ND	ND	OLC03.2
	9/16/2005	ND	ND				504.1
	9/16/2005			ND	ND	ND	OLC032
	9/28/2006	ND	ND				504.1
	9/28/2006			ND	ND	ND	TVOL
	10/9/2007	ND	ND				504.1
	10/9/2007			ND	ND	ND	TVOL
	10/2/2008	ND	ND				504.1
	10/2/2008			ND	ND	ND	TVOL
	9/21/2009	ND	ND			ND	5242SIM
	9/21/2009			ND	ND		TVOL
	9/29/2010	ND	ND			ND	5242SIM
	9/29/2010			ND	ND		TVOL
	10/03/2011			< 0.5	< 0.5		CVOL
	10/03/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-14C	8/18/1998	ND	ND				504.1
	12/20/1999	ND	ND				504.1
	12/20/1999			ND	ND	ND	624/25ML
	1/18/2000	ND	ND	ND	ND	ND	624/25ML
	1/25/2000	ND	ND				504.1
	3/21/2000	ND	ND				504.1
	3/21/2000			ND	ND	ND	624/25ML
	6/23/2000	ND	ND				504.1
	6/23/2000			ND	ND	ND	524.2
	10/2/2000	ND	ND				504.1
	10/2/2000			ND	ND	ND	524.2
	12/7/2000	ND	ND				504.1
	12/7/2000			ND	ND	ND	524.2
	4/18/2001	ND	ND				504.1
	4/18/2001			ND	ND	ND	524.2
	6/7/2001	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/7/2001			ND	ND	ND	524.2
	9/26/2001	ND	ND				504.1
	9/26/2001			ND	ND	ND	524.2
	1/10/2002	ND	ND				504.1
	1/10/2002			ND	ND	ND	524.2
	3/15/2002	ND	ND				504.1
	3/15/2002			ND	ND	ND	524.2
	6/21/2002	ND	ND				504.1
	6/21/2002			ND	ND	ND	524.2
	9/12/2002	ND	ND				504.1
	9/12/2002			ND	ND	ND	524.2
	12/10/2002	ND	ND				504.1
	12/10/2002			ND	ND	ND	524.2
	3/14/2003	ND	ND				504.1
	3/14/2003			0.3 J	ND		OLC03.2
	3/14/2003		ND				VOCS
	6/17/2003	ND	ND				504.1
	6/17/2003			0.18 J	ND		OLC03.2
	9/16/2003	ND	ND				504.1
	9/16/2003			ND	ND	ND	OLC03.2
	12/11/2003	ND	ND				504.1
	12/11/2003			0.8	ND	ND	OLC03.2
	3/11/2004	ND	0.056				504.1
	3/11/2004			5.3	ND	ND	OLC03.2
	6/10/2004	ND	ND				504.1
	6/10/2004			0.38 J	ND	ND	OLC03.2
	9/22/2004	ND	ND				504.1
	9/22/2004			4.6	ND	ND	OLC03.2
	12/7/2004	ND	ND				504.1
	12/7/2004			5.7	ND	ND	OLC03.2
	3/8/2005	ND	ND				504.1
	3/8/2005			6.6	ND	ND	OLC03.2
	6/7/2005	ND	ND				504.1
	6/7/2005			7.3	ND	ND	OLC03.2
	9/16/2005	ND	ND				504.1
	9/16/2005			ND	ND	ND	OLC032
	12/5/2005	ND	ND				504.1
	12/5/2005			5.7	ND	ND	OLC032
	3/1/2006	ND	ND				504.1
	3/1/2006			5.3	ND	ND	OLC032
	6/6/2006	ND	ND				504.1
	6/6/2006			5.9	ND	ND	OLC032
	9/28/2006	ND	ND				504.1
	9/28/2006			3.4	ND	ND	TVOL
	12/26/2006	ND	ND				504.1
	12/26/2006			2.6	ND	ND	TVOL
	3/6/2007	ND	ND				504.1
	3/6/2007			3.4 J	ND	ND	TVOL
	6/4/2007	ND	ND				504.1
	6/4/2007			0.34 J	ND	ND	TVOL
	10/9/2007	ND	ND				504.1
	10/9/2007			2.6	ND	ND	TVOL
	12/11/2007	ND	ND				504.1
	12/11/2007			5.2	ND	ND	TVOL
	3/20/2008	ND	ND				504.1
	3/20/2008			ND	ND	ND	TVOL
	5/28/2008	ND	ND				504.1
	5/28/2008			ND	ND	ND	TVOL
	10/2/2008	ND	ND				504.1
	10/2/2008			ND	ND	ND	TVOL
	12/16/2008	ND	ND				504.1
	12/16/2008			1.8	ND	ND	TVOL
	3/9/2009	ND	ND				5041
	3/9/2009					0.023	524.2 SIM
	3/9/2009			3.5	ND		TVOL

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/1/2009	ND	ND				5041
	6/1/2009					0.0027 J	5242SIM
	6/1/2009			ND	ND		TVOL
	9/21/2009	ND	ND			0.0033 J	5242SIM
	9/21/2009			0.21 J	ND		TVOL
	12/7/2009	ND	0.0031 J			0.01	5242SIM
	12/7/2009			0.72	ND		TVOL
	3/25/2010	ND	0.0035 J			0.015	5242SIM
	3/25/2010			ND	ND		TVOL
	6/17/2010	ND	ND			0.0031 J	5242SIM
	6/17/2010			ND	ND		TVOL
	9/29/2010	ND	ND			ND	5242SIM
	9/29/2010			ND	ND		TVOL
	12/2/2010	ND	0.0029 J			0.012	5242SIM
	12/2/2010			1.4	ND		TVOL
	3/10/2011	ND	0.0028 J			0.013	5242SIM
	3/10/2011			2.1	ND		TVOL
	6/27/2011	ND	ND			0.0049 J	5242SIM
	6/27/2011			ND	ND		TVOL
	10/03/2011			< 0.5	< 0.5		TVOL
	10/03/2011	< 0.01	< 0.005			0.0028 J	E524.2S
	12/14/2011			< 0.5	< 0.5		TVOL
	12/14/2011	< 0.01	< 0.005			0.0047 J	E524.2S
OW-15A	12/7/1999	ND	ND				504.1
	12/7/1999			ND	ND	ND	624/25ML
	1/19/2000	ND	ND				504.1
	1/19/2000			ND	ND	ND	624/25ML
	3/21/2000	ND	ND				504.1
	3/21/2000			ND	ND	ND	624/25ML
	6/22/2000	ND	ND				504.1
	6/22/2000			ND	ND	ND	524.2
	9/29/2000	ND	ND				504.1
	9/29/2000			ND	ND	ND	524.2
	12/7/2000	ND	ND				504.1
	12/7/2000			ND	ND	ND	524.2
	4/17/2001	ND	ND				504.1
	4/17/2001			ND	ND	ND	524.2
	6/6/2001	ND	ND				504.1
	6/6/2001			ND	ND	ND	524.2
	9/25/2001	ND	ND				504.1
	9/25/2001			ND	ND	ND	524.2
	1/9/2002	ND	ND				504.1
	1/9/2002			ND	ND	ND	524.2
	3/20/2002	ND	ND				504.1
	3/20/2002			ND	ND	ND	524.2
	9/13/2002	ND	ND				504.1
	9/13/2002			ND	ND	ND	524.2
	9/10/2003	ND	ND				504.1
	9/10/2003			ND	ND	ND	OLC03.2
	9/21/2004	ND	ND				504.1
	9/21/2004			ND	ND	ND	OLC03.2
	9/9/2005	ND	ND				504.1
	9/9/2005			ND	ND	ND	OLC032
	9/28/2006	ND	ND				504.1
	9/28/2006			ND	ND	ND	TVOL
	10/8/2007	ND	ND				504.1
	10/8/2007			ND	ND	ND	TVOL
	9/23/2008	ND	ND				504.1
	9/23/2008			ND	ND	ND	TVOL
	9/10/2009	ND	ND			ND	5242SIM
	9/10/2009			ND	ND		TVOL
	9/15/2010	ND	ND			ND	5242SIM
	9/15/2010			ND	ND		TVOL
	09/12/2011			< 0.5	< 0.5		TVOL
	09/12/2011	< 0.01	< 0.005			< 0.005	E524.2S

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
OW-15B	12/21/1999	ND	ND				504.1
	12/21/1999			ND	ND	ND	624/25ML
	1/19/2000	ND	ND				504.1
	1/19/2000			ND	ND	ND	624/25ML
	3/21/2000	ND	ND				504.1
	3/21/2000			ND	ND	ND	624/25ML
	6/22/2000	ND	ND				504.1
	6/22/2000			ND	ND	ND	524.2
	9/29/2000	ND	ND				504.1
	9/29/2000			ND	ND	ND	524.2
	12/7/2000	ND	ND				504.1
	12/7/2000			ND	ND	ND	524.2
	4/17/2001	ND	ND				504.1
	4/17/2001			ND	ND	ND	524.2
	6/6/2001	ND	ND				504.1
	6/6/2001			ND	ND	ND	524.2
	9/26/2001	ND	ND				504.1
	9/26/2001			ND	ND	ND	524.2
	1/10/2002	ND	ND				504.1
	1/10/2002			ND	ND	ND	524.2
	3/20/2002	ND	ND				504.1
	3/20/2002			ND	ND	ND	524.2
	9/16/2002	ND	ND				504.1
	9/16/2002			ND	ND	ND	524.2
	9/9/2003	ND	ND				504.1
	9/9/2003			ND	ND	ND	OLC03.2
	9/20/2004	ND	ND				504.1
	9/20/2004			ND	ND	ND	OLC03.2
	9/9/2005	ND	ND				504.1
	9/9/2005			ND	ND	ND	OLC032
	9/28/2006	ND	ND				504.1
	9/28/2006			ND	ND	ND	TVOL
	10/8/2007	ND	ND				504.1
	10/8/2007			ND	ND	ND	TVOL
	9/30/2008	ND	ND				504.1
	9/30/2008			ND	ND	ND	TVOL
	9/10/2009	ND	ND			ND	5242SIM
	9/10/2009			ND	ND		TVOL
	9/15/2010	ND	ND			ND	5242SIM
	9/15/2010			ND	ND		TVOL
	09/12/2011	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	TVOL
	09/12/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-15C	12/10/1999	ND	ND				504.1
	12/10/1999			ND	ND	ND	624/25ML
	1/19/2000	ND	ND				504.1
	1/19/2000			ND	ND	ND	624/25ML
	3/21/2000	ND	ND				504.1
	3/21/2000			ND	ND	ND	624/25ML
	6/22/2000	ND	ND				504.1
	6/22/2000			ND	ND	ND	524.2
	9/29/2000	ND	ND				504.1
	9/29/2000			ND	ND	ND	524.2
	12/7/2000	ND	ND				504.1
	12/7/2000			ND	ND	ND	524.2
	4/17/2001	ND	ND				504.1
	4/17/2001			ND	ND	ND	524.2
	6/6/2001	ND	ND				504.1
	6/6/2001			ND	ND	ND	524.2
	9/26/2001	ND	ND				504.1
	9/26/2001			ND	ND	ND	524.2
	1/10/2002	ND	ND				504.1
	1/10/2002			ND	ND	ND	524.2
	3/20/2002	ND	ND				504.1
	3/20/2002			ND	ND	ND	524.2
	9/13/2002	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	9/13/2002			ND	ND	ND	524.2
	9/10/2003	ND	ND				504.1
	9/10/2003			ND	ND	ND	OLC03.2
	9/20/2004	ND	ND				504.1
	9/20/2004			ND	ND	ND	OLC03.2
	9/9/2005	ND	ND				504.1
	9/9/2005			ND	ND	ND	OLC032
	9/28/2006	ND	ND				504.1
	9/28/2006			ND	ND	ND	TVOL
	10/8/2007	ND	ND				504.1
	10/8/2007			ND	ND	ND	TVOL
	9/30/2008	ND	ND				504.1
	9/30/2008			ND	ND	ND	TVOL
	9/10/2009	ND	ND			ND	5242SIM
	9/10/2009			ND	ND		TVOL
	9/15/2010	ND	ND			ND	5242SIM
	9/15/2010			ND	ND		TVOL
	09/12/2011			< 0.5	< 0.5		TVOL
	09/12/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-15D	1/10/2002	ND	ND				504.1
	1/10/2002			ND	ND	ND	524.2
	3/20/2002	ND	ND				504.1
	3/20/2002			ND	ND	ND	524.2
	6/20/2002	ND	ND				504.1
	6/20/2002			ND	ND	ND	524.2
	9/16/2002	ND	ND				504.1
	9/16/2002			ND	ND	ND	524.2
	12/12/2002	ND	ND				504.1
	12/12/2002			ND	ND	ND	524.2
	3/14/2003	ND	ND				504.1
	3/14/2003			ND	ND		OLC03.2
	3/14/2003		ND				VOCS
	6/10/2003	ND	ND				504.1
	6/10/2003			ND	ND		OLC03.2
	9/10/2003	ND	ND				504.1
	9/10/2003			ND	ND	ND	OLC03.2
	12/9/2003	ND	ND				504.1
	12/9/2003			ND	ND	ND	OLC03.2
	3/3/2004	ND	ND				504.1
	3/3/2004			ND	ND	ND	OLC03.2
	6/3/2004	ND	ND				504.1
	6/3/2004			ND	ND	ND	OLC03.2
	9/20/2004	ND	ND				504.1
	9/20/2004			ND	ND	ND	OLC03.2
	12/3/2004	ND	ND				504.1
	12/3/2004			ND	ND	ND	OLC03.2
	3/7/2005	ND	ND				504.1
	3/7/2005			ND	ND	ND	OLC03.2
	6/7/2005	ND	ND				504.1
	6/7/2005			ND	ND	ND	OLC03.2
	9/9/2005	ND	ND				504.1
	9/9/2005			ND	ND	ND	OLC032
	12/5/2005	ND	ND				504.1
	12/5/2005			ND	ND	ND	OLC032
	2/28/2006	ND	ND				504.1
	2/28/2006			ND	ND	ND	OLC032
	6/6/2006	ND	ND				504.1
	6/6/2006			ND	ND	ND	OLC032
	9/28/2006	ND	ND				504.1
	9/28/2006			ND	ND	ND	TVOL
	12/26/2006	ND	ND				504.1
	12/26/2006			ND	ND	ND	TVOL
	3/1/2007	ND	ND				504.1
	3/1/2007			ND	ND	ND	TVOL
	6/1/2007	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/1/2007			ND	ND	ND	TVOL
	10/8/2007	ND	ND				504.1
	10/8/2007			ND	ND	ND	TVOL
	12/11/2007	ND	ND				504.1
	12/11/2007			ND	ND	ND	TVOL
	3/27/2008	ND	ND				504.1
	3/27/2008			ND	ND	ND	TVOL
	5/30/2008	ND	ND				504.1
	5/30/2008			ND	ND	ND	TVOL
	9/30/2008	ND	ND				504.1
	9/30/2008			ND	ND	ND	TVOL
	12/15/2008	ND	ND				504.1
	12/15/2008			ND	ND	ND	TVOL
	3/10/2009	ND	ND				5041
	3/10/2009					ND	524.2 SIM
	3/10/2009			ND	ND		TVOL
	6/1/2009	ND	ND				5041
	6/1/2009					ND	5242SIM
	6/1/2009			ND	ND		TVOL
	9/10/2009	ND	ND			ND	5242SIM
	9/10/2009			ND	ND		TVOL
	12/10/2009	ND	ND			ND	5242SIM
	12/10/2009			ND	ND		TVOL
	3/12/2010	ND	ND			ND	5242SIM
	3/12/2010			ND	ND		TVOL
	6/17/2010	ND	ND			ND	5242SIM
	6/17/2010			ND	ND		TVOL
	9/15/2010	ND	ND			ND	5242SIM
	9/15/2010			ND	ND		TVOL
	12/10/2010	ND	ND			ND	5242SIM
	12/10/2010			ND	ND		TVOL
	3/14/2011	ND	ND			ND	5242SIM
	3/14/2011			ND	ND		TVOL
	6/27/2011	ND	ND			ND	5242SIM
	6/27/2011			ND	ND		TVOL
	09/12/2011			< 0.5	< 0.5		TVOL
	09/12/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/12/2011			< 0.5	< 0.5		TVOL
	12/12/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-16A	12/17/1999	ND	ND				504.1
	12/17/1999			ND	ND	ND	624/25ML
	1/18/2000	ND	ND	ND	ND	ND	624/25ML
	1/25/2000	ND	ND				504.1
	3/21/2000	ND	ND				504.1
	3/21/2000			ND	ND	ND	624/25ML
	6/21/2000	ND	ND				504.1
	6/21/2000			ND	ND	ND	524.2
	9/28/2000	ND	ND				504.1
	9/28/2000			ND	ND	ND	524.2
	12/6/2000	ND	ND				504.1
	12/6/2000			ND	ND	ND	524.2
	4/17/2001	ND	ND				504.1
	4/17/2001			ND	ND	ND	524.2
	6/6/2001	ND	ND				504.1
	6/6/2001			ND	ND	ND	524.2
	9/25/2001	ND	ND				504.1
	9/25/2001			ND	ND	ND	524.2
	1/9/2002	ND	ND				504.1
	1/9/2002			ND	ND	ND	524.2
	3/14/2002	ND	ND				504.1
	3/14/2002			ND	ND	ND	524.2
	9/11/2002	ND	ND				504.1
	9/11/2002			ND	ND	ND	524.2
	9/11/2003	ND	ND				504.1
	9/11/2003			ND	ND	ND	OLC03.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	9/21/2004	ND	ND				504.1
	9/21/2004			ND	ND	ND	OLC03.2
	9/15/2005	ND	ND				504.1
	9/15/2005			ND	ND	ND	OLC032
	9/26/2006	ND	ND				504.1
	9/26/2006			ND	ND	ND	TVOL
	10/8/2007	ND	ND				504.1
	10/8/2007			ND	ND	ND	TVOL
	9/30/2008	ND	ND				504.1
	9/30/2008			ND	ND	ND	TVOL
	9/10/2009	ND	ND			ND	5242SIM
	9/10/2009			ND	ND		TVOL
	9/14/2010	ND	ND			ND	5242SIM
	9/14/2010			ND	ND		TVOL
	09/21/2011	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	TVOL
	09/21/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-16B	12/21/1999	ND	ND				504.1
	12/21/1999			ND	ND	ND	624/25ML
	1/18/2000	ND	ND	ND	ND	ND	624/25ML
	1/25/2000	ND	ND				504.1
	3/21/2000	ND	ND				504.1
	3/21/2000			ND	ND	ND	624/25ML
	6/21/2000	ND	ND				504.1
	6/21/2000			ND	ND	ND	524.2
	9/28/2000	ND	ND				504.1
	9/28/2000			ND	ND	ND	524.2
	12/6/2000	ND	ND				504.1
	12/6/2000			ND	ND	ND	524.2
	4/17/2001	ND	ND				504.1
	4/17/2001			ND	ND	ND	524.2
	6/6/2001	ND	ND				504.1
	6/6/2001			ND	ND	ND	524.2
	9/25/2001	ND	ND				504.1
	9/25/2001			ND	ND	ND	524.2
	1/9/2002	ND	ND				504.1
	1/9/2002			ND	ND	ND	524.2
	3/14/2002	ND	ND				504.1
	3/14/2002			ND	ND	ND	524.2
	9/11/2002	ND	ND				504.1
	9/11/2002			ND	ND	ND	524.2
	9/11/2003	ND	ND				504.1
	9/11/2003			ND	ND	ND	OLC03.2
	9/21/2004	ND	ND				504.1
	9/21/2004			ND	ND	ND	OLC03.2
	9/15/2005	ND	ND				504.1
	9/15/2005			ND	ND	ND	OLC032
	9/26/2006	ND	ND				504.1
	9/26/2006			ND	ND	ND	TVOL
	10/8/2007	ND	ND				504.1
	10/8/2007			ND	ND	ND	TVOL
	9/30/2008	ND	ND				504.1
	9/30/2008			ND	ND	ND	TVOL
	9/3/2009	ND	ND			ND	5242SIM
	9/3/2009			ND	ND		TVOL
	9/14/2010	ND	ND			ND	5242SIM
	9/14/2010			ND	ND		TVOL
	09/21/2011			< 0.5	< 0.5		TVOL
	09/21/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-16C	12/18/1999	ND	ND				504.1
	12/18/1999			ND	ND	ND	624/25ML
	1/18/2000	ND	ND	ND	ND	ND	624/25ML
	1/25/2000	ND	ND				504.1
	3/21/2000	ND	ND				504.1
	3/21/2000			ND	ND	ND	624/25ML
	6/21/2000	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/21/2000			ND	ND	ND	524.2
	9/28/2000	ND	ND				504.1
	9/28/2000			ND	ND	ND	524.2
	12/6/2000	ND	ND				504.1
	12/6/2000			ND	ND	ND	524.2
	4/17/2001	ND	ND				504.1
	4/17/2001			ND	ND	ND	524.2
	6/6/2001	ND	ND				504.1
	6/6/2001			ND	ND	ND	524.2
	9/25/2001	ND	ND				504.1
	9/25/2001			ND	ND	ND	524.2
	1/9/2002	ND	ND				504.1
	1/9/2002			ND	ND	ND	524.2
	3/14/2002	ND	ND				504.1
	3/14/2002			ND	ND	ND	524.2
	9/11/2002	ND	ND				504.1
	9/11/2002			ND	ND	ND	524.2
	9/11/2003	ND	ND				504.1
	9/11/2003	ND	0.5			ND	OLC03.2
	9/21/2004	ND	ND				504.1
	9/21/2004			ND	ND	ND	OLC03.2
	9/15/2005	ND	ND				504.1
	9/15/2005			ND	ND	ND	OLC032
	9/26/2006	ND	ND				504.1
	9/26/2006			ND	ND	ND	TVOL
	10/8/2007	ND	ND				504.1
	10/8/2007			ND	ND	ND	TVOL
	9/30/2008	ND	ND				504.1
	9/30/2008			ND	ND	ND	TVOL
	9/10/2009	ND	ND			ND	5242SIM
	9/10/2009			ND	ND		TVOL
	9/14/2010	ND	ND			ND	5242SIM
	9/14/2010			ND	ND		TVOL
	09/21/2011	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	TVOL
	09/21/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-17A	12/13/1999	ND	ND				504.1
	12/13/1999			ND	ND	ND	624/25ML
	1/19/2000	ND	ND				504.1
	1/19/2000			ND	ND	ND	624/25ML
	3/22/2000	ND	ND				504.1
	3/22/2000			ND	ND	ND	624/25ML
	6/21/2000	ND	ND	ND	ND	ND	524.2
	9/28/2000	ND	ND				504.1
	9/28/2000			ND	ND	ND	524.2
	12/6/2000	ND	ND				504.1
	12/6/2000			ND	ND	ND	524.2
	4/17/2001	ND	ND				504.1
	4/17/2001			ND	ND	ND	524.2
	6/6/2001	ND	ND				504.1
	6/6/2001			ND	ND	ND	524.2
	9/25/2001	ND	ND				504.1
	9/25/2001			ND	ND	ND	524.2
	1/9/2002	ND	ND				504.1
	1/9/2002			ND	ND	ND	524.2
	3/19/2002	ND	ND				504.1
	3/19/2002			ND	ND	ND	524.2
OW-17B	12/13/1999	ND	ND				504.1
	12/13/1999			ND	ND	ND	624/25ML
	1/19/2000	ND	ND				504.1
	1/19/2000			ND	ND	ND	624/25ML
	3/22/2000	ND	ND				504.1
	3/22/2000			ND	ND	ND	624/25ML
	6/21/2000	ND	ND				504.1
	6/21/2000			ND	ND	ND	524.2
	9/28/2000	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	9/28/2000			ND	ND	ND	524.2
	12/6/2000	ND	ND				504.1
	12/6/2000			ND	ND	ND	524.2
	4/17/2001	ND	ND				504.1
	4/17/2001			ND	ND	ND	524.2
	6/6/2001	ND	ND				504.1
	6/6/2001			ND	ND	ND	524.2
	9/25/2001	ND	ND				504.1
	9/25/2001			ND	ND	ND	524.2
	1/9/2002	ND	ND				504.1
	1/9/2002			ND	ND	ND	524.2
	3/19/2002	ND	ND				504.1
	3/19/2002			ND	ND	ND	524.2
OW-17C	12/15/1999	ND	ND				504.1
	12/15/1999			ND	ND	ND	624/25ML
	1/19/2000	ND	ND				504.1
	1/19/2000			ND	ND	ND	624/25ML
	3/22/2000	ND	ND				504.1
	3/22/2000			ND	ND	ND	624/25ML
	6/21/2000	ND	ND				504.1
	6/21/2000			ND	ND	ND	524.2
	9/28/2000	ND	ND				504.1
	9/28/2000			ND	ND	ND	524.2
	12/6/2000	ND	ND				504.1
	12/6/2000			ND	ND	ND	524.2
	4/17/2001	ND	ND				504.1
	4/17/2001			ND	ND	ND	524.2
	6/6/2001	ND	ND				504.1
	6/6/2001			ND	ND	ND	524.2
	9/25/2001	ND	ND				504.1
	9/25/2001			ND	ND	ND	524.2
	1/9/2002	ND	ND				504.1
	1/9/2002			ND	ND	ND	524.2
	3/19/2002	ND	ND				504.1
	3/19/2002			ND	ND	ND	524.2
OW-18A	12/3/1999	ND	ND				504.1
	12/3/1999			ND	ND	ND	624/25ML
	1/20/2000	ND	ND				504.1
	1/20/2000			ND	ND	ND	624/25ML
	3/22/2000	ND	ND				504.1
	3/22/2000			ND	ND	ND	624/25ML
	6/20/2000	ND	ND				504.1
	6/20/2000			ND	ND	ND	524.2
	9/25/2000	ND	ND				504.1
	9/25/2000			ND	ND	ND	524.2
	12/5/2000	ND	ND				504.1
	12/5/2000			ND	ND	ND	524.2
	4/16/2001	ND	ND				504.1
	4/16/2001			ND	ND	ND	524.2
	6/5/2001	ND	ND				504.1
	6/5/2001			ND	ND	ND	524.2
	9/24/2001	ND	ND				504.1
	9/24/2001			ND	ND	ND	524.2
	1/8/2002	ND	ND				504.1
	1/8/2002			ND	ND	ND	524.2
	3/14/2002	ND	ND				504.1
	3/14/2002			ND	ND	ND	524.2
	3/20/2009	ND	ND				5041
	3/20/2009					ND	524.2 SIM
	3/20/2009			ND	ND		TVOL
OW-18AR	6/8/2009	ND	ND				5041
	6/8/2009					ND	5242SIM
	6/8/2009			ND	ND		TVOL
	9/28/2009	ND	ND			ND	5242SIM
	9/28/2009			ND	ND		TVOL

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/11/2009	ND	ND			ND	5242SIM
	12/11/2009			ND	ND		TVOL
	3/16/2010	ND	ND			ND	5242SIM
	3/16/2010	ND	ND	ND	ND		TVOL
	6/22/2010	ND	ND			ND	5242SIM
	6/22/2010			ND	ND		TVOL
	9/28/2010	ND	ND			ND	5242SIM
	9/28/2010			ND	ND		TVOL
	12/14/2010	ND	ND			ND	5242SIM
	12/14/2010			ND	ND		TVOL
	3/7/2011	ND	ND			ND	5242SIM
	3/7/2011			ND	ND		TVOL
	6/29/2011	ND	ND			ND	5242SIM
	6/29/2011			ND R	ND R		TVOL
	09/20/2011			< 0.5	< 0.5		TVOL
	09/20/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/05/2011			< 0.5	< 0.5		TVOL
	12/05/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-18B	12/2/1999	ND	ND				504.1
	12/2/1999			ND	ND	ND	624/25ML
	1/20/2000	ND	ND				504.1
	1/20/2000			ND	ND	ND	624/25ML
	3/22/2000	ND	ND				504.1
	3/22/2000			ND	ND	ND	624/25ML
	6/20/2000	ND	ND				504.1
	6/20/2000			ND	ND	ND	524.2
	9/25/2000	ND	ND				504.1
	9/25/2000			ND	ND	ND	524.2
	12/5/2000	ND	ND				504.1
	12/5/2000			ND	ND	ND	524.2
	4/16/2001	ND	ND				504.1
	4/16/2001			ND	ND	ND	524.2
	6/5/2001	ND	ND				504.1
	6/5/2001			ND	ND	ND	524.2
	9/24/2001	ND	ND				504.1
	9/24/2001			ND	ND	ND	524.2
	1/8/2002	ND	ND				504.1
	1/8/2002			ND	ND	ND	524.2
	3/14/2002	ND	ND				504.1
	3/14/2002			ND	ND	ND	524.2
	3/20/2009	ND	ND				5041
	3/20/2009					ND	524.2 SIM
	3/20/2009			ND	ND		TVOL
OW-18BR	6/8/2009	ND	ND				5041
	6/8/2009					ND	5242SIM
	6/8/2009			ND	ND		TVOL
	9/28/2009	ND	ND			ND	5242SIM
	9/28/2009			ND	ND		TVOL
	12/11/2009	ND	ND			ND	5242SIM
	12/11/2009			ND	ND		TVOL
	3/16/2010	ND	ND			ND	5242SIM
	3/16/2010		ND	ND	ND		TVOL
	6/22/2010	ND	ND			ND	5242SIM
	6/22/2010			ND	ND		TVOL
	9/28/2010	ND	ND			ND	5242SIM
	9/28/2010			ND	ND		TVOL
	12/14/2010	ND	ND			ND	5242SIM
	12/14/2010			ND	ND		TVOL
	3/7/2011	ND	ND			ND	5242SIM
	3/7/2011			ND	ND		TVOL
	6/29/2011	ND	ND			ND	5242SIM
	6/29/2011			ND R	ND R		TVOL
	09/20/2011			< 0.5	< 0.5		TVOL
	09/20/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/05/2011			< 0.5	< 0.5		TVOL

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/05/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-18C	11/30/1999	ND	ND				504.1
	11/30/1999			ND	ND	ND	624/25ML
	1/20/2000	ND	ND				504.1
	1/20/2000			ND	ND	ND	624/25ML
	3/22/2000	ND	ND				504.1
	3/22/2000			ND	ND	ND	624/25ML
	6/20/2000	ND	ND				504.1
	6/20/2000			ND	ND	ND	524.2
	9/25/2000	ND	ND				504.1
	9/25/2000			ND	ND	ND	524.2
	12/5/2000	ND	ND				504.1
	12/5/2000			ND	ND	ND	524.2
	4/16/2001	ND	ND				504.1
	4/16/2001			ND	ND	ND	524.2
	6/5/2001	ND	ND				504.1
	6/5/2001			ND	ND	ND	524.2
	9/24/2001	ND	ND				504.1
	9/24/2001			ND	ND	ND	524.2
	1/8/2002	ND	ND				504.1
	1/8/2002			ND	ND	ND	524.2
	3/14/2002	ND	ND				504.1
	3/14/2002			ND	ND	ND	524.2
	3/20/2009	ND	ND				5041
	3/20/2009					ND	524.2 SIM
	3/20/2009			ND	ND		TVOL
OW-18CR	6/8/2009	ND	ND				5041
	6/8/2009					ND	5242SIM
	6/8/2009			ND	ND		TVOL
	9/28/2009	ND	ND			ND	5242SIM
	9/28/2009			ND	ND		TVOL
	12/11/2009	ND	ND			ND	5242SIM
	12/11/2009			ND	ND		TVOL
	3/16/2010	ND	ND			ND	5242SIM
	3/16/2010		ND	ND	ND		TVOL
	6/22/2010	ND	ND			ND	5242SIM
	6/22/2010			ND	ND		TVOL
	9/28/2010	ND	ND			ND	5242SIM
	9/28/2010			ND	ND		TVOL
	12/14/2010	ND	ND			ND	5242SIM
	12/14/2010			ND	ND		TVOL
	3/7/2011	ND	ND			ND	5242SIM
	3/7/2011			ND	ND		TVOL
	6/29/2011	ND	ND			ND	5242SIM
	6/29/2011			ND R	ND R		TVOL
	09/20/2011			< 0.5	< 0.5		TVOL
	09/20/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/05/2011			< 0.5	< 0.5		TVOL
	12/05/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-19C	1/23/2002	ND	ND				504.1
	1/23/2002			ND	ND	ND	524.2
	3/26/2002	ND	ND				504.1
	3/26/2002			ND	ND	ND	524.2
	6/21/2002	ND	ND				504.1
	6/21/2002			ND	ND	ND	524.2
	9/16/2002	ND	ND				504.1
	9/16/2002			ND	ND	ND	524.2
	12/12/2002	ND	ND				504.1
	12/12/2002			ND	ND	ND	524.2
	3/10/2003	ND	ND				504.1
	3/18/2003	ND	ND	ND	ND		VOCS
	6/6/2003	ND	ND				504.1
	6/6/2003			ND	ND		OLC03.2
	9/11/2003	ND	ND				504.1
	9/11/2003			ND	ND	ND	OLC03.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/9/2003	ND	ND				504.1
	12/9/2003			ND	ND	ND	OLC03.2
	3/3/2004	ND	ND				504.1
	3/3/2004			ND	ND	ND	OLC03.2
	6/3/2004	ND	ND				504.1
	6/3/2004			ND	ND	ND	OLC03.2
	9/22/2004	ND	ND				504.1
	9/22/2004			ND	ND	ND	OLC03.2
	12/7/2004	ND	ND				504.1
	12/7/2004			ND	ND	ND	OLC03.2
	3/8/2005	ND	ND				504.1
	3/8/2005			ND	ND	ND	OLC03.2
	6/10/2005	ND	ND				504.1
	6/10/2005	ND	ND	ND	ND	ND	OLC03.2
	9/9/2005	ND	ND				504.1
	9/9/2005			ND	ND	ND	OLC032
	12/5/2005	ND	ND				504.1
	12/5/2005			ND	ND	ND	OLC032
	2/28/2006	ND	ND				504.1
	2/28/2006			ND	ND	ND	OLC032
	6/1/2006	ND	ND				504.1
	6/1/2006			ND	ND	ND	OLC032
	9/26/2006	ND	ND				504.1
	9/26/2006			ND	ND	ND	TVOL
	12/26/2006	ND	ND				504.1
	12/26/2006			ND	ND	ND	TVOL
	2/28/2007	ND	ND				504.1
	2/28/2007			ND	ND	ND	TVOL
	6/1/2007	ND	ND				504.1
	6/1/2007			ND	ND	ND	TVOL
	10/8/2007	ND	ND				504.1
	10/8/2007			ND	ND	ND	TVOL
	12/11/2007	ND	ND				504.1
	12/11/2007			ND	ND	ND	TVOL
	3/21/2008	ND	ND				504.1
	3/21/2008			ND	ND	ND	TVOL
	6/2/2008	ND	ND				504.1
	6/2/2008			ND	ND	ND	TVOL
	10/2/2008	ND	ND				504.1
	10/2/2008			ND	ND	ND	TVOL
	12/18/2008	ND	ND				504.1
	12/18/2008			ND	ND	ND	TVOL
	3/10/2009	ND	ND				5041
	3/10/2009					ND	524.2 SIM
	3/10/2009			ND	ND		TVOL
	5/28/2009	ND	ND				5041
	5/28/2009					ND	5242SIM
	5/28/2009			ND	ND		TVOL
	9/21/2009	ND	ND			ND	5242SIM
	9/21/2009			ND	ND		TVOL
	12/10/2009	ND	ND			ND	5242SIM
	12/10/2009			ND	ND		TVOL
	3/12/2010	ND	ND			ND	5242SIM
	3/12/2010			ND	ND		TVOL
	6/17/2010	ND	ND			ND	5242SIM
	6/17/2010			ND	ND		TVOL
	9/15/2010	ND	ND			ND	5242SIM
	9/15/2010			ND	ND		TVOL
	12/10/2010	ND	ND			ND	5242SIM
	12/10/2010			ND	ND		TVOL
	3/16/2011	ND	ND			ND	5242SIM
	3/16/2011			ND	ND		TVOL
	7/11/2011	ND	ND			ND	5242SIM
	7/11/2011			ND	ND		TVOL
	09/12/2011			< 0.5	< 0.5		TVOL

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	09/12/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/12/2011			< 0.5	< 0.5		TVOL
	12/12/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-19D	1/23/2002	ND	ND				504.1
	1/23/2002			ND	ND	ND	524.2
	3/26/2002	ND	ND				504.1
	3/26/2002			ND	ND	ND	524.2
	6/21/2002	ND	ND				504.1
	6/21/2002			ND	ND	ND	524.2
	9/16/2002	ND	ND				504.1
	9/16/2002			ND	ND	ND	524.2
	12/12/2002	ND	ND				504.1
	12/12/2002			ND	ND	ND	524.2
	3/18/2003	ND	ND				504.1
	3/18/2003			ND	ND		VOCS
	6/6/2003	ND	ND				504.1
	6/6/2003			ND	ND		OLC03.2
	9/11/2003	ND	ND				504.1
	9/11/2003			ND	ND	ND	OLC03.2
	12/9/2003	ND	ND				504.1
	12/9/2003			ND	ND	ND	OLC03.2
	3/3/2004	ND	ND				504.1
	3/3/2004			ND	ND	ND	OLC03.2
	6/3/2004	ND	ND				504.1
	6/3/2004			ND	ND	ND	OLC03.2
	9/22/2004	ND	ND				504.1
	9/22/2004			ND	ND	ND	OLC03.2
	12/7/2004	ND	ND				504.1
	12/7/2004			ND	ND	ND	OLC03.2
	3/8/2005	ND	ND				504.1
	3/8/2005			ND	ND	ND	OLC03.2
	6/10/2005	ND	ND				504.1
	6/10/2005			ND	ND	ND	OLC03.2
	9/9/2005	ND	ND				504.1
	9/9/2005			ND	ND	ND	OLC032
	12/5/2005	ND	ND				504.1
	12/5/2005			ND	ND	ND	OLC032
	2/28/2006	ND	ND				504.1
	2/28/2006			ND	ND	ND	OLC032
	6/1/2006	ND	ND				504.1
	6/1/2006			ND	ND	ND	OLC032
	9/26/2006	ND	ND				504.1
	9/26/2006			ND	ND	ND	TVOL
	12/26/2006	ND	ND				504.1
	12/26/2006			ND	ND	ND	TVOL
	2/28/2007	ND	ND				504.1
	2/28/2007			ND	ND	ND	TVOL
	6/4/2007	ND	ND				504.1
	6/4/2007			ND	ND	ND	TVOL
	10/8/2007	ND	ND				504.1
	10/8/2007			ND	ND	ND	TVOL
	12/11/2007	ND	ND				504.1
	12/11/2007			ND	ND	ND	TVOL
	3/21/2008	ND	ND				504.1
	3/21/2008			ND	ND	ND	TVOL
	6/2/2008	ND	ND				504.1
	6/2/2008			ND	ND	ND	TVOL
	10/2/2008	ND	ND				504.1
	10/2/2008			ND	ND	ND	TVOL
	12/18/2008	ND	ND				504.1
	12/18/2008			ND	ND	ND	TVOL
	3/10/2009	ND	ND				5041
	3/10/2009					ND	524.2 SIM
	3/10/2009			ND	ND		TVOL
	5/28/2009	ND	ND				5041

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	5/28/2009					ND	5242SIM
	5/28/2009			ND	ND		TVOL
	9/21/2009	ND	ND			ND	5242SIM
	9/21/2009			ND	ND		TVOL
	12/10/2009	ND	ND			ND	5242SIM
	12/10/2009			ND	ND		TVOL
	3/12/2010	ND	ND			ND	5242SIM
	3/12/2010			ND	ND		TVOL
	6/17/2010	ND	ND			ND	5242SIM
	6/17/2010			ND	ND		TVOL
	9/15/2010	ND	ND			ND	5242SIM
	9/15/2010			ND	ND		TVOL
	12/10/2010	ND	ND			ND	5242SIM
	12/10/2010			ND	ND		TVOL
	3/16/2011	ND	ND			ND	5242SIM
	3/16/2011			ND	ND		TVOL
	7/11/2011	ND	ND			ND	5242SIM
	7/11/2011			ND	ND		TVOL
	09/12/2011			< 0.5	< 0.5		TVOL
	09/12/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/12/2011			< 0.5	< 0.5		TVOL
	12/12/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-1A	12/6/1995	ND	ND			ND	504.1
	12/6/1995			1 J	ND		624/25ML
	5/30/1996	ND	ND				504.1
	5/30/1996			1	ND		624/25ML
	10/3/1996	0.25 J	0.25 J				504.1
	10/3/1996			ND	ND		624/25ML
	3/27/1997	ND	ND				504.1
	3/27/1997			ND	ND		624/25ML
	6/26/1997	ND	1.1 J				504.1
	6/26/1997			5	ND	ND	624/25ML
	10/16/1997	ND	ND				504.1
	10/17/1997	ND	ND	ND	ND	ND	624/25ML
	1/28/1998	ND	ND				504.1
	1/28/1998			ND	ND	ND	624/25ML
	5/19/1998	ND	ND				504.1
	5/19/1998			ND	ND	ND	624/25ML
	8/18/1998	0.03 J	ND				504.1
	8/19/1998	ND	ND	ND	ND	ND	624/25ML
	12/1/1998	ND	ND				504.1
	12/1/1998			ND	ND	ND	624/25ML
	3/16/1999	ND	ND				504.1
	3/16/1999			ND	ND	ND	624/25ML
	6/29/1999	ND	ND				504.1
	6/29/1999			ND	ND	ND	624/25ML
	9/13/1999	ND	ND				504.1
	9/13/1999			ND	ND	ND	624/25ML
	12/20/1999	ND	ND				504.1
	12/20/1999			ND	ND	ND	624/25ML
	3/27/2000	ND	ND				504.1
	3/27/2000			ND	ND	ND	624/25ML
	6/27/2000	ND	ND				504.1
	6/27/2000			ND	ND	ND	524.2
	10/3/2000	ND	ND				504.1
	10/3/2000			ND	ND	ND	524.2
	12/11/2000	ND	ND				504.1
	12/11/2000			ND	ND	ND	524.2
	4/19/2001	ND	ND				504.1
	4/19/2001			ND	ND	ND	524.2
	6/8/2001	ND	ND				504.1
	6/8/2001			ND	ND	ND	524.2
	9/27/2001	ND	ND				504.1
	9/27/2001			ND	ND	ND	524.2
	1/14/2002	ND	ND				504.1

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	1/14/2002			ND	ND	ND	524.2
	3/29/2002	ND	ND				504.1
	3/29/2002			ND	ND	ND	524.2
	9/19/2002	ND	ND				504.1
	9/19/2002			ND	ND	ND	524.2
	9/12/2003	ND	ND				504.1
	9/12/2003			ND	ND	ND	OLC03.2
	9/14/2004	ND	ND				504.1
	9/14/2004			ND	ND	ND	OLC03.2
	9/21/2005	ND	ND				504.1
	9/21/2005			ND	ND	ND	OLC032
	10/11/2006	ND	ND				504.1
	10/11/2006			ND	ND	ND	TVOL
	10/1/2007	ND	ND				504.1
	10/1/2007			ND	ND	ND	TVOL
	12/10/2008	ND	ND				504.1
	12/10/2008			ND	ND	ND	TVOL
	9/18/2009	ND	ND			ND	5242SIM
	9/18/2009			0.28 J	ND		TVOL
	9/20/2010	ND	ND			ND	5242SIM
	9/20/2010			ND	ND		TVOL
	09/20/2011			< 0.5	< 0.5		TVOL
	09/20/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-1B	12/6/1995	ND	ND				504.1
	12/6/1995			1 J	ND		624/25ML
	5/30/1996	ND	0.17				504.1
	5/30/1996			0.4 J	ND		624/25ML
	10/2/1996	0.25 J	0.25 J				504.1
	10/2/1996			0.2 J	ND		624/25ML
	3/26/1997	ND	ND				504.1
	3/26/1997			ND	ND		624/25ML
	6/26/1997	ND	0.14 J				504.1
	6/26/1997			0.8 J	ND	ND	624/25ML
	10/17/1997	ND	ND				504.1
	10/17/1997			ND	ND	ND	624/25ML
	1/28/1998	ND	ND				504.1
	1/28/1998			ND	ND	ND	624/25ML
	5/19/1998	ND	ND				504.1
	5/19/1998			ND	ND	ND	624/25ML
	8/18/1998	ND	ND				504.1
	8/18/1998			ND	ND	ND	624/25ML
	12/1/1998	ND	ND				504.1
	12/1/1998			ND	ND	ND	624/25ML
	3/16/1999	ND	ND				504.1
	3/16/1999			ND	ND	ND	624/25ML
	6/29/1999	ND	ND				504.1
	6/29/1999			ND	ND	ND	624/25ML
	9/13/1999	ND	ND				504.1
	9/13/1999			ND	ND	ND	624/25ML
	12/20/1999	ND	ND				504.1
	12/20/1999			ND	ND	ND	624/25ML
	3/27/2000	ND	ND				504.1
	3/27/2000			ND	ND	ND	624/25ML
	6/27/2000	ND	ND				504.1
	6/27/2000			ND	ND	ND	524.2
	10/3/2000	ND	ND				504.1
	10/3/2000			ND	ND	ND	524.2
	12/11/2000	ND	ND				504.1
	12/11/2000			ND	ND	ND	524.2
	4/19/2001	ND	ND				504.1
	4/19/2001			ND	ND	ND	524.2
	6/8/2001	ND	ND				504.1
	6/8/2001			ND	ND	ND	524.2
	9/27/2001	ND	ND				504.1
	9/27/2001			ND	ND	ND	524.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	1/14/2002	ND	ND				504.1
	1/14/2002			ND	ND	ND	524.2
	3/29/2002	ND	ND				504.1
	3/29/2002			ND	ND	ND	524.2
	9/19/2002	ND	ND				504.1
	9/19/2002			ND	ND	ND	524.2
	9/12/2003	ND	ND				504.1
	9/12/2003			0.067 J	ND	ND	OLC03.2
	9/14/2004	ND	ND				504.1
	9/14/2004			ND	ND	ND	OLC03.2
	9/21/2005	ND	ND				504.1
	9/21/2005			ND	ND	ND	OLC032
	10/11/2006	ND	ND				504.1
	10/11/2006			ND	ND	ND	TVOL
	10/1/2007	ND	ND				504.1
	10/1/2007			ND	ND	ND	TVOL
	12/10/2008	ND	ND				504.1
	12/10/2008			ND	ND	ND	TVOL
	9/18/2009	ND	ND			ND	5242SIM
	9/18/2009			ND	ND		TVOL
	9/20/2010	ND	ND			ND	5242SIM
	9/20/2010			ND	ND		TVOL
	09/19/2011			< 0.5	< 0.5		TVOL
	09/19/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-1C	12/6/1995	ND	ND				504.1
	12/6/1995			ND	ND		624/25ML
	5/30/1996	ND	0.08				504.1
	5/30/1996			0.3 J	ND		624/25ML
	10/3/1996	0.25 J	0.25 J				504.1
	10/3/1996			ND	ND		624/25ML
	3/27/1997	ND	ND				504.1
	3/27/1997			ND	ND		624/25ML
	6/26/1997	ND	0.01 J				504.1
	6/26/1997			ND	ND	ND	624/25ML
	10/17/1997	ND	ND				504.1
	10/20/1997	ND	ND	ND	ND	ND	624/25ML
	5/19/1998	ND	ND				504.1
	5/19/1998			ND	ND	ND	624/25ML
	8/18/1998	ND	ND				504.1
	8/19/1998	ND	ND	ND	ND	ND	624/25ML
	12/1/1998	ND	ND				504.1
	12/1/1998			ND	ND	ND	624/25ML
	3/16/1999	ND	ND				504.1
	3/16/1999			ND	ND	ND	624/25ML
	6/29/1999	ND	ND				504.1
	6/29/1999			ND	ND	ND	624/25ML
	9/13/1999	ND	ND				504.1
	9/13/1999			ND	ND	ND	624/25ML
	12/20/1999	ND	ND				504.1
	12/20/1999			ND	ND	ND	624/25ML
	3/27/2000	ND	ND				504.1
	3/27/2000			ND	ND	ND	624/25ML
	6/27/2000	ND	ND				504.1
	6/27/2000			ND	ND	ND	524.2
	10/3/2000	ND	ND				504.1
	10/3/2000			ND	ND	ND	524.2
	12/11/2000	ND	ND				504.1
	12/11/2000			ND	ND	ND	524.2
	4/19/2001	ND	ND				504.1
	4/19/2001			ND	ND	ND	524.2
	6/8/2001	ND	ND				504.1
	6/8/2001			ND	ND	ND	524.2
	9/27/2001	ND	ND				504.1
	9/27/2001			ND	ND	ND	524.2
	1/14/2002	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	1/14/2002			0.6 J	ND	ND	524.2
	3/29/2002	ND	ND				504.1
	3/29/2002			ND	ND	ND	524.2
	6/24/2002	ND	ND				504.1
	6/24/2002			1	ND	ND	524.2
	9/18/2002	ND	ND				504.1
	9/18/2002			2	ND	ND	524.2
	12/19/2002	ND	ND				504.1
	12/19/2002			1	ND	ND	524.2
	3/21/2003	ND	ND				504.1
	3/21/2003			2	ND		VOCS
	6/19/2003	ND	ND				504.1
	6/19/2003			1.9	ND		OLC03.2
	9/17/2003	ND	ND				504.1
	9/17/2003			2	ND	ND	OLC03.2
	12/11/2003	ND	ND				504.1
	12/11/2003			3.5	0.86	ND	OLC03.2
	3/15/2004	ND	ND				504.1
	3/15/2004			1.7	ND	ND	OLC03.2
	6/11/2004	ND	0.013 J				504.1
	6/11/2004			1.8	0.073 J	ND	OLC03.2
	9/14/2004	ND	ND				504.1
	9/14/2004			2.8	ND	ND	OLC03.2
	11/30/2004	ND	ND				504.1
	11/30/2004			3.4	ND	ND	OLC03.2
	3/14/2005	ND	ND				504.1
	3/14/2005			1.5	ND	ND	OLC03.2
	6/13/2005	ND	ND				504.1
	6/13/2005			2.3	ND	ND	OLC03.2
	9/21/2005	ND	ND				504.1
	9/21/2005			2	ND	ND	OLC032
	12/13/2005	ND	ND				504.1
	12/13/2005			2.5	ND	ND	OLC032
	3/8/2006	ND	ND				504.1
	3/8/2006			2.2	ND	ND	OLC032
	6/13/2006	ND	ND				504.1
	6/13/2006			1.8	ND	ND	OLC032
	10/11/2006	ND	ND				504.1
	10/11/2006			2.7	ND	ND	TVOL
	12/28/2006	ND	ND				504.1
	12/28/2006			1.6	ND	ND	TVOL
	3/6/2007	ND	ND				504.1
	3/6/2007			2.3	ND	ND	TVOL
	6/7/2007	ND	ND				504.1
	6/7/2007			2.2 J	ND	ND	TVOL
	10/1/2007	ND	ND				504.1
	10/1/2007			2.7	ND	ND	TVOL
	12/19/2007	ND	ND				504.1
	12/19/2007			2.2	ND	ND	TVOL
	3/27/2008	ND	ND				504.1
	3/27/2008			2	ND	ND	TVOL
	6/6/2008	ND	ND				504.1
	6/6/2008			2	ND	ND	TVOL
	12/10/2008	ND	ND				504.1
	12/10/2008			1.9	ND	ND	TVOL
	3/12/2009	ND	ND				5041
	3/12/2009					0.0047 J	524.2 SIM
	3/12/2009			ND	ND		TVOL
	6/5/2009	ND	ND				5041
	6/5/2009					0.0042 J	5242SIM
	6/5/2009			ND	ND		TVOL
	9/18/2009	ND	ND			0.0063	5242SIM
	9/18/2009			1.1	ND		TVOL
	12/15/2009	ND	ND			0.0054	5242SIM
	12/15/2009			ND	ND		TVOL

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/18/2010	ND	ND			0.0058	5242SIM
	3/18/2010			1.1	ND		TVOL
	6/14/2010	ND	ND			0.0044 J	5242SIM
	6/14/2010			1.4	ND		TVOL
	9/20/2010	ND	ND			0.0052	5242SIM
	9/20/2010			2.1	ND		TVOL
	12/14/2010	ND	ND			0.0089	5242SIM
	12/14/2010			6.2	ND		TVOL
	3/2/2011	ND	ND			0.0086	5242SIM
	3/2/2011			4.2	ND		TVOL
	7/7/2011	ND	ND			0.0053	5242SIM
	7/7/2011			2	ND		TVOL
	09/19/2011			0.89 J	< 0.5		TVOL
	09/19/2011	< 0.01	< 0.005			0.0053	E524.2S
	12/05/2011			3.4	< 0.5		TVOL
	12/05/2011	< 0.01	< 0.005			0.011	E524.2S
OW-20B	12/17/2003	ND	ND				504.1
	12/17/2003			0.54	25	ND	OLC03.2
	3/11/2004	ND	0.08				504.1
	3/11/2004			1.2	23	ND	OLC03.2
	6/10/2004	0.016 J	0.15 J				504.1
	6/10/2004			1.1	17	0.068 J	OLC03.2
	10/7/2004	ND	ND				504.1
	10/7/2004			0.33 J	16	ND	OLC03.2
	12/3/2004	ND	ND				504.1
	12/3/2004			ND	17	ND	OLC03.2
	3/4/2005	ND	ND				504.1
	3/4/2005			0.48 J	19	ND	OLC03.2
	6/7/2005	ND	ND				504.1
	6/7/2005			ND	2.8	ND	OLC03.2
	9/13/2005	ND	ND				504.1
	9/13/2005			0.32 J	10	ND	OLC032
	12/5/2005	ND	ND				504.1
	12/5/2005			0.34 J	14	ND	OLC032
	3/2/2006	ND	ND				504.1
	3/2/2006			0.45 J	15	ND	OLC032
	6/1/2006	ND	ND				504.1
	6/1/2006			0.56	17	ND	OLC032
	9/29/2006	ND	ND				504.1
	9/29/2006			ND	10 J	ND	TVOL
	12/27/2006	ND	ND				504.1
	12/27/2006			ND	10	ND	TVOL
	3/1/2007	ND	ND				504.1
	3/1/2007			0.33 J	9.5	ND	TVOL
	6/4/2007	ND	ND				504.1
	6/4/2007			0.2 J	5	ND	TVOL
	10/10/2007	ND	ND				504.1
	10/10/2007			ND	1.1	ND	TVOL
	12/14/2007	ND	ND				504.1
	12/14/2007			ND	4.3	ND	TVOL
	3/21/2008	ND	ND				504.1
	3/21/2008			0.34 J	12	ND	TVOL
	6/2/2008	ND	ND				504.1
	6/2/2008			ND	0.92	ND	TVOL
	10/3/2008	ND	ND				504.1
	10/3/2008			ND	3.4	ND	TVOL
	12/15/2008	ND	ND				504.1
	12/15/2008			ND	5	ND	TVOL
	3/4/2009	ND	ND				5041
	3/4/2009					0.026	524.2 SIM
	3/4/2009			0.31 J	9.7		TVOL
	5/28/2009	ND	ND				5041
	5/28/2009					0.011	5242SIM
	5/28/2009			ND	2		TVOL
	9/30/2009	ND	ND			0.019	5242SIM

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	9/30/2009			ND	3.7		TVOL
	12/14/2009	ND	ND			0.025	5242SIM
	12/14/2009			ND	3.8		TVOL
	3/25/2010	ND	ND			0.035	5242SIM
	3/25/2010			ND	3.9		TVOL
	6/22/2010	ND	ND			0.016	5242SIM
	6/22/2010			ND	ND		TVOL
	9/27/2010	ND	ND			0.01	5242SIM
	9/27/2010			ND	2		TVOL
	12/3/2010	ND	ND			0.019	5242SIM
	12/3/2010			0.28 J	5.8		TVOL
	3/18/2011	ND	ND			0.025	5242SIM
	3/18/2011			0.27 J	8.7		TVOL
	7/7/2011	ND	ND			0.022	5242SIM
	7/7/2011			ND	7.9		TVOL
	09/28/2011			< 0.5	3.6		TVOL
	09/28/2011	< 0.01	< 0.005			0.024	E524.2S
	12/14/2011			< 0.5	4.6 J		TVOL
	12/14/2011	< 0.01	< 0.005			0.026	E524.2S
OW-20C	12/17/2003	ND	ND				504.1
	12/17/2003			ND	ND	ND	OLC03.2
	3/4/2004	ND	ND				504.1
	3/4/2004			ND	ND	ND	OLC03.2
	6/10/2004	ND	ND				504.1
	6/10/2004			ND	0.095 J	ND	OLC03.2
	10/7/2004	ND	ND				504.1
	10/7/2004			ND	0.11 J	ND	OLC03.2
	12/3/2004	ND	ND				504.1
	12/3/2004			ND	ND	ND	OLC03.2
	3/4/2005	ND	ND				504.1
	3/4/2005			ND	ND	ND	OLC03.2
	6/7/2005	ND	ND				504.1
	6/7/2005			ND	ND	ND	OLC03.2
	9/13/2005	ND	ND				504.1
	9/13/2005			ND	0.37 J	ND	OLC032
	12/5/2005	ND	ND				504.1
	12/5/2005			ND	0.38 J	ND	OLC032
	3/2/2006	ND	ND				504.1
	3/2/2006			ND	ND	ND	OLC032
	6/1/2006	ND	ND				504.1
	6/1/2006			ND	0.15 J	ND	OLC032
	9/29/2006	ND	ND				504.1
	9/29/2006			ND	0.66 J	ND	TVOL
	12/27/2006	ND	ND				504.1
	12/27/2006			ND	ND	ND	TVOL
	3/1/2007	ND	ND				504.1
	3/1/2007			ND	ND	ND	TVOL
	6/4/2007	ND	ND				504.1
	6/4/2007			ND	0.81	ND	TVOL
	10/10/2007	ND	ND				504.1
	10/10/2007			ND	1.9	ND	TVOL
	12/14/2007	ND	ND				504.1
	12/14/2007			ND	0.27 J	ND	TVOL
	3/21/2008	ND	ND				504.1
	3/21/2008			ND	ND	ND	TVOL
	6/2/2008	ND	ND				504.1
	6/2/2008			ND	ND	ND	TVOL
	10/3/2008	ND	ND				504.1
	10/3/2008			ND	ND	ND	TVOL
	12/15/2008	ND	ND				504.1
	12/15/2008			ND	ND	ND	TVOL
	3/4/2009	ND	ND				5041
	3/4/2009					ND	524.2 SIM
	3/4/2009			ND	ND		TVOL
	5/28/2009	ND	ND				5041

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	5/28/2009					ND	5242SIM
	5/28/2009			ND	ND		TVOL
	9/30/2009	ND	ND			ND	5242SIM
	9/30/2009			ND	ND		TVOL
	12/14/2009	ND	ND			ND	5242SIM
	12/14/2009			ND	ND		TVOL
	3/25/2010	ND	ND			ND	5242SIM
	3/25/2010			ND	ND		TVOL
	6/22/2010	ND	ND			ND	5242SIM
	6/22/2010			ND	ND		TVOL
	9/27/2010	ND	ND			ND	5242SIM
	9/27/2010			ND	ND		TVOL
	12/3/2010	ND	ND			ND	5242SIM
	12/3/2010			ND	ND		TVOL
	3/18/2011	ND	ND			ND	5242SIM
	3/18/2011			ND	ND		TVOL
	7/7/2011	ND	ND			ND	5242SIM
	7/7/2011			ND	ND		TVOL
	09/28/2011			< 0.5	< 0.5		TVOL
	09/28/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/14/2011			< 0.5	< 0.5		TVOL
	12/14/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-3A	12/7/1995	ND	0.02 J				504.1
	12/7/1995			1 J	60		624/25ML
	5/30/1996	ND	0.05 J				504.1
	5/30/1996			2	45 D		624/25ML
	10/4/1996	0.25 J	0.25 J				504.1
	10/4/1996			1 J	49		624/25ML
	3/28/1997	ND	0.03 J				504.1
	3/28/1997			2	40		624/25ML
	6/27/1997	ND	0.54				504.1
	6/27/1997			2	31	0.4 J	624/25ML
	10/20/1997	ND	0.09 J				504.1
	10/20/1997			1	16	0.3 J	624/25ML
	5/20/1998	ND	ND				504.1
	5/20/1998			0.3 J	5	ND	624/25ML
	8/18/1998	ND	ND				504.1
	8/19/1998	ND	ND	0.4 J	0.3 J	ND	624/25ML
	12/1/1998	ND	ND				504.1
	12/1/1998			ND	ND	ND	624/25ML
	3/16/1999	ND	ND				504.1
	3/16/1999			ND	ND	ND	624/25ML
	6/30/1999	ND	ND				504.1
	6/30/1999			ND	13	ND	624/25ML
	9/14/1999	0.5	2.9				504.1
	9/14/1999			ND	8.8	ND	624/25ML
	12/21/1999	ND	ND				504.1
	12/21/1999			ND	8	ND	624/25ML
	3/29/2000	ND	ND				504.1
	3/29/2000			ND	14	ND	624/25ML
	6/30/2000	ND	ND				504.1
	6/30/2000			ND	17	ND	524.2
	10/11/2000	ND	ND				504.1
	10/11/2000			ND	25	ND	524.2
	12/14/2000	ND	ND				504.1
	12/14/2000			ND	15	ND	524.2
	4/25/2001	ND	ND				504.1
	4/25/2001			ND	10	ND	524.2
	6/13/2001	ND	0.05				504.1
	6/13/2001			0.6 J	8	ND	524.2
	10/2/2001	ND	ND				504.1
	10/2/2001			0.6 J	10	ND	524.2
	1/21/2002	ND	0.13				504.1
	1/21/2002			0.6 J	9.6	ND	524.2
	4/3/2002	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	4/3/2002			ND	10	ND	524.2
	6/27/2002	ND	0.02				504.1
	6/27/2002			0.5 J	9.4	ND	524.2
	9/24/2002	ND	0.01 J				504.1
	9/24/2002			ND	8.1	ND	524.2
	3/24/2003	ND	ND				504.1
	3/24/2003			0.2 J	5		VOCS
	6/19/2003	ND	ND				504.1
	6/19/2003			0.25 J	7.9		OLC03.2
	9/16/2003	ND	ND				504.1
	9/16/2003			0.18 J	2.8	ND	OLC03.2
	12/11/2003	ND	ND				504.1
	12/11/2003			0.18 J	ND	ND	OLC03.2
	3/9/2004	ND	ND				504.1
	3/9/2004			0.13 J	1	ND	OLC03.2
	6/11/2004	ND	ND				504.1
	6/11/2004			ND	1.6	ND	OLC03.2
	9/15/2004	ND	ND				504.1
	9/15/2004			0.065 J	1.3	ND	OLC03.2
	12/2/2004	ND	ND				504.1
	12/2/2004			ND	1.2	ND	OLC03.2
	3/10/2005	ND	ND				504.1
	3/10/2005			ND	1.9	ND	OLC03.2
	6/6/2005	ND	ND				504.1
	6/6/2005			ND	0.83	ND	OLC03.2
	9/20/2005	ND	ND				504.1
	9/20/2005			ND	0.99	ND	OLC032
	12/12/2005	ND	ND				504.1
	12/12/2005			0.093 J	1.6	ND	OLC032
	3/7/2006	ND	ND				504.1
	3/7/2006			ND	0.91	ND	OLC032
	6/12/2006	ND	ND				504.1
	6/12/2006			0.35 J	0.86	ND	OLC032
	10/12/2006	ND	ND				504.1
	10/12/2006			ND	0.8 J	ND	TVOL
	12/28/2006	ND	ND				504.1
	12/28/2006			ND	1.6	ND	TVOL
	3/13/2007	ND	ND				504.1
	3/13/2007			ND	2.7 J	ND	TVOL
	6/8/2007	ND	ND				504.1
	6/8/2007			ND	1 J	ND	TVOL
	10/1/2007	ND	ND				504.1
	10/1/2007			ND	0.78	ND	TVOL
	12/17/2007	ND	ND				504.1
	12/17/2007			ND	1.4	ND	TVOL
	3/28/2008	ND	ND				504.1
	3/28/2008			ND	1.5	ND	TVOL
	6/4/2008	ND	ND				504.1
	6/4/2008			ND	1.3	ND	TVOL
	9/19/2008	ND	ND				504.1
	9/19/2008			ND	1.1 J	ND	TVOL
	12/9/2008	ND	ND				504.1
	12/9/2008					0.011	524.2 SIM
	12/9/2008			ND	0.68		TVOL
	3/13/2009	ND	ND				5041
	3/13/2009					0.029	524.2 SIM
	3/13/2009			ND	2.7		TVOL
	6/8/2009	ND	ND				5041
	6/8/2009					0.019	5242SIM
	6/8/2009			ND	1.7		TVOL
	10/1/2009	ND	ND			0.014	5242SIM
	10/1/2009			ND	0.55		TVOL
	12/3/2009	ND	ND			0.017	5242SIM
	12/3/2009			ND	0.76		TVOL
	3/19/2010	ND	ND			0.022	5242SIM

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/19/2010			ND	0.7		TVOL
	6/23/2010	ND	ND			0.017	5242SIM
	6/23/2010			ND	ND		TVOL
	10/6/2010	ND	ND			0.012	5242SIM
	10/6/2010			ND	0.73		TVOL
	12/13/2010	ND	ND			0.014	5242SIM
	12/13/2010			ND	2.1 J		TVOL
	3/22/2011	ND	ND			0.038	5242SIM
	3/22/2011			0.24 J	3.2		TVOL
	7/11/2011	ND	ND			0.021	5242SIM
	7/11/2011			ND	1.2		TVOL
	09/23/2011			< 0.5	0.54 J		TVOL
	09/23/2011	< 0.01	< 0.005			0.011	E524.2S
	12/15/2011			< 0.5	1.1		TVOL
	12/15/2011	< 0.01	< 0.005			0.018	E524.2S
OW-3B	12/7/1995	ND	0.02 J				504.1
	12/7/1995			3	100		624/25ML
	5/30/1996	ND	0.09 J				504.1
	5/30/1996			3	100 D		624/25ML
	10/4/1996	0.25 J	0.25 J				504.1
	10/4/1996			3 J	120		624/25ML
	3/28/1997	ND	ND				504.1
	3/28/1997			3 J	95 J		624/25ML
	6/27/1997	ND	ND				504.1
	6/27/1997			3	88 D	ND	624/25ML
	10/20/1997	ND	ND				504.1
	10/20/1997			3	110	0.5 J	624/25ML
	5/20/1998	ND	ND				504.1
	5/20/1998			3	110	0.6 J	624/25ML
	8/18/1998	ND	ND				504.1
	8/18/1998			3	95	0.6 J	624/25ML
	12/1/1998	ND	ND				504.1
	12/1/1998			ND	ND	ND	624/25ML
	3/16/1999	ND	ND				504.1
	3/16/1999			2	98	ND	624/25ML
	6/30/1999	ND	ND				504.1
	6/30/1999			3	95	ND	624/25ML
	9/14/1999	ND	ND	2	100	ND	624/25ML
	12/21/1999	ND	ND				504.1
	12/21/1999			1	86	0.5 J	624/25ML
	3/29/2000	ND	ND				504.1
	3/29/2000			2	92	ND	624/25ML
	6/30/2000	ND	ND				504.1
	6/30/2000			2	92	ND	524.2
	10/11/2000	ND	0.23				504.1
	10/11/2000			2	65	ND	524.2
	12/14/2000	ND	ND				504.1
	12/14/2000			1	63	ND	524.2
	4/25/2001	ND	ND				504.1
	4/25/2001			2	57	ND	524.2
	6/13/2001	ND	ND				504.1
	6/13/2001			2	50	ND	524.2
	10/2/2001	ND	ND				504.1
	10/2/2001			1	49	ND	524.2
	1/21/2002	ND	ND				504.1
	1/21/2002			1	50	ND	524.2
	4/3/2002	ND	ND				504.1
	4/3/2002			1	60	ND	524.2
	7/1/2002	ND	ND				504.1
	7/1/2002			1	49	ND	524.2
	9/24/2002	ND	ND				504.1
	9/24/2002			1	42	ND	524.2
	3/25/2003	ND	ND				504.1
	3/25/2003			2 JD	33 D		VOCS
	6/23/2003	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/23/2003			1.4 JD	38 D		OLC03.2
	9/18/2003	ND	ND				504.1
	9/18/2003			1.7	39 D	ND	OLC03.2
	12/15/2003	ND	ND				504.1
	12/15/2003			1.5 JD	35 D	ND	OLC03.2
	3/9/2004	ND	ND				504.1
	3/9/2004			1.1	29 D	ND	OLC03.2
	6/11/2004	ND	ND				504.1
	6/11/2004			1	40 D	ND	OLC03.2
	9/15/2004	ND	ND				504.1
	9/15/2004			1	17 D	ND	OLC03.2
	12/1/2004	ND	ND				504.1
	12/1/2004			0.84	20 D	ND	OLC03.2
	3/10/2005	ND	ND				504.1
	3/10/2005			0.92	18 D	0.43 J	OLC03.2
	6/6/2005	ND	ND				504.1
	6/6/2005			1.2	25 D	ND	OLC03.2
	9/20/2005	ND	ND				504.1
	9/20/2005			1.3	16 D	0.46 J	OLC032
	12/12/2005	ND	ND				504.1
	12/12/2005			1.2	27	0.34 J	OLC032
	3/7/2006	ND	ND				504.1
	3/7/2006			1.2	35 D	0.33 J	OLC032
	6/12/2006	ND	ND				504.1
	6/12/2006			2.2	36 D	0.42 J	OLC032
	10/12/2006	ND	ND				504.1
	10/12/2006			0.84 J	19	ND	TVOL
	12/28/2006	ND	ND				504.1
	12/28/2006			0.73	22	0.2 J	TVOL
	3/13/2007	ND	ND				504.1
	3/13/2007			1.3 J	35	0.34 J	TVOL
	6/8/2007	ND	ND				504.1
	6/8/2007			1.1 J	31 J	0.28 J	TVOL
	10/1/2007	ND	ND				504.1
	10/1/2007			0.87	25	ND	TVOL
	12/17/2007	ND	ND				504.1
	12/17/2007			0.98		0.3 J	TVOL
	3/28/2008	ND	ND				504.1
	3/28/2008			0.9	24	ND	TVOL
	6/4/2008	ND	ND				504.1
	6/4/2008			0.81	8.3	ND	TVOL
	9/19/2008	ND	ND				504.1
	9/19/2008			ND	18	ND	TVOL
	12/9/2008	ND	ND				504.1
	12/9/2008					0.2	524.2 SIM
	12/9/2008			ND	12		TVOL
	3/13/2009	ND	ND				5041
	3/13/2009					0.26	524.2 SIM
	3/13/2009			0.86 J	20		TVOL
	6/8/2009	ND	ND				5041
	6/8/2009					0.19	5242SIM
	6/8/2009			0.61	16		TVOL
	10/1/2009	ND	ND			0.21	5242SIM
	10/1/2009			0.43 J	10		TVOL
	12/3/2009	ND	ND			0.19	5242SIM
	12/3/2009			ND	7.7		TVOL
	3/19/2010	ND	ND			0.27	5242SIM
	3/19/2010			0.38 J	11		TVOL
	6/23/2010	ND	ND			0.22	5242SIM
	6/23/2010			ND	14 J		TVOL
	10/6/2010	ND	ND			0.18	5242SIM
	10/6/2010			0.65	17		TVOL
	12/13/2010	ND	ND			0.16	5242SIM
	12/13/2010			1	37		TVOL
	3/22/2011	ND	ND			0.24	5242SIM

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/22/2011			0.79	17		TVOL
	7/11/2011	ND	ND			0.19	5242SIM
	7/11/2011			ND	19		TVOL
	09/23/2011			0.31 J	8.6 J		TVOL
	09/23/2011	< 0.01	< 0.005			0.18	E524.2S
	12/15/2011			< 0.5	6.3		TVOL
	12/15/2011	< 0.01	< 0.005			0.17	E524.2S
OW-3C	12/7/1995	ND	ND				504.1
	12/7/1995			1 J	0.8		624/25ML
	5/31/1996	ND	0.16				504.1
	5/31/1996			0.4 J	0.5		624/25ML
	10/4/1996	0.25 J	0.25 J				504.1
	10/4/1996			ND	0.4 J		624/25ML
	3/28/1997	ND	ND				504.1
	3/28/1997			1 J	0.2 J		624/25ML
	6/27/1997	ND	ND				504.1
	6/27/1997			ND	0.7	ND	624/25ML
	10/21/1997	ND	ND				504.1
	10/21/1997			0.2 J	7	ND	624/25ML
	5/20/1998	ND	ND				504.1
	5/20/1998			ND	ND	ND	624/25ML
	8/18/1998	ND	ND				504.1
	8/18/1998			0.2 J	0.2 J	ND	624/25ML
	12/1/1998	ND	ND				504.1
	12/1/1998			ND	ND	ND	624/25ML
	3/16/1999	ND	ND				504.1
	3/16/1999			ND	ND	ND	624/25ML
	6/30/1999	ND	ND				504.1
	6/30/1999			ND	ND	ND	624/25ML
	9/14/1999	ND	ND				504.1
	9/14/1999			0.5 J	ND	ND	624/25ML
	12/21/1999	ND	ND				504.1
	12/21/1999			0.5 J	ND	ND	624/25ML
	3/29/2000	ND	ND				504.1
	3/29/2000			0.9 J	12	ND	624/25ML
	6/30/2000	ND	ND				504.1
	6/30/2000			1	15	ND	524.2
	10/11/2000	ND	ND				504.1
	10/11/2000			2	37	ND	524.2
	12/14/2000	ND	ND				504.1
	12/14/2000			1	12	ND	524.2
	4/25/2001	ND	ND				504.1
	4/25/2001			1	26	ND	524.2
	6/13/2001	ND	ND				504.1
	6/13/2001			1	19	ND	524.2
	10/2/2001	ND	ND				504.1
	10/2/2001			1	60	ND	524.2
	1/21/2002	ND	ND				504.1
	1/21/2002			2	82	ND	524.2
	4/3/2002	ND	ND				504.1
	4/3/2002			1	20	ND	524.2
	6/28/2002	ND	ND				504.1
	6/28/2002			0.9 J	10	ND	524.2
	9/24/2002	ND	ND				504.1
	9/24/2002			0.8 J	8.3	ND	524.2
	3/24/2003	ND	ND				504.1
	3/24/2003			0.6	3		VOCS
	6/19/2003	ND	ND				504.1
	6/19/2003			0.69	6.4		OLC03.2
	9/16/2003	ND	ND				504.1
	9/16/2003			0.73 J	10	ND	OLC03.2
	12/15/2003	ND	ND				504.1
	12/15/2003			0.68	4.7	ND	OLC03.2
	3/9/2004	ND	ND				504.1
	3/9/2004			0.33 J	0.76	ND	OLC03.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/11/2004	ND	0.018 J				504.1
	6/11/2004			0.49 J	1.2	ND	OLC03.2
	9/15/2004	ND	ND				504.1
	9/15/2004			0.49 J	1.1	ND	OLC03.2
	12/1/2004	ND	ND				504.1
	12/1/2004			ND	0.46 J	ND	OLC03.2
	3/10/2005	ND	ND				504.1
	3/10/2005			ND	0.11 J	ND	OLC03.2
	6/6/2005	ND	ND				504.1
	6/6/2005			0.4 J	0.22 J	ND	OLC03.2
	9/20/2005	ND	ND				504.1
	9/20/2005			1.2	0.32 JD	0.35 J	OLC032
	12/12/2005	ND	ND				504.1
	12/12/2005			0.22 J	0.19 J	ND	OLC032
	3/7/2006	ND	ND				504.1
	3/7/2006			0.24 J	0.15 J	ND	OLC032
	6/12/2006	ND	ND				504.1
	6/12/2006			ND	0.32 J	ND	OLC032
	10/12/2006	ND	ND				504.1
	10/12/2006			0.51 J	ND	ND	TVOL
	12/28/2006	ND	ND				504.1
	12/28/2006			ND	ND	ND	TVOL
	3/13/2007	ND	ND				504.1
	3/13/2007			0.25 J	ND	ND	TVOL
	6/8/2007	ND	ND				504.1
	6/8/2007			0.42 R	0.32 R	ND	TVOL
	10/1/2007	ND	ND				504.1
	10/1/2007			0.42 J	0.34 J	ND	TVOL
	12/17/2007	ND	ND				504.1
	12/17/2007			ND	0.11 J	ND	TVOL
	3/28/2008	ND	ND				504.1
	3/28/2008			0.22 J	0.24 J	ND	TVOL
	6/4/2008	ND	ND				504.1
	6/4/2008			ND	0.27 J	ND	TVOL
	9/19/2008	ND	ND				504.1
	9/19/2008			ND	0.71	ND	TVOL
	12/9/2008	ND	ND				504.1
	12/9/2008			ND	ND	ND	TVOL
	3/13/2009	ND	ND				5041
	3/13/2009					0.0041 J	524.2 SIM
	3/13/2009			ND	ND		TVOL
	6/8/2009	ND	ND				5041
	6/8/2009					0.0028 J	5242SIM
	6/8/2009			ND	0.37 J		TVOL
	10/1/2009	ND	ND			0.0044 J	5242SIM
	10/1/2009			ND	0.27 J		TVOL
	12/3/2009	ND	ND			0.0062	5242SIM
	12/3/2009			ND	0.2 J		TVOL
	3/19/2010	ND	ND			0.0068 J	5242SIM
	3/19/2010			ND	ND		TVOL
	6/23/2010	ND	ND			0.0031 J	5242SIM
	6/23/2010			ND	ND		TVOL
	10/6/2010	ND	ND			0.005	5242SIM
	10/6/2010			ND	1.5		TVOL
	12/13/2010	ND	ND			ND	5242SIM
	12/13/2010			0.27 J	0.64 J		TVOL
	3/22/2011	ND	ND			0.0041 J	5242SIM
	3/22/2011			0.3 J	0.59		TVOL
	6/22/2011	ND	ND			0.0036 J	5242SIM
	6/22/2011			ND	0.7 J		TVOL
	09/23/2011			< 0.5	0.59 J		TVOL
	09/23/2011	< 0.01	< 0.005			0.0057	E524.2S
	12/15/2011			< 0.5	0.48 J		TVOL
	12/15/2011	< 0.01	< 0.005			0.0042 J	E524.2S
OW-4A	12/7/1995	ND	0.01 J				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/7/1995			1 J	28		624/25ML
	5/31/1996	ND	0.04 J				504.1
	5/31/1996			0.5 J	15		624/25ML
	10/7/1996	0.25 J	0.25 J				504.1
	10/7/1996			1 J	56		624/25ML
	3/28/1997	ND	0.01 J				504.1
	3/28/1997			1 J	43 J		624/25ML
	6/27/1997	ND	0.13				504.1
	6/27/1997			0.6 J	31	ND	624/25ML
	10/21/1997	ND	ND				504.1
	10/21/1997			0.4 J	44	ND	624/25ML
	5/20/1998	ND	ND				504.1
	5/20/1998			ND	1	ND	624/25ML
	8/19/1998	ND	ND				504.1
	8/19/1998			0.4 J	32	ND	624/25ML
	12/2/1998	ND	ND				504.1
	12/2/1998			ND	ND	ND	624/25ML
	3/17/1999	ND	ND				504.1
	3/17/1999			ND	14	ND	624/25ML
	6/29/1999	ND	ND				504.1
	6/29/1999			ND	25	ND	624/25ML
	9/14/1999	ND	ND				504.1
	9/14/1999			ND	25	ND	624/25ML
	12/20/1999	ND	ND				504.1
	12/20/1999			ND	33	ND	624/25ML
	3/28/2000	ND	ND				504.1
	3/28/2000			0.5 J	35	ND	624/25ML
	6/30/2000	ND	ND				504.1
	6/30/2000			ND	34	ND	524.2
	10/11/2000	ND	ND				504.1
	10/11/2000			ND	29	ND	524.2
	12/15/2000	ND	ND				504.1
	12/15/2000			ND	27	ND	524.2
	4/25/2001	ND	ND				504.1
	4/25/2001			ND	27	ND	524.2
	6/14/2001	ND	0.04				504.1
	6/14/2001			0.9 J	35	ND	524.2
	10/3/2001	ND	ND				504.1
	10/3/2001			0.6 J	27	ND	524.2
	1/21/2002	ND	0.02 J				504.1
	1/21/2002			ND	36	ND	524.2
	4/3/2002	ND	ND				504.1
	4/3/2002			ND	26	ND	524.2
	6/28/2002	0.39	5.6				504.1
	6/28/2002			18	31	2	524.2
	9/25/2002	0.01 J	ND				504.1
	9/25/2002			4	26	ND	524.2
	3/25/2003	ND	ND				504.1
	3/25/2003			0.5	20 D		VOCS
	6/23/2003	ND	0.017 J				504.1
	6/23/2003			1.5	17		OLC03.2
	9/18/2003	ND	ND				504.1
	9/18/2003			1.2	16	0.37 J	OLC03.2
	12/12/2003	ND	0.015 J				504.1
	12/12/2003			1.7	10	0.56	OLC03.2
	3/10/2004	ND	ND				504.1
	3/10/2004			0.31 J	12	ND	OLC03.2
	6/14/2004	ND	0.018 J				504.1
	6/14/2004			0.63	12	0.27 J	OLC03.2
	9/16/2004	ND	0.023				504.1
	9/16/2004			0.87	8.1	0.35 J	OLC03.2
	12/1/2004	ND	ND				504.1
	12/1/2004			ND	8	ND	OLC03.2
	3/9/2005	ND	ND				504.1
	3/9/2005			ND	5.7	0.19 J	OLC03.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/6/2005	ND	0.012 J				504.1
	6/6/2005			ND	3.5	0.22 J	OLC03.2
	9/20/2005	ND	ND				504.1
	9/20/2005			ND	4.4	0.12 J	OLC032
	12/12/2005	ND	ND				504.1
	12/12/2005			0.25 J	5.6	ND	OLC032
	3/7/2006	ND	ND				504.1
	3/7/2006			0.22 J	5.4	ND	OLC032
	6/7/2006	ND	ND				504.1
	6/7/2006			ND	3.6	ND	OLC032
	10/3/2006	ND	ND				504.1
	10/3/2006			ND	2.7	ND	TVOL
	12/28/2006	ND	ND				504.1
	12/28/2006			ND	3	ND	TVOL
	3/15/2007	ND	ND				504.1
	3/15/2007			ND	5.6 J	ND	TVOL
	6/7/2007	ND	ND				504.1
	6/7/2007			ND	2.9 R	ND	TVOL
	10/3/2007	ND	ND				504.1
	10/3/2007			ND	1.8 J	ND	TVOL
	12/17/2007	ND	ND				504.1
	12/17/2007			ND	1.9	ND	TVOL
	3/13/2008	ND	ND				504.1
	3/13/2008			ND	2.7	ND	TVOL
	6/4/2008	ND	ND				504.1
	6/4/2008			ND	1.8	ND	TVOL
	9/19/2008	ND	ND				504.1
	9/19/2008			ND	1.4	ND	TVOL
	12/9/2008	ND	ND				504.1
	12/9/2008					0.026	524.2 SIM
	12/9/2008			ND	ND		TVOL
	3/13/2009	ND	ND				5041
	3/13/2009					0.032	524.2 SIM
	3/13/2009			ND	1.9		TVOL
	5/27/2009	ND	ND				5041
	5/27/2009					0.026	5242SIM
	5/27/2009			ND	1.4		TVOL
	10/1/2009	ND	ND			0.033	5242SIM
	10/1/2009			ND	0.55		TVOL
	12/4/2009	ND	ND			0.027	5242SIM
	12/4/2009			ND	0.55		TVOL
	3/24/2010	ND	ND			0.034	5242SIM
	3/24/2010			ND	0.89		TVOL
	6/15/2010	ND	ND			0.026	5242SIM
	6/15/2010			ND	0.67		TVOL
	10/1/2010	ND	ND			0.026	5242SIM
	10/1/2010			ND	0.55		TVOL
	12/13/2010	ND	ND			0.018	5242SIM
	12/13/2010			ND	1.1 J		TVOL
	3/4/2011	ND	ND			0.021	5242SIM
	3/4/2011			ND	1.1		TVOL
	6/22/2011	ND	ND			0.02 J	5242SIM
	6/22/2011			ND	1.2		TVOL
	09/22/2011			< 0.5	0.88 J		TVOL
	09/22/2011	< 0.01	< 0.005			0.022	E524.2S
	12/13/2011			< 0.5	1.2		TVOL
	12/13/2011	< 0.01	< 0.005			0.019	E524.2S
OW-4B	12/7/1995	ND	0.04 J				504.1
	12/7/1995			4 J	300		624/25ML
	5/31/1996	ND	ND				504.1
	5/31/1996			10	280 D		624/25ML
	10/7/1996	0.25 J	0.25 J				504.1
	10/7/1996			5 J	320		624/25ML
	3/31/1997	ND	ND				504.1
	3/31/1997			3	150		624/25ML

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/26/1997	ND	0.05 J				504.1
	6/26/1997			6	200	0.6 J	624/25ML
	10/21/1997	ND	ND				504.1
	10/21/1997			2	140	0.5 J	624/25ML
	5/20/1998	ND	ND				504.1
	5/20/1998			5	140	0.9 J	624/25ML
	8/19/1998	ND	ND				504.1
	8/19/1998			7	228	ND	624/25ML
	12/2/1998	ND	ND				504.1
	12/2/1998			2 J	110 J	ND	624/25ML
	3/17/1999	ND	ND				504.1
	3/17/1999			4	180	0.7 J	624/25ML
	6/29/1999	ND	ND				504.1
	6/29/1999			3	140	ND	624/25ML
	9/14/1999	ND	ND				504.1
	9/14/1999			0.6 J	44	ND	624/25ML
	12/20/1999	ND	ND				504.1
	12/20/1999			0.5 J	44	ND	624/25ML
	3/28/2000	ND	ND				504.1
	3/28/2000			3	160	0.9 J	624/25ML
	6/30/2000	ND	ND				504.1
	6/30/2000			3	150	ND	524.2
	10/11/2000	ND	0.19				504.1
	10/11/2000			2	110	0.7 J	524.2
	12/15/2000	ND	ND				504.1
	12/15/2000			2	80	0.7 J	524.2
	4/25/2001	ND	ND				504.1
	4/25/2001			2	98	0.6 J	524.2
	6/14/2001	ND	ND				504.1
	6/14/2001			2	70	0.7 J	524.2
	10/3/2001	ND	ND				504.1
	10/3/2001			1	80	0.6 J	524.2
	1/21/2002	ND	ND				504.1
	1/21/2002			2	120	0.7 J	524.2
	4/8/2002	ND	0.02				504.1
	4/8/2002			2	90	0.5 J	524.2
	7/2/2002	ND	ND				504.1
	7/2/2002			2	96	0.7 J	524.2
	9/25/2002	ND	ND				504.1
	9/25/2002			1	45	ND	524.2
	3/27/2003	ND	ND				504.1
	3/27/2003			2	80		VOCS
	6/23/2003	ND	ND				504.1
	6/23/2003			1.9	29 D		OLC03.2
	9/19/2003	ND	ND				504.1
	9/19/2003			1.3	31 D	ND	OLC03.2
	12/12/2003	ND	ND				504.1
	12/12/2003			1.8 JD	31 D	2.5 JDB	OLC03.2
	3/10/2004	ND	ND				504.1
	3/10/2004			1.3	18 D	ND	OLC03.2
	6/14/2004	ND	ND				504.1
	6/14/2004			0.68	15	0.34 J	OLC03.2
	9/16/2004	ND	ND				504.1
	9/16/2004			1.3	28 D	0.62	OLC03.2
	12/1/2004	ND	ND				504.1
	12/1/2004			1	23 D	ND	OLC03.2
	3/9/2005	ND	ND				504.1
	3/9/2005			1	22 D	0.8	OLC03.2
	6/6/2005	ND	ND				504.1
	6/6/2005			1.1	24	0.85	OLC03.2
	9/20/2005	ND	ND				504.1
	9/20/2005			1.3	1.2 JD	0.46 J	OLC032
	12/12/2005	ND	ND				504.1
	12/12/2005			1.1	22	0.43 J	OLC032
	3/7/2006	ND	ND				504.1

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/7/2006			1.2	26 D	0.42 J	OLC032
	6/7/2006	ND	ND				504.1
	6/7/2006			1.1	28 D	ND	OLC032
	10/3/2006	ND	ND				504.1
	10/3/2006			0.79	18 J	ND	TVOL
	12/28/2006	ND	ND				504.1
	12/28/2006			ND	20	0.3 J	TVOL
	3/15/2007	ND	ND				504.1
	3/15/2007			1.3 J	29	0.45 J	TVOL
	6/7/2007	ND	ND				504.1
	6/7/2007			1.1 R	31 J	0.47 R	TVOL
	10/3/2007	ND	ND				504.1
	10/3/2007			0.94	23 J	0.34 J	TVOL
	12/17/2007	ND	ND				504.1
	12/17/2007			1	19	ND	TVOL
	3/13/2008	ND	ND				504.1
	3/13/2008			1	23	ND	TVOL
	6/4/2008	ND	ND				504.1
	6/4/2008			0.95	18	0.39 J	TVOL
	9/19/2008	ND	ND				504.1
	9/19/2008			ND	17	0.44 J	TVOL
	12/9/2008	ND	ND				504.1
	12/9/2008			0.39 J	9.1	ND	TVOL
	3/13/2009	ND	ND				5041
	3/13/2009					0.34	524.2 SIM
	3/13/2009			ND	19		TVOL
	5/27/2009	ND	ND				5041
	5/27/2009					0.29	5242SIM
	5/27/2009			0.66	12		TVOL
	10/1/2009	ND	ND			0.28	5242SIM
	10/1/2009			0.4 J	5.7		TVOL
	12/4/2009	ND	ND			0.27	5242SIM
	12/4/2009			ND	5.1		TVOL
	3/24/2010	ND	ND			0.33	5242SIM
	3/24/2010			ND	4.6		TVOL
	6/15/2010	ND	ND			0.27	5242SIM
	6/15/2010			ND	ND		TVOL
	10/1/2010	ND	ND			0.22	5242SIM
	10/1/2010			0.67	8.7		TVOL
	12/13/2010	ND	ND			0.18	5242SIM
	12/13/2010			1.1	17 J		TVOL
	3/4/2011	ND	ND			0.26	5242SIM
	3/4/2011			0.74	10		TVOL
	6/22/2011	ND	ND			0.26	5242SIM
	6/22/2011			ND	10		TVOL
	09/22/2011			0.35 J	4.4 J		TVOL
	09/22/2011	< 0.01	< 0.005			0.21 J	E524.2S
	12/13/2011			< 0.5	4.6		TVOL
	12/13/2011	< 0.01	< 0.005			0.2	E524.2S
OW-4C	12/7/1995	ND	0.03 J				504.1
	12/7/1995			2 J	38		624/25ML
	5/31/1996	0.03 J	0.21				504.1
	5/31/1996			1	11		624/25ML
	10/7/1996	0.25 J	0.25 J				504.1
	10/7/1996			ND	3		624/25ML
	3/31/1997	ND	ND				504.1
	3/31/1997			ND	ND		624/25ML
	6/27/1997	ND	ND				504.1
	6/27/1997			0.6 J	ND	ND	624/25ML
	10/21/1997	ND	ND				504.1
	10/21/1997			ND	0.5	ND	624/25ML
	5/20/1998	ND	ND				504.1
	5/20/1998			ND	ND	ND	624/25ML
	8/18/1998	ND	ND				504.1
	8/18/1998			0.6 J	0.8	ND	624/25ML

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/2/1998	ND	ND				504.1
	12/2/1998			0.6 J	ND	ND	624/25ML
	3/17/1999	ND	ND				504.1
	3/17/1999			ND	ND	ND	624/25ML
	6/29/1999	ND	ND				504.1
	6/29/1999			0.6 J	1.2	ND	624/25ML
	9/14/1999	ND	ND				504.1
	9/14/1999			0.6 J	0.3 J	ND	624/25ML
	12/20/1999	ND	ND				504.1
	12/20/1999			0.7 J	ND	ND	624/25ML
	3/28/2000	ND	ND				504.1
	3/28/2000			1	ND	ND	624/25ML
	6/30/2000	ND	ND				504.1
	6/30/2000			3	0.9	ND	524.2
	10/11/2000	ND	ND				504.1
	10/11/2000			ND	6	ND	524.2
	12/15/2000	ND	ND				504.1
	12/15/2000			2	9.4	ND	524.2
	4/25/2001	ND	ND				504.1
	4/25/2001			2	ND	ND	524.2
	6/14/2001	ND	ND				504.1
	6/14/2001			0.8 J	4	ND	524.2
	10/3/2001	ND	ND				504.1
	10/3/2001			ND	8	ND	524.2
	1/21/2002	ND	0.04				504.1
	1/21/2002			0.6 J	5.3	ND	524.2
	4/2/2002	ND	ND				504.1
	4/2/2002			1	2.9	ND	524.2
	6/27/2002	ND	ND				504.1
	6/27/2002			1	3.1	ND	524.2
	9/20/2002	ND	ND				504.1
	9/20/2002			0.9 J	2.7	ND	524.2
	12/19/2002	ND	ND				504.1
	12/19/2002			1	1.5	ND	524.2
	3/24/2003	ND	ND				504.1
	3/24/2003			1	2		VOCS
	6/19/2003	ND	ND				504.1
	6/19/2003			0.96	2.2		OLC03.2
	9/16/2003	ND	ND				504.1
	9/16/2003			0.76	1.1	ND	OLC03.2
	12/12/2003	ND	ND				504.1
	12/12/2003			0.73	0.9	ND	OLC03.2
	3/10/2004	ND	ND				504.1
	3/10/2004			0.86	1.3	ND	OLC03.2
	6/14/2004	ND	0.015 J				504.1
	6/14/2004			0.79	1.2	ND	OLC03.2
	9/16/2004	ND	ND				504.1
	9/16/2004			0.64	0.8	ND	OLC03.2
	12/1/2004	ND	ND				504.1
	12/1/2004			0.5	0.55	ND	OLC03.2
	3/9/2005	ND	ND				504.1
	3/9/2005			0.61	0.48 J	ND	OLC03.2
	6/6/2005	ND	ND				504.1
	6/6/2005			0.6	0.46 J	ND	OLC03.2
	9/20/2005	ND	ND				504.1
	9/20/2005			0.53	0.41 J	ND	OLC032
	12/12/2005	ND	ND				504.1
	12/12/2005			0.58	0.43 J	ND	OLC032
	3/7/2006	ND	ND				504.1
	3/7/2006			0.54	0.3 J	ND	OLC032
	6/7/2006	ND	ND				504.1
	6/7/2006			0.47 J	0.41 J	ND	OLC032
	10/3/2006	ND	ND				504.1
	10/3/2006			ND	ND	ND	TVOL
	12/28/2006	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/28/2006			0.42 J	ND	ND	TVOL
	3/15/2007	ND	ND				504.1
	3/15/2007			0.68 J	0.39 J	ND	TVOL
	6/7/2007	ND	ND				504.1
	6/7/2007			0.58 R	0.32 R	ND	TVOL
	10/3/2007	ND	ND				504.1
	10/3/2007			ND	ND	ND	TVOL
	12/17/2007	ND	ND				504.1
	12/17/2007			0.43 J	0.17 J	ND	TVOL
	3/13/2008	ND	ND				504.1
	3/13/2008			0.43 J	0.21 J	ND	TVOL
	6/4/2008	ND	ND				504.1
	6/4/2008			0.38 J	0.16 J	ND	TVOL
	9/19/2008	ND	ND				504.1
	9/19/2008			0.51	0.24 J	ND	TVOL
	12/9/2008	ND	ND				504.1
	12/9/2008			ND	ND	ND	TVOL
	3/13/2009	ND	ND				5041
	3/13/2009					0.0038 J	524.2 SIM
	3/13/2009			ND	ND		TVOL
	5/27/2009	ND	ND				5041
	5/27/2009					0.01	5242SIM
	5/27/2009			0.27 J	ND		TVOL
	10/1/2009	ND	ND			0.004 J	5242SIM
	10/1/2009			ND	ND		TVOL
	12/4/2009	ND	ND			0.0041 J	5242SIM
	12/4/2009			ND	ND		TVOL
	3/24/2010	ND	ND			0.0076	5242SIM
	3/24/2010			ND	ND		TVOL
	6/15/2010	ND	ND			0.0038 J	5242SIM
	6/15/2010			ND	ND		TVOL
	10/1/2010	ND	ND			0.0036 J	5242SIM
	10/1/2010			ND	ND		TVOL
	12/13/2010	ND	ND			0.0028 J	5242SIM
	12/13/2010			0.4 J	ND		TVOL
	3/4/2011	ND	ND			0.0035 J	5242SIM
	3/4/2011			0.27 J	ND		TVOL
	6/22/2011	ND	ND			0.0042 J	5242SIM
	6/22/2011			ND	ND		TVOL
	09/22/2011	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	TVOL
	09/22/2011	< 0.01	< 0.005			0.0042 J	E524.2S
	12/13/2011	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	TVOL
	12/13/2011	< 0.01	< 0.005			0.0043 J	E524.2S
OW-5A	11/6/1997	ND	ND				504.1
	11/6/1997			ND	ND	ND	624/25ML
	1/29/1998	ND	ND				504.1
	1/29/1998			ND	ND	ND	624/25ML
	5/21/1998	ND	ND				504.1
	5/21/1998			0.5 J	ND	ND	624/25ML
	8/19/1998	ND	ND				504.1
	8/20/1998	1 J	ND	ND	ND	ND	624/25ML
	12/1/1998	ND	ND				504.1
	12/1/1998			ND	ND	ND	624/25ML
	3/18/1999	ND	ND				504.1
	3/18/1999			ND	ND	ND	624/25ML
	6/23/1999	ND	ND				504.1
	6/23/1999			ND	0.4	ND	624/25ML
	9/8/1999	ND	ND				504.1
	9/8/1999			ND	0.3 J	ND	624/25ML
	12/14/1999	ND	ND				504.1
	12/14/1999			ND	ND	ND	624/25ML
	3/30/2000	ND	ND				504.1
	3/30/2000			ND	ND	ND	624/25ML
	6/23/2000	ND	ND				504.1
	6/23/2000			ND	ND	ND	524.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	9/29/2000	ND	ND				504.1
	9/29/2000			ND	ND	ND	524.2
	12/7/2000	ND	ND				504.1
	12/7/2000			ND	ND	ND	524.2
	4/18/2001	ND	ND				504.1
	4/18/2001			ND	ND	ND	524.2
	6/7/2001	ND	ND				504.1
	6/7/2001			ND	ND	ND	524.2
	9/26/2001	ND	ND				504.1
	9/26/2001			ND	ND	ND	524.2
	1/10/2002	ND	ND				504.1
	1/10/2002			ND	ND	ND	524.2
	3/19/2002	ND	ND				504.1
	3/19/2002			ND	ND	ND	524.2
	6/20/2002	ND	ND				504.1
	6/20/2002			ND	ND	ND	524.2
	9/17/2002	ND	ND				504.1
	9/17/2002			ND	ND	ND	524.2
	12/13/2002	ND	ND				504.1
	12/13/2002			ND	ND	ND	524.2
	3/14/2003	ND	ND				504.1
	3/14/2003			ND	ND		OLC03.2
	3/14/2003		ND				VOCS
	6/10/2003	ND	ND				504.1
	6/10/2003			ND	ND		OLC03.2
	9/12/2003	ND	ND				504.1
	9/12/2003			ND	ND	ND	OLC03.2
	12/10/2003	ND	ND				504.1
	12/10/2003			ND	ND	ND	OLC03.2
	3/8/2004	ND	ND				504.1
	3/8/2004			ND	ND	ND	OLC03.2
	6/8/2004	ND	ND				504.1
	6/8/2004			ND	ND	ND	OLC03.2
	9/24/2004	ND	ND				504.1
	9/24/2004			ND	ND	ND	OLC03.2
	12/3/2004	ND	ND				504.1
	12/3/2004			ND	ND	ND	OLC03.2
	3/7/2005	ND	ND				504.1
	3/7/2005			ND	ND	ND	OLC03.2
	6/8/2005	ND	ND				504.1
	6/8/2005			ND	ND	ND	OLC03.2
	9/14/2005	ND	ND				504.1
	9/14/2005			ND	ND	ND	OLC032
	12/6/2005	ND	ND				504.1
	12/6/2005			ND	ND	ND	OLC032
	3/1/2006	ND	ND				504.1
	3/1/2006			ND	ND	ND	OLC032
	6/5/2006	ND	ND				504.1
	6/5/2006			ND	ND	ND	OLC032
	9/27/2006	ND	ND				504.1
	9/27/2006			ND	ND	ND	TVOL
	12/22/2006	ND	ND				504.1
	12/22/2006			ND	ND	ND	TVOL
	2/28/2007	ND	ND				504.1
	2/28/2007			ND	ND	ND	TVOL
	6/6/2007	ND	ND				504.1
	6/6/2007			ND	ND	ND	TVOL
	10/9/2007	ND	ND				504.1
	10/9/2007			ND	ND	ND	TVOL
	12/11/2007	ND	ND				504.1
	12/11/2007			ND	ND	ND	TVOL
	3/17/2008	ND	ND				504.1
	3/17/2008			ND	ND	ND	TVOL
	5/30/2008	ND	ND				504.1
	5/30/2008			ND	ND	ND	TVOL

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	10/2/2008	ND	ND				504.1
	10/2/2008			ND	ND	ND	TVOL
	12/17/2008	ND	ND				504.1
	12/17/2008			ND	ND	ND	TVOL
	3/9/2009	ND	ND				5041
	3/9/2009					ND	524.2 SIM
	3/9/2009			ND	ND		TVOL
	5/29/2009	ND	ND				5041
	5/29/2009					ND	5242SIM
	5/29/2009			ND	ND		TVOL
	9/21/2009	ND	ND			ND	5242SIM
	9/21/2009			ND	ND		TVOL
	12/10/2009	ND	ND			ND	5242SIM
	12/10/2009			ND	ND		TVOL
	3/24/2010	ND	ND			ND	5242SIM
	3/24/2010			ND	ND		TVOL
	6/16/2010	ND	ND			ND	5242SIM
	6/16/2010			ND	ND		TVOL
	9/29/2010	ND	ND			ND	5242SIM
	9/29/2010			ND	ND		TVOL
	12/2/2010	ND	ND			ND	5242SIM
	12/2/2010			ND	ND		TVOL
	3/14/2011	ND	ND			ND	5242SIM
	3/14/2011			ND	ND		TVOL
	7/8/2011	ND	ND			ND	5242SIM
	7/8/2011			ND	ND		TVOL
	09/30/2011			< 0.5	< 0.5		TVOL
	09/30/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/13/2011			< 0.5	< 0.5		TVOL
	12/13/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-5B	11/6/1997	ND	ND				504.1
	11/6/1997			ND	ND	ND	624/25ML
	1/29/1998	ND	ND				504.1
	1/29/1998			0.3 J	ND	ND	624/25ML
	5/21/1998	ND	0.13				504.1
	5/21/1998			1	ND	ND	624/25ML
	8/19/1998	0.01 J	ND				504.1
	8/20/1998	1 J	1 J	1 J	0.5 J	1 J	624/25ML
	12/3/1998	ND	ND				504.1
	12/3/1998			ND	ND	ND	624/25ML
	3/18/1999	ND	0.03 J				504.1
	3/18/1999			ND	ND	ND	624/25ML
	6/23/1999	ND	ND				504.1
	6/23/1999			ND	ND	ND	624/25ML
	9/8/1999	ND	ND				504.1
	9/8/1999			ND	ND	ND	624/25ML
	12/14/1999	ND	ND				504.1
	12/14/1999			ND	ND	ND	624/25ML
	3/30/2000	ND	ND				504.1
	3/30/2000			ND	ND	ND	624/25ML
	6/23/2000	ND	ND				504.1
	6/23/2000			ND	ND	ND	524.2
	9/29/2000	ND	ND				504.1
	9/29/2000			ND	ND	ND	524.2
	12/7/2000	ND	ND				504.1
	12/7/2000			ND	ND	ND	524.2
	4/18/2001	ND	ND				504.1
	4/18/2001			ND	ND	ND	524.2
	6/7/2001	ND	ND				504.1
	6/7/2001			ND	ND	ND	524.2
	9/26/2001	ND	ND				504.1
	9/26/2001			ND	ND	ND	524.2
	1/10/2002	ND	ND				504.1
	1/10/2002			ND	ND	ND	524.2
	3/19/2002	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/19/2002			ND	ND	ND	524.2
	6/20/2002	ND	ND				504.1
	6/20/2002			ND	ND	ND	524.2
	9/17/2002	ND	ND				504.1
	9/17/2002			ND	ND	ND	524.2
	12/13/2002	ND	ND				504.1
	12/13/2002			ND	ND	ND	524.2
	3/14/2003	ND	ND				504.1
	3/14/2003			0.1 J	ND		OLC03.2
	3/14/2003		ND				VOCS
	6/16/2003	ND	ND				504.1
	6/16/2003			0.09 J	ND		OLC03.2
	9/17/2003	ND	ND				504.1
	9/17/2003			ND	ND	ND	OLC03.2
	12/10/2003	ND	ND				504.1
	12/10/2003			0.1 J	ND	0.091 J	OLC03.2
	3/8/2004	ND	ND				504.1
	3/8/2004			0.096 J	ND	ND	OLC03.2
	6/8/2004	ND	ND				504.1
	6/8/2004			ND	ND	ND	OLC03.2
	9/24/2004	ND	ND				504.1
	9/24/2004			ND	ND	ND	OLC03.2
	12/3/2004	ND	ND				504.1
	12/3/2004			ND	ND	ND	OLC03.2
	3/7/2005	ND	ND				504.1
	3/7/2005			ND	ND	ND	OLC03.2
	6/8/2005	ND	ND				504.1
	6/8/2005			ND	ND	ND	OLC03.2
	9/14/2005	ND	ND				504.1
	9/14/2005			ND	ND	ND	OLC032
	12/6/2005	ND	ND				504.1
	12/6/2005			0.088 J	ND	ND	OLC032
	3/1/2006	ND	ND				504.1
	3/1/2006			ND	ND	ND	OLC032
	6/5/2006	ND	ND				504.1
	6/5/2006			ND	ND	ND	OLC032
	9/27/2006	ND	ND				504.1
	9/27/2006			ND	ND	ND	TVOL
	12/22/2006	ND	ND				504.1
	12/22/2006			ND	ND	ND	TVOL
	2/28/2007	ND	ND				504.1
	2/28/2007			ND	ND	ND	TVOL
	6/6/2007	ND	ND				504.1
	6/6/2007			ND	ND	ND	TVOL
	10/9/2007	ND	ND				504.1
	10/9/2007			ND	ND	ND	TVOL
	12/11/2007	ND	ND				504.1
	12/11/2007			ND	ND	ND	TVOL
	3/17/2008	ND	ND				504.1
	3/17/2008			ND	ND	ND	TVOL
	5/30/2008	ND	ND				504.1
	5/30/2008			ND	ND	ND	TVOL
	10/2/2008	ND	ND				504.1
	10/2/2008			ND	ND	ND	TVOL
	12/17/2008	ND	ND				504.1
	12/17/2008			ND	ND	ND	TVOL
	3/9/2009	ND	ND				5041
	3/9/2009					ND	524.2 SIM
	3/9/2009			ND	ND		TVOL
	5/29/2009	ND	ND				5041
	5/29/2009					ND	5242SIM
	5/29/2009			ND	ND		TVOL
	9/21/2009	ND	ND			ND	5242SIM
	9/21/2009			ND	ND		TVOL
	12/10/2009	ND	ND			ND	5242SIM

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/10/2009			ND	ND		TVOL
	3/24/2010	ND	ND			ND	5242SIM
	3/24/2010			ND	ND		TVOL
	6/16/2010	ND	ND			ND	5242SIM
	6/16/2010			ND	ND		TVOL
	9/29/2010	ND	ND			ND	5242SIM
	9/29/2010			ND	ND		TVOL
	12/2/2010	ND	ND			ND	5242SIM
	12/2/2010			ND	ND		TVOL
	3/14/2011	ND	ND			ND	5242SIM
	3/14/2011			ND	ND		TVOL
	7/8/2011	ND	ND			ND	5242SIM
	7/8/2011			ND	ND		TVOL
	09/30/2011			< 0.5	< 0.5		TVOL
	09/30/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/13/2011			< 0.5	< 0.5		TVOL
	12/13/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-5C	11/6/1997	ND	ND				504.1
	11/6/1997			0.3 J	ND	ND	624/25ML
	1/29/1998	ND	ND				504.1
	1/29/1998			0.3 J	ND	ND	624/25ML
	5/21/1998	ND	0.26				504.1
	5/21/1998			5	ND	ND	624/25ML
	8/20/1998	ND	0.03 J				504.1
	8/20/1998			2	ND	ND	624/25ML
	12/3/1998	0.2 J	4.8 J				504.1
	12/3/1998			ND	ND	ND	624/25ML
	3/18/1999	ND	1.8				504.1
	3/18/1999			21	ND	ND	624/25ML
	6/23/1999	ND	0.38				504.1
	6/23/1999			6	ND	ND	624/25ML
	9/8/1999	ND	0.09 J				504.1
	9/8/1999			2	ND	ND	624/25ML
	12/14/1999	ND	ND				504.1
	12/14/1999			ND	ND	ND	624/25ML
	3/30/2000	ND	ND				504.1
	3/30/2000			0.5 J	0.3 J	ND	624/25ML
	6/23/2000	ND	ND				504.1
	6/23/2000			ND	ND	ND	524.2
	9/29/2000	ND	ND				504.1
	9/29/2000			ND	ND	ND	524.2
	12/7/2000	ND	ND				504.1
	12/7/2000			ND	ND	ND	524.2
	4/18/2001	ND	ND				504.1
	4/18/2001			ND	ND	ND	524.2
	6/7/2001	ND	ND				504.1
	6/7/2001			ND	ND	ND	524.2
	9/26/2001	ND	ND				504.1
	9/26/2001			ND	ND	ND	524.2
	1/10/2002	ND	ND				504.1
	1/10/2002			ND	ND	ND	524.2
	3/19/2002	ND	ND				504.1
	3/19/2002			ND	ND	ND	524.2
	6/20/2002	ND	ND				504.1
	6/20/2002			ND	ND	ND	524.2
	9/17/2002	ND	ND				504.1
	9/17/2002			ND	ND	ND	524.2
	12/13/2002	ND	ND				504.1
	12/13/2002			ND	ND	ND	524.2
	3/14/2003	ND	ND				504.1
	3/14/2003			0.3 J	0.1 J		OLC03.2
	3/14/2003		ND				VOCS
	6/16/2003	ND	ND				504.1
	6/16/2003			0.12 J	ND		OLC03.2
	9/16/2003	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	9/16/2003			0.11 J	0.099 J	ND	OLC03.2
	12/10/2003	ND	ND				504.1
	12/10/2003			0.19 J	ND	ND	OLC03.2
	3/8/2004	ND	ND				504.1
	3/8/2004			0.15 J	ND	ND	OLC03.2
	6/8/2004	ND	ND				504.1
	6/8/2004			ND	ND	ND	OLC03.2
	9/24/2004	ND	ND				504.1
	9/24/2004			ND	ND	ND	OLC03.2
	12/3/2004	ND	ND				504.1
	12/3/2004			ND	ND	ND	OLC03.2
	3/7/2005	ND	ND				504.1
	3/7/2005			ND	ND	ND	OLC03.2
	6/8/2005	ND	ND				504.1
	6/8/2005			ND	ND	ND	OLC03.2
	9/14/2005	ND	ND				504.1
	9/14/2005			ND	ND	ND	OLC032
	12/6/2005	ND	ND				504.1
	12/6/2005			ND	ND	ND	OLC032
	3/1/2006	ND	ND				504.1
	3/1/2006			ND	ND	ND	OLC032
	6/5/2006	ND	ND				504.1
	6/5/2006			ND	ND	ND	OLC032
	9/27/2006	ND	ND				504.1
	9/27/2006			ND	ND	ND	TVOL
	12/22/2006	ND	ND				504.1
	12/22/2006			ND	ND	ND	TVOL
	2/28/2007	ND	ND				504.1
	2/28/2007			ND	ND	ND	TVOL
	6/6/2007	ND	ND				504.1
	6/6/2007			ND	ND	ND	TVOL
	10/2/2007	ND	ND				504.1
	10/2/2007			ND	ND	ND	TVOL
	12/11/2007	ND	ND				504.1
	12/11/2007			ND	ND	ND	TVOL
	3/17/2008	ND	ND				504.1
	3/17/2008			ND	ND	ND	TVOL
	5/30/2008	ND	ND				504.1
	5/30/2008			ND	ND	ND	TVOL
	10/2/2008	ND	ND				504.1
	10/2/2008			ND	ND	ND	TVOL
	12/17/2008	ND	ND				504.1
	12/17/2008			ND	ND	ND	TVOL
	3/9/2009	ND	ND				5041
	3/9/2009					ND	524.2 SIM
	3/9/2009			ND	ND		TVOL
	6/1/2009	ND	ND				5041
	6/1/2009					ND	5242SIM
	6/1/2009			ND	ND		TVOL
	9/21/2009	ND	ND			ND	5242SIM
	9/21/2009			ND	ND		TVOL
	12/10/2009	ND	ND			ND	5242SIM
	12/10/2009			ND	ND		TVOL
	3/24/2010	ND	ND			ND	5242SIM
	3/24/2010			ND	ND		TVOL
	6/16/2010	ND	ND			ND	5242SIM
	6/16/2010			ND	ND		TVOL
	9/29/2010	ND	ND			ND	5242SIM
	9/29/2010			ND	ND		TVOL
	12/2/2010	ND	ND			ND	5242SIM
	12/2/2010			ND	ND		TVOL
	3/14/2011	ND	ND			ND	5242SIM
	3/14/2011			ND	ND		TVOL
	7/8/2011	ND	ND			ND	5242SIM
	7/8/2011			ND	ND		TVOL

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	09/30/2011			< 0.5	< 0.5		TVOL
	09/30/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/13/2011			< 0.5	< 0.5		TVOL
	12/13/2011	0.0062 J	< 0.005			< 0.005	E524.2S
OW-6A	11/6/1997	ND	ND				504.1
	11/6/1997	ND	ND	0.3 J	32	ND	624/25ML
	1/29/1998	ND	ND				504.1
	1/29/1998			0.3 J	26	ND	624/25ML
	5/21/1998	ND	ND				504.1
	5/21/1998			1	1	ND	624/25ML
	8/20/1998	ND	ND				504.1
	8/20/1998			ND	3	ND	624/25ML
	12/3/1998	ND	0.14				504.1
	12/3/1998			ND	10	ND	624/25ML
	3/18/1999	ND	0.92				504.1
	3/18/1999			6	5	ND	624/25ML
	6/22/1999	ND	ND				504.1
	6/22/1999			ND	0.9	ND	624/25ML
	9/8/1999	ND	ND				504.1
	9/8/1999			0.5 J	2	ND	624/25ML
	12/14/1999	ND	ND				504.1
	12/14/1999			ND	5	ND	624/25ML
	3/29/2000	ND	ND				504.1
	3/29/2000			ND	32	ND	624/25ML
	6/29/2000	ND	ND				504.1
	6/29/2000			ND	34	ND	524.2
	10/10/2000	ND	0.08				504.1
	10/10/2000			ND	22	ND	524.2
	4/24/2001	ND	ND				504.1
	4/24/2001			ND	24	ND	524.2
	6/13/2001	ND	ND				504.1
	6/13/2001			ND	24	ND	524.2
	10/1/2001	ND	ND				504.1
	10/1/2001			ND	31	ND	524.2
	1/17/2002	ND	ND				504.1
	1/17/2002			ND	25	ND	524.2
	4/3/2002	ND	ND				504.1
	4/3/2002			ND	23	ND	524.2
	6/28/2002	ND	ND				504.1
	6/28/2002			ND	20	ND	524.2
	9/23/2002	ND	ND				504.1
	9/23/2002			ND	18	ND	524.2
	12/20/2002	ND	ND				504.1
	12/20/2002			ND	11	ND	524.2
	3/24/2003	ND	ND				504.1
	3/24/2003			0.2 J	13		VOCS
	6/23/2003	ND	ND				504.1
	6/23/2003			0.21 J	13		OLC03.2
	9/18/2003	ND	ND				504.1
	9/18/2003			0.2 J	12	ND	OLC03.2
	12/17/2003	ND	ND				504.1
	12/17/2003			0.22 J	13	ND	OLC03.2
	3/8/2004	ND	ND				504.1
	3/8/2004			0.22 J	10	ND	OLC03.2
	6/8/2004	ND	ND				504.1
	6/8/2004			0.15 J	7.9	ND	OLC03.2
	10/4/2004	ND	ND				504.1
	10/4/2004			ND	6.3	ND	OLC03.2
	12/9/2004	ND	ND				504.1
	12/9/2004			ND	4	ND	OLC03.2
	3/9/2005	ND	ND				504.1
	3/9/2005			ND	1.9	ND	OLC03.2
	6/10/2005	ND	ND				504.1
	6/10/2005			ND	4.8	ND	OLC03.2
	9/15/2005	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	9/15/2005			ND	3.9	ND	OLC032
	12/5/2005	ND	ND				504.1
	12/5/2005			0.081 J	2.3	ND	OLC032
	3/2/2006	ND	ND				504.1
	3/2/2006			ND	1.9	ND	OLC032
	6/7/2006	ND	ND				504.1
	6/7/2006			ND	2.6	ND	OLC032
	10/4/2006	ND	ND				504.1
	10/4/2006			ND	1.5	ND	TVOL
	12/26/2006	ND	ND				504.1
	12/26/2006			ND	1.6	ND	TVOL
	3/1/2007	ND	ND				504.1
	3/1/2007			ND	2.1	ND	TVOL
	6/5/2007	ND	ND				504.1
	6/5/2007			ND	1.4 J	ND	TVOL
	10/10/2007	ND	ND				504.1
	10/10/2007			ND	1.5	ND	TVOL
	12/14/2007	ND	ND				504.1
	12/14/2007			ND	0.88	ND	TVOL
	3/18/2008	ND	ND				504.1
	3/18/2008			ND	1.5	ND	TVOL
	6/2/2008	ND	ND				504.1
	6/2/2008			ND	1.4	ND	TVOL
	10/6/2008	ND	ND				504.1
	10/6/2008			ND	1.6 J	ND	TVOL
	12/18/2008	ND	ND				504.1
	12/18/2008			ND	ND	ND	TVOL
	3/6/2009	ND	ND				5041
	3/6/2009					0.0026 J	524.2 SIM
	3/6/2009			ND	0.88		TVOL
	6/1/2009	ND	ND				5041
	6/1/2009					ND	5242SIM
	6/1/2009			ND	0.77 J		TVOL
	9/22/2009	ND	ND			ND	5242SIM
	9/22/2009			ND	0.31 J		TVOL
	12/10/2009	ND	ND			ND	5242SIM
	12/10/2009			ND	0.35 J		TVOL
	3/26/2010	ND	ND			0.0028 J	5242SIM
	3/26/2010			ND	0.28 J		TVOL
	6/22/2010	ND	ND			ND	5242SIM
	6/22/2010			ND	ND		TVOL
	10/7/2010	ND	ND			ND	5242SIM
	10/7/2010			ND	ND		TVOL
	12/13/2010	ND	ND			ND	5242SIM
	12/13/2010			ND	0.34 J		TVOL
	3/16/2011	ND	ND			ND	5242SIM
	3/16/2011			ND	ND		TVOL
	7/8/2011	ND	ND			ND	5242SIM
	7/8/2011			ND	ND		TVOL
	09/28/2011			< 0.5	< 0.5		TVOL
	09/28/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/14/2011			< 0.5	< 0.5		TVOL
	12/14/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-6B	11/6/1997	ND	ND				504.1
	11/6/1997			ND	ND	ND	624/25ML
	1/29/1998	ND	ND				504.1
	1/29/1998			ND	ND	ND	624/25ML
	5/21/1998	ND	ND				504.1
	5/21/1998			ND	ND	ND	624/25ML
	8/19/1998	ND	ND				504.1
	8/20/1998	1 J	ND	ND	ND	ND	624/25ML
	12/3/1998	ND	0.04 J				504.1
	12/3/1998			ND	ND	ND	624/25ML
	3/18/1999	ND	0.27				504.1
	3/18/1999			1	ND	ND	624/25ML

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/22/1999	ND	0.06				504.1
	6/22/1999			0.6 J	0.5	ND	624/25ML
	9/8/1999	ND	ND				504.1
	9/8/1999			ND	ND	ND	624/25ML
	12/14/1999	ND	ND				504.1
	12/14/1999			ND	ND	ND	624/25ML
	3/29/2000	ND	ND				504.1
	3/29/2000			ND	0.6	ND	624/25ML
	6/29/2000	ND	ND				504.1
	6/29/2000			ND	ND	ND	524.2
	10/10/2000	ND	0.55				504.1
	10/10/2000			0.5 J	ND	ND	524.2
	12/13/2000	ND	0.03 J				504.1
	12/13/2000			ND	ND	ND	524.2
	4/24/2001	ND	ND				504.1
	4/24/2001			ND	ND	ND	524.2
	6/13/2001	ND	0.04				504.1
	6/13/2001			ND	ND	ND	524.2
	10/1/2001	ND	ND				504.1
	10/1/2001			ND	ND	ND	524.2
	1/17/2002	ND	ND				504.1
	1/17/2002			ND	ND	ND	524.2
	3/21/2002	ND	ND				504.1
	3/21/2002			ND	ND	ND	524.2
	9/16/2002	ND	ND				504.1
	9/16/2002			ND	ND	ND	524.2
	3/13/2003	ND	ND				504.1
	3/13/2003			ND	ND		OLC03.2
	3/13/2003		ND				VOCS
	9/12/2003	ND	ND				504.1
	9/12/2003			ND	ND	ND	OLC03.2
	3/8/2004	ND	ND				504.1
	3/8/2004			ND	ND	ND	OLC03.2
	10/4/2004	ND	ND				504.1
	10/4/2004			ND	ND	ND	OLC03.2
	3/9/2005	ND	ND				504.1
	3/9/2005			ND	ND	ND	OLC03.2
	9/15/2005	ND	ND				504.1
	9/15/2005			ND	ND	ND	OLC032
	3/2/2006	ND	ND				504.1
	3/2/2006			ND	ND	ND	OLC032
	10/4/2006	ND	ND				504.1
	10/4/2006			ND	ND	ND	TVOL
	3/1/2007	ND	ND				504.1
	3/1/2007			ND	ND	ND	TVOL
	10/10/2007	ND	ND				504.1
	10/10/2007			ND	ND	ND	TVOL
	3/18/2008	ND	ND				504.1
	3/18/2008			ND	ND	ND	TVOL
	10/6/2008	ND	ND				504.1
	10/6/2008			ND	ND	ND	TVOL
	3/6/2009	ND	ND				5041
	3/6/2009					ND	524.2 SIM
	3/6/2009			ND	ND		TVOL
	9/22/2009	ND	ND			ND	5242SIM
	9/22/2009			ND	ND		TVOL
	3/26/2010	ND	ND			0.003 J	5242SIM
	3/26/2010			ND	ND		TVOL
	10/7/2010	ND	ND			ND	5242SIM
	10/7/2010			ND	ND		TVOL
	3/16/2011	ND	ND			ND	5242SIM
	3/16/2011			ND	ND		TVOL
	09/28/2011			< 0.5	< 0.5		TVOL
	09/28/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-6C	11/6/1997	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	11/6/1997			ND	ND	ND	624/25ML
	1/29/1998	ND	ND				504.1
	1/29/1998			ND	ND	ND	624/25ML
	5/21/1998	ND	ND				504.1
	5/21/1998			ND	ND	ND	624/25ML
	8/20/1998	ND	ND				504.1
	8/20/1998			ND	ND	ND	624/25ML
	12/4/1998	ND	0.24				504.1
	12/4/1998			3	ND	ND	624/25ML
	3/18/1999	ND	0.45				504.1
	3/18/1999			3	ND	ND	624/25ML
	6/22/1999	ND	ND				504.1
	6/22/1999			0.6 J	0.8	ND	624/25ML
	9/8/1999	ND	ND				504.1
	9/8/1999			1	ND	ND	624/25ML
	12/14/1999	ND	ND				504.1
	12/14/1999			1	ND	ND	624/25ML
	3/29/2000	ND	ND				504.1
	3/29/2000			ND	ND	ND	624/25ML
	6/29/2000	ND	ND				504.1
	6/29/2000			ND	ND	ND	524.2
	10/10/2000	ND	0.01 J				504.1
	10/10/2000			ND	ND	ND	524.2
	12/13/2000	ND	ND				504.1
	12/13/2000			ND	ND	ND	524.2
	4/24/2001	ND	ND				504.1
	4/24/2001			ND	ND	ND	524.2
	6/13/2001	ND	0.03				504.1
	6/13/2001			ND	ND	ND	524.2
	10/1/2001	ND	ND				504.1
	10/1/2001			ND	ND	ND	524.2
	1/17/2002	ND	ND				504.1
	1/17/2002			ND	ND	ND	524.2
	3/21/2002	ND	ND				504.1
	3/21/2002			ND	ND	ND	524.2
	9/16/2002	ND	ND				504.1
	9/16/2002			ND	ND	ND	524.2
	3/13/2003	ND	ND				504.1
	3/13/2003			ND	ND		OLC03.2
	3/13/2003		ND				VOCS
	9/16/2003	ND	ND				504.1
	9/16/2003			ND	ND	ND	OLC03.2
	3/8/2004	ND	ND				504.1
	3/8/2004			ND	ND	ND	OLC03.2
	10/4/2004	ND	ND				504.1
	10/4/2004			ND	ND	ND	OLC03.2
	3/9/2005	ND	ND				504.1
	3/9/2005			ND	ND	ND	OLC03.2
	9/15/2005	ND	ND				504.1
	9/15/2005			ND	ND	ND	OLC032
	3/2/2006	ND	ND				504.1
	3/2/2006			ND	ND	ND	OLC032
	10/4/2006	ND	ND				504.1
	10/4/2006			ND	ND	ND	TVOL
	3/1/2007	ND	ND				504.1
	3/1/2007			ND	ND	ND	TVOL
	10/10/2007	ND	ND				504.1
	10/10/2007			ND	ND	ND	TVOL
	3/18/2008	ND	ND				504.1
	3/18/2008			ND	ND	ND	TVOL
	10/6/2008	ND	ND				504.1
	10/6/2008			ND	ND	ND	TVOL
	3/6/2009	ND	ND				5041
	3/6/2009					ND	524.2 SIM
	3/6/2009			ND	ND		TVOL

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	9/22/2009	ND	ND			ND	5242SIM
	9/22/2009			ND	ND		TVOL
	3/26/2010	ND	ND			ND	5242SIM
	3/26/2010			ND	ND		TVOL
	10/7/2010	ND	ND			ND	5242SIM
	10/7/2010			ND	0.34 J		TVOL
	3/16/2011	ND	ND			ND	5242SIM
	3/16/2011			ND	ND		TVOL
	09/28/2011			< 0.5	< 0.5		TVOL
	09/28/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-7A	11/10/1997	0.04 J	0.98 J				504.1
	11/10/1997			5	ND	ND	624/25ML
	1/29/1998	ND	ND				504.1
	1/29/1998			ND	ND	ND	624/25ML
	5/21/1998	ND	ND				504.1
	5/21/1998			ND	ND	ND	624/25ML
	8/20/1998	ND	ND				504.1
	8/20/1998			ND	ND	ND	624/25ML
	12/3/1998	ND	0.14				504.1
	12/3/1998			0.7 J	ND	ND	624/25ML
	3/18/1999	ND	0.14				504.1
	3/18/1999			0.8 J	ND	ND	624/25ML
	6/23/1999	ND	ND				504.1
	6/23/1999			ND	ND	ND	624/25ML
	9/8/1999	ND	ND				504.1
	9/8/1999			ND	ND	ND	624/25ML
	12/15/1999	ND	ND				504.1
	12/15/1999			ND	ND	ND	624/25ML
	3/28/2000	ND	ND				504.1
	3/28/2000			ND	ND	ND	624/25ML
	6/30/2000	ND	ND				504.1
	6/30/2000			ND	ND	ND	524.2
	10/10/2000	ND	0.25				504.1
	10/10/2000			ND	ND	ND	524.2
	12/14/2000	ND	ND				504.1
	12/14/2000			ND	ND	ND	524.2
	4/24/2001	ND	ND				504.1
	4/24/2001			ND	ND	ND	524.2
	6/13/2001	0.01 J	0.09				504.1
	6/13/2001			0.9 J	ND	ND	524.2
	10/2/2001	ND	ND				504.1
	10/2/2001			ND	ND	ND	524.2
	1/21/2002	ND	0.04				504.1
	1/21/2002			ND	ND	ND	524.2
	4/1/2002	ND	ND				504.1
	4/1/2002			ND	ND	ND	524.2
	9/18/2002	ND	ND				504.1
	9/18/2002			ND	ND	ND	524.2
	9/12/2003	ND	ND				504.1
	9/12/2003			ND	ND	ND	OLC03.2
	10/5/2004	ND	ND				504.1
	10/5/2004			ND	ND	ND	OLC03.2
	9/12/2005	ND	ND				504.1
	9/12/2005			ND	ND	ND	OLC032
	10/6/2006	ND	ND				504.1
	10/6/2006			ND	ND	ND	TVOL
	10/12/2007	ND	ND				504.1
	10/12/2007			ND	ND	ND	TVOL
	10/3/2008	ND	ND				504.1
	10/3/2008			ND	ND	ND	TVOL
	3/10/2009	ND	ND				5041
	3/10/2009					ND	524.2 SIM
	3/10/2009			ND	ND		TVOL
	6/5/2009	ND	ND				5041
	6/5/2009					ND	5242SIM

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/5/2009			ND	ND		TVOL
	9/28/2009	ND	ND			ND	5242SIM
	9/28/2009			ND	ND		TVOL
	10/7/2010	ND	ND			ND	5242SIM
	10/7/2010			ND	0.29 J		TVOL
	10/03/2011			< 0.5	< 0.5		TVOL
	10/03/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/07/2011			< 0.5	< 0.5		TVOL
	12/07/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-7B	11/10/1997	ND	0.28 J				504.1
	11/10/1997			1	ND	ND	624/25ML
	1/29/1998	ND	ND				504.1
	1/30/1998	ND	ND	0.5 J	ND	ND	624/25ML
	5/21/1998	ND	ND				504.1
	5/21/1998			ND	ND	ND	624/25ML
	8/20/1998	ND	0.01 J				504.1
	8/20/1998			0.4 J	ND	ND	624/25ML
	12/3/1998	ND	0.3				504.1
	12/3/1998			2	ND	ND	624/25ML
	3/19/1999	ND	0.41				504.1
	3/19/1999			3	ND	ND	624/25ML
	6/23/1999	ND	ND				504.1
	6/23/1999			ND	ND	ND	624/25ML
	9/8/1999	ND	ND				504.1
	9/8/1999			ND	ND	ND	624/25ML
	12/15/1999	ND	ND				504.1
	12/15/1999			ND	ND	ND	624/25ML
	3/28/2000	ND	ND				504.1
	3/28/2000			ND	ND	ND	624/25ML
	6/30/2000	ND	ND				504.1
	6/30/2000			ND	ND	ND	524.2
	10/10/2000	ND	0.25				504.1
	10/10/2000			ND	ND	ND	524.2
	12/14/2000	ND	ND				504.1
	12/14/2000			ND	ND	ND	524.2
	4/24/2001	ND	ND				504.1
	4/24/2001			ND	ND	ND	524.2
	6/13/2001	ND	0.01 J				504.1
	6/13/2001			ND	ND	ND	524.2
	10/2/2001	ND	ND				504.1
	10/2/2001			2	ND	ND	524.2
	1/21/2002	ND	0.27				504.1
	1/21/2002			1	ND	ND	524.2
	3/29/2002	ND	ND				504.1
	3/29/2002			ND	ND	ND	524.2
	9/18/2002	ND	0.02				504.1
	9/18/2002			ND	ND	ND	524.2
	9/12/2003	ND	ND				504.1
	9/12/2003			ND	ND	ND	OLC03.2
	10/5/2004	ND	ND				504.1
	10/5/2004			ND	ND	ND	OLC03.2
	9/12/2005	ND	ND				504.1
	9/12/2005			ND	ND	ND	OLC032
	10/6/2006	ND	ND				504.1
	10/6/2006			ND	ND	ND	TVOL
	10/12/2007	ND	ND				504.1
	10/12/2007			ND	ND	ND	TVOL
	10/3/2008	ND	ND				504.1
	10/3/2008			ND	ND	ND	TVOL
	3/10/2009	ND	ND				5041
	3/10/2009					ND	524.2 SIM
	3/10/2009			ND	ND		TVOL
	6/5/2009	ND	ND				5041
	6/5/2009					ND	5242SIM
	6/5/2009			ND	ND		TVOL

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	9/28/2009	ND	ND			ND	5242SIM
	9/28/2009			ND	ND		TVOL
	10/7/2010	ND	ND			ND	5242SIM
	10/7/2010			ND	ND		TVOL
	10/03/2011			< 0.5	< 0.5		TVOL
	10/03/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/07/2011			< 0.5	< 0.5		TVOL
	12/07/2011	< 0.01	< 0.005			0.0036 J	E524.2S
OW-7C	11/10/1997	ND	0.04 J				504.1
	11/10/1997			0.3 J	ND	ND	624/25ML
	1/30/1998	ND	0.06 J				504.1
	2/4/1998	ND	ND	0.4 J	ND	ND	624/25ML
	5/21/1998	ND	ND				504.1
	5/21/1998			ND	ND	ND	624/25ML
	8/20/1998	ND	ND				504.1
	8/20/1998			0.2 J	ND	ND	624/25ML
	12/3/1998	ND	0.24				504.1
	12/3/1998			2	ND	ND	624/25ML
	3/18/1999	ND	0.41				504.1
	3/18/1999			2	ND	ND	624/25ML
	6/23/1999	ND	0.07 J				504.1
	6/23/1999			0.8 J	ND	ND	624/25ML
	9/8/1999	ND	0.14 J				504.1
	9/8/1999			0.9 J	ND	ND	624/25ML
	12/15/1999	ND	0.08 J				504.1
	12/15/1999			0.8 J	ND	ND	624/25ML
	3/28/2000	ND	ND				504.1
	3/28/2000			ND	ND	ND	624/25ML
	6/30/2000	ND	ND				504.1
	6/30/2000			ND	ND	ND	524.2
	10/10/2000	ND	0.01 J				504.1
	10/10/2000			ND	ND	ND	524.2
	12/14/2000	ND	ND				504.1
	12/14/2000			ND	ND	ND	524.2
	4/24/2001	ND	ND				504.1
	4/24/2001			ND	ND	ND	524.2
	6/13/2001	ND	ND				504.1
	6/13/2001			ND	ND	ND	524.2
	10/2/2001	ND	ND				504.1
	10/2/2001			ND	ND	ND	524.2
	1/21/2002	ND	ND				504.1
	1/21/2002			ND	ND	ND	524.2
	4/1/2002	ND	0.16				504.1
	4/1/2002			ND	ND	ND	524.2
	9/17/2002	ND	ND				504.1
	9/17/2002			ND	ND	ND	524.2
	9/12/2003	ND	ND				504.1
	9/12/2003			ND	ND	ND	OLC03.2
	10/5/2004	ND	ND				504.1
	10/5/2004			ND	ND	ND	OLC03.2
	9/12/2005	ND	ND				504.1
	9/12/2005			ND	ND	ND	OLC032
	10/6/2006	ND	ND				504.1
	10/6/2006			ND	ND	ND	TVOL
	10/12/2007	ND	ND				504.1
	10/12/2007			ND	ND	ND	TVOL
	10/3/2008	ND	ND				504.1
	10/3/2008			ND	ND	ND	TVOL
	3/10/2009	ND	ND				5041
	3/10/2009					ND	524.2 SIM
	3/10/2009			ND	ND		TVOL
	6/5/2009	ND	ND				5041
	6/5/2009					ND	5242SIM
	6/5/2009			ND	ND		TVOL
	9/28/2009	ND	ND			ND	5242SIM

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	9/28/2009			ND	ND		TVOL
	10/7/2010	ND	ND			ND	5242SIM
	10/7/2010			ND	ND		TVOL
OW-8A	11/6/1997	ND	ND				504.1
	11/6/1997			ND	ND	ND	624/25ML
	1/29/1998	ND	ND				504.1
	1/30/1998	ND	ND	ND	ND	ND	624/25ML
	5/21/1998	ND	ND				504.1
	5/21/1998			ND	ND	ND	624/25ML
	8/19/1998	0.17	2.1 J				504.1
	8/19/1998			40 J	0.5 J	2 J	624/25ML
	12/2/1998	ND	ND				504.1
	12/2/1998			ND	ND	ND	624/25ML
	3/18/1999	ND	0.18				504.1
	3/18/1999			0.7 J	ND	ND	624/25ML
	6/30/1999	ND	ND				504.1
	6/30/1999			ND	ND	ND	624/25ML
	9/14/1999	ND	ND				504.1
	9/14/1999			ND	ND	ND	624/25ML
	12/21/1999	ND	ND				504.1
	12/21/1999			ND	0.5	ND	624/25ML
	3/27/2000	ND	ND				504.1
	3/27/2000			ND	ND	ND	624/25ML
	6/28/2000	ND	ND				504.1
	6/28/2000			ND	ND	ND	524.2
	10/4/2000	ND	ND				504.1
	10/4/2000			ND	ND	ND	524.2
	12/11/2000	ND	ND				504.1
	12/11/2000			ND	ND	ND	524.2
	4/23/2001	ND	ND				504.1
	4/23/2001			ND	ND	ND	524.2
	6/11/2001	ND	ND				504.1
	6/11/2001			ND	ND	ND	524.2
	9/27/2001	ND	ND				504.1
	9/27/2001			ND	ND	ND	524.2
	1/15/2002	ND	ND				504.1
	1/15/2002			ND	ND	ND	524.2
	3/15/2002	ND	ND				504.1
	3/15/2002			ND	ND	ND	524.2
	9/18/2002	ND	ND				504.1
	9/18/2002			ND	ND	ND	524.2
	9/15/2003	ND	ND				504.1
	9/15/2003			ND	ND	ND	OLC03.2
	9/10/2004	ND	ND				504.1
	9/10/2004			ND	ND	ND	OLC03.2
	9/16/2005	ND	ND				504.1
	9/16/2005			ND	ND	ND	OLC032
	9/29/2006	ND	ND				504.1
	9/29/2006			ND	ND	ND	TVOL
	10/3/2007	ND	ND				504.1
	10/3/2007			ND	ND	ND	TVOL
	7/31/2008	ND	ND				504.1
	7/31/2008			ND	ND	ND	TVOL
	8/29/2008	ND	ND				504.1
	8/29/2008			ND	ND	ND	TVOL
	9/22/2008	ND	ND				504.1
	9/22/2008			ND	ND	ND	TVOL
	12/4/2008	ND	ND				504.1
	12/4/2008			ND	ND	ND	TVOL
	10/03/2011			< 0.5	< 0.5		TVOL
	10/03/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/07/2011			< 0.5	< 0.5		TVOL
	12/07/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-8B	11/6/1997	ND	ND				504.1
	11/6/1997			ND	ND	ND	624/25ML

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	1/29/1998	ND	ND				504.1
	1/30/1998	ND	ND	ND	ND	ND	624/25ML
	5/21/1998	ND	ND				504.1
	5/21/1998			ND	ND	ND	624/25ML
	8/19/1998	ND	0.01 J				504.1
	8/19/1998			ND	ND	ND	624/25ML
	12/2/1998	ND	ND				504.1
	12/2/1998			ND	ND	ND	624/25ML
	3/18/1999	ND	2.4				504.1
	3/18/1999			10	ND	ND	624/25ML
	6/30/1999	ND	ND				504.1
	6/30/1999			ND	ND	ND	624/25ML
	9/14/1999	ND	ND				504.1
	9/14/1999			ND	ND	ND	624/25ML
	12/21/1999	ND	ND				504.1
	12/21/1999			ND	0.6	ND	624/25ML
	3/27/2000	ND	ND				504.1
	3/27/2000			ND	ND	ND	624/25ML
	6/28/2000	ND	ND				504.1
	6/28/2000			ND	ND	ND	524.2
	10/4/2000	ND	ND				504.1
	10/4/2000			ND	ND	ND	524.2
	12/11/2000	ND	ND				504.1
	12/11/2000			ND	ND	ND	524.2
	4/23/2001	ND	ND				504.1
	4/23/2001			ND	ND	ND	524.2
	6/11/2001	ND	ND				504.1
	6/11/2001			ND	ND	ND	524.2
	9/27/2001	ND	ND				504.1
	9/27/2001			ND	ND	ND	524.2
	1/15/2002	ND	ND				504.1
	1/15/2002			ND	ND	ND	524.2
	3/15/2002	ND	ND				504.1
	3/15/2002			ND	ND	ND	524.2
	9/18/2002	ND	ND				504.1
	9/18/2002			ND	ND	ND	524.2
	9/15/2003	ND	ND				504.1
	9/15/2003			ND	ND	ND	OLC03.2
	9/10/2004	ND	ND				504.1
	9/10/2004			ND	ND	ND	OLC03.2
	9/16/2005	ND	ND				504.1
	9/16/2005			ND	ND	ND	OLC032
	9/29/2006	ND	ND				504.1
	9/29/2006			ND	ND	ND	TVOL
	10/3/2007	ND	ND				504.1
	10/3/2007			ND	ND	ND	TVOL
	7/28/2008	ND	ND	ND	ND	ND	TVOL
	8/27/2008	ND	ND				504.1
	8/27/2008			ND	ND	ND	TVOL
	9/22/2008	ND	ND				504.1
	9/22/2008			ND	ND	ND	TVOL
	12/4/2008	ND	ND				504.1
	12/4/2008					ND	524.2 SIM
	12/4/2008			ND	ND		TVOL
OW-8C	11/6/1997	ND	ND				504.1
	11/6/1997			ND	ND	ND	624/25ML
	1/30/1998	ND	ND				504.1
	1/30/1998			ND	ND	ND	624/25ML
	5/21/1998	ND	ND				504.1
	5/21/1998			ND	ND	ND	624/25ML
	8/19/1998	ND	0.06				504.1
	8/19/1998			1 J	0.5 J	1 J	624/25ML
	12/2/1998	ND	ND				504.1
	12/2/1998			ND	ND	ND	624/25ML
	3/18/1999	ND	0.45				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/18/1999			2	ND	ND	624/25ML
	6/30/1999	ND	0.1 J				504.1
	6/30/1999			0.8 J	ND	ND	624/25ML
	9/14/1999	ND	0.07				504.1
	9/14/1999			ND	ND	ND	624/25ML
	12/21/1999	ND	0.04 J				504.1
	12/21/1999			1	ND	ND	624/25ML
	3/27/2000	ND	ND				504.1
	3/27/2000			ND	ND	ND	624/25ML
	6/28/2000	ND	ND				504.1
	6/28/2000			ND	ND	ND	524.2
	10/4/2000	ND	ND				504.1
	10/4/2000			ND	ND	ND	524.2
	12/11/2000	ND	ND				504.1
	12/11/2000			ND	ND	ND	524.2
	4/23/2001	ND	ND				504.1
	4/23/2001			ND	ND	ND	524.2
	6/11/2001	ND	ND				504.1
	6/11/2001			ND	ND	ND	524.2
	9/27/2001	ND	ND				504.1
	9/27/2001			ND	ND	ND	524.2
	1/15/2002	ND	ND				504.1
	1/15/2002			ND	ND	ND	524.2
	3/15/2002	ND	ND				504.1
	3/15/2002			ND	ND	ND	524.2
	9/18/2002	ND	ND				504.1
	9/18/2002			ND	ND	ND	524.2
	9/15/2003	ND	ND				504.1
	9/15/2003			ND	ND	ND	OLC03.2
	9/10/2004	ND	ND				504.1
	9/10/2004			ND	ND	ND	OLC03.2
	9/16/2005	ND	ND				504.1
	9/16/2005			ND	ND	ND	OLC032
	9/29/2006	ND	ND				504.1
	9/29/2006			ND	ND	ND	TVOL
	10/3/2007	ND	ND				504.1
	10/3/2007			ND	ND	ND	TVOL
	7/28/2008	ND	ND	ND	ND	ND	TVOL
	8/27/2008	ND	ND				504.1
	8/27/2008			ND	ND	ND	TVOL
	9/22/2008	ND	ND				504.1
	9/22/2008			ND	ND	ND	TVOL
	12/4/2008	ND	ND				504.1
	12/4/2008			ND	ND	ND	TVOL
OW-9A	7/7/1998	ND	ND				504.1
	7/7/1998			ND	ND	ND	624/25ML
	8/20/1998	ND	ND				504.1
	8/20/1998			ND	ND	ND	624/25ML
	12/3/1998	ND	0.04 J				504.1
	12/3/1998			ND	ND	ND	624/25ML
	3/19/1999	ND	0.32				504.1
	3/19/1999			1	ND	ND	624/25ML
	6/22/1999	ND	0.07				504.1
	6/22/1999			ND	ND	ND	624/25ML
	9/7/1999	ND	0.04 J				504.1
	9/7/1999			ND	ND	ND	624/25ML
	12/14/1999	ND	ND				504.1
	12/14/1999			ND	ND	ND	624/25ML
	3/27/2000	ND	ND				504.1
	3/27/2000			ND	ND	ND	624/25ML
	6/22/2000	ND	ND				504.1
	6/22/2000			ND	ND	ND	524.2
	9/28/2000	ND	ND				504.1
	9/28/2000			ND	ND	ND	524.2
	12/6/2000	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/6/2000			ND	ND	ND	524.2
	4/17/2001	ND	ND				504.1
	4/17/2001			ND	ND	ND	524.2
	6/6/2001	ND	ND				504.1
	6/6/2001			ND	ND	ND	524.2
	9/25/2001	ND	ND				504.1
	9/25/2001			ND	ND	ND	524.2
	1/9/2002	ND	ND				504.1
	1/9/2002			ND	ND	ND	524.2
	3/20/2002	ND	ND				504.1
	3/20/2002			ND	ND	ND	524.2
	9/17/2002	ND	ND				504.1
	9/17/2002			ND	ND	ND	524.2
	9/12/2003	ND	ND				504.1
	9/12/2003			ND	ND	ND	OLC03.2
	10/4/2004	ND	ND				504.1
	10/4/2004			ND	ND	ND	OLC03.2
	12/6/2004	ND	ND				504.1
	12/6/2004			ND	ND	ND	OLC03.2
	3/4/2005	ND	ND				504.1
	3/4/2005			ND	ND	ND	OLC03.2
	6/7/2005	ND	ND				504.1
	6/7/2005			ND	ND	ND	OLC03.2
	9/14/2005	ND	ND				504.1
	9/14/2005			4.1	ND	ND	OLC032
	12/7/2005	ND	ND				504.1
	12/7/2005			ND	ND	ND	OLC032
	2/28/2006	ND	ND				504.1
	2/28/2006			ND	ND	ND	OLC032
	6/7/2006	ND	ND				504.1
	6/7/2006			ND	ND	ND	OLC032
	10/9/2006	ND	ND				504.1
	10/9/2006			ND	ND	ND	TVOL
	12/27/2006	ND	ND				504.1
	12/27/2006			ND	ND	ND	TVOL
	3/2/2007	ND	ND				504.1
	3/2/2007			ND	ND	ND	TVOL
	6/5/2007	ND	ND				504.1
	6/5/2007			ND	ND	ND	TVOL
	10/9/2007	ND	ND				504.1
	10/9/2007			ND	ND	ND	TVOL
	12/14/2007	ND	ND				504.1
	12/14/2007			ND	ND	ND	TVOL
	3/18/2008	ND	ND				504.1
	3/18/2008			ND	ND	ND	TVOL
	6/2/2008	ND	ND				504.1
	6/2/2008			ND	ND	ND	TVOL
	10/7/2008	ND	ND				504.1
	10/7/2008			ND	ND	ND	TVOL
	12/18/2008	ND	ND				504.1
	12/18/2008			ND	ND	ND	TVOL
	3/6/2009	ND	ND				5041
	3/6/2009					ND	524.2 SIM
	3/6/2009			ND	ND		TVOL
	6/1/2009	ND	ND				5041
	6/1/2009					ND	5242SIM
	6/1/2009			ND	ND		TVOL
	9/30/2009	ND	ND			ND	5242SIM
	9/30/2009			ND	ND		TVOL
	12/14/2009	ND	ND			ND	5242SIM
	12/14/2009			ND	ND		TVOL
	3/17/2010	ND	ND			ND	5242SIM
	3/17/2010			ND	ND		TVOL
	6/23/2010	ND	ND			ND	5242SIM
	6/23/2010			ND	ND		TVOL

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	9/27/2010	ND	ND			ND	5242SIM
	9/27/2010			ND	ND		TVOL
	12/10/2010	ND	ND			ND	5242SIM
	12/10/2010			ND	ND		TVOL
	3/16/2011	ND	ND			ND	5242SIM
	3/16/2011			ND	ND		TVOL
	7/7/2011	ND	ND			ND	5242SIM
	7/7/2011			ND	ND		TVOL
	09/27/2011			< 0.5	< 0.5		TVOL
	09/27/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/14/2011			< 0.5	< 0.5		TVOL
	12/14/2011	< 0.01	< 0.005			< 0.005	E524.2S
OW-9B	8/20/1998	ND	ND				504.1
	8/20/1998			ND	ND	ND	624/25ML
	12/3/1998	ND	0.08 J				504.1
	12/3/1998			ND	ND	ND	624/25ML
	3/19/1999	ND	0.43				504.1
	3/19/1999			2	ND	ND	624/25ML
	6/22/1999	ND	ND				504.1
	6/22/1999			ND	0.3 J	ND	624/25ML
	9/7/1999	ND	ND				504.1
	9/7/1999			ND	ND	ND	624/25ML
	12/14/1999	ND	ND				504.1
	12/14/1999			ND	ND	ND	624/25ML
	3/27/2000	ND	ND				504.1
	3/27/2000			ND	ND	ND	624/25ML
	6/22/2000	ND	ND				504.1
	6/22/2000			ND	ND	ND	524.2
	9/28/2000	ND	ND				504.1
	9/28/2000			ND	ND	ND	524.2
	12/6/2000	ND	ND				504.1
	12/6/2000			ND	ND	ND	524.2
	4/17/2001	ND	ND				504.1
	4/17/2001			ND	ND	ND	524.2
	6/6/2001	ND	ND				504.1
	6/6/2001			ND	ND	ND	524.2
	9/25/2001	ND	ND				504.1
	9/25/2001			ND	ND	ND	524.2
	1/9/2002	ND	ND				504.1
	1/9/2002			ND	ND	ND	524.2
	3/20/2002	ND	ND				504.1
	3/20/2002			ND	ND	ND	524.2
	9/17/2002	ND	ND				504.1
	9/17/2002			ND	ND	ND	524.2
	9/15/2003	ND	ND				504.1
	9/15/2003			ND	0.087 J	ND	OLC03.2
	10/4/2004	ND	ND				504.1
	10/4/2004			ND	0.14 J	ND	OLC03.2
	12/6/2004	ND	ND				504.1
	12/6/2004			ND	0.27 J	ND	OLC03.2
	3/4/2005	ND	ND				504.1
	3/4/2005			ND	0.33 J	ND	OLC03.2
	6/7/2005	ND	ND				504.1
	6/7/2005			ND	ND	ND	OLC03.2
	9/19/2005	ND	ND				504.1
	9/19/2005			ND	0.13 J	ND	OLC032
	12/7/2005	ND	ND				504.1
	12/7/2005			ND	ND	ND	OLC032
	2/28/2006	ND	ND				504.1
	2/28/2006			ND	0.27 J	ND	OLC032
	6/7/2006	ND	ND				504.1
	6/7/2006			ND	0.29 J	ND	OLC032
	10/9/2006	ND	ND				504.1
	10/9/2006			ND	ND	ND	TVOL
	12/27/2006	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/27/2006			ND	0.55	ND	TVOL
	3/2/2007	ND	ND				504.1
	3/2/2007			ND	0.56	ND	TVOL
	6/5/2007	ND	ND				504.1
	6/5/2007			ND	0.24 J	ND	TVOL
	10/9/2007	ND	ND				504.1
	10/9/2007			ND	0.2 J	ND	TVOL
	12/14/2007	ND	ND				504.1
	12/14/2007			ND	0.32 J	ND	TVOL
	3/18/2008	ND	ND				504.1
	3/18/2008			ND	0.43 J	ND	TVOL
	6/2/2008	ND	ND				504.1
	6/2/2008			ND	ND	ND	TVOL
	10/7/2008	ND	ND				504.1
	10/7/2008			ND	0.22 J	ND	TVOL
	12/18/2008	ND	ND				504.1
	12/18/2008			ND	1.4	ND	TVOL
	3/6/2009	ND	ND				5041
	3/6/2009					ND	524.2 SIM
	3/6/2009			ND	0.62		TVOL
	6/1/2009	ND	ND				5041
	6/1/2009					ND	5242SIM
	6/1/2009			ND	ND		TVOL
	9/30/2009	ND	ND			ND	5242SIM
	9/30/2009			ND	ND		TVOL
	12/14/2009	ND	ND			ND	5242SIM
	12/14/2009			ND	0.22 J		TVOL
	3/17/2010	ND	ND			ND	5242SIM
	3/17/2010			ND	0.25 J		TVOL
	6/23/2010	ND	ND			ND	5242SIM
	6/23/2010			ND	ND		TVOL
	9/27/2010	ND	ND			ND	5242SIM
	9/27/2010			ND	ND		TVOL
	12/10/2010	ND	ND			ND	5242SIM
	12/10/2010			ND	0.53		TVOL
	3/16/2011	ND	ND			ND	5242SIM
	3/16/2011			ND	0.5 J		TVOL
	7/7/2011	ND	ND			ND	5242SIM
	7/7/2011			ND	ND		TVOL
	09/27/2011			< 0.5	< 0.5		TVOL
	09/27/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/14/2011			< 0.5	0.29 J		TVOL
	12/14/2011	< 0.01	< 0.005			< 0.005	E524.2S
PC-1B	7/31/2008	ND	ND				504.1
	7/31/2008			ND	ND	ND	TVOL
	8/28/2008	ND	ND				504.1
	8/28/2008			ND	ND	ND	TVOL
	9/25/2008	ND	ND				504.1
	9/25/2008			ND	ND	ND	TVOL
	12/5/2008	ND	ND				504.1
	12/5/2008					0.0043 J	524.2 SIM
	12/5/2008			ND	ND		TVOL
PC-1C	7/31/2008	ND	ND				504.1
	7/31/2008			ND	ND	ND	TVOL
	8/28/2008	ND	ND				504.1
	8/28/2008			ND	ND	ND	TVOL
	9/22/2008	ND	ND				504.1
	9/22/2008			ND	ND	ND	TVOL
	12/5/2008	ND	ND				504.1
	12/5/2008					ND	524.2 SIM
	12/5/2008			ND	ND		TVOL
PC-2B	7/31/2008	ND	ND				504.1
	7/31/2008			ND	6	ND	TVOL
	8/26/2008	ND	ND				504.1
	8/26/2008			0.36 J	7.3	ND	TVOL

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	9/24/2008	ND	ND				504.1
	9/24/2008			0.4 J	6.5	ND	TVOL
	12/9/2008	ND	ND				504.1
	12/9/2008					0.0048 J	524.2 SIM
	12/9/2008			ND	3.2		TVOL
	3/4/2009	ND	ND				5041
	3/4/2009					0.0061	524.2 SIM
	3/4/2009			0.5	8.4		TVOL
	6/4/2009	ND	ND				5041
	6/4/2009					0.0071	5242SIM
	6/4/2009			ND	7.1		TVOL
	9/18/2009	ND	ND			0.0097	5242SIM
	9/18/2009			0.25 J	3.5		TVOL
	12/15/2009	ND	ND			0.0076	5242SIM
	12/15/2009			ND	2.5		TVOL
	3/17/2010	ND	ND			0.0082	5242SIM
	3/17/2010			0.24 J	3.5		TVOL
	6/21/2010	ND	ND			0.0066	5242SIM
	6/21/2010			ND	7.9 J		TVOL
	9/27/2010	ND	ND			0.0071	5242SIM
	9/27/2010			0.35 J	5.8		TVOL
	12/9/2010	ND	ND			0.0092	5242SIM
	12/9/2010			0.38 J	5.1		TVOL
	3/15/2011	ND	ND			0.0065	5242SIM
	3/15/2011			0.37 J	6.5		TVOL
	6/29/2011	ND	ND			0.0076	5242SIM
	6/29/2011			ND R	7 R		TVOL
	09/15/2011			0.22 J	2.5		TVOL
	09/15/2011	< 0.01	< 0.005			0.0078	E524.2S
	12/07/2011			0.4 J	3.6		TVOL
	12/07/2011	< 0.01	< 0.005			0.0082	E524.2S
PC-2C	7/31/2008	ND	ND				504.1
	7/31/2008			ND	ND	ND	TVOL
	8/26/2008	ND	ND				504.1
	8/26/2008			ND	ND	ND	TVOL
	9/22/2008	ND	ND				504.1
	9/22/2008			ND	ND	ND	TVOL
	12/9/2008	ND	ND				504.1
	12/9/2008			ND	ND	ND	TVOL
	3/4/2009	ND	ND				5041
	3/4/2009					ND	524.2 SIM
	3/4/2009			ND	ND		TVOL
	6/2/2009	ND	ND				5041
	6/2/2009					ND	5242SIM
	6/2/2009			ND	ND		TVOL
	9/17/2009	ND	ND			ND	5242SIM
	9/17/2009			ND	ND		TVOL
	12/14/2009	ND	ND			ND	5242SIM
	12/14/2009			ND	ND		TVOL
	3/16/2010	ND	ND			ND	5242SIM
	3/16/2010			ND	ND		TVOL
	6/21/2010	ND	ND			ND	5242SIM
	6/21/2010			ND	ND		TVOL
	9/27/2010	ND	ND			ND	5242SIM
	9/27/2010			ND	ND		TVOL
	12/9/2010	ND	ND			ND	5242SIM
	12/9/2010			ND	ND		TVOL
	3/15/2011	ND	ND			ND	5242SIM
	3/15/2011			ND	ND		TVOL
	6/29/2011	ND	ND			ND	5242SIM
	6/29/2011			ND R	ND R		TVOL
	09/15/2011			< 0.5	< 0.5		TVOL
	09/15/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/07/2011			< 0.5	< 0.5		TVOL
	12/07/2011	< 0.01	< 0.005			< 0.005	E524.2S

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
PW-1A	7/29/2008	ND	ND				504.1
	7/29/2008			ND	ND	ND	TVOL
	8/26/2008	ND	ND				504.1
	8/26/2008			ND	ND	ND	TVOL
	9/24/2008	ND	ND				504.1
	9/24/2008			ND	ND	ND	TVOL
	12/3/2008	ND	ND				504.1
	12/3/2008					ND	524.2 SIM
	12/3/2008			ND	ND		TVOL
	3/16/2009	ND	ND				5041
	3/16/2009					ND	524.2 SIM
	3/16/2009			ND	ND		TVOL
	6/9/2009	ND	ND				5041
	6/9/2009					ND	5242SIM
	6/9/2009			ND	ND		TVOL
	9/23/2009	ND	ND			ND	5242SIM
	9/23/2009			ND	ND		TVOL
	12/8/2009	ND	ND			ND	5242SIM
	12/8/2009			ND	ND		TVOL
	3/10/2010	ND	ND			ND	5242SIM
	3/10/2010			ND	ND		TVOL
	6/10/2010	ND	ND			ND	5242SIM
	6/10/2010			ND	ND		TVOL
	9/22/2010	ND	ND			ND	5242SIM
	9/22/2010			ND	ND		TVOL
	12/8/2010	ND	ND			ND	5242SIM
	12/8/2010			ND	ND		TVOL
	3/7/2011	ND	ND			ND	5242SIM
	3/7/2011			ND	ND		TVOL
	6/28/2011	ND	ND			ND	5242SIM
	6/28/2011			ND	ND		TVOL
	09/13/2011			< 0.5	< 0.5		TVOL
	09/13/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/01/2011			< 0.5	< 0.5		TVOL
	12/01/2011	< 0.01	< 0.005			< 0.005	E524.2S
PW-1B	7/29/2008	ND	ND				504.1
	7/29/2008			ND	ND	ND	TVOL
	8/26/2008	ND	ND				504.1
	8/26/2008			ND	ND	ND	TVOL
	9/24/2008	ND	ND				504.1
	9/24/2008			ND	ND	ND	TVOL
	12/3/2008	ND	ND				504.1
	12/3/2008					0.013	524.2 SIM
	12/3/2008			ND	ND		TVOL
	3/16/2009	ND	ND				5041
	3/16/2009					0.013	524.2 SIM
	3/16/2009			0.36 J	ND		TVOL
	6/9/2009	ND	ND				5041
	6/9/2009					0.011	5242SIM
	6/9/2009			ND	ND		TVOL
	9/23/2009	ND	ND			0.015	5242SIM
	9/23/2009			ND	ND		TVOL
	12/8/2009	ND	ND			0.011	5242SIM
	12/8/2009			ND	ND		TVOL
	3/10/2010	ND	ND			0.012	5242SIM
	3/10/2010			ND	ND		TVOL
	6/10/2010	ND	ND			0.0098	5242SIM
	6/10/2010			ND	ND		TVOL
	9/22/2010	ND	ND			0.01	5242SIM
	9/22/2010			0.32 J	ND		TVOL
	12/8/2010	ND	ND			0.0079	5242SIM
	12/8/2010			0.31 J	ND		TVOL
	3/7/2011	ND	ND			0.0088	5242SIM
	3/7/2011			0.33 J	ND		TVOL
	6/28/2011	ND	ND			0.011	5242SIM

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/28/2011			ND	ND		TVOL
	09/13/2011			< 0.5	< 0.5		TVOL
	09/13/2011	< 0.01	< 0.005			0.0098	E524.2S
	11/30/2011			0.32 J	< 0.5		TVOL
	11/30/2011	< 0.01	< 0.005			0.0095	E524.2S
PW-1C	7/29/2008	ND	ND				504.1
	7/29/2008			ND	ND	ND	TVOL
	8/26/2008	ND	ND				504.1
	8/26/2008			ND	ND	ND	TVOL
	9/24/2008	ND	ND				504.1
	9/24/2008			ND	ND	ND	TVOL
	12/3/2008	ND	ND				504.1
	12/3/2008			ND	ND	ND	TVOL
	3/16/2009	ND	ND				5041
	3/16/2009					ND	524.2 SIM
	3/16/2009			ND	ND		TVOL
	6/9/2009	ND	ND				5041
	6/9/2009					ND	5242SIM
	6/9/2009			ND	ND		TVOL
	9/23/2009	ND	ND			ND	5242SIM
	9/23/2009			ND	ND		TVOL
	12/8/2009	ND	ND			ND	5242SIM
	12/8/2009			ND	ND		TVOL
	3/10/2010	ND	ND			ND	5242SIM
	3/10/2010			ND	ND		TVOL
	6/10/2010	ND	ND			ND	5242SIM
	6/10/2010			ND	ND		TVOL
	9/22/2010	ND	ND			ND	5242SIM
	9/22/2010			ND	ND		TVOL
	12/8/2010	ND	ND			ND	5242SIM
	12/8/2010			ND	ND		TVOL
	3/7/2011	ND	ND			ND	5242SIM
	3/7/2011			ND	ND		TVOL
	6/28/2011	ND	ND			ND	5242SIM
	6/28/2011			ND	ND		TVOL
	09/13/2011			< 0.5	< 0.5		TVOL
	09/13/2011	< 0.01	< 0.005			< 0.005	E524.2S
	11/30/2011			< 0.5	< 0.5		TVOL
	11/30/2011	< 0.01	< 0.005			< 0.005	E524.2S
PW-2A	7/30/2008	ND	ND				504.1
	7/30/2008			ND	ND	ND	TVOL
	8/27/2008	ND	ND				504.1
	8/27/2008			ND	ND	ND	TVOL
	9/25/2008	ND	ND				504.1
	9/25/2008			ND	ND	ND	TVOL
	12/3/2008	ND	ND				504.1
	12/3/2008					ND	524.2 SIM
	12/3/2008			ND	ND		TVOL
	3/17/2009	ND	ND				5041
	3/17/2009					ND	524.2 SIM
	3/17/2009			ND	ND		TVOL
	6/9/2009	ND	ND				5041
	6/9/2009					ND	5242SIM
	6/9/2009			ND	ND		TVOL
	9/25/2009	ND	ND			ND	5242SIM
	9/25/2009			ND	ND		TVOL
	12/9/2009	ND	ND			ND	5242SIM
	12/9/2009			ND	ND		TVOL
	3/10/2010	ND	ND			ND	5242SIM
	3/10/2010			ND	ND		TVOL
	6/9/2010	ND	ND			ND	5242SIM
	6/9/2010			ND	ND		TVOL
	9/24/2010	ND	ND			ND	5242SIM
	9/24/2010			ND	ND		TVOL
	12/8/2010	ND	ND			ND	5242SIM

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/8/2010			ND	ND		TVOL
	3/8/2011	ND	ND			ND	5242SIM
	3/8/2011			ND	ND		TVOL
	6/30/2011	ND	ND			ND	5242SIM
	6/30/2011			ND R	ND R		TVOL
	09/14/2011	< 0.01	< 0.005			< 0.005	E524.2S
	09/14/2011			< 0.5	< 0.5		TVOL
	11/30/2011			< 0.5	< 0.5		TVOL
	11/30/2011	< 0.01	< 0.005			< 0.005	E524.2S
PW-2B	7/30/2008	ND	ND				504.1
	7/30/2008			ND	ND	ND	TVOL
	8/27/2008	ND	ND				504.1
	8/27/2008			ND	ND	ND	TVOL
	9/25/2008	ND	ND				504.1
	9/25/2008			ND	ND	ND	TVOL
	12/3/2008	ND	ND				504.1
	12/3/2008					ND	524.2 SIM
	12/3/2008			ND	ND		TVOL
	3/17/2009	ND	ND				5041
	3/17/2009					ND	524.2 SIM
	3/17/2009			ND	ND		TVOL
	6/9/2009	ND	ND				5041
	6/9/2009					ND	5242SIM
	6/9/2009			ND	ND		TVOL
	9/25/2009	ND	ND			ND	5242SIM
	9/25/2009			ND	ND		TVOL
	12/9/2009	ND	ND			ND	5242SIM
	12/9/2009			ND	ND		TVOL
	3/10/2010	ND	ND			ND	5242SIM
	3/10/2010			ND	ND		TVOL
	6/9/2010	ND	ND			ND	5242SIM
	6/9/2010			ND	ND		TVOL
	9/24/2010	ND	ND			ND	5242SIM
	9/24/2010			ND	ND		TVOL
	12/8/2010	ND	ND			ND	5242SIM
	12/8/2010			ND	ND		TVOL
	3/8/2011	ND	ND			ND	5242SIM
	3/8/2011			ND	ND		TVOL
	6/30/2011	ND	ND			ND	5242SIM
	6/30/2011			ND R	ND R		TVOL
	09/14/2011			< 0.5	< 0.5		TVOL
	09/14/2011	< 0.01	< 0.005			< 0.005	E524.2S
	11/30/2011			< 0.5	< 0.5		TVOL
	11/30/2011	< 0.01	< 0.005			< 0.005	E524.2S
PW-2C	7/30/2008	ND	ND				504.1
	7/30/2008			ND	ND	ND	TVOL
	8/27/2008	ND	ND				504.1
	8/27/2008			ND	ND	ND	TVOL
	9/25/2008	ND	ND				504.1
	9/25/2008			ND	ND	ND	TVOL
	12/3/2008	ND	ND				504.1
	12/3/2008			ND	ND	ND	TVOL
	3/17/2009	ND	ND				5041
	3/17/2009					ND	524.2 SIM
	3/17/2009			ND	ND		TVOL
	6/9/2009	ND	ND				5041
	6/9/2009					ND	5242SIM
	6/9/2009			ND	ND		TVOL
	9/25/2009	ND	ND			ND	5242SIM
	9/25/2009			ND	ND		TVOL
	12/9/2009	ND	ND			ND	5242SIM
	12/9/2009			ND	ND		TVOL
	3/10/2010	ND	ND			ND	5242SIM
	3/10/2010			ND	ND		TVOL
	6/9/2010	ND	ND			ND	5242SIM

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/9/2010			ND	ND		TVOL
	9/24/2010	ND	ND			ND	5242SIM
	9/24/2010			ND	ND		TVOL
	12/8/2010	ND	ND			ND	5242SIM
	12/8/2010			ND	ND		TVOL
	3/8/2011	ND	ND			ND	5242SIM
	3/8/2011			ND	ND		TVOL
	6/30/2011	ND	ND			ND	5242SIM
	6/30/2011			ND R	ND R		TVOL
	09/14/2011			< 0.5	< 0.5		TVOL
	09/14/2011	< 0.01	< 0.005			< 0.005	E524.2S
	11/30/2011			< 0.5	< 0.5		TVOL
	11/30/2011	< 0.01	< 0.005			< 0.005	E524.2S
PW-3A	7/30/2008	ND	ND				504.1
	7/30/2008			ND	ND	ND	TVOL
	8/28/2008	ND	ND				504.1
	8/28/2008			ND	ND	ND	TVOL
	9/25/2008	ND	ND				504.1
	9/25/2008			ND	ND	ND	TVOL
	12/5/2008	ND	ND				504.1
	12/5/2008					ND	524.2 SIM
	12/5/2008			ND	ND		TVOL
	3/16/2009	ND	ND				5041
	3/16/2009					ND	524.2 SIM
	3/16/2009			ND	ND		TVOL
	6/10/2009	ND	ND				5041
	6/10/2009					ND	5242SIM
	6/10/2009			ND	ND		TVOL
	9/25/2009	ND	ND			ND	5242SIM
	9/25/2009			ND	ND		TVOL
	12/2/2009	ND	ND			ND	5242SIM
	12/2/2009			ND	ND		TVOL
	3/16/2010	ND	ND			ND	5242SIM
	3/16/2010			ND	ND		TVOL
	6/9/2010	ND	ND			ND	5242SIM
	6/9/2010			ND	ND		TVOL
	9/23/2010	ND	ND			ND	5242SIM
	9/23/2010			ND	ND		TVOL
	12/16/2010	ND	ND			ND	5242SIM
	12/16/2010			ND	ND		TVOL
	3/15/2011	ND	ND			ND	5242SIM
	3/15/2011			ND	ND		TVOL
	6/28/2011	ND	ND			ND	5242SIM
	6/28/2011			ND	ND		TVOL
	09/13/2011			< 0.5	< 0.5		TVOL
	09/13/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/01/2011			< 0.5	< 0.5		TVOL
	12/01/2011	< 0.01	< 0.005			< 0.005	E524.2S
PW-3B	7/30/2008	ND	ND				504.1
	7/30/2008			ND	ND	ND	TVOL
	8/28/2008	ND	ND				504.1
	8/28/2008			ND	ND	ND	TVOL
	9/25/2008	ND	ND				504.1
	9/25/2008			ND	ND	ND	TVOL
	12/5/2008	ND	ND				504.1
	12/5/2008					ND	524.2 SIM
	12/5/2008			ND	ND		TVOL
	3/16/2009	ND	ND				5041
	3/16/2009					ND	524.2 SIM
	3/16/2009			ND	ND		TVOL
	6/10/2009	ND	ND				5041
	6/10/2009					ND	5242SIM
	6/10/2009			ND	ND		TVOL
	9/25/2009	ND	ND			ND	5242SIM
	9/25/2009			ND	ND		TVOL

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/2/2009	ND	ND			ND	5242SIM
	12/2/2009			ND	ND		TVOL
	3/16/2010	ND	ND			ND	5242SIM
	3/16/2010			ND	ND		TVOL
	6/9/2010	ND	ND			ND	5242SIM
	6/9/2010			ND	ND		TVOL
	9/23/2010	ND	ND			ND	5242SIM
	9/23/2010			ND	ND		TVOL
	12/16/2010	ND	ND			ND	5242SIM
	12/16/2010			ND	ND		TVOL
	3/15/2011	ND	ND			ND	5242SIM
	3/15/2011			ND	ND		TVOL
	6/28/2011	ND	ND			ND	5242SIM
	6/28/2011			ND	ND		TVOL
	09/13/2011			< 0.5	< 0.5		TVOL
	09/13/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/01/2011			< 0.5	< 0.5		TVOL
	12/01/2011	< 0.01	< 0.005			< 0.005	E524.2S
PW-3C	7/30/2008	ND	ND				504.1
	7/30/2008			ND	ND	ND	TVOL
	8/28/2008	ND	ND				504.1
	8/28/2008			ND	ND	ND	TVOL
	9/25/2008	ND	ND				504.1
	9/25/2008			ND	ND	ND	TVOL
	12/5/2008	ND	ND				504.1
	12/5/2008			ND	ND	ND	TVOL
	3/16/2009	ND	ND				5041
	3/16/2009					ND	524.2 SIM
	3/16/2009			ND	ND		TVOL
	6/10/2009	ND	ND				5041
	6/10/2009					ND	5242SIM
	6/10/2009			ND	ND		TVOL
	9/25/2009	ND	ND			ND	5242SIM
	9/25/2009			ND	ND		TVOL
	12/3/2009	ND	ND			ND	5242SIM
	12/3/2009			ND	ND		TVOL
	3/16/2010	ND	ND			ND	5242SIM
	3/16/2010			ND	ND		TVOL
	6/9/2010	ND	ND			ND	5242SIM
	6/9/2010			ND	ND		TVOL
	9/23/2010	ND	ND			ND	5242SIM
	9/23/2010			ND	ND		TVOL
	12/16/2010	ND	ND			ND	5242SIM
	12/16/2010			ND	ND		TVOL
	3/15/2011	ND	ND			ND	5242SIM
	3/15/2011			ND	ND		TVOL
	6/28/2011	ND	ND			ND	5242SIM
	6/28/2011			ND	ND		TVOL
	09/13/2011			< 0.5	< 0.5		TVOL
	09/13/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/01/2011			< 0.5	< 0.5		TVOL
	12/01/2011	< 0.01	< 0.005			< 0.005	E524.2S
PW-4A	7/28/2008	ND	ND				504.1
	7/28/2008			ND	ND	ND	TVOL
	8/29/2008	ND	ND				504.1
	8/29/2008			ND	ND	ND	TVOL
	9/24/2008	ND	ND				504.1
	9/24/2008			ND	ND	ND	TVOL
	12/4/2008	ND	ND				504.1
	12/4/2008					0.0095	524.2 SIM
	12/4/2008			ND	ND		TVOL
	3/17/2009	ND	ND				5041
	3/17/2009					ND	524.2 SIM
	3/17/2009			ND	ND		TVOL
	6/10/2009	ND	ND				5041

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/10/2009					0.0078	5242SIM
	6/10/2009			ND	ND		TVOL
	9/23/2009	ND	ND			0.012	5242SIM
	9/23/2009			ND	ND		TVOL
	12/3/2009	ND	ND			0.011	5242SIM
	12/3/2009			ND	ND		TVOL
	3/17/2010	ND	ND			0.0083	5242SIM
	3/17/2010			ND	ND		TVOL
	6/10/2010	ND	ND			0.01	5242SIM
	6/10/2010			ND	ND		TVOL
	9/22/2010	ND	ND			0.01	5242SIM
	9/22/2010			ND	ND		TVOL
	12/9/2010	ND	ND			0.0086	5242SIM
	12/9/2010			ND	ND		TVOL
	3/8/2011	ND	ND			0.0096	5242SIM
	3/8/2011			ND	ND		TVOL
	6/29/2011	ND	ND			0.01	5242SIM
	6/29/2011			ND R	ND R		TVOL
	09/14/2011			< 0.5	< 0.5		TVOL
	09/14/2011	< 0.01	< 0.005			0.0092	E524.2S
	12/02/2011			< 0.5	< 0.5		TVOL
	12/02/2011	< 0.01	< 0.005			0.01	E524.2S
PW-4B	7/28/2008	ND	ND				504.1
	7/28/2008			ND	ND	ND	TVOL
	8/29/2008	ND	ND				504.1
	8/29/2008			ND	ND	ND	TVOL
	9/24/2008	ND	ND				504.1
	9/24/2008			ND	ND	ND	TVOL
	12/4/2008	ND	ND				504.1
	12/4/2008					ND	524.2 SIM
	12/4/2008			ND	ND		TVOL
	3/17/2009	ND	ND				5041
	3/17/2009					0.0083	524.2 SIM
	3/17/2009			ND	ND		TVOL
	6/10/2009	ND	ND				5041
	6/10/2009					ND	5242SIM
	6/10/2009			ND	ND		TVOL
	9/23/2009	ND	ND			ND	5242SIM
	9/23/2009			ND	ND		TVOL
	12/3/2009	ND	ND			ND	5242SIM
	12/3/2009			ND	ND		TVOL
	3/17/2010	ND	ND			ND	5242SIM
	3/17/2010			ND	ND		TVOL
	6/10/2010	ND	ND			ND	5242SIM
	6/10/2010			ND	ND		TVOL
	9/22/2010	ND	ND			ND	5242SIM
	9/22/2010			ND	ND		TVOL
	12/9/2010	ND	ND			ND	5242SIM
	12/9/2010			ND	ND		TVOL
	3/8/2011	ND	ND			ND	5242SIM
	3/8/2011			ND	ND		TVOL
	6/29/2011	ND	ND			ND	5242SIM
	6/29/2011			ND R	ND R		TVOL
	09/14/2011			< 0.5	< 0.5		TVOL
	09/14/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/02/2011			< 0.5	< 0.5		TVOL
	12/02/2011	< 0.01	< 0.005			< 0.005	E524.2S
PW-4C	7/28/2008	ND	ND				504.1
	7/28/2008			ND	ND	ND	TVOL
	8/29/2008	ND	ND				504.1
	8/29/2008			ND	ND	ND	TVOL
	9/24/2008	ND	ND				504.1
	9/24/2008			ND	ND	ND	TVOL
	12/4/2008	ND	ND				504.1
	12/4/2008			ND	ND	ND	TVOL

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/17/2009	ND	ND				5041
	3/17/2009					ND	524.2 SIM
	3/17/2009			ND	ND		TVOL
	6/10/2009	ND	ND				5041
	6/10/2009					ND	5242SIM
	6/10/2009			ND	ND		TVOL
	9/23/2009	ND	ND			ND	5242SIM
	9/23/2009			ND	ND		TVOL
	12/3/2009	ND	ND			ND	5242SIM
	12/3/2009			ND	ND		TVOL
	3/17/2010	ND	ND			ND	5242SIM
	3/17/2010			ND	ND		TVOL
	6/10/2010	ND	ND			ND	5242SIM
	6/10/2010			ND	ND		TVOL
	9/22/2010	ND	ND			ND	5242SIM
	9/22/2010			0.3 J	ND		TVOL
	12/9/2010	ND	ND			ND	5242SIM
	12/9/2010			ND	ND		TVOL
	3/8/2011	ND	ND			ND	5242SIM
	3/8/2011			ND	ND		TVOL
	6/29/2011	ND	ND			ND	5242SIM
	6/29/2011			ND R	ND R		TVOL
	09/14/2011			< 0.5	< 0.5		TVOL
	09/14/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/02/2011			< 0.5	< 0.5		TVOL
	12/02/2011	< 0.01	< 0.005			< 0.005	E524.2S
X-10B	1/7/2004	ND	0.036				504.1
	1/7/2004			1.4	49 D	ND	524.2
	3/17/2004	ND	0.014 J				504.1
	3/17/2004			1.2	34 D	ND	OLC03.2
	6/17/2004	ND	0.019 J				504.1
	6/17/2004			0.48 J	12	ND	OLC03.2
	9/15/2004	ND	ND				504.1
	9/15/2004			0.44 J	9	ND	OLC03.2
	12/7/2004	ND	0.015 J				504.1
	12/7/2004			ND	8.2	ND	OLC03.2
	3/2/2005	ND	0.015 J				504.1
	3/2/2005			0.33 J	7.3	0.19 J	OLC03.2
	6/8/2005	ND	0.015 J				504.1
	6/8/2005			0.39 J	7	0.19 J	OLC03.2
	9/8/2005	ND	0.01 J				504.1
	9/8/2005			0.35 J	5	ND	OLC032
	12/12/2005	ND	0.011 J				504.1
	12/12/2005			0.36 J	6.8	ND	OLC032
	3/2/2006	ND	0.014 J				504.1
	3/2/2006			ND	5.7	ND	OLC032
	6/12/2006	ND	0.014 J				504.1
	6/12/2006			ND	5.5	ND	OLC032
	10/17/2006	ND	0.011 J				504.1
	10/17/2006			ND	4.6	ND	TVOL
	12/26/2006	ND	0.011 J				504.1
	12/26/2006			ND	4.9	ND	TVOL
	3/13/2007	ND	0.012 J				504.1
	3/13/2007			0.25 J	5.7 J	ND	TVOL
	6/12/2007	ND	0.013 J				504.1
	6/12/2007			0.23 J	5.4 J	0.14 J	TVOL
	10/4/2007	ND	ND				504.1
	10/4/2007			ND	4.2	ND	TVOL
	12/21/2007	ND	ND				504.1
	12/21/2007			ND	4.3	ND	TVOL
	3/20/2008	ND	ND				504.1
	3/20/2008			ND	4.3	ND	TVOL
	6/3/2008	ND	ND				504.1
	6/3/2008			ND	2.9	ND	TVOL
	10/1/2008	ND	ND				504.1

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	10/1/2008			ND	5	ND	TVOL
	12/12/2008	ND	ND				504.1
	12/12/2008					0.039	524.2 SIM
	12/12/2008			ND	1.9		TVOL
	3/17/2009	ND	ND				5041
	3/17/2009					ND	524.2 SIM
	3/17/2009			ND	3.3		TVOL
	6/8/2009	ND	ND				5041
	6/8/2009					0.04	5242SIM
	6/8/2009			ND	3.2		TVOL
	10/1/2009	ND	0.0075			0.048	5242SIM
	10/1/2009			ND	1.6		TVOL
	12/4/2009	ND	0.01			0.043	5242SIM
	12/4/2009			ND	1.2		TVOL
	3/11/2010	ND	0.0099			0.046	5242SIM
	3/11/2010			ND	1.4		TVOL
	6/24/2010	ND	0.01			0.043	5242SIM
	6/24/2010			ND	2.8 J		TVOL
	10/6/2010	ND	0.0058			0.036	5242SIM
	10/6/2010			ND	1.8		TVOL
	12/13/2010	ND	0.0057			0.029	5242SIM
	12/13/2010			0.3 J	5.2 J		TVOL
	3/22/2011	ND	0.0067			0.048	5242SIM
	3/22/2011			0.27 J	3.8		TVOL
	7/6/2011	ND	0.008 J			0.043 J	5242SIM
	7/6/2011			ND	3.5		TVOL
	09/22/2011			< 0.5	0.97		TVOL
	09/22/2011	< 0.01	0.0041 J			0.029	E524.2S
	12/14/2011			< 0.5	1.6		TVOL
	12/15/2011	< 0.01	0.0046 J			0.033	E524.2S
X-1A	6/26/1995	3.1 J	28000 J				504.1
	6/26/1995			17000 J	0.9 J		624/25ML
	10/17/1995	1 J	10000	22000	0.9		624/25ML
	5/28/1996	0.43 J	990 J				504.1
	5/29/1996	1 J	3900 D	9600 D	0.8		624/25ML
	10/8/1996	0.28 J	480 J				504.1
	10/8/1996			4600	0.5		624/25ML
	3/31/1997	0.37 J	550 J				504.1
	3/31/1997			5600	ND		624/25ML
	7/1/1997	0.26 J	190 J				504.1
	7/1/1997			4900	ND	150	624/25ML
	10/23/1997	ND	840	6200	ND	170	624/5ML
	1/29/1998	ND	910	6400	ND	200	624/5ML
	5/21/1998	ND	740	4500	ND	310	624/5ML
	8/19/1998	6 J	470	4100	ND	170	624/5ML
	12/1/1998	ND	ND	ND	ND	ND	624/5ML
	3/17/1999	ND	400	2900	ND	170	624/25ML
	7/1/1999	ND	400	2400	ND	130	624/5ML
	9/15/1999	ND	300	2500	ND	100	624/25ML
	12/21/1999	ND	250	2100	ND	68	624/25ML
	3/30/2000	ND	300	2400	ND	70	624/25ML
	7/6/2000	0.03 J	27 J				504.1
	7/6/2000			1800	ND	78	524.2
	10/9/2000	0.01 J	9.5				504.1
	10/9/2000			1500	ND	30	524.2
	12/18/2000	0.06	58 J				504.1
	12/18/2000			1700	ND	80	524.2
	4/26/2001	0.09	90 J				504.1
	4/26/2001			2100	ND	110	524.2
	6/12/2001	0.07	44 J				504.1
	6/12/2001			2600	ND	100	524.2
	10/3/2001	0.02	1.2				504.1
	10/3/2001			80	ND	2	524.2
	1/21/2002	0.03	78 J				504.1
	1/21/2002			3300	ND	150	524.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	4/10/2002	0.04	4.4				504.1
	4/10/2002			3400	ND	54	524.2
	7/5/2002	ND	5.1				504.1
	7/5/2002			280	ND	19	524.2
	9/27/2002	0.02	33 J				504.1
	9/27/2002			1200	ND	50	524.2
	12/23/2002	ND	340	4500	ND	220	524.2
	3/31/2003	ND	150 D	2900 D	ND		VOCS
	6/12/2003	ND	170 D	2400 D	ND		OLC03.2
	9/22/2003	ND	85	760 DB	ND	ND	OLC03.2
	12/8/2003	ND	75 D	1400 D	ND	79 D	OLC03.2
	3/16/2004	ND	1.2	110 D	ND	8.3	OLC03.2
	6/16/2004	ND	79	800 D	ND	78	OLC03.2
	10/8/2004	ND	15	420 D	ND	36 E	OLC03.2
	11/29/2004	ND	14	500 D	ND	43 E	OLC03.2
	3/11/2005	ND	54	450 D	ND	91	OLC03.2
	6/1/2005	ND	55	730 D	ND	86 D	OLC03.2
	9/7/2005	ND	22	340 D	ND	21	OLC032
	12/13/2005	ND	9.2	280	ND	17	OLC032
	3/9/2006	ND	46	510 D	ND	38	OLC032
	6/9/2006	ND	ND	760 D	ND	52 D	OLC032
	10/17/2006	ND	7.8				504.1
	10/17/2006			260	ND	ND	TVOL
	1/2/2007	ND	7	260 D	ND	26 D	TVOL
	3/7/2007	ND	8	320	ND	26	TVOL
	6/13/2007	ND	3.4 J	160 J	ND	16 J	TVOL
	10/15/2007	ND	1.2	100	ND	8.7	TVOL
	12/21/2007	ND	1.1	120	ND	11	TVOL
	3/11/2008	ND	2.3	190	ND	13	TVOL
	6/11/2008	ND	0.95	100	ND	11	TVOL
	9/29/2008	ND	1.5	87	ND	6.9	TVOL
	12/11/2008	ND	2	62	ND	6	TVOL
	3/19/2009	ND	2.4	140	ND	15	TVOL
	6/2/2009	ND	0.89	97 E	ND	8.5	TVOL
	9/14/2009	ND	ND	29	ND	2.6	TVOL
	12/16/2009	ND	7.5	39	ND	2.8	TVOL
	3/9/2010	ND	3.9	43	ND	2	TVOL
	6/14/2010	ND	2.1	34	ND	1.5	TVOL
	9/24/2010	ND	1.3	51	ND	3.4	TVOL
	12/6/2010	ND	0.72	67	ND	4.8	TVOL
	3/1/2011	ND	0.24 J	22	ND	1.8	TVOL
	6/23/2011	ND	ND	8	ND	0.61	TVOL
	09/08/2011	< 0.5	< 0.5	3	< 0.5	< 0.5	TVOL
	12/08/2011	< 0.5	< 0.5	5.2 J	< 0.5	< 0.5	TVOL
X-1B	6/30/1995	0.2 J	3800				504.1
	6/30/1995			6100	1		624/25ML
	10/19/1995	0.2 J	8200	14000	1		624/25ML
	5/23/1996	0.61 J	0.05 J				504.1
	5/23/1996			11000 D	1 J		624/25ML
	10/9/1996	0.27 J	570 J				504.1
	10/9/1996			21000	ND		624/25ML
	4/1/1997	0.2 J	2200 J				504.1
	4/1/1997			6300	0.9		624/25ML
	6/24/1997	0.2 J	2200 J				504.1
	6/24/1997			9300	2	370	624/25ML
	10/24/1997	ND	7000	11000	ND	140	624/5ML
	2/4/1998	ND	1700	6600	ND	240	624/5ML
	5/22/1998	9 J	1200	4600	ND	330	624/5ML
	8/20/1998	88	4000	6400	ND	180	624/5ML
	12/1/1998	ND	ND	ND	ND	ND	624/5ML
	3/18/1999	ND	800	2700	ND	200	624/25ML
	7/1/1999	ND	2200	3400	ND	150	624/5ML
	9/15/1999	ND	1900	4700	ND	250	624/25ML
	12/21/1999	ND	31	4100	ND	160	624/25ML
	3/30/2000	ND	0.61 J				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/30/2000			3900	ND	120	624/25ML
	7/6/2000	0.1	1400 J				504.1
	7/6/2000			4200	0.7	240	524.2
	10/9/2000	0.1	1600 J				504.1
	10/9/2000			5700	0.7	160	524.2
	12/15/2000	0.07	1100 J				504.1
	12/15/2000			4400	0.8	180	524.2
	4/26/2001	0.08	1200 J				504.1
	4/26/2001			3000	0.6	150	524.2
	6/14/2001	0.11	1400 J				504.1
	6/14/2001			5700	0.7	240	524.2
	10/3/2001	0.2	220 J				504.1
	10/3/2001			2500	ND	70	524.2
	1/23/2002	0.04	500 J				504.1
	1/23/2002			7700	0.7	200	524.2
	4/10/2002	ND	260	4200	0.4 J	170	524.2
	7/5/2002	0.02	240 J				504.1
	7/5/2002			4200	0.4 J	110	524.2
	9/26/2002	0.03	300 J				504.1
	9/26/2002			3800	0.3 J	130	524.2
	12/23/2002	ND	1200	6200	ND	260	524.2
	3/31/2003	ND	240 D	2800 D	ND		VOCS
	6/26/2003	ND	590 D	1700 D	ND		OLC03.2
	9/19/2003	ND	750 D	2100 D	0.36 J	ND	OLC03.2
	12/17/2003	ND	250 D	1600 D	ND	85 D	OLC03.2
	3/16/2004	ND	690 D	1600 D	ND	98	OLC03.2
	6/15/2004	ND	19	620 D	ND	ND	OLC03.2
	9/9/2004	ND	480 D	1200 D	ND	85	OLC03.2
	12/10/2004	ND	440 D	1200 D	ND	92 D	OLC03.2
	3/14/2005	ND	240	750 D	ND	91 JD	OLC03.2
	6/14/2005	ND	210	950 D	ND	91	OLC03.2
	9/13/2005	ND	160	560 D	ND	42	OLC032
	12/13/2005	ND	74	700	ND	32	OLC032
	3/10/2006	ND	18	440 D	ND	28	OLC032
	6/9/2006	ND	12	500 D	ND	23	OLC032
	10/13/2006	ND	2.2 J	290	ND	18 J	TVOL
	1/3/2007	ND	2.4	220 D	ND	13	TVOL
	3/8/2007	ND	2.4 J	250	ND	12	TVOL
	5/30/2007	ND	2	280	ND	13	TVOL
	9/26/2007	ND	2.1	210	ND	13	TVOL
	12/21/2007	ND	2.1	200	ND	12	TVOL
	3/27/2008	ND	ND	190	ND	9.4	TVOL
	6/11/2008	ND	1.6	190	ND	13	TVOL
	9/30/2008	ND	2.3	310	ND	16	TVOL
	12/12/2008	ND	0.66	110	ND	6.7	TVOL
	3/17/2009	ND	1	220	ND	14	TVOL
	6/4/2009	ND	ND	230	ND	18	TVOL
	9/16/2009	ND	2.1	180	ND	8.4	TVOL
	12/17/2009	ND	0.48 J	99	ND	5	TVOL
	3/19/2010	ND	0.42 J	65	ND	3.7	TVOL
	6/15/2010	ND	0.46 J	110	ND	3.6	TVOL
	9/24/2010	ND	0.65	130	ND	7.2	TVOL
	12/9/2010	ND	0.73	120	ND	7.7	TVOL
	3/2/2011	ND	0.62	130	ND	6.7	TVOL
	6/23/2011	ND	0.62	150	ND	6.5	TVOL
	09/09/2011	< 0.5	< 0.5	71	< 0.5	5.1	TVOL
	12/09/2011	< 0.5	< 0.5	200	< 0.5	7.1	TVOL
X-1C	6/27/1995	ND	0.74				504.1
	6/27/1995			1	ND		624/25ML
	10/17/1995	ND	0.4 J	1 J	ND		624/25ML
	10/18/1995	ND	0.45				504.1
	7/10/2000	ND	0.51				504.1
	7/10/2000			8	ND	ND	524.2
	10/9/2000	ND	15 J				504.1
	10/9/2000			360	ND	ND	524.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/15/2000	ND	12 J				504.1
	12/15/2000			520	ND	ND	524.2
	4/26/2001	ND	0.22				504.1
	4/26/2001			0.6 J	ND	ND	524.2
	6/14/2001	ND	5.3				504.1
	6/14/2001			430	ND	ND	524.2
	10/3/2001	ND	5.1				504.1
	10/3/2001			400	ND	ND	524.2
	1/23/2002	ND	1.7				504.1
	1/23/2002			60	ND	ND	524.2
	4/10/2002	ND	0.04				504.1
	4/10/2002			ND	ND	ND	524.2
	6/24/2002	ND	0.1				504.1
	6/24/2002			2	ND	ND	524.2
	9/11/2002	ND	0.05				504.1
	9/11/2002			ND	ND	ND	524.2
	12/10/2002	ND	0.03				504.1
	12/10/2002			ND	ND	ND	524.2
	3/18/2003	ND	0.082				504.1
	3/18/2003			1	ND		VOCS
	6/26/2003	ND	0.031				504.1
	6/26/2003			0.51	ND		OLC03.2
	9/18/2003	ND	ND				504.1
	9/18/2003			0.12 J	ND	ND	OLC03.2
	12/15/2003	ND	0.017 J				504.1
	12/15/2003			0.15 J	0.11 J	ND	OLC03.2
	3/10/2004	ND	ND				504.1
	3/10/2004			ND	0.092 J	ND	OLC03.2
	6/10/2004	ND	0.037 J				504.1
	6/10/2004			0.45 J	ND	ND	OLC03.2
	9/9/2004	ND	ND				504.1
	9/9/2004			0.16 J	ND	ND	OLC03.2
	12/9/2004	ND	0.019 J				504.1
	12/9/2004			ND	ND	ND	OLC03.2
	3/11/2005	ND	0.023				504.1
	3/11/2005			ND	ND	ND	OLC03.2
	6/14/2005	ND	0.031				504.1
	6/14/2005			ND	ND	ND	OLC03.2
	9/21/2005	ND	0.016 J				504.1
	9/21/2005			0.32 J	ND	ND	OLC032
	12/13/2005	ND	0.017 J				504.1
	12/13/2005			0.33 J	ND	ND	OLC032
	3/9/2006	ND	0.017 J				504.1
	3/9/2006			0.43 J	ND	ND	OLC032
	6/9/2006	ND	0.024				504.1
	6/9/2006			0.45 J	ND	ND	OLC032
	10/13/2006	ND	0.017 J				504.1
	10/13/2006			ND	ND	ND	TVOL
	1/2/2007	ND	0.015 J				504.1
	1/2/2007			ND	ND	ND	TVOL
	3/16/2007	ND	0.012 J				504.1
	3/16/2007			0.39 J	ND	ND	TVOL
	6/13/2007	ND	0.014 J				504.1
	6/13/2007			0.33 J	ND	ND	TVOL
	9/26/2007	ND	ND				504.1
	9/26/2007			ND	ND	ND	TVOL
	12/20/2007	ND	ND				504.1
	12/20/2007			0.32 J	ND	ND	TVOL
	3/26/2008	ND	ND				504.1
	3/26/2008			0.31 J	ND	ND	TVOL
	6/10/2008	ND	ND				504.1
	6/10/2008			0.54	ND	ND	TVOL
	9/29/2008	ND	ND				504.1
	9/29/2008			0.69	ND	ND	TVOL
	12/11/2008	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/11/2008			0.37 J	ND	ND	TVOL
	3/16/2009	ND	ND				5041
	3/16/2009					ND	524.2 SIM
	3/16/2009			0.56	ND		TVOL
	6/2/2009	ND	ND				5041
	6/2/2009					ND	5242SIM
	6/2/2009			0.74	ND		TVOL
	9/14/2009	ND	ND			ND	5242SIM
	9/14/2009			ND	ND		TVOL
	12/16/2009	ND	0.0033 J			ND	5242SIM
	12/16/2009			0.34 J	ND		TVOL
	3/18/2010	ND	0.0028 J			ND	5242SIM
	3/18/2010			0.31 J	ND		TVOL
	6/14/2010	ND	0.0029 J			ND	5242SIM
	6/14/2010			ND	ND		TVOL
	9/24/2010	ND	0.0027 J			ND	5242SIM
	9/24/2010			0.87	ND		TVOL
	12/6/2010	ND	0.0043 J			ND	5242SIM
	12/6/2010			1.3	ND		TVOL
	3/1/2011	ND	ND			ND	5242SIM
	3/1/2011			0.84	ND		TVOL
	6/23/2011	ND	0.0035 J			0.0025 J	5242SIM
	6/23/2011			0.93	ND		TVOL
	09/08/2011			0.7 J	< 0.5		TVOL
	09/08/2011	< 0.01	0.0096			0.0046 J	E524.2S
	12/08/2011			1	< 0.5		TVOL
	12/08/2011	< 0.01	0.0034 J			0.0028 J	E524.2S
X-2A	10/17/1995	ND	0.5 J				504.1
	10/17/1995			12	ND		624/25ML
	5/28/1996	ND	0.06 J				504.1
	5/28/1996			0.4 J	ND		624/25ML
	10/23/1997	0.44	7 J				504.1
	10/23/1997			99	ND	2	624/25ML
	1/29/1998	0.03 J	1.2 J				504.1
	1/29/1998			ND	ND	4	624/25ML
	5/21/1998	0.02 J	0.23 J				504.1
	5/21/1998			11	ND	2	624/25ML
	8/19/1998	0.01 J	0.06				504.1
	8/19/1998			4	ND	1	624/25ML
	12/2/1998	0.03 J	ND				504.1
	12/2/1998			13	ND	3	624/25ML
	12/4/1998	0.04 J	0.84				504.1
	12/4/1998			13	ND	2	624/25ML
	3/17/1999	ND	1 J				504.1
	3/17/1999			20	ND	ND	624/25ML
	6/25/1999	0.03 J	1.9 J				504.1
	6/25/1999			40	ND	3	624/25ML
	9/13/1999	ND	2.9				504.1
	9/13/1999			110	ND	3	624/25ML
	12/17/1999	ND	3				504.1
	12/17/1999			41	0.6	3	624/25ML
	3/29/2000	0.03 J	1.5				504.1
	3/29/2000			20	0.8	2	624/25ML
	7/6/2000	ND	1.6				504.1
	7/6/2000			3	ND	ND	524.2
	10/9/2000	0.01 J	0.15				504.1
	10/9/2000			2	ND	ND	524.2
	12/18/2000	0.04	2.1				504.1
	12/18/2000			26	0.6	2	524.2
	4/26/2001	0.03	1.2				504.1
	4/26/2001			13	0.7	1	524.2
	6/12/2001	0.03	0.84				504.1
	6/12/2001			10	0.6	1	524.2
	10/3/2001	0.03	0.56				504.1
	10/3/2001			11	0.5 J	1	524.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	1/21/2002	0.02	0.28				504.1
	1/21/2002			9	0.9	2	524.2
	4/4/2002	0.02	0.34				504.1
	4/4/2002			5	0.6	0.9 J	524.2
	6/26/2002	0.03	0.4				504.1
	6/26/2002			8	0.6	1	524.2
	9/27/2002	0.02	0.31				504.1
	9/27/2002			6	0.4 J	0.8 J	524.2
	12/16/2002	0.02	0.28				504.1
	12/16/2002			6	0.4 J	0.9 J	524.2
	3/20/2003	0.014 J	0.22				504.1
	3/20/2003			5	0.6		VOCS
	6/12/2003	0.012 J	0.18 J				504.1
	6/12/2003			2.8	0.4 J		OLC03.2
	9/22/2003	0.016 J	0.2				504.1
	9/22/2003			3	0.36 J	0.98	OLC03.2
	12/8/2003	ND	0.26 J	3.4	0.32 J	0.72	OLC03.2
	3/17/2004	ND	0.14				504.1
	3/17/2004			2.4	0.33 J	0.64	OLC03.2
	6/9/2004	ND	0.13 J				504.1
	6/9/2004			1.8	0.11 J	0.24 J	OLC03.2
	9/16/2004	ND	0.1				504.1
	9/16/2004			1.7	0.17 J	0.56	OLC03.2
	11/29/2004	ND	0.11				504.1
	11/29/2004			1.6	0.15 J	0.44 J	OLC03.2
	3/16/2005	ND	0.022				504.1
	3/16/2005			0.48 J	ND	0.25 J	OLC03.2
	6/8/2005	ND	0.068				504.1
	6/8/2005			0.85	ND	0.19 J	OLC03.2
	9/8/2005	ND	0.068				504.1
	9/8/2005			1	ND	0.22 J	OLC032
	12/14/2005	ND	0.064				504.1
	12/14/2005			0.82	ND	0.2 J	OLC032
	3/13/2006	ND	0.039				504.1
	3/13/2006			0.76	ND	0.17 J	OLC032
	6/13/2006	ND	0.024				504.1
	6/13/2006			0.54	ND	0.1 J	OLC032
	10/17/2006	ND	0.047				504.1
	10/17/2006			0.68	ND	ND	TVOL
	1/3/2007	ND	0.023				504.1
	1/3/2007			ND	ND	ND	TVOL
	3/14/2007	ND	ND				504.1
	3/14/2007			ND	ND	ND	TVOL
	6/13/2007	ND	ND				504.1
	6/13/2007			ND	ND	ND	TVOL
	10/15/2007	ND	ND				504.1
	10/15/2007			ND	ND	ND	TVOL
	12/21/2007	ND	ND				504.1
	12/21/2007			ND	ND	ND	TVOL
	3/20/2008	ND	ND				504.1
	3/20/2008			ND	ND	ND	TVOL
	6/3/2008	ND	ND				504.1
	6/3/2008			ND	ND	ND	TVOL
	10/1/2008	ND	ND				504.1
	10/1/2008			ND	ND	ND	TVOL
	12/12/2008	ND	ND				504.1
	12/12/2008			ND	ND	ND	TVOL
	3/19/2009	ND	ND				5041
	3/19/2009					0.0029 J	524.2 SIM
	3/19/2009			ND	ND		TVOL
	6/11/2009	ND	ND				5041
	6/11/2009					ND	5242SIM
	6/11/2009			ND	ND		TVOL
	9/29/2009	ND	ND			ND	5242SIM
	9/29/2009			ND	ND		TVOL

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/9/2009	ND	ND			ND	5242SIM
	12/9/2009			ND	ND		TVOL
	3/9/2010	ND	ND			ND	5242SIM
	3/9/2010			ND	ND		TVOL
	6/24/2010	ND	ND			ND	5242SIM
	6/24/2010			ND	ND		TVOL
	10/4/2010	ND	ND			ND	5242SIM
	10/4/2010			ND	ND		TVOL
	12/16/2010	ND	ND			ND	5242SIM
	12/16/2010			ND	ND		TVOL
	3/22/2011	ND	ND			ND	5242SIM
	3/22/2011			ND	ND		TVOL
	7/5/2011	ND	ND			ND	5242SIM
	7/5/2011			ND	ND		TVOL
	09/29/2011			< 0.5	< 0.5		TVOL
	09/29/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/06/2011			< 0.5	< 0.5		TVOL
	12/06/2011	0.0096 J	< 0.005			< 0.005	E524.2S
X-2B	10/17/1995	11 J	220	750	ND		624/25ML
	5/28/1996	1.8 J	49 J				504.1
	5/28/1996			230 J	0.5 J		624/25ML
	6/25/1999	2.3	15 J				504.1
	6/25/1999			140	ND	4	624/25ML
	9/13/1999	1.4	8				504.1
	9/13/1999			80	ND	4	624/25ML
	12/17/1999	1.8	12 J				504.1
	12/17/1999			110	ND	2	624/25ML
	3/29/2000	0.04 J	1.6				504.1
	3/29/2000			19	0.8	2	624/25ML
	7/6/2000	0.16	2.3				504.1
	7/6/2000			16	ND	ND	524.2
	10/9/2000	5.5	58 J				504.1
	10/9/2000			310	ND	9	524.2
	12/18/2000	2.2	23 J				504.1
	12/18/2000			150	ND	4	524.2
	4/26/2001	2.4	37 J				504.1
	4/26/2001			180	ND	5	524.2
	6/12/2001	0.03	0.72				504.1
	6/12/2001			16	0.4 J	ND	524.2
	10/3/2001	1.8	23 J				504.1
	10/3/2001			140	ND	4	524.2
	1/21/2002	3.1	43 J				504.1
	1/21/2002			350	ND	9	524.2
	4/8/2002	ND	0.23				504.1
	4/8/2002			2	ND	ND	524.2
	6/26/2002	3.4	39 J				504.1
	6/26/2002			300	ND	8	524.2
	9/26/2002	1.8	63 J				504.1
	9/26/2002			340	ND	6	524.2
	12/19/2002	1 J	24	160	ND	2	524.2
	3/31/2003	ND	19	68	ND		VOCS
	6/12/2003	ND	18	67 D	ND		OLC03.2
	9/22/2003	2.1	18	79 DB	ND	ND	OLC03.2
	12/19/2003	ND	36 D	160 D	ND	6.3	OLC03.2
	3/17/2004	ND	23 D	74 D	0.074 J	ND	OLC03.2
	6/16/2004	0.29 J	14	44 D	0.055 J	1.9	OLC03.2
	9/16/2004	ND	9.3	38 D	ND	1.4 JD	OLC03.2
	11/29/2004	ND	5.8	25 D	ND	1.1 D	OLC03.2
	3/16/2005	0.16 J	4.3	24	ND	1.2	OLC03.2
	6/8/2005	ND	3.9	23	ND	1.2	OLC03.2
	9/8/2005	0.14	2.1				504.1
	9/8/2005			16	ND	0.45 J	OLC032
	12/14/2005	0.16 J	1.4	13	ND	0.27 J	OLC032
	3/13/2006	0.15 J	1.9	14	ND	0.37 J	OLC032
	6/13/2006	ND	1.2	12	ND	0.25 J	OLC032

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	10/17/2006	ND	0.62	8	ND	ND	TVOL
	1/3/2007	ND	0.68	9.1	ND	ND	TVOL
	3/14/2007	ND	0.9 J	11 J	ND	0.21 J	TVOL
	6/13/2007	ND	0.84 J	9.7 J	ND	0.21 J	TVOL
	10/15/2007	ND	0.65	8.6	ND	0.17 J	TVOL
	12/21/2007	ND	0.58	8	ND	0.17 J	TVOL
	3/20/2008	ND	ND	8.1	ND	ND	TVOL
	6/9/2008	ND	0.62	7.4	0.091 J	0.22 J	TVOL
	10/1/2008	0.15 J	0.77	9.2	0.081 J	0.25 J	TVOL
	12/12/2008	ND	ND	4	ND	ND	TVOL
	3/19/2009	ND	ND	7.5	ND	ND	TVOL
	6/11/2009	0.044	0.47				5041
	6/11/2009					0.12	5242SIM
	6/11/2009			7.3	ND		TVOL
	9/18/2009	ND	0.31 J	3.9	ND	ND	TVOL
	12/9/2009	ND	0.22 J	3.4	ND	ND	TVOL
	3/9/2010	ND	0.2 J	3.1	ND	ND	TVOL
	6/24/2010	0.5 R	ND	7.6 J	ND	0.5 R	TVOL
	10/4/2010	ND	0.53	8.1	ND	ND	TVOL
	12/16/2010	0.017 J	0.23			0.065	5242SIM
	12/16/2010			ND	ND		TVOL
	3/22/2011	0.023	0.3			0.14	5242SIM
	3/22/2011			7.4	ND		TVOL
	7/5/2011	0.036 J	0.62			0.17 J	5242SIM
	7/5/2011			7.9	ND		TVOL
	09/29/2011	< 0.5	0.29 J	5.1	< 0.5	< 0.5	CVOL
	12/06/2011	< 0.5	< 0.5	9.1	< 0.5	< 0.5	CVOL
X-3A	6/26/1995	ND	ND				504.1
	6/26/1995			0.2 J	ND		624/25ML
	10/17/1995	ND	0.08				504.1
	10/17/1995			1 J	ND		624/25ML
	5/28/1996	ND	ND				504.1
	5/28/1996			ND	ND		624/25ML
	7/7/2000	ND	0.48				504.1
	7/7/2000			0.6 J	ND	ND	524.2
	10/6/2000	ND	ND				504.1
	10/6/2000			ND	ND	ND	524.2
	12/18/2000	ND	ND				504.1
	12/18/2000			ND	ND	ND	524.2
	4/26/2001	0.76 J	19 J				504.1
	4/26/2001			35	ND	2	524.2
	6/12/2001	2.8	78 J				504.1
	6/12/2001			320	ND	9	524.2
	10/3/2001	1.8	56 J				504.1
	10/3/2001			220	ND	7	524.2
	1/21/2002	ND	ND				504.1
	1/21/2002			ND	ND	ND	524.2
	4/8/2002	ND	0.01 J				504.1
	4/8/2002			ND	ND	ND	524.2
	6/24/2002	ND	0.12				504.1
	6/24/2002			ND	ND	ND	524.2
	9/27/2002	ND	0.86				504.1
	9/27/2002			2	ND	ND	524.2
	12/16/2002	ND	ND				504.1
	12/16/2002			ND	ND	ND	524.2
	3/20/2003	ND	ND				504.1
	3/20/2003			ND	ND		VOCS
	6/10/2003	ND	ND				504.1
	6/10/2003			ND	ND		OLC03.2
	9/15/2003	ND	ND				504.1
	9/15/2003			ND	ND	ND	OLC03.2
	12/19/2003	ND	ND				504.1
	12/19/2003			ND	ND	ND	OLC03.2
	3/17/2004	ND	ND				504.1
	3/17/2004			ND	ND	ND	OLC03.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/14/2004	ND	ND				504.1
	6/14/2004			ND	0.096 J	ND	OLC03.2
	10/7/2004	ND	ND				504.1
	10/7/2004			ND	ND	ND	OLC03.2
	12/10/2004	ND	ND				504.1
	12/10/2004			ND	ND	ND	OLC03.2
	3/15/2005	ND	ND				504.1
	3/15/2005			ND	ND	ND	OLC03.2
	6/14/2005	ND	ND				504.1
	6/14/2005			ND	ND	ND	OLC03.2
	9/26/2005	ND	ND				504.1
	9/26/2005			ND	ND	ND	OLC032
	12/13/2005	ND	ND				504.1
	12/13/2005			0.63	ND	ND	OLC032
	3/10/2006	ND	ND				504.1
	3/10/2006			ND	ND	ND	OLC032
	6/9/2006	ND	ND				504.1
	6/9/2006			ND	ND	ND	OLC032
	10/12/2006	ND	ND				504.1
	10/12/2006			ND	ND	ND	TVOL
	1/3/2007	ND	ND				504.1
	1/3/2007			ND	ND	ND	TVOL
	3/15/2007	ND	ND				504.1
	3/15/2007			ND	ND	ND	TVOL
	6/12/2007	ND	ND				504.1
	6/12/2007			ND	ND	ND	TVOL
	9/26/2007	ND	ND				504.1
	9/26/2007			ND	ND	ND	TVOL
	12/21/2007	ND	ND				504.1
	12/21/2007			ND	ND	ND	TVOL
	3/26/2008	ND	ND				504.1
	3/26/2008			ND	ND	ND	TVOL
	6/9/2008	ND	ND				504.1
	6/9/2008			ND	ND	ND	TVOL
	9/17/2008	ND	ND				504.1
	9/17/2008			ND	ND	ND	TVOL
	12/11/2008	ND	ND				504.1
	12/11/2008			ND	ND	ND	TVOL
	3/18/2009	ND	ND				5041
	3/18/2009					0.054	524.2 SIM
	3/18/2009			ND	ND		TVOL
	6/12/2009	ND	ND				5041
	6/12/2009					ND	5242SIM
	6/12/2009			ND	ND		TVOL
	9/16/2009	ND	ND			ND	5242SIM
	9/16/2009			ND	ND		TVOL
	12/17/2009	ND	ND			ND	5242SIM
	12/17/2009			ND	ND		TVOL
	3/23/2010	ND	ND			ND	5242SIM
	3/23/2010			ND	ND		TVOL
	6/24/2010	ND	ND			ND	5242SIM
	6/24/2010			ND	ND		TVOL
	10/5/2010	ND	ND			ND	5242SIM
	10/5/2010			ND	ND		TVOL
	12/14/2010	ND	ND			ND	5242SIM
	12/14/2010			ND	ND		TVOL
	3/18/2011	ND	ND			ND	5242SIM
	3/18/2011			ND	ND		TVOL
	7/11/2011	ND	ND			ND	5242SIM
	7/11/2011			ND	ND		TVOL
	09/09/2011			< 0.5	< 0.5		TVOL
	09/09/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/09/2011			< 0.5	< 0.5		TVOL
	12/09/2011	< 0.01	< 0.005			< 0.005	E524.2S
X-3B	6/26/1995	ND	0.53				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/26/1995			ND	ND		624/25ML
	10/17/1995	1 J	21	110	ND		624/25ML
	5/29/1996	1	52 J				504.1
	5/29/1996			330 D	ND		624/25ML
	6/25/1999	3.1	140 J				504.1
	6/25/1999			800	ND	13	624/25ML
	9/13/1999	3	310	820	ND	19	624/25ML
	12/17/1999	9.2	240 J				504.1
	12/17/1999			1100	ND	26	624/25ML
	3/30/2000	7	200	500	ND	23	624/25ML
	7/7/2000	0.15	3.5				504.1
	7/7/2000			11	ND	ND	524.2
	10/9/2000	0.06	2.1				504.1
	10/9/2000			6	ND	ND	524.2
	12/18/2000	2.8	69 J				504.1
	12/18/2000			300	ND	8	524.2
	4/26/2001	0.7	18 J				504.1
	4/26/2001			41	ND	2	524.2
	6/12/2001	2.8	81 J				504.1
	6/12/2001			370	ND	9	524.2
	10/3/2001	1.8	55 J				504.1
	10/3/2001			210	ND	7	524.2
	1/21/2002	0.08	1.8				504.1
	1/21/2002			6	ND	ND	524.2
	4/8/2002	3	160 J				504.1
	4/8/2002			1000	0.3 J	17	524.2
	7/3/2002	3.7	250 J				504.1
	7/3/2002			1800	ND	30	524.2
	9/27/2002	5	370 J				504.1
	9/27/2002			1900	ND	33	524.2
	3/31/2003	ND	370 D	970 D	ND		VOCS
	6/12/2003	4	200 D	530 D	ND		OLC03.2
	9/23/2003	1.6	66 D	160 DB	ND	ND	OLC03.2
	12/19/2003	ND	27 D	65 D	ND	3.7 D	OLC03.2
	3/17/2004	ND	1.6	3.8	ND	ND	OLC03.2
	6/17/2004	ND	0.57	1.7	ND	ND	OLC03.2
	9/24/2004	ND	0.59	1.7	ND	ND	OLC03.2
	11/29/2004	ND	0.33 J	1	ND	ND	OLC03.2
	3/15/2005	ND	0.23				504.1
	3/15/2005			0.6	ND	ND	OLC03.2
	6/14/2005	ND	0.22				504.1
	6/14/2005			0.68	ND	ND	OLC03.2
	9/8/2005	ND	0.17				504.1
	9/8/2005			0.57	ND	ND	OLC032
	12/13/2005	ND	0.12				504.1
	12/13/2005			0.46 J	ND	ND	OLC032
	3/10/2006	ND	0.093				504.1
	3/10/2006			0.32 J	ND	ND	OLC032
	6/9/2006	ND	0.08				504.1
	6/9/2006			0.37 J	ND	ND	OLC032
	10/17/2006	ND	0.096				504.1
	10/17/2006			ND	ND	ND	TVOL
	1/3/2007	ND	0.073				504.1
	1/3/2007			0.18 J	ND	ND	TVOL
	3/7/2007	ND	0.066				504.1
	3/7/2007			0.19 J	ND	ND	TVOL
	6/12/2007	ND	0.076				504.1
	6/12/2007			0.22 J	ND	ND	TVOL
	10/15/2007	ND	0.071				504.1
	10/15/2007			ND	ND	ND	TVOL
	12/21/2007	ND	0.051				504.1
	12/21/2007			ND	ND	ND	TVOL
	3/11/2008	ND	0.038				504.1
	3/11/2008			0.3 J	ND	ND	TVOL
	6/9/2008	ND	0.045				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/9/2008			0.16 J	ND	ND	TVOL
	9/17/2008	ND	0.046				504.1
	9/17/2008			ND	ND	ND	TVOL
	12/11/2008	ND	0.021				504.1
	12/11/2008			ND	ND	ND	TVOL
	3/18/2009	ND	0.023				5041
	3/18/2009					0.0037 J	524.2 SIM
	3/18/2009			ND	ND		TVOL
	6/11/2009	ND	0.028				5041
	6/11/2009					0.0032 J	5242SIM
	6/11/2009			ND	ND		TVOL
	9/16/2009	ND	0.049			0.0064	5242SIM
	9/16/2009			ND	ND		TVOL
	12/17/2009	ND	0.027			0.0036 J	5242SIM
	12/17/2009			ND	ND		TVOL
	3/9/2010	ND	0.015			0.003 J	5242SIM
	3/9/2010			ND	ND		TVOL
	6/24/2010	ND	0.025			0.003 J	5242SIM
	6/24/2010			ND	ND		TVOL
	10/5/2010	ND	0.021			0.003 J	5242SIM
	10/5/2010			ND	ND		TVOL
	12/13/2010	ND	0.017			ND	5242SIM
	12/13/2010			ND	ND		TVOL
	3/18/2011	ND	0.018			0.0026 J	5242SIM
	3/18/2011			ND	ND		TVOL
	7/5/2011	ND	0.027			0.0058	5242SIM
	7/5/2011			ND	ND		TVOL
	09/09/2011			< 0.5	< 0.5		TVOL
	09/09/2011	0.005 J	0.056			0.0068	E524.2S
	12/09/2011			< 0.5	< 0.5		TVOL
	12/09/2011	< 0.01	0.046 J			0.0068 J	E524.2S
X-4A	6/23/1995	2.5 J	2.5 J				504.1
	6/23/1995			ND	ND		624/25ML
	10/17/1995	3 J	75	1500	ND		624/25ML
	5/29/1996	0.23	6.7 J				504.1
	5/29/1996			120 D	ND		624/25ML
	7/7/2000	ND	0.35				504.1
	7/7/2000			0.5 J	ND	ND	524.2
	10/6/2000	ND	0.01 J				504.1
	10/6/2000			ND	ND	ND	524.2
	12/18/2000	0.01 J	0.82 J				504.1
	12/18/2000			5	ND	ND	524.2
	4/26/2001	0.01 J	0.62				504.1
	4/26/2001			4	ND	ND	524.2
	6/12/2001	0.01 J	0.58				504.1
	6/12/2001			5	ND	ND	524.2
	10/3/2001	0.01 J	0.47				504.1
	10/3/2001			4	ND	ND	524.2
	1/21/2002	ND	0.16				504.1
	1/21/2002			2	ND	ND	524.2
	4/4/2002	ND	0.33				504.1
	4/4/2002			3	ND	ND	524.2
	6/26/2002	ND	0.2				504.1
	6/26/2002			1	ND	ND	524.2
	9/27/2002	ND	0.25				504.1
	9/27/2002			3	ND	ND	524.2
	12/16/2002	ND	0.16				504.1
	12/16/2002			2	ND	ND	524.2
	3/20/2003	ND	0.064				504.1
	3/20/2003			1	0.05 J		VOCS
	6/12/2003	ND	0.036				504.1
	6/12/2003			0.72	ND		OLC03.2
	9/22/2003	ND	0.078				504.1
	9/22/2003			0.66	ND	ND	OLC03.2
	12/19/2003	ND	0.092				504.1

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/19/2003			1.6	ND	ND	OLC03.2
	3/17/2004	ND	0.02				504.1
	3/17/2004			0.41 J	ND	ND	OLC03.2
	6/16/2004	0.038	1.9				504.1
	6/16/2004			0.53	0.037 J	ND	OLC03.2
	10/5/2004	ND	ND	0.41 J	ND	ND	OLC03.2
	11/29/2004	ND	0.036				504.1
	11/29/2004			88 D	ND	ND	OLC03.2
	3/16/2005	ND	ND	0.8	ND	0.14 J	OLC03.2
	6/14/2005	ND	0.055				504.1
	6/14/2005			0.88	ND	ND	OLC03.2
	9/7/2005	ND	0.047				504.1
	9/7/2005			1.3	ND	0.15 J	OLC032
	12/14/2005	ND	0.039				504.1
	12/14/2005			0.42 J	ND	ND	OLC032
	3/13/2006	ND	ND				504.1
	3/13/2006			0.77	ND	ND	OLC032
	6/13/2006	ND	ND				504.1
	6/13/2006			ND	ND	ND	OLC032
	10/17/2006	ND	ND				504.1
	10/17/2006			ND	ND	ND	TVOL
	1/4/2007	ND	ND				504.1
	1/4/2007			ND	ND	ND	TVOL
	3/7/2007	ND	ND				504.1
	3/7/2007			ND	ND	ND	TVOL
	6/13/2007	ND	ND				504.1
	6/13/2007			ND	ND	ND	TVOL
	10/15/2007	ND	ND				504.1
	10/15/2007			ND	ND	ND	TVOL
	12/21/2007	ND	ND				504.1
	12/21/2007			ND	ND	ND	TVOL
	3/20/2008	ND	ND				504.1
	3/20/2008			ND	ND	ND	TVOL
	6/3/2008	ND	ND				504.1
	6/3/2008			ND	ND	ND	TVOL
	10/1/2008	ND	ND				504.1
	10/1/2008			ND	ND	ND	TVOL
	12/12/2008	ND	ND				504.1
	12/12/2008			ND	ND	ND	TVOL
	3/19/2009	ND	ND				5041
	3/19/2009					ND	524.2 SIM
	3/19/2009			ND	ND		TVOL
	6/11/2009	ND	ND				5041
	6/11/2009					ND	5242SIM
	6/11/2009			ND	ND		TVOL
	9/29/2009	ND	ND			ND	5242SIM
	9/29/2009			ND	ND		TVOL
	12/9/2009	ND	ND			ND	5242SIM
	12/9/2009			ND	ND		TVOL
	3/9/2010	ND	ND			ND	5242SIM
	3/9/2010			ND	ND		TVOL
	6/24/2010	ND	ND			ND	5242SIM
	6/24/2010			ND	ND		TVOL
	10/4/2010	ND	ND			ND	5242SIM
	10/4/2010			ND	ND		TVOL
	12/16/2010	ND	ND			ND	5242SIM
	12/16/2010			ND	ND		TVOL
	3/22/2011	ND	ND			ND	5242SIM
	3/22/2011			ND	ND		TVOL
	7/5/2011	ND	ND			ND	5242SIM
	7/5/2011			ND	ND		TVOL
	09/29/2011			< 0.5	< 0.5		TVOL
	09/29/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/06/2011			< 0.5	< 0.5		TVOL
	12/06/2011	< 0.01	< 0.005			< 0.005	E524.2S

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
X-4B	6/26/1995	ND	ND				504.1
	6/26/1995			ND	ND		624/25ML
	10/17/1995	ND	0.9				504.1
	10/17/1995			4	ND		624/25ML
	5/29/1996	0.16	10 J				504.1
	5/29/1996			140 D	ND		624/25ML
	6/29/1999	0.66	28 J				504.1
	6/29/1999			130	ND	ND	624/25ML
	9/13/1999	1.8	66 J				504.1
	9/13/1999			260	ND	8	624/25ML
	12/20/1999	2	100	340	0.4 J	10	624/25ML
	3/30/2000	2.2	66 J				504.1
	3/30/2000			270	0.6	11	624/25ML
	7/7/2000	ND	0.45				504.1
	7/7/2000			5	ND	ND	524.2
	10/6/2000	0.02	0.6				504.1
	10/6/2000			8	ND	ND	524.2
	12/18/2000	0.02	0.94				504.1
	12/18/2000			17	ND	0.5 J	524.2
	4/26/2001	0.05	2.4				504.1
	4/26/2001			41	ND	1	524.2
	6/12/2001	0.09	3.5				504.1
	6/12/2001			59	ND	ND	524.2
	10/3/2001	0.03	0.41				504.1
	10/3/2001			11	ND	0.9 J	524.2
	1/21/2002	ND	0.11				504.1
	1/21/2002			4	ND	ND	524.2
	4/4/2002	0.05	1.8				504.1
	4/4/2002			35	ND	0.8 J	524.2
	6/27/2002	0.1	3.4				504.1
	6/27/2002			56	ND	2	524.2
	9/27/2002	ND	0.15				504.1
	9/27/2002			8	ND	ND	524.2
	12/16/2002	0.02	0.64				504.1
	12/16/2002			18	ND	ND	524.2
	3/25/2003	0.016 J	0.74				504.1
	3/25/2003			18 D	0.1 JD		VOCS
	6/12/2003	ND	0.33				504.1
	6/12/2003			15	ND		OLC03.2
	9/22/2003	0.018 J	0.73				504.1
	12/19/2003	0.016 J	0.75				504.1
	12/19/2003			43 D	ND	ND	OLC03.2
	3/17/2004	ND	0.29				504.1
	3/17/2004			34 D	ND	ND	OLC03.2
	6/17/2004	0.014 J	0.62				504.1
	6/17/2004			19	0.042 J	0.61	OLC03.2
	10/8/2004	ND	0.47 J	43 D	ND	0.76	OLC03.2
	12/10/2004	ND	0.57				504.1
	12/10/2004			58 D	ND	1 JD	OLC03.2
	3/16/2005	ND	0.49 J	40 D	ND	1.1 JD	OLC03.2
	6/1/2005	ND	0.14				504.1
	6/1/2005			9.1	ND	0.34 J	OLC03.2
	9/7/2005	ND	0.52				504.1
	9/7/2005			18	ND	0.57	OLC032
	12/14/2005	ND	0.31 J	23	ND	0.54	OLC032
	3/13/2006	ND	0.45				504.1
	3/13/2006			15	ND	0.53	OLC032
	6/13/2006	ND	0.34				504.1
	6/13/2006			46 D	ND	0.49 J	OLC032
	10/17/2006	ND	0.41				504.1
	10/17/2006			42	ND	0.69 J	TVOL
	1/4/2007	ND	0.33				504.1
	1/4/2007			31	ND	ND	TVOL
	3/7/2007	ND	0.29				504.1
	3/7/2007			13	ND	0.61 J	TVOL

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/12/2007	ND	0.34				504.1
	6/12/2007			33 J	ND	0.84 J	TVOL
	10/15/2007	ND	0.49				504.1
	10/15/2007			41	ND	0.84	TVOL
	12/21/2007	ND	0.38				504.1
	12/21/2007			31	ND	0.84	TVOL
	3/11/2008	ND	0.28				504.1
	3/11/2008			33	ND	ND	TVOL
	6/9/2008	ND	0.34				504.1
	6/9/2008			39	0.99	0.89	TVOL
	10/1/2008	ND	0.36				504.1
	10/1/2008			41	0.096 J	1.2	TVOL
	12/12/2008	ND	0.39				504.1
	12/12/2008			19	ND	ND	TVOL
	3/19/2009	ND	0.29				5041
	3/19/2009					0.66	524.2 SIM
	3/19/2009			26	ND		TVOL
	6/11/2009	ND	0.36				5041
	6/11/2009			30	ND	0.96	TVOL
	9/29/2009	ND	0.36				5041
	9/29/2009			17	ND	0.41 J	TVOL
	12/9/2009	ND	0.34			0.61	5242SIM
	12/9/2009			14	ND		TVOL
	3/9/2010	ND	0.3			0.6	5242SIM
	3/9/2010			12	ND		TVOL
	6/24/2010	ND	0.34			0.65	5242SIM
	6/24/2010			17 J	ND		TVOL
	10/4/2010	ND	0.27				5242SIM
	10/4/2010			20	ND	0.85	TVOL
	12/16/2010	ND	0.13				5242SIM
	12/16/2010			14	ND	0.66	TVOL
	3/22/2011	ND	0.36				5242SIM
	3/22/2011			28	ND	0.76	TVOL
	7/5/2011	ND	0.24			0.68	5242SIM
	7/5/2011			17	ND		TVOL
	09/27/2011			15	< 0.5		TVOL
	09/27/2011	< 0.01	0.38			0.76	E524.2S
	12/06/2011			6.7	< 0.5		TVOL
	12/06/2011	< 0.01	0.18			0.33	E524.2S
X-5A	4/25/2001	ND	ND				504.1
	4/25/2001			0.8 J	22	ND	524.2
	6/13/2001	ND	ND				504.1
	6/13/2001			0.7 J	21	ND	524.2
	10/2/2001	ND	ND				504.1
	10/2/2001			ND	8.3	ND	524.2
	1/18/2002	ND	ND				504.1
	1/18/2002			ND	14	ND	524.2
	4/2/2002	ND	ND				504.1
	4/2/2002			0.5 J	19	ND	524.2
	6/27/2002	ND	ND				504.1
	6/27/2002			ND	9.1	ND	524.2
	9/23/2002	ND	ND				504.1
	9/23/2002			ND	9	ND	524.2
	12/17/2002	ND	ND				504.1
	12/17/2002			ND	8.8	ND	524.2
	3/20/2003	ND	ND				504.1
	3/20/2003			0.6	12		VOCS
	6/20/2003	ND	ND				504.1
	6/20/2003			0.39 J	8		OLC03.2
	9/18/2003	ND	ND				504.1
	9/18/2003			0.45 J	12	ND	OLC03.2
	12/10/2003	ND	ND				504.1
	12/10/2003			0.34 J	4.1	ND	OLC03.2
	3/9/2004	ND	ND				504.1
	3/9/2004			0.7	9.1	ND	OLC03.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/4/2004	ND	ND				504.1
	6/4/2004			0.41 J	6.7	ND	OLC03.2
	10/7/2004	ND	ND				504.1
	10/7/2004			0.36 J	5.1	ND	OLC03.2
	12/2/2004	ND	ND				504.1
	12/2/2004			ND	6	ND	OLC03.2
	3/8/2005	ND	ND				504.1
	3/8/2005			0.43 J	4.7	ND	OLC03.2
	6/2/2005	ND	ND				504.1
	6/2/2005			0.17 J	2.1	ND	OLC03.2
	9/14/2005	ND	ND				504.1
	9/14/2005			ND	1.7	ND	OLC032
	12/6/2005	ND	ND				504.1
	12/6/2005			0.29 J	3.3	ND	OLC032
	3/1/2006	ND	ND				504.1
	3/1/2006			ND	3.9	ND	OLC032
	6/6/2006	ND	ND				504.1
	6/6/2006			0.72	6.4	ND	OLC032
	9/27/2006	ND	ND				504.1
	9/27/2006			ND	2.4 J	ND	TVOL
	12/22/2006	ND	ND				504.1
	12/22/2006			0.3 J	2.5	ND	TVOL
	3/6/2007	ND	ND				504.1
	3/6/2007			0.53 J	5.1 J	ND	TVOL
	6/6/2007	ND	ND				504.1
	6/6/2007			ND	2.1 J	ND	TVOL
	10/10/2007	ND	ND				504.1
	10/10/2007			ND	1.2	ND	TVOL
	12/12/2007	ND	ND				504.1
	12/12/2007			ND	1.7	ND	TVOL
	3/17/2008	ND	ND				504.1
	3/17/2008			0.31 J	2.9	ND	TVOL
	5/30/2008	ND	ND				504.1
	5/30/2008			ND	0.77	ND	TVOL
	10/6/2008	ND	ND				504.1
	10/6/2008			0.19 J	1.9	ND	TVOL
	12/17/2008	ND	ND				504.1
	12/17/2008			ND	ND	ND	TVOL
	3/9/2009	ND	ND				5041
	3/9/2009					0.013	524.2 SIM
	3/9/2009			ND	1.7		TVOL
	5/29/2009	ND	ND				5041
	5/29/2009					0.0095	5242SIM
	5/29/2009			ND	1.5		TVOL
	9/22/2009	ND	ND			0.013	5242SIM
	9/22/2009			ND	0.92		TVOL
	12/11/2009	ND	ND			0.014	5242SIM
	12/11/2009			ND	0.83		TVOL
	3/12/2010	ND	ND			0.014	5242SIM
	3/12/2010			ND	1.2		TVOL
	6/16/2010	ND	ND			0.011	5242SIM
	6/16/2010			ND	ND		TVOL
	10/1/2010	ND	ND			0.009	5242SIM
	10/1/2010			ND	1.1		TVOL
	12/2/2010	ND	ND			0.012	5242SIM
	12/2/2010			ND	1.1		TVOL
	3/10/2011	ND	ND			0.012	5242SIM
	3/10/2011			ND	1.8		TVOL
	7/8/2011	ND	ND			0.0081	5242SIM
	7/8/2011			ND	1		TVOL
	09/27/2011			< 0.5	0.76		TVOL
	09/27/2011	< 0.01	< 0.005			0.013	E524.2S
	12/12/2011			< 0.5	0.74		TVOL
	12/12/2011	< 0.01	< 0.005			0.013	E524.2S
X-5B	4/25/2001	ND	0.01 J				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	4/25/2001			ND	ND	ND	524.2
	6/13/2001	ND	ND				504.1
	6/13/2001			ND	ND	ND	524.2
	10/2/2001	ND	ND				504.1
	10/2/2001			ND	1.9	ND	524.2
	1/18/2002	ND	ND				504.1
	1/18/2002			ND	3.3	ND	524.2
	4/2/2002	ND	ND				504.1
	4/2/2002			ND	0.4 J	ND	524.2
	6/26/2002	ND	ND				504.1
	6/26/2002			ND	2.4	ND	524.2
	9/19/2002	ND	ND				504.1
	9/19/2002			ND	2.8	ND	524.2
	12/13/2002	ND	ND				504.1
	12/13/2002			ND	ND	ND	524.2
	3/20/2003	ND	ND				504.1
	3/20/2003			ND	1		VOCS
	6/16/2003	ND	ND				504.1
	6/16/2003			0.15 J	2.6		OLC03.2
	9/17/2003	ND	ND				504.1
	9/17/2003			0.2 J	3.2	ND	OLC03.2
	12/10/2003	ND	ND				504.1
	12/10/2003			0.13 J	1.6	ND	OLC03.2
	3/9/2004	ND	ND				504.1
	3/9/2004			0.24 J	3.8	ND	OLC03.2
	6/4/2004	ND	ND				504.1
	6/4/2004			0.34 J	5.5	ND	OLC03.2
	10/7/2004	ND	ND				504.1
	10/7/2004			ND	2.7	ND	OLC03.2
	12/2/2004	ND	ND				504.1
	12/2/2004			ND	2.4	ND	OLC03.2
	3/8/2005	ND	ND				504.1
	3/8/2005			ND	1.2	ND	OLC03.2
	6/2/2005	ND	ND				504.1
	6/2/2005			0.21 J	3	ND	OLC03.2
	9/14/2005	ND	ND				504.1
	9/14/2005			0.23 J	3.4	ND	OLC032
	12/6/2005	ND	ND				504.1
	12/6/2005			0.22 J	2.9	ND	OLC032
	3/1/2006	ND	ND				504.1
	3/1/2006			ND	0.81	ND	OLC032
	6/6/2006	ND	ND				504.1
	6/6/2006			ND	3.1	ND	OLC032
	9/27/2006	ND	ND				504.1
	9/27/2006			ND	2.5 J	ND	TVOL
	12/22/2006	ND	ND				504.1
	12/22/2006			ND	1	ND	TVOL
	3/6/2007	ND	ND				504.1
	3/6/2007			0.2 J	2.4 J	ND	TVOL
	6/6/2007	ND	ND				504.1
	6/6/2007			0.27 J	3.7 J	ND	TVOL
	10/10/2007	ND	ND				504.1
	10/10/2007			ND	2.3	ND	TVOL
	12/12/2007	ND	ND				504.1
	12/12/2007			ND	0.23 J	ND	TVOL
	3/17/2008	ND	ND				504.1
	3/17/2008			ND	1.1	ND	TVOL
	5/30/2008	ND	ND				504.1
	5/30/2008			ND	2	ND	TVOL
	10/6/2008	ND	ND				504.1
	10/6/2008			0.25 J	2.5	ND	TVOL
	12/17/2008	ND	ND				504.1
	12/17/2008			ND	ND	ND	TVOL
	3/9/2009	ND	ND				5041
	3/9/2009					0.0074	524.2 SIM

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	3/9/2009			ND	2.5		TVOL
	5/29/2009	ND	ND				5041
	5/29/2009					0.0068	5242SIM
	5/29/2009			ND	2.9		TVOL
	9/22/2009	ND	ND			ND	5242SIM
	9/22/2009			ND	1.1		TVOL
	12/11/2009	ND	ND			0.0043 J	5242SIM
	12/11/2009			ND	0.56		TVOL
	3/12/2010	ND	ND			0.0078	5242SIM
	3/12/2010			ND	1.4		TVOL
	6/16/2010	ND	ND			0.0069	5242SIM
	6/16/2010			ND	1.9		TVOL
	10/1/2010	ND	ND			0.0042 J	5242SIM
	10/1/2010			ND	1.4		TVOL
	12/2/2010	ND	ND			0.0041 J	5242SIM
	12/2/2010			ND	0.98		TVOL
	3/10/2011	ND	ND			0.0037 J	5242SIM
	3/10/2011			ND	1.6		TVOL
	7/8/2011	ND	ND			0.0066	5242SIM
	7/8/2011			ND	2.6		TVOL
	09/27/2011			< 0.5	0.97		TVOL
	09/27/2011	< 0.01	< 0.005			0.0071	E524.2S
	12/12/2011			< 0.5	0.64		TVOL
	12/12/2011	< 0.01	< 0.005			0.0035 J	E524.2S
X-5C	4/25/2001	ND	ND				504.1
	4/25/2001			ND	0.4 J	ND	524.2
	6/13/2001	ND	ND				504.1
	6/13/2001			ND	0.8	ND	524.2
	10/2/2001	ND	ND				504.1
	10/2/2001			ND	ND	ND	524.2
	1/18/2002	ND	ND				504.1
	1/18/2002			ND	ND	ND	524.2
	3/22/2002	ND	ND				504.1
	3/22/2002			ND	0.3 J	ND	524.2
	6/26/2002	ND	ND				504.1
	6/26/2002			ND	0.9	ND	524.2
	9/20/2002	ND	ND				504.1
	9/20/2002			ND	ND	ND	524.2
	12/13/2002	ND	ND				504.1
	12/13/2002			ND	0.4 J	ND	524.2
	3/20/2003	ND	ND				504.1
	3/20/2003			ND	0.4 J		VOCS
	6/16/2003	ND	ND				504.1
	6/16/2003			0.044 J	0.66		OLC03.2
	9/17/2003	ND	ND				504.1
	9/17/2003			ND	0.83	ND	OLC03.2
	3/9/2004	ND	ND				504.1
	3/9/2004			ND	0.77	ND	OLC03.2
	6/4/2004	ND	ND				504.1
	6/4/2004			ND	1.4	ND	OLC03.2
	10/7/2004	ND	ND				504.1
	10/7/2004			0.055 J	0.61	ND	OLC03.2
	12/2/2004	ND	ND				504.1
	12/2/2004			ND	0.35 J	ND	OLC03.2
	3/8/2005	ND	ND				504.1
	3/8/2005			ND	0.15 J	ND	OLC03.2
	6/2/2005	ND	ND				504.1
	6/2/2005			ND	0.49 J	ND	OLC03.2
	9/14/2005	ND	ND				504.1
	9/14/2005			ND	0.56	ND	OLC032
	12/6/2005	ND	ND				504.1
	12/6/2005			ND	0.25 J	ND	OLC032
	3/1/2006	ND	ND				504.1
	3/1/2006			ND	0.18 J	ND	OLC032
	6/6/2006	ND	ND				504.1

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/6/2006			ND	0.38 J	ND	OLC032
	9/27/2006	ND	ND				504.1
	9/27/2006			ND	ND	ND	TVOL
	12/22/2006	ND	ND				504.1
	12/22/2006			ND	ND	ND	TVOL
	3/6/2007	ND	ND				504.1
	3/6/2007			ND	0.14 J	ND	TVOL
	6/6/2007	ND	ND				504.1
	6/6/2007			ND	0.46 J	ND	TVOL
	10/10/2007	ND	ND				504.1
	10/10/2007			ND	0.24 J	ND	TVOL
	12/12/2007	ND	ND				504.1
	12/12/2007			ND	ND	ND	TVOL
	3/17/2008	ND	ND				504.1
	3/17/2008			ND	ND	ND	TVOL
	5/30/2008	ND	ND				504.1
	5/30/2008			ND	ND	ND	TVOL
	10/6/2008	ND	ND				504.1
	10/6/2008			ND	0.3 J	ND	TVOL
	12/17/2008	ND	ND				504.1
	12/17/2008			ND	ND	ND	TVOL
	3/9/2009	ND	ND				5041
	3/9/2009					ND	524.2 SIM
	3/9/2009			ND	ND		TVOL
	5/29/2009	ND	ND				5041
	5/29/2009					ND	5242SIM
	5/29/2009			ND	0.31 J		TVOL
	9/22/2009	ND	ND			ND	5242SIM
	9/22/2009			ND	ND		TVOL
	12/11/2009	ND	ND			ND	5242SIM
	12/11/2009			ND	ND		TVOL
	3/12/2010	ND	ND			ND	5242SIM
	3/12/2010			ND	ND		TVOL
	6/16/2010	ND	ND			ND	5242SIM
	6/16/2010			ND	ND		TVOL
	10/1/2010	ND	ND			ND	5242SIM
	10/1/2010			ND	ND		TVOL
	12/2/2010	ND	ND			ND	5242SIM
	12/2/2010			ND	ND		TVOL
	3/10/2011	ND	ND			ND	5242SIM
	3/10/2011			ND	0.13 J		TVOL
	7/8/2011	ND	ND			ND	5242SIM
	7/8/2011			ND	ND		TVOL
	09/27/2011			< 0.5	< 0.5		TVOL
	09/27/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/12/2011			< 0.5	< 0.5		TVOL
	12/12/2011	< 0.01	< 0.005			< 0.005	E524.2S
X-6A	12/5/2001	9	110 J				504.1
	1/23/2002	5.9	19 J				504.1
	1/23/2002			8600	ND	200	524.2
	4/9/2002	ND	4	370	ND	14	524.2
	7/2/2002	7 J	40 J	190 J	ND	10 J	524.2
	9/25/2002	ND	1	250	ND	11	524.2
	12/23/2002	ND	1	320	ND	12	524.2
	3/28/2003	ND	0.9 J	110	0.09 J		VOCS
	6/23/2003	ND	0.59	29 D	0.32 J		OLC03.2
	9/19/2003	ND	0.7	42 D	0.19 J	4.4	OLC03.2
	12/17/2003	0.24	0.54				504.1
	12/17/2003			56 D	ND	4.5	OLC03.2
	3/16/2004	3.6	60 D				504.1
	3/16/2004			550 D	ND	8.8	OLC03.2
	6/8/2004	ND	24	800 D	ND	55 D	OLC03.2
	9/9/2004	1 J	11	1100 D	ND	68	OLC03.2
	12/8/2004	1.2	1.7	500 D	ND	32	OLC03.2
	3/14/2005	2.3	1.5 J	330 D	ND	55	OLC03.2

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/14/2005	ND	0.55 J	190 D	ND	29 D	OLC03.2
	9/26/2005	0.94	0.71	260 D	ND	ND	OLC032
	12/9/2005	0.63 J	0.68 J	210	ND	18	OLC032
	3/10/2006	0.63	0.37 J	78 D	ND	13	OLC032
	6/9/2006	ND	ND	86 D	ND	8.6	OLC032
	10/13/2006	0.16	0.26				504.1
	10/13/2006			44	ND	5.9 J	TVOL
	1/3/2007	0.12	0.25				504.1
	1/3/2007			43 D	ND	4	TVOL
	3/15/2007	0.075	0.18				504.1
	3/15/2007			32	ND	3.6 J	TVOL
	5/30/2007	0.069	0.18				504.1
	5/30/2007				ND	2.9	TVOL
	9/25/2007	0.098	0.26				504.1
	9/25/2007			66	ND	7	TVOL
	12/20/2007	0.13	0.38				504.1
	12/20/2007			82	ND	7.7	TVOL
	3/26/2008	0.08	0.22				504.1
	3/26/2008			76	ND	ND	TVOL
	6/6/2008	0.09	0.2				504.1
	6/6/2008			61	ND	6.1	TVOL
	9/26/2008	0.12	0.4				504.1
	9/26/2008			960	ND	9.8	TVOL
	12/11/2008	0.14	0.47				504.1
	12/11/2008			60	ND	6.3	TVOL
	3/18/2009	0.1	0.28				5041
	3/18/2009					8.9	524.2 SIM
	3/18/2009			95	ND		TVOL
	6/12/2009	0.15	0.3				5041
	6/12/2009			150	ND	12	TVOL
	9/14/2009	ND	ND	64	ND	5.2	TVOL
	12/16/2009	0.15	0.4				5242SIM
	12/16/2009			47	ND	3.7	TVOL
	3/23/2010	0.068	0.24				5242SIM
	3/23/2010			19	ND	2	TVOL
	6/14/2010	0.063	0.19				5242SIM
	6/14/2010			16	ND	1.5	TVOL
	10/12/2010	0.032	0.19				5242SIM
	10/12/2010			20	ND	3.1	TVOL
	12/6/2010	0.05	0.22				5242SIM
	12/6/2010			20 J	ND	2.3	TVOL
	3/2/2011	0.066	0.36				5242SIM
	3/2/2011			26	ND	2.5	TVOL
	6/23/2011	0.075	0.38				5242SIM
	6/23/2011			16	ND	1.8	TVOL
	09/08/2011			8.7	< 0.5		TVOL
	09/08/2011	0.055	0.29			2.6	E524.2S
	12/08/2011			15	< 0.5		TVOL
	12/08/2011	0.033	0.24			3	E524.2S
X-6B	12/5/2001	ND	0.07				504.1
	1/23/2002	98 J	870 J				504.1
	1/23/2002			8900	ND	270	524.2
	4/10/2002	21	520	5700	ND	360	524.2
	7/5/2002	ND	3	540	ND	21	524.2
	9/26/2002	21 J	400	4100	ND	180	524.2
	12/23/2002	6	400	9000	ND	300	524.2
	3/31/2003	ND	110 D	2200 D	ND		VOCS
	6/24/2003	ND	160	2300 D	ND		OLC03.2
	9/19/2003	16	85 JD	1700 D	ND	99 JD	OLC03.2
	1/7/2004	65 D	3800 D	11000 D	0.3 J	300 D	524.2
	3/17/2004	29	420 D	1000 D	ND	ND	OLC03.2
	6/17/2004	22	240 D	620 D	ND	72	OLC03.2
	10/5/2004	3.6	140 D	420 D	ND	25 E	OLC03.2
	11/29/2004	4.5	190 D	410 D	ND	ND	OLC03.2
	3/4/2005	3.3	120 D	330 D	ND	28 D	OLC03.2

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/1/2005	3.1	100 D	360 D	ND	26	OLC03.2
	9/7/2005	ND	110	390 D	ND	14	OLC032
	12/9/2005	1.7	84	300	ND	12	OLC032
	3/10/2006	1.3	89 D	260 D	ND	12	OLC032
	6/9/2006	2.3	88 D	330 D	ND	12	OLC032
	10/13/2006	1.2 J	48	200	ND	5.1 J	TVOL
	1/3/2007	0.65	53 D	200 D	ND	7	TVOL
	3/7/2007	ND	71	210	ND	9	TVOL
	6/13/2007	1.5 J	61 J	200 J	0.15 J	11 J	TVOL
	10/15/2007	0.98	71	230	ND	9.2	TVOL
	12/21/2007	0.7	53	180	0.14 J	8.2	TVOL
	3/11/2008	ND	49	200	ND	7.4	TVOL
	6/6/2008	0.91	58	200	0.16 J	7.4	TVOL
	9/26/2008	0.83	70	260	0.15 J	11	TVOL
	12/11/2008	ND	22	75	ND	4.1	TVOL
	3/19/2009	ND	39	160	ND	8.1	TVOL
	6/11/2009	0.52	67	270	ND	12	TVOL
	9/14/2009	0.6	32	120	ND	5.5	TVOL
	12/16/2009	7	40	130	ND	5.5	TVOL
	3/9/2010	3.8	2.2 J	94	ND	2.8	TVOL
	6/14/2010	3.6 J	30	140	ND	5.2	TVOL
	10/12/2010	2.7	38	180	ND	11	TVOL
	12/6/2010	0.81	21	140	ND	6.8	TVOL
	3/2/2011	1.4	19	170	0.13 J	7.2	TVOL
	6/23/2011	ND	17 J	320	ND	9.3	TVOL
	09/08/2011	< 0.5	15	210	< 0.5	14	TVOL
	12/08/2011	< 0.5	18	300	< 0.5	6	TVOL
X-7B	12/5/2001	7	160	1800	ND	40	524.2
	1/22/2002	6.2	83 J				504.1
	1/22/2002			3100	ND	110	524.2
	4/10/2002	5	160	2200	ND	60	524.2
	5/9/2002	8	250	2700	ND	56	524.2
	5/20/2002	8	240	2900	ND	70	524.2
	5/29/2002	9	240	2800	ND	80	524.2
	7/3/2002	9.3	85 J				504.1
	7/3/2002			2000	ND	70	524.2
	9/26/2002	6	100	1300	ND	30	524.2
	12/20/2002	6	70	870	ND	30	524.2
	3/28/2003	ND	130 J	1600	ND		VOCS
	6/24/2003	ND	92	620 D	ND		OLC03.2
	9/19/2003	2.8	43 D	500 D	ND	43 E	OLC03.2
	12/18/2003	ND	69 D	940 D	ND	52	OLC03.2
	3/15/2004	3.2	57	400 D	ND	31	OLC03.2
	6/15/2004	ND	15	330 D	ND	18	OLC03.2
	10/8/2004	3.7	34 D	390 D	ND	26 E	OLC03.2
	12/9/2004	ND	73	760 D	ND	34	OLC03.2
	3/4/2005	3.8	88	590 D	ND	67	OLC03.2
	6/3/2005	2.8	61	510 D	ND	54	OLC03.2
	9/19/2005	2.7	33	300 D	ND	20	OLC032
	12/8/2005	2.8	44	640	ND	22	OLC032
	3/3/2006	3.6 J	79	940 D	ND	32	OLC032
	6/2/2006	ND	ND	1000	ND	30 J	OLC032
	10/13/2006	2.2	23				504.1
	10/13/2006			410	ND	16	TVOL
	12/21/2006	2.6	42 D	620 D	ND	21 JD	TVOL
	3/2/2007	3.9 J	70	770	ND	32	TVOL
	6/8/2007	1.9 J	33 J	610 J	ND	22 J	TVOL
	9/28/2007	2.7	29	220	ND	18	TVOL
	12/19/2007	2.4	52		ND	30	TVOL
	3/14/2008	4	55	830	ND	27	TVOL
	5/28/2008	ND	34	700	ND	21	TVOL
	9/29/2008	2.1 J	26	510	ND	24	TVOL
	12/16/2008	ND	20	230	ND	13	TVOL
	3/3/2009	1.8	42 E	280	ND	21 E	TVOL
	6/4/2009	2.1	54	1100	ND	24 E	TVOL

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	9/11/2009	0.8	10	170	ND	7.9	TVOL
	12/7/2009	ND	13	200	ND	8.5	TVOL
	3/22/2010	ND	14	190	ND	8.5	TVOL
	6/21/2010	ND	16 J	280 J	ND	8.3 J	TVOL
	9/17/2010	ND	3.1	300	ND	3.3	TVOL
	12/3/2010	1.2	23	390	ND	17	TVOL
	3/11/2011	1.2	14	310	ND	13	TVOL
	6/27/2011	ND	12	330	ND	9.9	TVOL
	09/26/2011	< 0.5	4.5	120	< 0.5	6.1	TVOL
	12/07/2011	< 0.5	13	300	< 0.5	11	TVOL
X-7C	12/5/2001	ND	ND	2	ND	ND	524.2
	1/22/2002	ND	0.02				504.1
	1/22/2002			3	0.5	ND	524.2
	4/2/2002	ND	0.01 J				504.1
	4/2/2002			0.8 J	ND	ND	524.2
	6/25/2002	ND	0.18				504.1
	6/25/2002			12	ND	ND	524.2
	9/23/2002	0.01 J	0.39				504.1
	9/23/2002			13	0.6	ND	524.2
	12/17/2002	ND	0.2				504.1
	12/17/2002			11	ND	ND	524.2
	3/25/2003	ND	0.11				504.1
	3/25/2003			11	0.09 J		VOCS
	6/20/2003	ND	0.069				504.1
	6/20/2003			14	1.1		OLC03.2
	9/19/2003	ND	ND				504.1
	9/19/2003			15	0.95	ND	OLC03.2
	12/17/2003	ND	0.22 J	18	0.35 J	0.27 J	OLC03.2
	3/15/2004	ND	0.46				504.1
	3/15/2004			33 D	0.077 J	0.47 JD	OLC03.2
	6/15/2004	0.024	1.5				504.1
	6/15/2004			90 D	ND	ND	OLC03.2
	10/6/2004	ND	0.17 J	22	0.31 J	0.21 J	OLC03.2
	12/6/2004	ND	0.41				504.1
	12/6/2004			29 D	0.19 J	ND	OLC03.2
	3/3/2005	0.012 J	0.95				504.1
	3/3/2005			87 D	ND	ND	OLC03.2
	6/3/2005	ND	0.18 J	25 E	0.41 J	0.44 J	OLC03.2
	9/19/2005	ND	0.36				504.1
	9/19/2005			25 D	0.53	0.44 J	OLC032
	12/8/2005	0.038	2.7				504.1
	12/8/2005			150	ND	2.8	OLC032
	3/3/2006	ND	1.9	140 D	0.11 J	2.1	OLC032
	6/2/2006	ND	ND	51	0.63 J	ND	OLC032
	10/9/2006	ND	0.65				504.1
	10/9/2006			39	ND	0.68 J	TVOL
	12/21/2006	ND	ND	25 D	ND	ND	TVOL
	3/2/2007	ND	1	68	ND	1	TVOL
	6/8/2007	ND	0.72 R	65 R	1.5 R	0.9 R	TVOL
	9/28/2007	ND	0.92	68	0.82	1	TVOL
	12/12/2007	ND	1.7		ND	1.9	TVOL
	3/14/2008	ND	0.75	53	0.3 J	ND	TVOL
	5/21/2008	ND	0.86	87	0.98	ND	TVOL
	9/29/2008	ND	1.3	96	1.7	1.5	TVOL
	12/16/2008	ND	0.69	42	ND	ND	TVOL
	3/3/2009	ND	0.94	41	0.39 J	1	TVOL
	6/4/2009	ND	1.1 J	140	1.7 J	1.5	TVOL
	9/11/2009	ND	0.7	42	0.57	0.73	TVOL
	12/7/2009	ND	0.46 J	23	ND	0.67	TVOL
	3/22/2010	ND	1.8	87	ND	2.5	TVOL
	6/21/2010	ND	ND	140 J	2.2 J	1.2 J	TVOL
	9/17/2010	ND	1.2	87	0.87	1.9	TVOL
	12/3/2010	ND	0.86	58	0.69	1.4	TVOL
	3/11/2011	ND	0.88	60	0.74	1.3	TVOL
	6/27/2011	ND	1	120	1.1	1.4	TVOL

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	09/26/2011	< 0.5	0.61	44	0.59	1.1	TVOL
	12/06/2011	< 0.5	0.95	73	0.67	1.3	TVOL
X-8B	1/7/2004	ND	ND				504.1
	1/7/2004			1.5	46 D	ND	524.2
	3/17/2004	ND	ND				504.1
	3/17/2004			0.94	25 D	ND	OLC03.2
	6/16/2004	ND	ND				504.1
	6/16/2004			0.63	19	ND	OLC03.2
	9/15/2004	ND	ND				504.1
	9/15/2004			0.63	14	ND	OLC03.2
	12/1/2004	ND	ND				504.1
	12/1/2004			ND	11	ND	OLC03.2
	3/2/2005	ND	ND				504.1
	3/2/2005			0.4 J	7	ND	OLC03.2
	6/8/2005	ND	ND				504.1
	6/8/2005			0.52	8.7	0.14 J	OLC03.2
	9/8/2005	ND	ND				504.1
	9/8/2005			0.44 J	6.7	ND	OLC032
	12/12/2005	ND	ND				504.1
	12/12/2005			0.42 J	5.9	ND	OLC032
	3/7/2006	ND	ND				504.1
	3/7/2006			0.4 J	4.3	ND	OLC032
	6/12/2006	ND	ND				504.1
	6/12/2006			0.52	9.9	ND	OLC032
	10/17/2006	ND	ND				504.1
	10/17/2006			ND	3.6	ND	TVOL
	12/28/2006	ND	ND				504.1
	12/28/2006			ND	2.6	ND	TVOL
	3/13/2007	ND	ND				504.1
	3/13/2007			0.4 J	4.7 J	ND	TVOL
	6/12/2007	ND	ND				504.1
	6/12/2007			0.43 J	6.5 J	ND	TVOL
	10/4/2007	ND	ND				504.1
	10/4/2007			0.43 J	7.4	ND	TVOL
	12/17/2007	ND	ND				504.1
	12/17/2007			0.37 J	6	ND	TVOL
	3/11/2008	ND	ND				504.1
	3/11/2008			0.58	5.9	ND	TVOL
	6/3/2008	ND	ND				504.1
	6/3/2008			ND	9	ND	TVOL
	9/19/2008	ND	ND				504.1
	9/19/2008			ND	11	ND	TVOL
	12/9/2008	ND	ND				504.1
	12/9/2008			ND	5.1	ND	TVOL
	3/13/2009	ND	ND				5041
	3/13/2009					0.038	524.2 SIM
	3/13/2009			ND	6.7		TVOL
	6/9/2009	ND	ND				5041
	6/9/2009					0.029	5242SIM
	6/9/2009			0.34 J	7.2		TVOL
	10/1/2009	ND	ND			0.049	5242SIM
	10/1/2009			0.25 J	5.2		TVOL
	12/3/2009	ND	ND			0.045	5242SIM
	12/3/2009			ND	4.5		TVOL
	3/19/2010	ND	ND			0.026	5242SIM
	3/19/2010			ND	2.8		TVOL
	6/23/2010	ND	ND			0.039	5242SIM
	6/23/2010			ND	12 J		TVOL
	10/6/2010	ND	ND			0.031	5242SIM
	10/6/2010			0.37 J	8.6		TVOL
	12/13/2010	ND	ND			0.025	5242SIM
	12/13/2010			0.36 J	12 J		TVOL
	3/22/2011	ND	ND			0.035	5242SIM
	3/22/2011			0.48 J	11		TVOL
	6/22/2011	ND	ND			0.039	5242SIM

TABLE C-1
Historical Analytical Results for COCs in Monitoring and Extraction Wells
3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	6/22/2011			ND	10		TVOL
	09/23/2011			0.25 J	5.5		TVOL
	09/23/2011	< 0.01	< 0.005			0.034	E524.2S
	12/16/2011			< 0.5	7.9		TVOL
	12/16/2011	< 0.01	< 0.005			0.038	E524.2S
X-9B	1/7/2004	ND	ND				504.1
	1/7/2004			ND	ND	ND	524.2
	3/17/2004	ND	ND				504.1
	3/17/2004			0.2 J	ND	ND	OLC03.2
	6/10/2004	ND	ND				504.1
	6/10/2004			ND	0.042 J	ND	OLC03.2
	9/10/2004	ND	ND				504.1
	9/10/2004			0.36 J	ND	ND	OLC03.2
	12/7/2004	ND	ND				504.1
	12/7/2004			ND	ND	ND	OLC03.2
	3/3/2005	ND	ND				504.1
	3/3/2005			ND	ND	ND	OLC03.2
	6/8/2005	ND	ND				504.1
	6/8/2005			ND	ND	ND	OLC03.2
	9/23/2005	ND	ND				504.1
	9/23/2005			0.28 J	ND	ND	OLC032
	12/12/2005	ND	ND				504.1
	12/12/2005			0.4 J	ND	ND	OLC032
	3/7/2006	ND	ND				504.1
	3/7/2006			0.3 J	ND	ND	OLC032
	6/12/2006	ND	ND				504.1
	6/12/2006			ND	ND	ND	OLC032
	10/2/2006	ND	ND				504.1
	10/2/2006			ND	ND	ND	TVOL
	1/2/2007	ND	ND				504.1
	1/2/2007			ND	ND	ND	TVOL
	3/15/2007	ND	ND				504.1
	3/15/2007			ND	ND	ND	TVOL
	6/12/2007	ND	ND				504.1
	6/12/2007			ND	ND	ND	TVOL
	9/28/2007	ND	ND				504.1
	9/28/2007			0.27 J	ND	ND	TVOL
	12/17/2007	ND	ND				504.1
	12/17/2007			ND	ND	ND	TVOL
	3/13/2008	ND	ND				504.1
	3/13/2008			ND	ND	ND	TVOL
	5/28/2008	ND	ND				504.1
	5/28/2008			ND	ND	ND	TVOL
	10/8/2008	ND	ND				504.1
	10/8/2008			0.23 J	ND	ND	TVOL
	12/5/2008	ND	ND				504.1
	12/5/2008					0.0019 J	524.2 SIM
	12/5/2008			ND	ND		TVOL
	3/13/2009	ND	ND				5041
	3/13/2009					ND	524.2 SIM
	3/13/2009			ND	ND		TVOL
	6/9/2009	ND	ND				5041
	6/9/2009					ND	5242SIM
	6/9/2009			ND	ND		TVOL
	9/23/2009	ND	ND			ND	5242SIM
	9/23/2009			ND	ND		TVOL
	12/3/2009	ND	ND			ND	5242SIM
	12/3/2009			ND	ND		TVOL
	3/17/2010	ND	ND			ND	5242SIM
	3/17/2010			ND	ND		TVOL
	6/9/2010	ND	ND			ND	5242SIM
	6/9/2010			ND	ND		TVOL
	9/24/2010	ND	ND			ND	5242SIM
	9/24/2010			ND	ND		TVOL
	12/8/2010	ND	ND			ND	5242SIM

TABLE C-1

Historical Analytical Results for COCs in Monitoring and Extraction Wells

3rd and 4th Quarters 2011 Groundwater Monitoring Report, Frontier Fertilizer NPL Site, Davis, California

Station	Date	DBCP (µg/L)	EDB (µg/L)	DCP (µg/L)	CCL (µg/L)	TCP (µg/L)	Method
	12/8/2010			0.3 J	ND		TVOL
	3/8/2011	ND	ND			ND	5242SIM
	3/8/2011			ND	ND		TVOL
	6/30/2011	ND	ND			ND	5242SIM
	6/30/2011			ND R	ND R		TVOL
	09/21/2011			< 0.5	< 0.5		TVOL
	09/21/2011	< 0.01	< 0.005			< 0.005	E524.2S
	12/02/2011			< 0.5	< 0.5		TVOL
	12/02/2011	< 0.01	< 0.005			< 0.005	E524.2S

Appendix D
Sampling Procedures

APPENDIX D

Sampling Procedures

This appendix describes the groundwater measurement and low-stress (low flow)/minimal drawdown groundwater sample collection methods that will be used to collect samples at the Frontier Fertilizer Superfund Site.

D.1 Groundwater Measurements

The objective is to measure depth-to-water in all wells as quickly as possible, i.e. minimize the duration between measurement at the first and last well, to derive hydraulic gradients. All readings are recorded to the nearest 0.01 foot. An electronic water level measurement devise, i.e. sounder, accurate to the nearest ±0.01 foot, will be used to measure the depth to water in each well. The sounder probe containing a water sensor is lowered down the casing to the top of the water column and the graduated markings on the cable connecting the probe to the reel are used to measure the depth to water from the surveyed point on the rim of the well casing. The sounder emits a tone when the water sensor is submerged in water. Measurements are immediately compared to the measurements recorded for the same-quarter event during the previous year to check for significant changes. Water levels measured in extraction wells will also be compared to supervisory control and data acquisition system (SCADA) water level readings derived from the dedicated pressure transducer.

Once a year, typically in the fourth quarter, the total depth of the well will be measured from the surveyed point at the top of casing by lowering the weighted sounder probe to the bottom of the well. This is done to check sediment accumulation. Because the weighted probe tends to sink into silt at the bottom of the well, total well depths will be measured and recorded to the nearest 0.1 foot.

The surveyed mean sea level elevation reference point, e.g. mark on the top of the inner casing, outer casing, or security/protective casing, should remain constant through all measurements. Well conditions and survey markings will be inspected during each measurement event and comments recorded on measurement data logs. Whenever possible, a point on the top of the inner casing is recommended as a reference point, because well head components are more affected by expansive soil and vehicle loads. This reference point shall have a known latitude and longitude that are consistent with the regional and national minimum data elements requirements. The elevation of the reference point shall be surveyed relative to mean sea level [msl] using the North American Vertical Datum of 1988 [NAVD 88] datum.)

Sounder probe and cable that are extended into wells shall be decontaminated with distilled water after each measurement.

During groundwater level measurements, the breathing zone and the top of casing of each extraction and monitoring well will be monitored using a photoionization detector (PID) with 11.7 electron-volt (eV) lamp before inserting the sounder probe. PID readings will be recorded on water level measurement data logs. Each well is clearly marked with a well

identifier on the outside and inside of the well casing. Each well casing has a permanent, easily identified reference point from which all depth measurements are taken.

D.2 Groundwater Sampling

Groundwater samples will be collected from monitoring and extraction wells located on and adjacent to the Site. Well construction details are included in the quarterly groundwater reports and provided to field sampling crews on the field data sheets. The following subsections describe the low-flow procedure for collecting groundwater samples.

D.2.1 Setup

After establishing a work area at the well to be sampled, remove the vault lid or protective casing cover. Document all well head maintenance needs or unusual conditions observed. Carefully remove the well seal, as it may be under pressure and the seal may react erratically. Slowly pull the sample collection tubing from the casing for the first 2 feet, to minimize turbulence. Continue lifting the collection tubing until the pumping level line is even with the top of the casing. The pumping level line is a pre-established point where past sampling has occurred. It is critical that samples are collected with the pump intake at the same well-specific depth during each event. If a marking is not found on the tube, the distance from the top end of the tube to the top-of-casing pumping level (that is, tube length removed from the well) is included on the field datasheet. The length should be re-measured and marked appropriately.

Keeping the pumping line within 6 inches of the top of casing, hand prime to bring water into the tubing and ensure that the check valve is functioning. If this valve is not functioning, DO NOT attach the tubing to the Hydrolift pump. The tubing must be removed because the valve may be clogged or missing. Replace or clean the valve as needed. If the valve functions properly, attach the tubing to the Hydrolift pump actuator while keeping the pumping line at the top of the casing and the tube in the center of the casing. Then, purge one complete tubing volume (1 gallon per 100 feet of ⅝-inch-outer-diameter sample tube) at 0.5 to 1.0 liter per minute (0.13 to 0.26 gallon per minute) before attaching the end of the tube to the YSI 6920 parameter monitor, to remove sediment that may have entered the valve since the last sampling event.

D.2.2 Sample Retrieval Explained

Groundwater samples are collected using an inertial pump. Each monitoring well contains dedicated Teflon® tubing of ⅝-inch outside diameter and ½-inch inside diameter. A foot valve controls the flow of water into the tube. The foot valve consists of a ball at the end of the tube that moves vertically to regulate the flow of water. Pumping is accomplished by the Waterra® Hydrolift II, a mechanical, electric-powered arm that travels vertically about 6 inches each stroke. (The stroke rate is adjustable.) On the downstroke, water enters the foot valve; on the upstroke, the foot valve closes and the water is lifted up. The inertial force of the water in the sample tube causes the water to continue upward during the downstroke, and fresh water is allowed to enter the foot valve. The process is repeated.

As reported in the Third Quarter 2007 Groundwater Monitoring Report (CH2M Hill, 2008):

The upgrade to dedicated inertial pump sampling in July 2004 improved sample collection efficiency and eliminated the need to prioritize the order of well sampling from the least contaminated to most contaminated. This prioritization had been done to reduce the potential for cross-contamination that could occur while using non-dedicated sampling systems. An analysis of sample analytical results obtained since the upgrade and those obtained using previous sampling methods indicates that the dedicated sample collection method produces representative groundwater samples.

D.2.3 Water Quality Parameters

Water quality indicator parameters and water levels are measured continuously during purging, prior to sample collection. Stabilization of the water quality parameters and water level draw-down are prerequisites to sample collection.

Before field activities begin, the water quality parameter measurement device (typically a YSI 6920) is calibrated in accordance with the manufacturer's instruction manual. During field activities, the device is calibrated daily, prior to sample collection activities and midway through the day, using solutions with known pH (7 and 10), specific conductance, dissolved oxygen, oxygen reduction potential, and turbidity. Calibration results are recorded on equipment calibration worksheets.

The accuracy of water quality parameter measurements also is checked midway through the day. If the instrument reads off by 0.5 pH units, or 10 percent for other parameters, the instrument is recalibrated according to the procedures listed above.

D.2.4 Parameter Stabilization

Stabilization of the water quality parameters is the criterion for low-flow sample collection. This is an alternative to purging three (minimum) to six (maximum) casing volumes, and results in collection of a representative sample while minimizing time and purge water generation. The specific information on what took place during purging must be recorded on the field datasheet.

When the initial purging (1 gallon per 100 feet of ⅝-inch-outer-diameter sample tube) is complete, the water level is measured to determine the total drawdown. The low-flow sample purge is then started at a flow rate of approximately 0.2 to 0.5 liters per minute. Pumping rate is adjusted to obtain the minimum steady flow rate while maintaining a drawdown of less than 0.33 foot. If drawdown is greater than 0.33 foot, the flow rate is lowered until the water level recovers to the drawdown threshold. It should be noted that this goal may be difficult to achieve under some circumstances because of geologic heterogeneity within the screened interval, and may require adjustment based on site-specific conditions and personal experience. The flow rate is measured with a graduated cylinder and stop watch after a stable flow rate is established.

If the drawdown threshold of 0.33 foot is exceeded with the lowest possible flow rate, maintain flow rate for half an hour to determine if the well yield adjusts to the flow rate. If the water level stops falling and is at least 2 feet above the foot valve at the end of the sample tube, (sample depth) then begin monitoring parameters for sampling. If the level will not stabilize, after half an hour, turn the pump off for 15 minutes and allow for recovery.

Under no circumstances should the well be pumped dry. Begin pumping again at the lowest possible flow rate. If the water draws down more than 0.33 foot or is within 2 feet above the pumping level, turn the pump off and allow for recovery of four sample tube volumes. Given the low flow into the casing, and that the pump intake is in the well screen interval, water collected is representative of the subject formation. After pumping two tubing volumes (including the volume of water in the pump and flow cell), samples can be collected. This information should be noted in the well's field datasheet with a recommendation for a different purging and sampling procedure.

After the initial tubing volume is purged to clear sediment that may have entered the foot valve, a minimum of one tubing volume (including the volume of water in the pump and flow cell) must be purged prior to initial recording of water quality indicator parameters. Water quality parameters and level draw-down measurements are recorded every 3 to 5 minutes on well-specific field data sheets. The water quality indicator field parameters are turbidity, dissolved oxygen, specific electrical conductance, pH, oxidation-reduction potential (ORP), and temperature. ORP may not always be an appropriate stabilization parameter, and will depend on site-specific conditions. However, readings should be recorded because this information has value as a double check for oxidizing conditions. The stabilization criterion is based on three consecutive readings of the water quality field parameters (that is, comparison of the first against the second and then the second against the third readings). Variance thresholds for these parameters are indicated in Section D.2.4.1 below.

D.2.4.1 Parameter Stabilization Criteria Reference

Parameters will be considered stable when the following criteria are achieved:

- ± 0.1 foot water level change.
- ± 0.1 pH units.
- ± 3 percent millisiemens per centimeter (mS/cm) specific conductivity.
- ± 10 millivolts ORP.
- ± 10 percent turbidity (when turbidity is greater than 10 nephelometric turbidity units [NTUs]); otherwise ± 5 NTUs.
- ± 0.3 milligrams per liter (mg/L) dissolved oxygen.
- ± 1 degree Celsius temperature.

Note: If all parameters except ORP and turbidity are within thresholds, the sample can be collected. Turbidity stabilization may be difficult to achieve at some wells due to sediment and suspended solids agitated during purging.

D.2.5 Sample Collection

Once the stabilization criteria have been met, indicating that the water quality indicator parameters have stabilized, then sample collection can take place. Maintain the same pumping rate or reduce slightly for sampling (0.2 to 0.5 liter per minute [0.056 to 0.13 gallon per minute]) to minimize disturbance of the water column.

Samples should be collected directly from the discharge point of the pump tubing prior to passing through the flow-through cell. Disconnect the pump's tubing from the water quality device so that the samples are collected from the pump's discharge tubing. For samples collected for analysis of dissolved gases or volatile organic compounds (VOCs), the pump's tubing needs to be completely full of groundwater to prevent the groundwater from being aerated as the groundwater flows through the tubing. The sequence of the samples is immaterial unless filtered (dissolved) samples are collected. If filtered samples are collected, they must be collected last (Puls and Barcelona, 1996). All sample containers should be filled with minimal turbulence by allowing the groundwater to flow from the tubing gently down the inside of the container. When filling the containers for VOC samples, a meniscus must be formed over the mouth of the vial to eliminate the formation of air bubbles and head space prior to capping.

Sample bottles will be purchased from EPA-approved sources, with preservatives added before containers are shipped to the field.

After sample collection is completed, the sample tubing can be lowered quickly to about 2 feet above the bottom. Take 15 seconds to lower the last 2 feet of tubing into the well to allow the water level in the tube to equalize with the level in the well, thus minimizing the potential for sediment to be pulled into the tubing. Rising water levels in wells will also create the potential to push water and sediment into the sampling tube, since the foot valve rests on the well bottom.

D.2.6 Extraction Well Samples

Extraction wells typically operate at a consistent drawdown and extraction rate. Because these do not vary, extraction well samples may be collected from the sample ports after 10 to 20 seconds of purging. Water quality parameters are not collected from extraction wells. The bottle fill rate and post-sampling activities are the same as for the monitoring wells.

D.2.7 Post-sampling Activities

Several activities need to be completed and documented once groundwater sampling has been completed. These activities include, but are not limited to:

1. Ensuring that all field equipment has been decontaminated and returned to its proper storage location.
2. Processing all sample paperwork, including copies provided to the Regional Laboratory, Sample Management Office, or other appropriate sample handling and tracking facility.
3. Compiling all field data for site records.
4. Verifying all analytical data, after processing by the analytical laboratory, against field sheets to ensure that laboratory data have been received for all samples submitted.

D.3 Sample Shipment

All sample containers will be placed in a sturdy, hard-shell shipping container, such as a plastic cooler. The following outlines the packaging procedures that will be followed for the groundwater samples:

- Wrap all glass sample containers in bubble wrap to prevent breakage.
- Seal all sample containers in heavy-duty plastic bags.
- Secure the drain plug of the cooler with fiberglass-reinforced tape to prevent leaking.
- Line the bottom of the cooler with bubble wrap to prevent breakage during shipment.
- Surround samples with ice, double bagged with heavy-duty plastic bags to prevent leaking.
- Include a temperature blank in the cooler.
- Fill empty space in the cooler with bubble wrap to prevent movement and breakage during shipment.
- Include the appropriate chain of custody form, enclosed in a large plastic bag.
- Tape each cooler securely with nylon strapping tape.
- Affix custody seals to the front and back of each cooler.

In addition to the FedEx shipment label affixed to the handle of the cooler. The following contact information will be written on a cooler return form and enclosed with the chain of custody inside of the sample shipment cooler:

EPA

Return to:
ITSI Gilbane Co.
2730 Shadelands Drive
Walnut Creek, Ca. 94598
(925) 946-3100; B. Dee, or K. Carlyon

The EPA Region 9 Laboratory Sample Receiving will be notified daily by phone or email (510- 412-2389; R9RSCC@epa.gov) of the sample shipment schedule and must be provided with the following information:

- Site name.
- Case number.
- Laboratory name.
- Shipping date.
- Carrier.
- Airbill/tracking number.

- Number of coolers.
- Number of samples.
- Matrix.
- Analyses.
- Is the sampling event complete with this shipment or is it to continue?
- Sampler contact phone number.
- Any additional comments that may be relevant to the analyses or transportation of the samples.

D.3.1 Friday Shipments

Shipments made to EPA Region 9 Laboratory on Friday must be called in to Sampling Receiving by 12:00 p.m. on Friday.

For samples going to the EPA Region 9 Laboratory, the box, “Hold Saturday at FedEx Location” must be checked on the airbill. The FedEx office in Emeryville (1600 63rd Street, Emeryville, CA 94608) will be used as the shipping address.

All other labs are open on Saturday, and can receive samples. The box “Saturday Delivery” must be checked on the airbill for these samples.

Appendix E
Groundwater Pump-and-Treat System Monitoring Results

Groundwater Pump-and-Treat System, Frontier Fertilizer, Davis, California

PREPARED FOR: U.S. Environmental Protection Agency, Region 9

COPY TO:

PREPARED BY: CH2M HILL

DATE: October 5, 2012

PROJECT NUMBER: 385112.CV.01

This technical memorandum summarizes the groundwater pump-and-treat system performance during the 3rd and 4th Quarters 2011 at the Frontier Fertilizer Superfund Site in Davis, California.

System Description

Groundwater is typically extracted from 16 extraction wells, treated with granular activated carbon (GAC), and then discharged to the City of Davis sanitary sewer system.

Operating Summary

Uptime

The pump-and-treat system was online almost continuously during the 3rd and 4th Quarters 2011. System operation was only interrupted for routine extraction, treatment system component maintenance, and weather-related disturbances.

Performance Sampling

Treatment train samples (influent through effluent) were collected during the 3rd and 4th Quarters 2011 on August 8 and October 25 immediately prior to carbon vessel rotations. During the 3rd and 4th Quarters 2011, treated water volumes and flow rates discharged to the City of Davis sanitary sewer were in accordance with Permit GRW001. Treatment system influent concentrations of 1,2-dibromoethane (EDB), 1,2-dichloropropane (DCP), 1,2-dibromo-3-chloropropane (DBCP), carbon tetrachloride (CCl_4), and total volatile organic compounds (VOCs) are shown in Table E-1. The total volume of groundwater processed during the 3rd and 4th Quarters 2011 was 8,239,923 gallons.

TABLE E-1
Concentrations of COCs in Treatment Plant Influent

Month	Total Flow Volume (gallons)	Monthly Average Discharge Flow Rate (gpm)	Chemical of Concern	Influent Concentration* (µg/L)
July	1,501,256	34	EDB DCP DBCP CCl_4 Total VOCs	No Sample
August	1,249,552	28	EDB DCP DBCP CCl_4 Total VOCs	0.9 45 0 1 51.5
September	1,093,966	25	EDB DCP	No Sample

TABLE E-1
Concentrations of COCs in Treatment Plant Influent

Month	Total Flow Volume (gallons)	Monthly Average Discharge Flow Rate (gpm)	Chemical of Concern	Influent Concentration* (µg/L)
			DBCP CCl_4 Total VOCs	
October	1,390,511	31	EDB DCP DBCP CCl_4 Total VOCs	3.5 63 0 1.2 72.6
November	1,498,717	35	EDB DCP DBCP CCl_4 Total VOCs	No Sample
December	1,505,921	34	EDB DCP DBCP CCl_4 Total VOCs	No Sample

*Concentration is the average of all influent samples taken during the month.

Notes:
µg/L = microgram(s) per liter
COC = chemical of concern
gpm = gallon(s) per minute

Since starting up the system in 1995, the cumulative recovery of approximately 688 kilograms (kg) was achieved through the monitoring period (Table E-2). The cumulative mass recovery of EDB, DCP, DBCP, and CCl_4 via the pump-and-treat system is shown on Figures E-1 and E-2.

TABLE E-2
Mass of COCs Removed by Treatment System

Chemical of Concern	Mass Recovered During 3rd Quarter 2011 (kg)*	Mass Recovered During 4th Quarter 2011 (kg)*	Cumulative Recovery (kg)
EDB	0.0	0.1	112
DCP	0.8	1.0	570
DBCP	0.0	0.0	3
CCl_4	0.0	0.0	3
Total Mass Recovered	**0.8**	**1.1**	**688**

*Rounding to significant digits in Mass Recovered, Cumulative Recovery, and Total Mass Recovered amounts result in apparent differences.

FIGURE 1
Cumulative Recovery of EDB and DCP

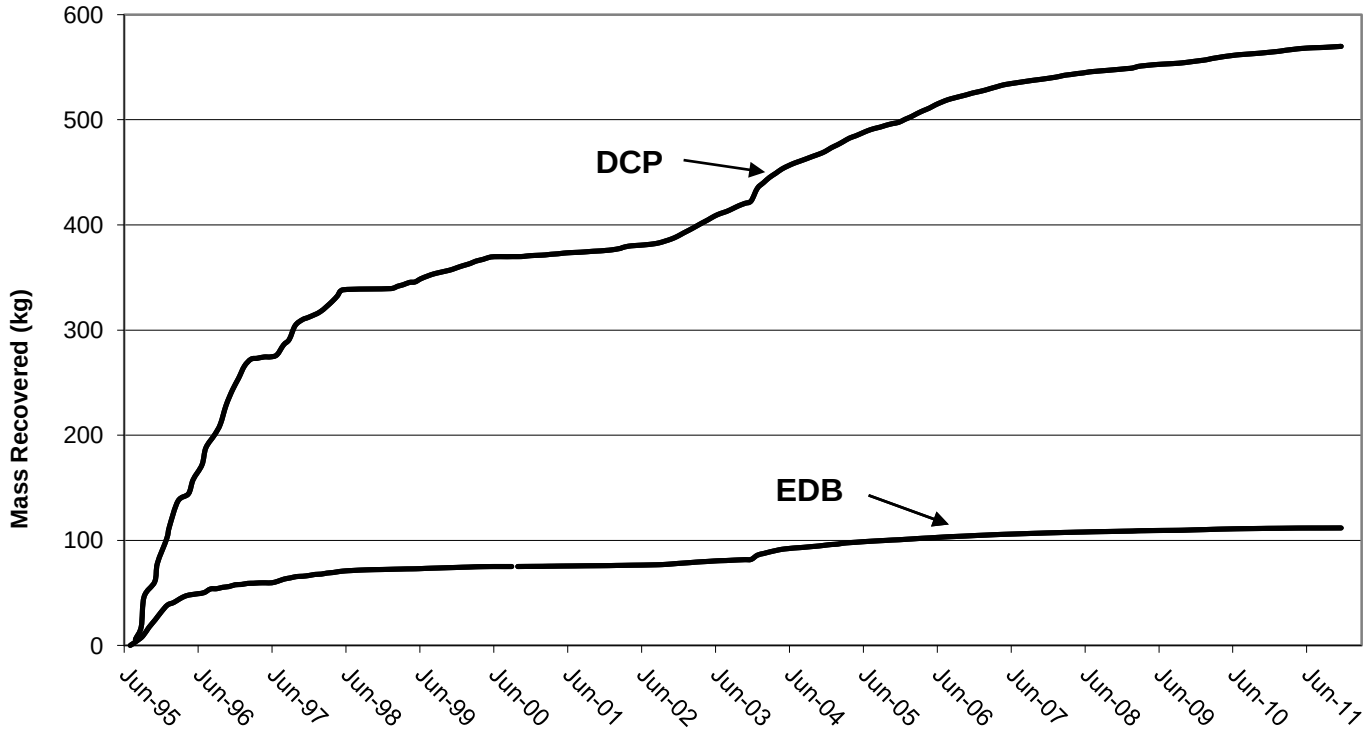
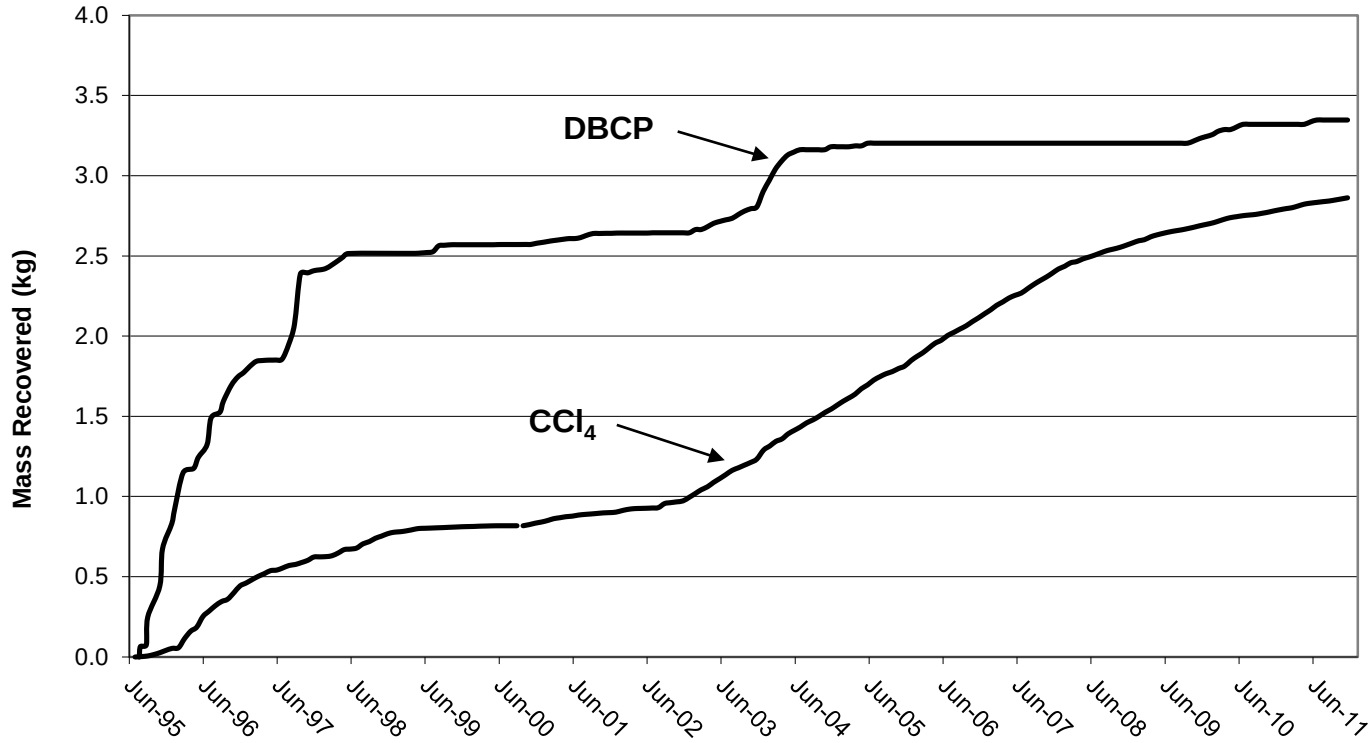


FIGURE 2
Cumulative Recovery of DBCP and CCl_4



Equipment Operations

Extraction Wells. Fourteen of the possible 16 extraction wells operated during the period except when the system was offline while well maintenance was performed or if weather-related disturbances occurred. Wells X-2A and X-4A were not operated because of non-detect analytical results. All wells are offline while the treatment system is offline.

Treatment System. Treatment system routine (inspections, calibrations, tests, and carbon vessel rotations) and non-routine (correcting equipment failures; mainly extraction well pumps and water level transducers) maintenance was performed throughout the year. Spent GAC vessel replacement occurred on August 8 and October 25.

Photovoltaic System. The treatment system has two photovoltaic (PV) systems: a 5.7-kilowatt (kW) direct current (DC) PV system installed on the treatment plant building roof in 2007 and a ground-mounted 68.88-kW DC PV system installed in 2010. Details were presented in the 4th Quarter 2007 Groundwater Monitoring Report (CH2M HILL, 2008) and the 2010 Annual Groundwater Monitoring Report (CH2M HILL, 2011). The PV system performance is reported in Table E-3.

TABLE E-3
Solar Photovoltaic System Summary

Month[a]	5.7-kW PV System Energy Produced (kilowatt-hours)[b]	68.88-kW PV System Energy Produced (kilowatt-hours)[b]	Total Energy Produced (kilowatt-hours)[b]
January	200	2,890	3,090
February	544	7,930	8,474
March	612	8,240	8,852
April	883	8,700	9,583
May	1,032	12,100	13,132
June	615	7,590	8,205
July	1,299	16,230	17,529
August	815	10,600	11,415
September	893	12,600	13,493
October	519	7,400	7,919
November	464	7,000	7,464
December	507	7,400	7,907
Total for 2011	**8,383**	**108,680**	**117,063**
Total Since Startup	**33,439**	**140,386**	**173,825**

[a] Readings are collected once weekly, the last reading in the month is used for reporting purposes. Note: The last June reading was collected on the 20th, which creates an artificially lower value for June production.
[b] For each kilowatt-hour of electricity produced by the solar PV system, approximately 1 pound of greenhouse gas is not emitted.

References

CH2M HILL. 2011. *2010 Annual Groundwater Monitoring Report, Frontier Fertilizer Superfund Site.*

CH2M HILL. 2008. *4th Quarter 2007 Groundwater Monitoring Report, Frontier Fertilizer Superfund Site.*

Appendix F
Sample Analysis and Groundwater Level Measurement Data (CD-ROM)