Groundwater Monitoring Report for 2012, 2013, and 2014
Omega Chemical Corporation Superfund Site
Los Angeles County, California

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Prepared by

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Contents

Section **Page**

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

1 Introduction **1-1**
- 1.1 Background 1-1
- 1.2 Monitoring Wells 1-2
- 1.3 Report Organization 1-3

2 Sampling and Analysis Methodology **2-1**
- 2.1 Sample Collection Methods 2-1
  - 2.1.1 EPA Well Sampling 2-1
  - 2.1.2 OPOG Well Sampling 2-2
  - 2.1.3 Field Parameters Measurement 2-2
  - 2.1.4 Depth to Water Measurement 2-2
- 2.2 Sample Analysis and Laboratory Assignments 2-3
- 2.3 Quality Assurance/Quality Control 2-3

3 Results and Discussion **3-1**
- 3.1 Groundwater Levels and Gradients 3-1
  - 3.1.1 Hydrographs 3-1
  - 3.1.2 Horizontal Gradients 3-1
  - 3.1.3 Vertical Gradients 3-2
- 3.2 Analytical Results 3-3
  - 3.2.1 Volatile Organic Compounds 3-3
  - 3.2.2 Hexavalent Chromium and Chromium 3-6
  - 3.2.3 Vertical Distribution of Contaminants 3-6
  - 3.2.4 Duplicate Sample Results 3-7
  - 3.2.5 Split Sample Results 3-7
- 3.3 Data Quality Assessment 3-7

4 References **4-1**

Appendixes

A Monitoring Well Purge Forms
- A.1 1Q2012 Well Purge Forms
- A.2 3Q2012 Well Purge Forms
- A.3 1Q2013 Well Purge Forms
- A.4 3Q2013 Well Purge Forms
- A.5 4Q2014 Well Purge Forms

B Data Needs and Uses

C Data Quality Assessment

D Volatile Organic Compound Time Series Plots

Tables

1-1 Well Construction Details – OPOG and EPA Monitoring Wells
2-1 Groundwater Samples Collected and Analyzed by EPA
3-1 Groundwater Elevations for 2012, 2013, and 2014
3-2 Vertical Groundwater Gradients for 2012, 2013, and 2014
3-3 Chlorinated VOC, 1,4-Dioxane, and Chromium Concentrations for 2012, 2013, and 2014
3-4 Comparison of Hexavalent Chromium and Chromium Concentrations for 2013 and 2014
3-5 Comparison of Duplicate Sample Results for 2012, 2013, and 2014
3-6 Comparison of OU-1 and OU-2 Split Sample Results for 2012 and 2013

Figures

1-1 Facility Location Map
1-2 Monitoring Well Locations
3-1 Water Table Hydrograph
3-2a Monitoring Well Hydrographs
3-2b Monitoring Well Hydrographs
3-2c Monitoring Well Hydrographs
3-2d Monitoring Well Hydrographs
3-3 Water Table Contours, Third Quarter 2013
3-4 Vertical Groundwater Gradients for 2012 and 2013
3-5a Composite PCE Distribution, Third Quarter 2013
3-5b Composite TCE Distribution, Third Quarter 2013
3-5c Composite Freon 11 Distribution, Third Quarter 2013
3-5d Composite Freon 113 Distribution, Third Quarter 2013
3-5e Composite 1,4-Dioxane Distribution, Third Quarter 2013
3-5f Composite Hexavalent Chromium Distribution, Third Quarter 2013

Acronyms and Abbreviations

µg/L	microgram(s) per liter
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
1,2-DCA	1,2-dichloroethane
1Q2012	1st Quarter 2012
1Q2013	1st Quarter 2013
3Q2012	3rd Quarter 2012
3Q2013	3rd Quarter 2013
4Q2014	4th Quarter 2014
CDM	Camp Dresser & McKee
CENCO	former CENCO Refinery
cis-1,2-DCE	cis-1-2-dichloroethene
COC	chemical of concern
DO	dissolved oxygen
DPE	dual-phase extraction
DQA	data quality assessment
EPA	U.S. Environmental Protection Agency
Freon 11	trichlorofluoromethane
Freon 113	1,1,2-trichloro-1,2,2-trifluoroethane
FSP	field sampling plan
ft/ft	foot (feet) per foot
GWE	groundwater extraction
HPLC	high-performance liquid chromatography
MS	matrix spike
MSD	matrix spike duplicate
MW	EPA monitoring well
NAVD	North American Vertical Datum
NGVD	National Geodetic Vertical Datum
Omega	Omega Chemical Corporation
Omega Site	Omega Chemical Corporation Superfund Site
OPOG	Omega Chemical Site Potentially Responsible Party (PRP) Organized Group
ORP	oxidation-reduction potential

OSVOG	Omega Small Volume Group, a former Omega Site Potentially Responsible Party (PRP) group
OU	operable unit
OW	OPOG monitoring well
PCE	tetrachloroethene
PRP	potentially responsible party
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
RCRA	Resource Conservation and Recovery Act of 1978, as amended
RI	remedial investigation
RPD	relative percent difference
SAP	sampling and analysis plan
SVE	soil vapor extraction
TCE	trichloroethene
U.S.	United States
VOC	volatile organic compound

SECTION 1

Introduction

This report presents and analyzes the results of groundwater monitoring performed during the period of 2012 through 2014 by CH2M HILL on behalf of the U.S. Environmental Protection Agency (EPA) for Operable Unit (OU) 2 of the Omega Chemical Corporation Superfund Site (Omega Site). Figure 1-1 shows the approximate location of the Omega Site and OU2.

Semiannual monitoring events were conducted in the spring and fall of 2012 and 2013, and an annual monitoring event was completed in the fall of 2014. Water level elevation data were analyzed to assess groundwater flow; chemistry data were analyzed to assess the distribution of chemicals of concern (COCs). This report also presents and analyzes groundwater monitoring data for OU1 of the Omega Site, and makes use of non-EPA monitoring well data for facilities located within or near OU2 to help evaluate water level elevations and the distribution of COCs at the Omega Site.

1.1 Background

This section briefly describes the operational history of the former Omega facility as well as past investigations and remediation activities conducted at the Omega Site. Detailed discussions are provided in the Final Remedial Investigation (RI) Report for the Omega Site (CH2M HILL, 2010).

Omega is a former refrigerant/solvent recycling operation located in Whittier, California, a community of approximately 85,000 people. The Omega property is approximately 1 acre in size. The facility operated as a Resource Conservation and Recovery Act of 1978 (RCRA) solvent and refrigerant recycling and treatment facility from approximately 1976 to 1991, handling primarily chlorinated hydrocarbons and chlorofluorocarbons. Drums and bulk loads of waste solvents and chemicals from various industrial activities were processed at the former Omega facility to form commercial products. Chemical, thermal, and physical treatment processes were reportedly used to recycle the waste materials. Wastes generated from these treatment and recycling activities included distillation column (still) bottoms, aqueous fractions, and nonrecoverable solvents.

The Omega Site was placed on the National Priorities List in January 1999. EPA currently manages the Omega Site as three OUs (OU1, OU2, and OU 3), as follows:

- OU1 includes the soil and groundwater contamination at the former Omega facility, located at 12504 and 12512 East Whittier Boulevard, and an area extending approximately 100 feet west and southwest of Putnam Street. Active remediation is being performed for OU1 that includes soil vapor extraction (SVE), groundwater extraction (GWE), and dual-phase extraction (DPE). Five GWE wells (EW-1 through EW-5) along Putnam Street extract groundwater that is treated and discharged to the sanitary sewer of the Sanitation Districts of Los Angeles County.
- OU2 generally includes the groundwater-contaminated area that extends from the former Omega facility to approximately 4.5 miles south-southwest of the site. An interim remedy consisting of GWE is being planned for OU2 to remove and contain contaminant mass related to the Omega COCs.
- OU3 addresses indoor air impacts at the former Omega property, as well as adjacent and nearby properties where the underlying vadose zone has been affected by contamination released at the former Omega property.

The location of the former Omega facility and the approximate boundaries of OU1 and OU2 are shown in Figure 1-2.

Groundwater at the Omega Site is primarily affected by volatile organic compounds (VOCs). The COCs in the OU2 groundwater plume of the Omega Site include chlorinated hydrocarbons (tetrachloroethene [PCE], trichloroethene [TCE], and others), freons (trichlorofluoromethane [Freon 11] and 1,1,2-trichloro-1,2,2-trifluoroethane [Freon 113]), 1,4-dioxane, and hexavalent chromium. Hexavalent chromium was added to the Omega groundwater monitoring program for the fall 2013 and fall 2014 monitoring events.

1.2 Monitoring Wells

The groundwater monitoring well network at the Omega Site consists of the following wells:

- **Monitoring Wells OW1 through OW12.** These wells were installed by the Omega Site Potentially Responsible Party (PRP) Organized Group (OPOG); they are located at OU1 and in the northern portion of OU2. OW1 through OW8 were installed between 1996 and 2006 as part of the Omega OU1 RI. Boring logs, downhole geophysical logs, and well completion diagrams for Wells OW1 to OW8 can be found in the Final RI Report (CH2M HILL, 2010). Wells OW9 through OW12 were subsequently installed as part of the OU1 GWE system.
- **Monitoring Wells MW1 through MW31**. These wells were installed by EPA and the Omega Small Volume Group, a former Omega Site PRP group (OSVOG). Boring logs, geophysical logs, and well completion diagrams are also included in the Final RI Report (CH2M HILL, 2010).
- **Monitoring Well MW-32.** This well was installed by EPA in 2012. Well installation activities are described in the *MW32 Well Installation and Sampling Report* (CH2M HILL, 2012b).

The EPA monitoring wells are generally located downgradient of OU1. CH2M HILL has sampled these wells on behalf of EPA. The groundwater monitoring wells installed by Camp Dresser & McKee (CDM) on behalf of OPOG for OU1 are collectively referred to as “OPOG wells.” These wells are sampled by CDM on a semiannual basis. Some OU1 wells are sampled more frequently on an as needed basis to operate the OU1 remediation system. When CDM performs this sampling, CH2M HILL collects split samples concurrently on behalf of EPA on a case-by-case basis.

The naming convention used to identify wells is as follows:

- OPOG monitoring wells are identified with “OW,” a sequential number, and a suffix “A” (shallow well) or “B” (deep well).
- EPA (and OSVOG) monitoring wells are designated as “MW” plus a sequential number and a suffix “A” (shallowest well) through “D” (deepest well).
- The naming convention for the non-EPA facility wells in this report is a prefix suggestive of the facility name followed by the well name.

Figure 1-2 is a well location map showing OPOG, EPA (and OSVOG), and select non-EPA facility monitoring wells. Select production wells are also shown in Figure 1-2. Well survey and construction information for OPOG and EPA monitoring wells is provided in Table 1-1.

1.3 Report Organization

This report is organized into the following sections:

- Section 1 provides an introduction to the report, site background, and monitoring well information, and describes how the report is organized.
- Section 2 provides an overview of sampling and analysis methods, laboratory assignments, and quality assurance/quality control (QA/QC) procedures.
- Section 3 presents the groundwater monitoring and sampling results for OU2 during the period from 2012 through 2014, incorporating data from OU1 and other non-EPA facilities. It also provides an assessment of data quality.
- Section 4 lists references used in preparing this report.

The appendixes to this document include the following:

- Appendix A – Monitoring Well Purge Forms
- Appendix B – Data Needs and Uses
- Appendix C – Data Quality Assessment
- Appendix D – VOC Time Series Plots

SECTION 2

Sampling and Analysis Methodology

This section provides an overview of the groundwater sampling and analysis methods, laboratory assignments, and QA/QC procedures used during the following five OU2 monitoring events:

Monitoring Event	Start Date	End Date
1st Quarter 2012 (1Q2012)	March 12, 2012	March 23, 2012
3rd Quarter 2012 (3Q2012)	September 25, 2012	October 11, 2012
1st Quarter 2013 (1Q2013)	February 25, 2013	March 29, 2013
3rd Quarter 2013 (3Q2013)	August 13, 2013	August 30, 2013
4th Quarter 2014 (4Q2014)	October 14, 2014	October 31, 2014

Table 2-1 lists the groundwater samples collected and analyzed during the 1Q2012, 3Q2012, 3Q2013, and 4Q2014 sampling events. EPA has reason to question analytical laboratory results for the 1Q2013 samples and is not able to say that these data are of known quality. Therefore, the results are not included in this report.

Groundwater samples were collected and analyzed in accordance with the protocols outlined in the following documents:

- Samples collected in 2012 and 2013: Field sampling plan (FSP; CH2M HILL, 2004a, 2004c) and Quality Assurance Project Plan (QAPP; CH2M HILL, 2004b, 2004d), and Sampling and Analysis plan (SAP) Addendum 1 (CH2M HILL, 2006a, 2006b)
- Samples collected in 2014: QAPP (CH2M HILL, 2014)

2.1 Sample Collection Methods

Groundwater monitoring well sample collection procedures for the 2012-2014 sampling events are summarized below.

2.1.1 EPA Well Sampling

EPA monitoring wells are equipped with dedicated pump tubing and bladder pumps to allow sampling using low-flow techniques. During well purging, continuous measurements of field parameters including specific conductance, pH, temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity were used to assess when purged water had reached equilibrium. A flow-through cell was used to continuously monitor purge water quality. Each well was pumped until the measured field parameters stabilized within 10 percent over three successive readings prior to collecting samples. Monitoring well purge forms are provided in Appendix A.

If wells did not produce enough water for purging with a pump, the dedicated bladder pump was manually removed from the well, a disposable polyethylene bailer and new polyethylene string were used to purge and collect samples. The bladder pump was manually lowered down to the same depth in the well after sample collection.

Samples were not collected for the following wells because the wells were either dry or there was not enough groundwater in the well for bailer sampling:

- 1Q2012: MW17A
- 3Q2012: MW9A, MW17A, and MW19
- 3Q2013: MW9A, MW13A, MW16A, MW17A, and MW19,
- 4Q2014: MW6, MW8A, MW9A, MW11, MW13A, MW17A, and MW19,

Samples were not collected during 1Q2012 from wells MW2, MW12, and MW31 due to logistical constraints.

Duplicate samples were collected from the following OU2 wells:

- 1Q2012: MW8D, MW16B, MW23C, MW24D, MW27D, and MW28
- 3Q2012: MW14, MW16B, MW17C, MW21, MW23D, and MW27D
- 3Q2013: MW4B, MW22, MW23B, MW25C, MW26B, and MW27A
- 4Q2014: MW4A, MW14, MW17B, MW25A, and MW-32

Split samples were collected form the following OU1 wells:

- 1Q2012: OW3A, OW3B, and OW4A
- 3Q2012: OW7, OW10, and OW11

2.1.2 OPOG Well Sampling

CH2M HILL collected split groundwater samples during OPOG groundwater sampling events on a case-by-case basis. Typically, when conducted, three split groundwater samples were collected and submitted to the EPA Region 9 laboratory for VOCs and 1,4-dioxane analysis. CH2M HILL collected split samples from the wells noted above in Section 2.1.1.

OPOG has been collecting samples from monitoring wells OW1 through OW12. The wells are not equipped with dedicated pumps, only with dedicated tubing. A 2-inch-diameter portable submersible pump is used for purging and sampling groundwater at these wells. Typically, three casing volumes are purged before sample collection (that is, OPOG does not use the low-flow sampling method). OPOG's analytical results are included in tables and figures in this report for 2012 through 2014; OPOG's laboratory reports and chain-of-custody records are not included.

2.1.3 Field Parameters Measurement

A digital combination conductivity-pH-temperature-DO-ORP meter was used to measure these parameters. Turbidity measurements were obtained with a digital readout turbidity meter (in nephelometric turbidity units [NTUs]). A photoionization detector (PID) was used to measure organic vapors (headspace) inside the well immediately after opening the well caps. Equipment used to measure field parameters was maintained and calibrated daily according to the manufacturer's specifications.

2.1.4 Depth to Water Measurement

Depth to groundwater was measured at monitoring wells immediately prior to well purging and sampling activities to establish a static water level. Water levels were measured with a decontaminated electronic water level indicator (sounder) to the nearest 0.01 foot. Water levels were also measured at regular intervals during purging activities to ensure that a constant drawdown was maintained during pumping. A final water level was recorded after sample collection. The reference point for water level measurements was the top of the casing. For wells with both inner and outer (conductor) casing, the top of the inner casing was used as the reference point.

2.2 Sample Analysis and Laboratory Assignments

All groundwater samples were analyzed for VOCs (including methyl tertiary butyl ether [MTBE]) and 1,4-dioxane. In addition, the 3Q2013 and 4Q2014 samples were analyzed for hexavalent chromium. The 4Q2014 samples were also analyzed for chromium. As noted above, the laboratory data for the 1Q2013 event are of unknown quality and are not included in this report.

Monitoring Event	VOCs	1,4-Dioxane	Hexavalent Chromium	Chromium	Comment
1Q2012	X	X	-	-	
3Q2012	X	X	-	-	
1Q2013	X	X	-	-	Data are of unknown quality and not reported.
3Q2013	X	X	X	-	
4Q2014	X	X	X	X	

A summary of the previously listed analytical parameters and applicable regulatory limits is provided in the Data Needs and Uses table of the two QAPPs (CH2M HILL, 2004d, 2014), which are included in Appendix B.

The groundwater samples were analyzed using EPA-approved methods described in SAP Addendum 1 (CH2M HILL, 2006a, 2006b) for the 2012 and 2013 samples, and in the QAPP (CH2M HILL, 2014) for the 2014 samples. The samples were analyzed as follows:

- VOCs and 1,4-dioxane: EPA Contract Laboratory Program (CLP) laboratory using gas chromatography/mass spectrometry (GC/MS) methods
- Hexavalent chromium: CH2M HILL-subcontracted laboratory American Environmental Testing Laboratory, Inc. (AETL) using EPA Method 218.6
- Chromium: EPA Region 9 laboratory using EPA Method E200.7/E200.8

2.3 Quality Assurance/Quality Control

QA/QC samples were collected in accordance with the protocols outlined in the FSP and QAPP. QC samples include ambient blanks, equipment blanks, field duplicates, laboratory QC samples (for matrix spike and matrix spike duplicates [MS/MSDs]), and temperature blanks. Ambient and equipment blanks were analyzed for VOCs. Field duplicates and laboratory QC samples were analyzed for the standard list of parameters as presented in Section 2.2. Twice the normal volume of sample was collected for laboratory QC samples. Equipment blanks were collected only during OPOG well sampling.

Following is a brief description of the QA/QC samples collected during the 2012-2014 sampling events:

- **Ambient Blanks.** Ambient blanks were collected to verify that contamination was not introduced to samples during collection, handling, or shipping. They were prepared by pouring high-performance liquid chromatography (HPLC) water directly into the sample bottles in the field. Ambient blanks were prepared and labeled in the same manner as the field samples and sent “blind” to the laboratory. Ambient blanks were collected at a frequency of 1 in every 10 consecutively collected samples or 1 per week, whichever was greater.
- **Equipment Blanks.** Equipment blanks were collected to determine whether or not contamination was introduced to samples through the repeated use of sampling equipment at different sample locations. One equipment blank per sampling event was collected during biannual sampling of OPOG wells. The OPOG wells have dedicated pump tubing, but not dedicated pumps. Equipment blanks were prepared by pouring HPLC water directly into the pump inlet, through the pump, and into sample

containers. Results from these samples are not included in this report. Equipment blanks were not collected for EPA well sampling.

- **Field Duplicates.** The field duplicate is an independent sample collected as close as possible to a primary sample from the same source, and is used to document sampling precision. Field duplicates were labeled and packaged in the same manner as the primary samples so that the laboratory could not distinguish between samples and duplicates. Each duplicate was taken using the same sampling and preservation method as other samples. An attempt was made to collect duplicate samples from monitoring wells that are known or suspected to contain the chemicals that are being analyzed. Field duplicates were collected at a frequency of 1 in every 10 consecutively collected samples or 1 per week, whichever was greater.
- **Laboratory QC Samples.** Laboratory QC samples were collected to perform MS and MSD analyses. An MS is an aliquot of a sample spiked with a known concentration of target analyte and provides a measure of the method accuracy. The MSD is a laboratory split sample of the MS, and is used to determine the precision of the method. Twice the normal water volume was collected for laboratory QC samples. Laboratory QC samples were collected at a frequency of 1 in every 20 consecutively collected samples or 1 per week, whichever was greater.
- **Temperature Blanks.** Temperature blanks were included with each cooler shipment containing samples sent to the laboratory (regardless of targeted analysis). A temperature blank consists of a VOC sample vial filled in the field with deionized water, handled like an environmental sample, and returned to the laboratory for analysis. The temperature blanks provides a means of verifying that samples have been maintained at the proper temperature (4 degrees Celsius [°C]) following collection and during transport to the laboratory.

SECTION 3

Results and Discussion

This section presents the groundwater monitoring and sampling results for OU2 during the period from 2012 through 2014, and incorporates data from OU1 and other non-EPA facilities. Section 3.1 presents the groundwater level data. Section 3.2 presents the analytical results. Section 3.3 presents a summary of the data quality assessment (DQA), which is provided in Appendix C.

3.1 Groundwater Levels and Gradients

Table 3-1 presents groundwater elevation data for OU2 monitoring wells (MW-1 through MW-32). Tables for OU1 monitoring wells (OW1 through OW12) and other non-EPA facilities are not presented in this report; however, hydrographs for OU1 data and a water table elevation contour map for OU1, OU2, and other non-EPA facilities are provided as described below.

Depth to water measurements were collected for the OU2 wells during each monitoring event to evaluate the direction and gradient of groundwater flow at OU1 and OU2, and to help characterize vertical water level differences between the shallow and deep aquifer units. Groundwater elevations were calculated by subtracting the depth to static water level from the elevation of the reference point (that is, the surveyed top of casing elevation for the monitoring well). Reference point elevations for EPA wells are consistent with North American Vertical Datum (NAVD) 1988 (2000 adjusted). As noted in Table 1-1, the reference point elevations for several OPOG wells were surveyed using the National Geodetic Vertical Datum (NGVD) 1929 datum. These reference point elevations were increased by 2.2 feet to match the NAVD 1988 (2000 adjusted) datum in this report. The 2.2-foot elevation adjustment resolved the difference in elevations between EPA and OPOG wells. The reference point elevations for other non-EPA facility wells are consistent with the NAVD 1988 (2000 adjusted) datum.

The water table was below the bottom of some wells during each sampling event due to below-normal rainfall. Water levels for the dry wells are therefore not available.

3.1.1 Hydrographs

Figure 3-1 presents a hydrograph for the shallowest screened OU2 wells that represent the water table elevation. The annual and long-term average precipitation (14.5 inches) is also shown for the Los Angeles downtown gaging station at the University of Southern California campus. Figures 3-2a through 3-2d provide hydrographs for each of the OU1 and OU2 wells or well clusters.

As shown in the figures, fluctuations of water levels at the OU1 and OU2 monitoring wells display a similar pattern over time and respond to precipitation patterns. Water levels generally increase following above-average rainfall and decrease following below-average rainfall periods. Water levels can cyclically rise and fall by over 10 feet in response to changing precipitation patterns. Several of the shallower OU1 and OU2 wells were dry during low-water-level periods. Water levels are not plotted on the hydrographs when a well is dry. Groundwater elevations generally decreased between 2002 and 2004, followed by a fairly quick recovery in the first half of 2005 in response to high precipitation; remained relatively steady during the period of mid-2005 to mid-2007; declined again during the period of mid-2007 to early-2010; recovered during the period of early-2010 to 2013; and then declined again after 2013 coincident with several years of below-average precipitation.

3.1.2 Horizontal Gradients

A groundwater elevation contour map was prepared for the 3Q2013 monitoring event using water levels measured at the shallowest monitoring well in each well cluster to evaluate the horizontal groundwater gradients and flow regime in the water table aquifer at OU1 and OU2. The contour map is shown in

Figure 3-3. If the shallowest well was dry within a well cluster, then the water level from next deepest well was used.

The groundwater flow direction and gradients have remained relatively consistent over time. This is demonstrated by the similar fluctuations in the water table across the monitoring well network as shown in the hydrograph in Figure 3-1. The hydrographs for each well are general parallel to one another, demonstrating that the groundwater flow direction has not changed significantly over time even though the water levels have risen and fallen by over 10 feet in response to changing precipitation patterns.

The horizontal groundwater gradients and flow direction is to the southwest in the vicinity of OU1 and most of OU2. The groundwater flow direction gradually becomes more southerly at the downgradient portion of OU2. The hydraulic gradient varies slightly with location. Horizontal gradients were calculated for the water table at the following three locations as shown on the water level contour map (units are in feet per foot [ft/ft]):

- 0.003 – Upper portion of OU2 (between Washington Boulevard and Whittier Boulevard)
- 0.019 – Middle portion of OU2 (between Florence Avenue and Los Nietos Road)
- 0.013 – Lower portion of OU2 (between Imperial Highway and Lakeland Road)

The horizontal gradients in the immediate vicinity of OU1 are influenced by the five GWE wells (EW-1 through EW-5) along Putnam Street. The groundwater elevations and capture zone created by GWE are documented in routine monitoring reports prepared by OPOG.

3.1.3 Vertical Gradients

Vertical gradients were calculated for collocated wells screened at different depth intervals in OU1 and OU2 for each of the five monitoring events. The vertical gradient calculations are tabulated in Table 3-2 and illustrated in Figure 3-4.

A consistent downward gradient (indicated by a positive vertical gradient value) was observed at most of the 34 well screen pairs, with a few exceptions where the water level at the well screened in the deeper interval was slightly higher than that at the well screened in the shallow interval (indicated by a negative vertical gradient value). The downward vertical gradient is mostly attributed to groundwater recharge occurring at the water table, including recharge from precipitation and surface water bodies such as rivers and spreading basins, along with groundwater discharge via regional production pumping occurring in the deep aquifers throughout the groundwater basin.

Relatively larger downward vertical gradients occur over nine well pairs that exceed 0.2 ft/ft (MW8C-8D, MW9A-9B, MW13A-13B, MW17B-17C, MW20B-20C, MW25C-25D, MW26B-26C, MW27B-27C, and MW27C-27D), with a maximum downward vertical gradient observed to be slightly over 0.5 ft/ft (MW25C-MW25D). Downward vertical gradients of less than 0.2 ft/ft occur at the remaining well pairs, except for consistent small upward gradients observed for two well pairs (MW1A-1B and MW18A-18B). The upward gradients at these two well pairs is less than 0.02 ft/ft. The well pair beneath MW18A-18B (MW18B-18C) has a downward gradient. There is no well pair beneath well pair MW1A-1B. Occasional, inconsistent upward gradients are observed for other well pairs that appear to be outliers within a pattern of mostly downward gradients. These inconsistent upward gradients could be attributable to local piezometric head variations caused by heterogeneity of the aquifer, but could also be related to depth-to-water measurement accuracy.

3.2 Analytical Results

The entire set of analytical results for the OU2 wells have been loaded into the EPA project database for the Omega Chemical site and are available upon request. Table 3-3 presents analytical results for OU1 and OU2 wells for the following constituents, which are routinely detected and include the majority of the COCs related to OU1 and OU2:

- VOCs – chlorinated compounds: PCE; TCE; 1,1-dichloroethene (1,1-DCE); cis-1,2-dichloroethene (cis-1,2-DCE); 1,1-dichloroethane (1,1-DCA); 1,2-dichloroethane (1,2-DCA); and chloroform
- VOCs – freons: Freon 11 and Freon 113
- 1,4-dioxane
- Hexavalent chromium and chromium

Concentration contour maps were prepared for the 3Q2013 monitoring event for PCE, TCE, Freon 11, Freon 113, 1,4-dioxane, and hexavalent chromium (Figures 3-5a through 3-5f). These maps were prepared using (1) the highest concentrations measured at OU2 and OU1 monitoring wells where multiple depth well clusters occur, and (2) the highest concentrations measured for the non-EPA facilities as close to the 3Q2013 as possible. The facilities for which data were used are as follows (in alphabetical order):

- Angeles Chemical Co. (former)
- Ashland Chemical Co. (former)
- CENCO Refinery/ Powerine (former)
- Chrysler (former)
- Continental Heat Treating
- Foss Plating
- Leggett and Platt
- Los Nietos Business Center
- McKesson Chemical Corp (former)
- Mission Linen (former)
- Mobile Jalk Fee (former)
- Pilot Chemical Co. (former)
- Productol (former)
- Techni-Braze, Inc.
- Waste Disposal, Inc. (former)
- Yellow Freight Systems (former)

Some but not all of these facilities are known sources of groundwater contamination. When available, 3Q2013 data were used for contouring PCE, TCE, Freon 11, Freon 113, 1,4-dioxane, and hexavalent chromium. When 3Q2013 data were not available, the most recently available data were used. The time period of the data used is indicated in the figures for each facility.

The concentrations of chlorinated solvents, freons, 1,4-dioxane, hexavalent chromium, and chromium are discussed below. The concentrations from 2012 through 2014 are used to describe the distribution of COCs. This includes the data from OW12, which is a newer well and only includes data for 2014; therefore, data for this well are not included in the contour maps in Figures 3-5a through 3-5f.

3.2.1 Volatile Organic Compounds

The distribution of chlorinated VOCs, freons, and 1,4-dioxane indicate that OU1 is a source of these COCs to OU2. The highest concentrations generally occur at OW9 and OW12, immediately downgradient of the former Omega facility. The distribution of TCE also indicates a second source area to the north where higher

concentrations of TCE occur at MW12 and MW31. Other potential sources of these COCs may occur in the vicinity of OU2. However, it is beyond the scope of this analysis to identify other potential sources.

3.2.1.1 Chlorinated Solvents

PCE. PCE is the VOC detected at the highest concentrations in OU1 and is a primary chemical associated with the Omega Site. The distribution of PCE is shown in Figure 3-5a. The highest concentrations of PCE were detected at wells OW9 and OW12 immediately downgradient of the Omega property. PCE concentrations ranged from 1,000 to 10,000 micrograms per liter (μg/L) in these wells. PCE was detected at lower concentrations at all other OU1 wells. PCE was detected at concentrations between 5 and 10 μg/L in the monitoring well located immediately upgradient of the Omega Site (OW7).

PCE concentrations downgradient of OU1 are highest in the direction of groundwater flow, which is to the southwest. Concentrations exceeding 450 μg/L were measured downgradient to the MW-25 well cluster near Sorenson Avenue. Concentrations exceeding 100 μg/L were measured downgradient to the MW-27 well cluster between Telegraph Road and Florence Avenue.

TCE. Although the overall distribution of TCE is similar to PCE downgradient of the former Omega facility in the OU2 area, the distribution in the OU1 area is different. The distribution of TCE is shown in Figure 3-5b. In the vicinity of OU1, there appear to be two sources of TCE with similarly high concentrations. The highest concentrations occur in MW12 and MW31 to the north of the former Omega facility in an area where a second source area of TCE may be present. These concentrations exceed 500 μg/L. Similarly high concentrations also occur at OW9 and OW12 immediately downgradient of the Omega property. TCE was not detected in the monitoring well located immediately upgradient of the Omega Site (OW7).

Similar to PCE, TCE concentrations downgradient of OU1 and the secondary TCE source are highest in the direction of groundwater flow, to the southwest. Concentrations exceeding 100 μg/L were measured downgradient to the MW27 well cluster between Telegraph Road and Florence Avenue.

1,1-DCE, cis-1,2-DCE, 1,1-DCA, 1,2-DCA, and Chloroform. 1,1-DCE, cis-1,2-DCE, 1,1-DCA, 1,2-DCA, and chloroform occur within the footprint of the PCE and TCE groundwater plumes and are generally lower in concentration than PCE and TCE. The highest concentrations generally occur at wells OW9 and OW12 immediately downgradient of the former Omega facility. One notable exception is cis-1,2-DCE, which occurs at its highest concentrations at the MW1 well cluster (MW1A and MW1B) and MW27 well cluster (MW27A, MW27B, MW27C, and MW27D).

3.2.1.2 Freons

Freon 11 and Freon 113 occur within the footprint of the PCE and TCE groundwater plumes and are generally lower in concentration than PCE and TCE. The distribution of Freon 11 and Freon 113 is shown in Figures 3-5c and 3-5d. Both Freon 11 and Freon 113 are stable compounds that do not readily degrade in groundwater and are useful tracers for the fate and transport of other COCs related to OU2. The highest concentrations generally occur at wells OW9, OW11, and OW12 immediately downgradient of the Omega property. The concentration of Freon 113 is approximately 2.4 times that of Freon 11 based on the median and average of the paired constituent concentrations where they were both detected for the MW wells from 2012 through 2014. The maximum concentrations of Freon 113 were over 1,000 μg/L, and concentrations of Freon 11 were over 100 μg/L at wells OW9, OW11, and OW12.

3.2.1.3 1,4-Dioxane

1,4-Dioxane occurs within the footprint of the PCE and TCE groundwater plumes and is generally lower in concentration than PCE and TCE. The distribution of 1,4-dioxane is shown in Figure 3-5e. The highest concentrations generally occur at well OW9 immediately downgradient of the Omega property. The maximum concentration in this well was 1,000 μg/L for the period from 2012 through 2014.

3.2.1.4 Time Series Concentrations

Appendix D provides time series concentration charts for the VOCs discussed above for each of the MW and OW wells. The charts were prepared with common concentration and time scales. The concentration scale is logarithmic and ranges from 0.1 to 100,000 µg/L. The time scale ranges from 2000 to 2015. The groundwater elevation for each well is also charted on a y-second axis.

Some of the concentration changes are shorter-term in nature and may be related to factors including annual precipitation and water level elevation changes, where water levels increase during wetter periods and decrease during drier periods. Visual inspection of the charts shows several wells for which the long-term concentration trends appear to be consistently increasing or decreasing, beyond the shorter-term changes. These include the following:

- Many of the OU1 wells immediately downgradient of the former Omega facility have consistent, longer-term declining concentrations of VOCs. This includes wells OW1A, OW1B, OW3A, OW3B, OW4A, OW5, OW6, OW7, and OW8A. These decreases may be the result of ongoing remediation being conducted by OPOG that consists of SVE, GWE, and DPE. Wells O9 through O12 are relatively new (installed after 2008) and long-term trends were not evident for these wells, in part due to the shorter period of record.
- Wells between the former Omega facility downgradient to Los Nietos Road have mixed longer-term trends of increasing and decreasing concentrations. Examples include:
  - Declining VOC concentrations occur at wells MW2, MW5, MW15, and MW10.
  - Increasing VOC concentrations occur at well cluster MW9 (MW9A and MW9B), and the MW8 well cluster (MW8B, MW8C, and MW8D).
  - Declining and increasing VOC concentrations occur at different wells within some well clusters. Two of the wells at the MW4 well cluster (MW4A, MW4B) have declining concentrations, while one well had increasing concentrations (MW4C). Two of the wells at the MW23 well cluster have declining concentrations (MW23A and MW23C), while two of them have increasing concentrations (MW23B and MW23D). One of the wells at the MW24 well cluster has declining concentrations (MW24A), while two of them have increasing concentrations (MW24B and MW24C). One of the wells at the MW25 well cluster has declining concentrations (MW25C), while two of them have increasing concentrations (MW25A and MW25B). One of the wells at the MW16 well cluster has increasing concentrations through 2010, decreasing concentrations from 2010 through 2012, and no clear trend after 2012 (MW16B), while two wells do not have readily apparent increasing or decreasing concentrations (MW16A and MW16C).
- Wells between Los Nietos Road and Florence Avenue also have mixed longer-term trends of increasing and decreasing concentrations. Examples include:
  - Increasing VOC concentrations occur at well cluster MW17 (MW17B; other wells at MW17 cluster do not show an upward or downward trend), and well cluster MW20 (MW20A, MW20B, and MW20C).
  - Declining and increasing VOC concentrations occur at different wells within some well clusters. Two of the wells at the MW26 well cluster have declining concentrations (MW26A and MW26B), while two do not have readily apparent declining or increasing concentrations (MW26C and MW26D). Two of the wells at the MW27 well cluster have declining concentrations (MW27A and MW27B), while one well has increasing concentrations (MW27D) and one shows no clear long-term concentration trend (MW27C).
- Wells MW29 and MW30 have consistent, longer-term decreasing concentrations of VOCs. Newer well MW32 only has three sampling events, which are not sufficient to determine a longer-term trend in concentrations, although the data from 2012 through 2014 show increasing concentrations.

- Wells on the western and eastern edges of the OU2 plume have relatively consistent concentrations over time. These wells are MW6, MW21, MW22, and MW28 on the western edge of OU2, and wells MW3, MW18A, MW11, and MW19 on the eastern edge.
- Wells MW12 and MW31 at the second TCE source area north of OU1 do not have a readily discernable longer-term trend of increasing or decreasing concentrations.

Other wells may have longer-term increasing or decreasing concentrations of VOCs upon further analysis. This additional analysis is beyond the scope of this report.

3.2.2 Hexavalent Chromium and Chromium

Although chromium and hexavalent chromium are co-detected at many of the monitoring wells in which chlorinated VOCs and 1,4-dioxane are detected, their distribution is notably different and suggests a separate source to the OU2 area to the west of OU1.

3.2.2.1 Hexavalent Chromium

The highest concentrations of hexavalent chromium occur at a concentration over 100 μg/L at MW6, which is located approximately 1 mile west of OU1. The distribution of hexavalent chromium is shown in Figure 3-5f. Concentrations over 10 μg/L that occur west of OU1 were detected at the MW1 well cluster (MW-1A and MW-1B), MW8 well cluster (MW8A, MW8B, and MW8C), MW9, and MW23B. This area or vicinity may represent a source of hexavalent chromium.

Concentrations over 10 μg/L that occur further downgradient within the OU2 plume include well MW17B, MW20 well cluster (MW20A and MW20B), MW25 well cluster (MW25A and MW25B), and MW26 well cluster (MW26A and MW26B).

The concentrations of hexavalent chromium are generally less than 5 μg/L at the former Omega facility.

3.2.2.2 Chromium

There appears to be a correlation between hexavalent chromium and chromium concentrations for the 4Q2014 monitoring event, the event where both were analyzed. Table 3-4 summarizes the analytical results for samples collected by CH2M HILL and compares the hexavalent chromium and chromium concentrations by calculating the relative percent difference (RPD) between the two. An RPD is only calculated if both are detected either at concentrations above the reporting limit or estimated concentrations below the reporting limit. A positive RPD is calculated when hexavalent chromium is higher in concentration and a negative RPD is calculated when chromium is higher.

The RPD for the total number of available pairs (50) ranges from -195 percent to 31 percent, and does not indicate a strong correlation between hexavalent chromium and chromium. When the seven largest RPDs are omitted, the RPD for the reduced number of available pairs (43) ranges from -32 percent to 31 percent, indicating a stronger correlation. This may indicate that most of the chromium could be present in the form of hexavalent chromium.

3.2.2.3 Time Series Concentrations

An evaluation of time series concentrations for hexavalent chromium and chromium cannot be performed because monitoring for these constituents only began in 2013. There are two results for hexavalent chromium (3Q2013 and 4Q2014) and one result for chromium (4Q2014).

3.2.3 Vertical Distribution of Contaminants

Overall, concentrations of COCs decrease with increasing depth at well clusters with multiple well screen depths (for example, those with some or all of the A, B, C, and D intervals). Wells with only two well screens may not have a screen deep enough to allow observation of this trend. Concentrations for these wells do not always decrease sequentially from the shallowest to deepest well screen. In some cases, the intermediate well screen has the highest concentration, indicating preferential COC flow paths or a

reduction in COC concentrations in the shallow well screen. The trend of COC concentrations with depth for these wells can be seen in Table 3-3, which organizes the analytical results by well depth for each of the well clusters.

3.2.4 Duplicate Sample Results

Table 3-5 summarizes the duplicate sample results for the MW and OU wells, both those collected by CH2M HILL on behalf of EPA and those collected by OPOG. The results are compared by calculating the RPD between the primary and duplicate concentrations, where the sample pairs both have detected results above the reporting limit or estimated concentrations below the reporting limit. In virtually all cases (211 of 217 sample pairs), the RPD is within 25 percent. Four of the six RPDs greater than 25 percent are for 1,4-dioxane analyses with reported values less than 2 µg/L. In the other two pairs, one or both results was J flagged.

3.2.5 Split Sample Results

Table 3-6 summarizes the split sample results for the samples collected for the OU1 wells by CH2M HILL on behalf of EPA and OPOG. The results are compared by calculating the RPD between the two sets of data where the sample pairs both have detected concentrations either above the reporting limit or estimated concentrations below the reporting limit. Most of the RPDs (23 of 31 sample pairs) are within 25 percent. All but one of the RPDs above 25 percent occur at a single well (OW3A).

3.3 Data Quality Assessment

A DQA was performed for the groundwater samples collected and analyzed from 2012 through 2014 for OU2. The DQA summarizes the results of the QA/QC activities prescribed in the two QAPPs under which these samples were collected and analyzed, and provides a data usability assessment. The DQA is provided in Appendix C.

Samples collected and analyzed in 2012 and 2013 were evaluated according to the 2004 QAPP (CH2M HILL, 2004b, 2004d) and the 2006 SAP Addendum 1 (CH2M HILL, 2006a, 2006b). Samples collected in 2014 were evaluated according to the 2014 QAPP (CH2M HILL, 2014).

The chemical data were validated and evaluated using the two QAPPs as a guide for data quality evaluation of the groundwater samples collected and analyzed during the 1Q2012, 3Q2012, 3Q2013, and 4Q2014 sampling events. As noted above, the analytical results for 1Q2013 samples are of unknown quality and are therefore not included in this report or in the DQA.

Data quality objectives have been prescribed in the QAPPs in terms of precision, accuracy, representativeness, comparability, and completeness parameters. The definition of each term is provided in the DQA in Appendix C. The following is a summary of the results for each parameter:

- Precision: No data were qualified for laboratory duplicate or field imprecision.
- Accuracy: Accuracy recovery exceedances affected less than 0.4 percent of the data.
- Representativeness: Laboratory and field blank detections affected less than 0.4 percent of the data. No field duplicate variability resulted in data qualification.
- Comparability: All comparability factors were met.
- Completeness: Data completeness is greater than 99 percent and the completeness goal has been met.

The data are found to be useable for their intended purpose.

SECTION 4

References

CH2M HILL. 2004a**.** *Field Sampling Plan for Omega Chemical Superfund Site Operable Unit 1 Remedial Investigation/Feasibility Study Oversight*. Prepared for EPA. April.

CH2M HILL. 2004b. *Quality Assurance Project Plan Omega Chemical Superfund Site Remedial Investigation/ Feasibility Study Oversight*. Prepared for EPA. April.

CH2M HILL. 2004c. *Field Sampling Plan Omega Chemical Superfund Site Operable Unit 2 Remedial Investigation/Feasibility Study*. Prepared for EPA. July.

CH2M HILL. 2004d. *Quality Assurance Project Plan Omega Chemical Superfund Site Operable Unit 2 Remedial Investigation/Feasibility Study*. Prepared for EPA. July.

CH2M HILL. 2006a. *Field Sampling Plan for Omega Chemical Superfund Site Operable Unit 2 Remedial Investigation/Feasibility Study Addendum 1*. Prepared for EPA. November.

CH2M HILL. 2006b. *Quality Assurance Project Plan Omega Chemical Superfund Site Operable Unit 2 Remedial Investigation/Feasibility Study Addendum 1.* Prepared for EPA. November.

CH2M HILL. 2010. *Final Remedial Investigation/Feasibility Study Reports, Omega Chemical Corporation Superfund Site Operable Unit 2*. Prepared for EPA. August.

CH2M HILL. 2011. *Groundwater Monitoring Report for 2008 and 2009, Omega Chemical Corporation Superfund Site Operable Unit 2*. Prepared for EPA. May.

CH2M HILL. 2012a. *Groundwater Monitoring Report for 2010 and 2011, Omega Chemical Corporation Superfund Site Operable Unit 2*. Prepared for EPA. June.

CH2M HILL. 2012b. *MW32 Well Installation and Sampling Report, Omega Chemical Corporation Superfund Site Operable Unit 2*. Prepared for EPA. August.

CH2M HILL. 2014. *Quality Assurance Project Plan for Groundwater Monitoring at Omega Chemical Corporation Superfund Site Operable Unit 2 (OU2).* Prepared for EPA. June.

Tables

TABLE 1-1

Well Construction Details - OPOG and EPA Monitoring Wells

Omega Chemical Superfund Site

Well ID	X Coordinate (meters)	Y Coordinate (meters)	Surface Elevation (feet amsl)	TOC Elevation (feet amsl)	Depth to Screen Top (feet bgs)	Depth to Screen Bottom (feet bgs)	Total Depth (feet bgs)	Total Depth Drilled (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screen Material	Screen Slot Size (inches)	Casing Material	Filter Pack Grade	Filter Pack Top (feet bgs)	Filter Pack Bottom (feet bgs)	Drilling Method	Annular Seal Material	Annular Seal Top (feet bgs)	Annular Seal Bottom (feet bgs)
OW1A	403554.4000	3759242.1000	209.99[a]	212.50[a]	63	77.5	77.5	80	10	4	SST	0.02	SCH40 PVC	2/12	59	78	Hollow-stem auger	neat slurry	3.5	56.2
OW1B	403542.8490	3759236.7550	207.37	207.18	110	120	120	130	10	4	SST	0.02	Mild Steel	2/12	99	130	Hollow-stem auger	95/5 slurry bentonite pellets	0 96	96 99
OW2	403461.2000	3759246.6000	203.24[a]	202.30[a]	60	80	80	85	10	4	SST	0.02	Mild Steel	2/12	55	85	Hollow-stem auger	95/5 slurry bentonite pellets	0 50	50 55
OW3A	403503.4000	3759170.1000	199.08[a]	198.53[a]	63	83	83	85	10	4	SST	0.02	Mild Steel	2/12	58	85	Hollow-stem auger	95/5 slurry bentonite pellets	0 53	53 58
OW3B[b]	403522.0000	3759148.0000	197.77[a]	197.06[a]	112	122	122	139	10	4	SST	0.01	SCH40 PVC	2/12	106	126	Mud rotary	95/5 slurry bentonite chips #30 transition sand	0 99 105	99 105 107
OW4A	403320.6000	3759071.9000	184.93[a]	184.67[a]	49.8	69.8	69.8	80	10	4	SST	0.02	Mild Steel	2/12	47.7	75.7	Hollow-stem auger	95/5 slurry bentonite pellets	2 42.5	42.5 47.7
OW4B	403317.0360	3759072.3480	184.95	184.50	112	122.3	122.3	132	10	4	SST	0.02	Mild Steel	2/12	109.5	132	Hollow-stem auger	95/5 slurry bentonite pellets	2 105	105 109.5
OW5	402744.6000	3758929.8000	154.88[a]	154.16[a]	30	50	50	52	10	4	SST	0.02	SCH40 PVC	2/12	25	51	Hollow-stem auger	95/5 slurry bentonite	0 20	20 25
OW6	403207.7000	3758942.3000	173.14[a]	172.74[a]	38	58	58	61.5	10	4	SST	0.02	Mild Steel	2/12	36	59	Hollow-stem auger	95/5 slurry bentonite chips	2 30.5	30.5 36
OW7	403600.4000	3759301.6000	215.54[a]	214.21[a]	70.9	90.9	90.9	92	10	4	SST	0.02	Mild Steel	2/12	65	92.5	Hollow-stem auger	95/5 slurry bentonite pellets	2 60.6	60.6 65
OW8A	403481.6370	3759209.4910	201.20	200.64	60.4	80	80	81	10	4	SST	0.02	Mild Steel	2/12	55	81	Hollow-stem auger	95/5 slurry bentonite pellets	2 51	51 55
OW8B	403480.0430	3759212.7890	201.43	200.82	116	126	126	143	10	4	SST	0.01	SCH40 PVC	2/12	111.3	128	Mud rotary	95/5 slurry	2	110
OW-9	403443.8000	3759195.6000	198.26[a]	195.70[a]	70	90	90.2	n/a	n/a	4	SST	0.02	SCH40 PVC	2/12	65.0	90	Hollow-stem auger	95/5 slurry	2	60
OW-10	403476.6000	3759118.7000	195.77[a]	193.17[a]	70	89.5	90.2	n/a	n/a	4	SST	0.02	SCH40 PVC	2/12	64.5	90	Hollow-stem auger	95/5 slurry	2	59.5
MW1A	402749.8678	3759022.8370	157.81	157.71	45	60	60	60	10	4	SCH40 PVC	0.02	SCH40 PVC	3	41.5	60	Hollow-stem auger	95/5 slurry medium chips	1 35	35 42
MW1B	402749.9621	3759020.3187	158.10	158.05	75	85.4	85.4	95	10	4	SCH40 PVC	0.02	SCH40 PVC	3	72	86	Hollow-stem auger	95/5 slurry bentonite pellets	1 67	67 72
MW2	402799.4810	3758870.1561	154.24	154.21	45	60	60	60	10	4	SCH40 PVC	0.02	SCH40 PVC	3	42.5	60	Hollow-stem auger	95/5 slurry bentonite pellets	1 38	38 42
MW3	402931.5361	3758376.4901	151.86	151.48	38	48	48	51.3	10	4	SCH40 PVC	0.02	SCH40 PVC	3	35.5	48	Hollow-stem auger	95/5 slurry bentonite chips	1 32	32 36
MW4A	402537.1475	3758403.1393	147.02	146.80	42.7	53	53	53	10	4	SCH40 PVC	0.02	SCH40 PVC	3	38.5	53	Hollow-stem auger	95/5 slurry bentonite chips	1 36	36 38.5
MW4B	402539.6698	3758404.8988	147.00	146.84	69.7	80	80	125	10	2	SCH40 PVC	0.02	SCH40 PVC	3	67	80	Mud rotary	95/5 slurry bentonite chips/pellets	1 61.5	61.5 67
MW4C	402539.8674	3758404.7150	147.39	147.10	88.7	99	99	125	10	2	SCH40 PVC	0.02	SCH40 PVC	3	85	99.5	Mud rotary	bentonite pellets	80	85
MW5	402519.7145	3758707.9616	150.84	150.60	43.3	53.3	53.3	53	10	4	SCH40 PVC	10.00	SCH40 PVC	3	40.5	53.3	Hollow-stem auger	95/5 slurry bentonite chips	1 34	34 40.5
MW6	402213.7998	3758823.5521	150.39	150.28	37.1	47.5	47.5	47.5	10	4	SCH40 PVC	0.02	SCH40 PVC	3	35	47.5	Hollow-stem auger	95/5 slurry bentonite pellets	1 32	32 35

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Omega Chemical Superfund Site

Well ID	X Coordinate (meters)	Y Coordinate (meters)	Surface Elevation (feet amsl)	TOC Elevation (feet amsl)	Depth to Screen Top (feet bgs)	Depth to Screen Bottom (feet bgs)	Total Depth (feet bgs)	Total Depth Drilled (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screen Material	Screen Slot Size (inches)	Casing Material	Filter Pack Grade	Filter Pack Top (feet bgs)	Filter Pack Bottom (feet bgs)	Drilling Method	Annular Seal Material	Annular Seal Top (feet bgs)	Annular Seal Bottom (feet bgs)
MW7	402772.1185	3757891.0470	143.59	143.28	35.8	46	46	46	10	4	SCH40 PVC	0.02	SCH40 PVC	3	31	46	Hollow-stem auger	95/5 slurry bentonite chips	1 28	28 31
MW8A	402025.0430	3758460.7972	150.44	150.14	30	45	45	45	10	4	SCH40 PVC	0.02	SCH40 PVC	3	27	45	Hollow-stem auger	95/5 slurry bentonite chips	1 22	22 27
MW8B	402028.6156	3758457.7772	150.33	150.03	65	75	75	93	10	2	SCH40 PVC	0.02	SCH40 PVC	3	63	75	Hollow-stem auger	95/5 slurry bentonite pellets	1 59	59 63
MW8C	402028.4773	3758457.8119	150.33	150.03	86.7	91.7	91.7	93	10	2	SCH40 PVC	0.02	SCH40 PVC	3	84	93	Hollow-stem auger	bentonite pellets	75	83.5
MW8D	402021.5454	3758462.1309	150.09	149.91	110	120	120	150	10	4	SCH40 PVC	0.02	SCH40 PVC	3	108	122.5	Mud rotary	95/5 slurry bentonite pellets	1 103	103 108
MW9A	401709.5798	3758510.4304	148.88	148.84	25	35	35	90	10	4	SCH40 PVC	0.02	SCH40 PVC	3	23	35	Hollow-stem auger	95/5 slurry bentonite chips	1 18	18 23
MW9B	401711.8963	3758510.1513	149.06	148.90	49.8	60	60	65	10	4	SCH40 PVC	0.02	SCH40 PVC	3	47	65	Hollow-stem auger	95/5 slurry bentonite pellets	1 44	44 47
MW10	402019.5356	3757645.7219	147.40	147.45	52	62	62	65	10	4	SCH40 PVC	0.02	SCH40 PVC	3	49	65	Hollow-stem auger	95/5 slurry bentonite pellets	1 45	45 49
MW11	402265.9120	3757445.4058	150.94	150.89	40	50	50	55	10	4	SCH40 PVC	0.02	SCH40 PVC	3	38	55	Hollow-stem auger	95/5 slurry bentonite chips	1 31	31 37
MW12	403349.1800	3759544.0500	220.53	220.87	82	97	102.18	102	6	2	SCH80 PVC	0.01	SCH80 PVC	30	80	102	Sonic	95/5 slurry	1	80
MW13A	403429.2800	3759304.2900	206.33	206.02	56	66	72.2	71	10	2	SCH80 PVC	0.02	SCH80 PVC	2/16	54	69	Mud rotary	95/5 slurry medium chips	1 52	52 54
MW13B	403429.2800	3759304.2900	206.33	205.88	123	133	138.4	138	10	2	SCH80 PVC	0.02	SCH80 PVC	2/16	121	139	Mud rotary	medium chips 1:1 medium chips	69 71 119	71 119 121
MW14	403113.1900	3759053.8700	172.97	172.63	60	75	79.91	80	6	2	SCH80 PVC	0.02	SCH80 PVC	2/12	57	80	Sonic	95/5 slurry medium chips	1 55	55 57
MW15	402532.6800	3758539.7300	148.65	148.28	50	70	74.95	75	6	2	SCH80 PVC	0.01	SCH80 PVC	2/12	48	75	Sonic	95/5 slurry medium chips	1 46	46 48
MW16A	401492.7800	3757951.1300	153.47	153.19	45	60	65.93	65	8.75	2	SCH80 PVC	0.02	SCH80 PVC	2/16	43	60	Mud rotary	95/5 slurry medium chips	1 40	40 43
MW16B	401492.7800	3757951.1300	153.47	153.19	106	116	120.19	121	8.75	2	SCH80 PVC	0.02	SCH80 PVC	2/16	104	118	Mud rotary	1:1 medium chips	65 102	102 104
MW16C	401492.7800	3757951.1300	153.47	153.26	149	164	169.7	169	8.75	2	SCH80 PVC	0.02	SCH80 PVC	3	147	169	Mud rotary	medium chips 1:1 medium chips	118 121 145	121 145 147
MW17A	401264.1800	3757463.4200	159.40	159.03	56	71	75.67	76	8.75	2	SCH80 PVC	0.02	SCH80 PVC	2/16	54	73	Mud rotary	95/5 slurry medium chips	1 52	52 54
MW17B	401264.1800	3757463.4200	159.40	158.90	94	104	109.7	109	8.75	2	SCH80 PVC	0.02	SCH80 PVC	2/16	92	107	Mud rotary	medium chips 1:1 medium chips	73 76 90	76 90 92
MW17C	401264.1800	3757463.4200	159.40	159.00	172	182	187.15	187	8.75	2	SCH80 PVC	0.02	SCH80 PVC	2/16	170	190	Mud rotary	medium chips 1:1 medium chips	107 109 168	109 168 170
MW18A	402590.5500	3757631.0500	144.32	143.73	56	71	75.95	76	8.75	2	SCH80 PVC	0.02	SCH80 PVC	2/16	54	76	Mud rotary	95/5 slurry medium chips	1 52	52 54
MW18B	402590.5500	3757631.0500	144.32	143.83	90	100	105.47	105	8.75	2	SCH80 PVC	0.02	SCH80 PVC	2/16	88	103	Mud rotary	1:1 medium chips	76 86	86 88
MW18C	402590.5500	3757631.0500	144.32	143.83	146	161	166.6	166	8.75	2	SCH80 PVC	0.02	SCH80 PVC	2/16	144	164	Mud rotary	medium chips 1:1 medium chips	103 105 142	105 142 144

TABLE 1-1
Well Construction Details - OPOG and EPA Monitoring Wells
Omega Chemical Superfund Site

Well ID	X Coordinate (meters)	Y Coordinate (meters)	Surface Elevation (feet amsl)	TOC Elevation (feet amsl)	Depth to Screen Top (feet bgs)	Depth to Screen Bottom (feet bgs)	Total Depth (feet bgs)	Total Depth Drilled (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screen Material	Screen Slot Size (inches)	Casing Material	Filter Pack Grade	Filter Pack Top (feet bgs)	Filter Pack Bottom (feet bgs)	Drilling Method	Annular Seal Material	Annular Seal Top (feet bgs)	Annular Seal Bottom (feet bgs)
MW19	401687.0600	3756760.8500	159.01	158.73	56	71	74.8	76	6	2	SCH80 PVC	0.02	SCH80 PVC	2/16	54	76	Sonic	95/5 slurry medium chips	1 52	51 54
MW20A	400670.8400	3756601.7200	142.07	141.31	75	90	94.7	95	10	2	SCH80 PVC	0.02	SCH80 PVC	2/12	73	87	Mud rotary	95/5 slurry medium chips	1 70	70 73
MW20B	400670.8400	3756601.7200	142.07	141.32	122	132	137.7	137	10	2	SCH80 PVC	0.02	SCH80 PVC	2/12	120	137	Mud rotary	medium chips 1:1 medium chips	87 89 118	89 118 120
MW20C	400670.8400	3756601.7200	142.07	141.35	180	190	195.2	195	10	2	SCH80 PVC	0.02	SCH80 PVC	2/12	178	196	Mud rotary	medium chips 1:1 medium chips	132 134 176	134 176 178
MW21	400223.2600	3756893.9900	129.27	128.81	64	79	84.8	84	6	2	SCH80 PVC	0.02	SCH80 PVC	2/16	61	83	Sonic	95/5 slurry medium chips	1 59	59 61
MW22	400466.1900	3757381.9000	151.47	150.82	74	89	93.83	94	6	2	SCH80 PVC	0.02	SCH80 PVC	2/16	71	94	Sonic	95/5 slurry medium chips	1 68	68 71
MW23A	402207.2296	3758346.3553	149.07	148.76	35	55	60.00	62	8	4	SCH80 PVC	0.02	SCH80 PVC	3	32	62	Sonic	95/5 slurry medium chips	1 26	26 32
MW23B	402203.7800	3758349.1800	149.36	149.06	82	97	101.6	102	10	2	SCH80 PVC	0.02	SCH80 PVC	2/16	86	99	Mud rotary	95/5 slurry transitional sand	1 85	85 86
MW23C	402203.7800	3758349.1800	149.36	149.07	145	160	164.55	165	10	2	SCH80 PVC	0.02	SCH80 PVC	2/16	143	162	Mud rotary	medium chips 1:1 transitional sand	99 102 142	102 142 143
MW23D	402203.7800	3758349.1800	149.36	148.04	175	185	189.8	190	10	2	SCH80 PVC	0.02	SCH80 PVC	2/16	173	190	Mud rotary	medium chips 1:1 transitional sand	161 164 171	164 171 173
MW24A	402993.5009	3758908.7331	162.44	162.04	50	70	75	200	16	4	SCH80 PVC	0.02	SCH80 PVC	3	47	75	Mud rotary	95/5 slurry medium chips	1 40	40 47
MW24B	402993.3534	3758908.7679	162.44	162.03	110	125	130	200	16	2	SCH80 PVC	0.02	SCH80 PVC	3	107	130	Mud rotary	1:1 medium chips	75 100	100 107
MW24C	402993.4479	3758908.9665	162.44	162.02	140	160	165	200	16	4	SCH80 PVC	0.02	SCH80 PVC	3	137	163	Mud rotary	medium chips	130	137
MW24D	402993.5391	3758908.8547	162.44	162.05	173	178	183	200	16	2	SCH80 PVC	0.02	SCH80 PVC	3	170	185	Mud rotary	medium chips	163	170
MW25A	401814.5784	3757890.5951	148.25	147.90	45	65	70	220	14.5	4	SCH80 PVC	0.02	SCH80 PVC	3	41	71	Mud rotary	95/5 slurry medium chips	1 35	35 41
MW25B	401814.5418	3757890.6288	148.25	147.84	90	110	115	220	14.5	2	SCH80 PVC	0.02	SCH80 PVC	3	85	116	Mud rotary	1:1 medium chips	71 80	80 85
MW25C	401814.5418	3757890.6288	148.25	147.86	140	150	155	220	14.5	4	SCH80 PVC	0.02	SCH80 PVC	3	135	156	Mud rotary	1:1 medium chips	116 130	130 135
MW25D	401814.5418	3757890.6288	148.25	147.87	194	209	214	220	14.5	2	SCH80 PVC	0.02	SCH80 PVC	3	189	220	Mud rotary	1:1 medium chips	156 184	184 189
MW26A	401270.0608	3757125.1557	155.98	155.62	70	90	95	250	14.5	4	SCH80 PVC	0.02	SCH80 PVC	3	65	93	Mud rotary	95/5 slurry medium chips	1 57	57 65
MW26B	401269.9123	3757125.0907	155.98	155.45	105	120	125	250	14.5	2	SCH80 PVC	0.02	SCH80 PVC	3	100	126.5	Mud rotary	medium chips	93	100
MW26C	401270.0435	3757125.2668	155.98	155.41	145	160	165	250	14.5	2	SCH80 PVC	0.02	SCH80 PVC	3	140	166	Mud rotary	1:1 medium chips	126.5 135	135 140
MW26D	401269.9045	3757125.2349	155.98	155.37	185	205	210	250	14.5	2	SCH80 PVC	0.02	SCH80 PVC	3	180	212	Mud rotary	1:1 medium chips	166 175	175 180
MW27A	400902.9714	3755901.7834	139.47	139.24	90	110	115	225	14.5	4	SCH80 PVC	0.02	SCH80 PVC	2/12	87	115	Mud rotary	95/5 slurry medium chips	1 78	78 87

TABLE 1-1

Well Construction Details - OPOG and EPA Monitoring Wells

Omega Chemical Superfund Site

Well ID	X Coordinate (meters)	Y Coordinate (meters)	Surface Elevation (feet amsl)	TOC Elevation (feet amsl)	Depth to Screen Top (feet bgs)	Depth to Screen Bottom (feet bgs)	Total Depth (feet bgs)	Total Depth Drilled (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screen Material	Screen Slot Size (inches)	Casing Material	Filter Pack Grade	Filter Pack Top (feet bgs)	Filter Pack Bottom (feet bgs)	Drilling Method	Annular Seal Material	Annular Seal Top (feet bgs)	Annular Seal Bottom (feet bgs)
MW27B	400903.0537	3755901.6938	139.47	139.18	144	164	169	225	14.5	4	SCH80 PVC	0.02	SCH80 PVC	2/12	141	168	Mud rotary	1:1 medium chips	115 130	130 141
MW27C	400902.8870	3755901.6623	139.47	139.17	180	190	195	225	14.5	2	SCH80 PVC	0.02	SCH80 PVC	2/12	177	193	Mud rotary	medium chips	168	177
MW27D	400902.9879	3755901.5947	139.47	139.13	200	210	215	225	14.5	2	SCH80 PVC	0.02	SCH80 PVC	2/12	197	225	Mud rotary	medium chips	193	197
MW28	400066.1942	3755133.6448	120.40	119.91	85	105	110	112	8	4	SCH80 PVC	0.02	SCH80 PVC	3	80	112	Sonic	95/5 slurry medium chips	1 74	74 80
MW29	400888.7643	3753618.8894	107.34	107.10	90	110	115	117	8	4	SCH80 PVC	0.02	SCH80 PVC	3	87	117	Sonic	95/5 slurry medium chips	1 80	80 87
MW30	401820.1912	3753277.4081	107.24	106.70	95	115	120	130	8	4	SCH80 PVC	0.02	SCH80 PVC	3	91	120	Sonic	95/5 slurry medium chips medium chips (backfill)	1 85 120	85 91 130
MW31	403391.2061	3759680.3420	233.00	232.67	106	121	126	126	8	2	SCH80 PVC	0.01	SCH80 PVC	2/16	103	126	Hollow-stem auger	95/5 slurry bentonite chips #60 transition sand	1 99.5 102.6	99.5 102.6 103
MW32[c]	400218.1376	3754800.1590	117.08	116.78	163	178	183	250	8	3	SCH80 PVC	0.02	SCH80 PVC	3	160	183	Sonic	95/5 slurry bentonite chips #30 transition sand #3 sand bentonite chips #30 transition sand	1 70 75.5 77 102 158	70 75.5 77 102 158 160

Notes:

X and Y coordinates surveyed in UTM meters, NAD 83, Zone 11

Surface and TOC elevations surveyed in NAVD 88 datum, benchmark of DYHS (Downey High School), unless noted

[a] = Surface and TOC elevations surveyed in NGVD 29 datum

[b] Survey information for OW3B is not currently available. Coordinates are approximate.

[c] MW32 is constructed with a 1-inch piezometer screened from 80 to 100 feet bgs in the filter pack.

amsl = above mean sea level
bgs = below ground surface
EPA = U.S. Environmental Protection Agency
n/a = not available
NAD 83 = North American Datum 1983
NAVD 88 = North American Vertical Datum 1988
NGVD 29 = National Geodetic Vertical Datum 1929
OPOG = Omega Chemical Site Potentially Responsible Party (PRP) Organized Group
PVC = polyvinyl chloride
SCH = schedule
SST = stainless steel
TOC = top of casing
UTM = universal transverse Mercator

TABLE 2-1

Groundwater Samples Collected and Analyzed by EPA

Omega Chemical Superfund Site

Location	2012_1Q	2012_3Q	2013_3Q	2014_4Q
MW1A	N	N	N	N
MW1B	N	N	N	N
MW2	-	N	N	N
MW3	N	N	N	N
MW4A	N	N	N	N, FD
MW4B	N	N	N, FD	N
MW4C	N	N	N	N
MW5	N	N	N	N
MW6	N	N	N	Dry
MW7	N	N	N	N
MW8A	N	N	N	Dry
MW8B	N	N	N	N
MW8C	N	N	N	N
MW8D	N, FD	N	N	N
MW9A	N	Dry	Dry	Dry
MW9B	N	N	N	N
MW10	N	N	N	N
MW11	N	N	N	Dry
MW12	-	N	N	N
MW13A	N	N	Dry	Dry
MW13B	N	N	N	N
MW14	N	N, FD	N	N, FD
MW15	N	N	N	N
MW16A	N	N	Dry	N
MW16B	N, FD	N, FD	N	N
MW16C	N	N	N	N
MW17A	Dry	Dry	Dry	Dry
MW17B	N	N	N	N, FD
MW17C	N	N, FD	N	N
MW18A	N	N	-	N
MW18B	N	N	N	N
MW18C	N	N	N	N
MW19	N	Dry	Dry	Dry
MW20A	N	N	N	N
MW20B	N	N	N	N
MW20C	N	N	N	N
MW21	N	N, FD	N	N
MW22	N	N	N, FD	N
MW23A	N	N	N	N
MW23B	N	N	N, FD	N
MW23C	N, FD	N	N	N
MW23D	N	N, FD	N	N
MW24A	N	N	N	N
MW24B	N	N	N	N
MW24C	N	N	N	N
MW24D	N, FD	N	N	N

TABLE 2-1

Groundwater Samples Collected and Analyzed by EPA

Omega Chemical Superfund Site

Location	2012_1Q	2012_3Q	2013_3Q	2014_4Q
MW25A	N	N	N	N, FD
MW25B	N	N	N	N
MW25C	N	N	N, FD	N
MW25D	N	N	N	N
MW26A	N	N	N	N
MW26B	N	N	N, FD	N
MW26C	N	N	N	N
MW26D	N	N	N	N
MW27A	N	N	N, FD	N
MW27B	N	N	N	N
MW27C	N	N	N	N
MW27D	N, FD	N, FD	N	N
MW28	N, FD	N	N	N
MW29	N	N	N	N
MW30	N	N	N	N
MW31	-	N	N	N
MW32	not installed	N	N	N, FD
Split Samples with OU1 Wells				
OW3A	N	-	-	-
OW3B	N	-	-	-
OW4A	N, FD	-	-	-
OW7	-	N	-	-
OW10	-	N	-	-
OW11	-	N	-	-

Notes:

Dry wells not sampled.

FD = Field duplicate groundwater sample collected and analyzed.

N = Normal groundwater sample collected and analyzed.

TABLE 3-1

Groundwater Elevations for 2012, 2013, and 2014

Omega Chemical Superfund Site

Well ID	Screen Interval (feet bgs)	Date	Depth to Water (feet)	Measuring Point Elevation (feet)	Water Level Elevation (feet)
MW1A	45-60	03/21/12	39.86	157.71	117.85
		10/05/12	40.87	157.71	116.84
		03/11/13	43.21	157.71	114.50
		08/14/13	44.75	157.71	112.96
		10/24/14	52.05	157.71	105.66
MW1B	75-85.4	03/21/12	39.74	158.05	118.31
		10/05/12	40.91	158.05	117.14
		03/11/13	43.08	158.05	114.97
		08/14/13	44.64	158.05	113.41
		10/24/14	51.99	158.05	106.06
MW2	45-60	03/23/12	Dry	154.21	n/a
		10/05/12	37.51	154.21	116.70
		02/27/13	39.48	154.21	114.73
		08/26/13	41.19	154.21	113.02
		10/22/14	47.95	154.21	106.26
MW3	38-48	03/21/12	35.15	151.48	116.33
		09/27/12	35.27	151.48	116.21
		03/11/13	37.05	151.48	114.43
		08/15/13	38.37	151.48	113.11
		10/15/14	42.72	151.48	108.76
MW4A	42.7-53	03/19/12	31.35	146.80	115.45
		09/26/12	32.16	146.80	114.64
		02/26/13	34.26	146.80	112.54
		08/15/13	36.10	146.80	110.70
		10/15/14	41.80	146.80	105.00
MW4B	69.7-80	03/19/12	31.29	146.84	115.55
		09/25/12	33.15	146.84	113.69
		02/26/13	34.27	146.84	112.57
		08/15/13	35.50	146.84	111.34
		10/15/14	41.83	146.84	105.01
MW4C	88.7-99	03/19/12	33.19	147.10	113.91
		09/25/12	34.60	147.10	112.50
		08/15/13	38.82	147.10	108.28
		10/15/14	46.27	147.10	100.83
MW5	43.3-53.3	03/19/12	33.57	150.60	117.03
		09/26/12	34.71	150.60	115.89
		02/27/13	37.31	150.60	113.29
		08/15/13	39.02	150.60	111.58
		10/15/14	46.30	150.60	104.30
MW6	37.1-47.5	03/21/12	33.20	150.28	117.08
		10/03/12	35.15	150.28	115.13
		02/27/13	37.55	150.28	112.73
		08/16/13	39.40	150.28	110.88
		10/22/14	46.40	150.28	103.88
MW7	35.8-46	03/16/12	28.50	143.28	114.78
		09/27/12	28.73	143.28	114.55
		02/25/13	30.16	143.28	113.12
		08/14/13	31.56	143.28	111.72
		10/15/14	36.14	143.28	107.14
MW8A	30-45	03/20/12	34.48	150.14	115.66
		09/27/12	36.15	150.14	113.99
		03/05/13	38.60	150.14	111.54
		08/20/13	40.43	150.14	109.71
		10/17/14	59.20	150.14	90.94
MW8B	65-75	03/20/12	34.39	150.03	115.64
		09/27/12	35.97	150.03	114.06
		03/05/13	38.47	150.03	111.56
		08/20/13	40.42	150.03	109.61
		10/17/14	49.23	150.03	100.80

TABLE 3-1

Groundwater Elevations for 2012, 2013, and 2014

Omega Chemical Superfund Site

Well ID	Screen Interval (feet bgs)	Date	Depth to Water (feet)	Measuring Point Elevation (feet)	Water Level Elevation (feet)
MW8C	86.7-91.7	03/20/12	35.50	150.03	114.53
		09/27/12	37.25	150.03	112.78
		03/05/13	39.72	150.03	110.31
		08/20/13	41.86	150.03	108.17
		10/17/14	47.39	150.03	102.64
MW8D	110-120	03/20/12	40.58	149.91	109.33
		09/27/12	44.17	149.91	105.74
		03/05/13	45.98	149.91	103.93
		08/20/13	49.45	149.91	100.46
		10/17/14	44.69	149.91	105.22
MW9A	25-35	03/20/12	32.89	148.84	115.95
		10/08/12	34.83	148.84	114.01
		02/25/13	34.51	148.84	114.33
		08/29/13	dry	148.84	n/a
		10/21/14	34.57	148.84	114.27
MW9B	49.8-60	03/20/12	37.89	148.90	111.01
		10/08/12	41.41	148.90	107.49
		02/25/13	43.26	148.90	105.64
		08/29/13	46.40	148.90	102.50
		10/21/14	52.99	148.90	95.91
MW10	52-62	03/16/12	41.11	147.45	106.34
		10/11/12	42.71	147.45	104.74
		02/25/13	44.57	147.45	102.88
		08/21/13	46.90	147.45	100.55
		10/21/14	55.31	147.45	92.14
MW11	40-50	03/21/12	43.41	150.89	107.48
		10/01/12	44.15	150.89	106.74
		03/11/13	43.06	150.89	107.83
		08/20/13	48.20	150.89	102.69
		10/21/14	49.92	150.89	100.97
MW12	82-97	03/23/12	dry	220.87	n/a
		10/09/12	90.75	220.87	130.12
		03/13/13	91.04	220.87	129.83
		08/30/13	82.90	220.87	137.97
		10/22/14	96.60	220.87	124.27
MW13A	56-66	03/23/12	67.85	206.02	138.17
		09/28/12	65.70	206.02	140.32
		02/27/13	67.96	206.02	138.06
		08/16/13	70.58	206.02	135.44
		10/28/14	70.22	206.02	135.80
MW13B	123-133	03/23/12	87.86	205.88	118.02
		09/28/12	90.89	205.88	114.99
		02/27/13	91.91	205.88	113.97
		08/16/13	95.25	205.88	110.63
		10/28/14	103.30	205.88	102.58
MW14	60-75	03/21/12	54.05	172.63	118.58
		09/28/12	54.02	172.63	118.61
		03/12/13	55.90	172.63	116.73
		08/14/13	57.35	172.63	115.28
		10/24/14	63.69	172.63	108.94
MW15	50-70	03/19/12	31.62	148.28	116.66
		09/26/12	32.30	148.28	115.98
		02/27/13	34.43	148.28	113.85
		08/14/13	36.30	148.28	111.98
		10/15/14	42.66	148.28	105.62
MW16A	45-60	03/15/12	54.07	153.19	99.12
		10/08/12	56.90	153.19	96.29
		03/12/13	60.36	153.19	92.83
		08/27/13	dry	153.19	n/a
		10/17/14	60.74	153.19	92.45

TABLE 3-1

Groundwater Elevations for 2012, 2013, and 2014

Omega Chemical Superfund Site

Well ID	Screen Interval (feet bgs)	Date	Depth to Water (feet)	Measuring Point Elevation (feet)	Water Level Elevation (feet)
MW16B	106-116	03/15/12	55.20	153.19	97.99
		10/08/12	58.56	153.19	94.63
		03/12/13	61.59	153.19	91.60
		08/27/13	64.96	153.19	88.23
		10/17/14	75.13	153.19	78.06
MW16C	149-164	03/15/12	57.49	153.26	95.77
		10/04/12	62.15	153.26	91.11
		03/12/13	64.11	153.26	89.15
		08/27/13	68.15	153.26	85.11
		10/17/14	78.15	153.26	75.11
MW17A	56-71	03/04/13	dry	159.03	n/a
		08/28/13	dry	159.03	n/a
		10/16/14	75.36	159.03	83.67
MW17B	94-104	03/20/12	72.14	158.90	86.76
		10/09/12	74.58	158.90	84.32
		03/04/13	78.37	158.90	80.53
		08/28/13	81.50	158.90	77.40
		10/16/14	91.46	158.90	67.44
MW17C	170-180	03/20/12	80.69	159.00	78.31
		10/09/12	92.12	159.00	66.88
		03/04/13	87.01	159.00	71.99
		08/28/13	100.69	159.00	58.31
		10/16/14	106.74	159.00	52.26
MW18A	56-71	03/13/12	33.70	143.73	110.03
		09/25/12	34.65	143.73	109.08
		02/25/13	36.30	143.73	107.43
		08/22/13	38.49	143.73	105.24
		10/14/14	45.22	143.73	98.51
MW18B	90-100	03/13/12	33.68	143.83	110.15
		09/25/12	34.60	143.83	109.23
		02/25/13	36.25	143.83	107.58
		08/22/13	38.46	143.83	105.37
		10/14/14	45.11	143.83	98.72
MW18C	146-161	03/13/12	35.46	143.83	108.37
		09/25/12	37.95	143.83	105.88
		02/25/13	38.69	143.83	105.14
		08/22/13	41.92	143.83	101.91
		10/14/14	45.22	143.83	98.61
MW19	56-71	03/13/12	72.88	158.73	85.85
		03/13/13	74.14	158.73	84.59
		08/28/13	dry	158.73	n/a
		10/21/14	73.91	158.73	84.82
MW20A	75-90	03/15/12	75.61	141.31	65.70
		10/02/12	77.50	141.31	63.81
		03/13/13	81.49	141.31	59.82
		08/28/13	84.57	141.31	56.74
		10/31/14	89.30	141.31	52.01
MW20B	122-132	03/15/12	76.09	141.32	65.23
		10/02/12	78.12	141.32	63.20
		03/13/13	82.03	141.32	59.29
		08/28/13	85.42	141.32	55.90
		10/31/14	97.64	141.32	43.68
MW20C	180-190	03/15/12	88.22	141.35	53.13
		10/02/12	99.36	141.35	41.99
		03/13/13	95.99	141.35	45.36
		08/28/13	106.99	141.35	34.36
		10/31/14	118.00	141.35	23.35

TABLE 3-1

Groundwater Elevations for 2012, 2013, and 2014

Omega Chemical Superfund Site

Well ID	Screen Interval (feet bgs)	Date	Depth to Water (feet)	Measuring Point Elevation (feet)	Water Level Elevation (feet)
MW21	64-79	03/14/12	59.05	128.81	69.76
		10/01/12	62.32	128.81	66.49
		02/28/13	66.36	128.81	62.45
		08/30/13	70.49	128.81	58.32
		10/31/14	79.05	128.81	49.76
MW22	74-89	03/14/12	71.24	150.82	79.58
		10/01/12	74.92	150.82	75.90
		02/28/13	79.55	150.82	71.27
		08/22/13	83.04	150.82	67.78
		10/31/14	88.61	150.82	62.21
MW23A	35-55	03/23/12	34.04	148.76	114.72
		09/27/12	35.36	148.76	113.40
		03/05/13	37.83	148.76	110.93
		08/19/13	39.70	148.76	109.06
		10/14/14	46.10	148.76	102.66
MW23B	87-91	03/23/12	35.39	149.06	113.67
		09/26/12	36.97	149.06	112.09
		03/05/13	39.29	149.06	109.77
		08/19/13	41.48	149.06	107.58
		10/14/14	49.05	149.06	100.01
MW23C	145-160	03/23/12	38.89	149.07	110.18
		09/26/12	41.60	149.07	107.47
		03/05/13	43.58	149.07	105.49
		08/19/13	47.75	149.07	101.32
		10/14/14	56.00	149.07	93.07
MW23D	175-180	03/23/12	39.68	148.04	108.36
		09/26/12	42.50	148.04	105.54
		03/05/13	44.45	148.04	103.59
		08/19/13	47.70	148.04	100.34
		10/14/14	56.78	148.04	91.26
MW24A	50-70	03/22/12	44.18	162.04	117.86
		09/28/12	44.35	162.04	117.69
		03/01/13	48.25	162.04	113.79
		08/13/13	47.82	162.04	114.22
		10/22/14	54.21	162.04	107.83
MW24B	110-125	03/22/12	47.90	162.03	114.13
		09/28/12	51.02	162.03	111.01
		03/01/13	52.13	162.03	109.90
		08/13/13	57.48	162.03	104.55
		10/22/14	63.65	162.03	98.38
MW24C	140-160	03/22/12	48.24	162.02	113.78
		09/28/12	51.88	162.02	110.14
		03/01/13	52.34	162.02	109.68
		08/13/13	55.79	162.02	106.23
		10/22/14	63.88	162.02	98.14
MW24D	173-178	03/22/12	48.60	162.05	113.45
		09/28/12	51.35	162.05	110.70
		03/01/13	52.87	162.05	109.18
		08/13/13	56.42	162.05	105.63
		10/22/14	64.69	162.05	97.36
MW25A	45-65	03/16/12	45.15	147.90	102.75
		10/04/12	47.14	147.90	100.76
		03/12/13	49.86	147.90	98.04
		08/21/13	52.61	147.90	95.29
		10/21/14	61.63	147.90	86.27
MW25B	90-110	03/16/12	45.30	147.84	102.54
		10/04/12	47.77	147.84	100.07
		03/12/13	50.18	147.84	97.66
		08/21/13	53.21	147.84	94.63
		10/21/14	62.40	147.84	85.44

TABLE 3-1

Groundwater Elevations for 2012, 2013, and 2014

Omega Chemical Superfund Site

Well ID	Screen Interval (feet bgs)	Date	Depth to Water (feet)	Measuring Point Elevation (feet)	Water Level Elevation (feet)
MW25C	140-150	03/16/12	48.00	147.86	99.86
		10/04/12	52.31	147.86	95.55
		03/11/13	53.05	147.86	94.81
		08/21/13	58.00	147.86	89.86
		10/21/14	66.76	147.86	81.10
MW25D	194-209	03/16/12	64.55	147.87	83.32
		10/04/12	80.08	147.87	67.79
		03/11/13	68.38	147.87	79.49
		08/21/13	88.71	147.87	59.16
		10/21/14	91.33	147.87	56.54
MW26A	70-90	03/13/12	76.08	155.62	79.54
		10/02/12	77.64	155.62	77.98
		03/29/13	81.70	155.62	73.92
		08/23/13	84.10	155.62	71.52
		10/16/14	89.54	155.62	66.08
MW26B	105-120	03/13/12	76.11	155.45	79.34
		10/02/12	77.68	155.45	77.77
		03/29/13	81.78	155.45	73.67
		08/23/13	84.18	155.45	71.27
		10/16/14	93.60	155.45	61.85
MW26C	145-160	03/13/12	83.92	155.41	71.49
		10/02/12	91.57	155.41	63.84
		03/29/13	90.35	155.41	65.06
		08/23/13	100.50	155.41	54.91
		10/16/14	108.29	155.41	47.12
MW26D	185-205	03/12/12	83.15	155.37	72.22
		10/02/12	93.31	155.37	62.06
		03/29/13	90.29	155.37	65.08
		08/23/13	102.94	155.37	52.43
		10/16/14	110.90	155.37	44.47
MW27A	90-110	03/14/12	86.12	139.24	53.12
		10/03/12	86.52	139.24	52.72
		03/04/13	88.82	139.24	50.42
		08/26/13	91.90	139.24	47.34
		10/28/14	102.55	139.24	36.69
MW27B	144-164	03/14/12	85.90	139.18	53.28
		10/03/12	86.45	139.18	52.73
		03/04/13	88.72	139.18	50.46
		08/26/13	91.80	139.18	47.38
		10/28/14	102.50	139.18	36.68
MW27C	180-190	03/14/12	92.45	139.17	46.72
		10/03/12	98.90	139.17	40.27
		03/04/13	96.68	139.17	42.49
		08/26/13	104.11	139.17	35.06
		10/28/14	112.55	139.17	26.62
MW27D	200-210	03/14/12	95.23	139.13	43.90
		10/03/12	105.15	139.13	33.98
		03/04/13	102.30	139.13	36.83
		08/26/13	112.99	139.13	26.14
		10/28/14	23.73	139.13	115.40
MW28	85-105	03/19/12	82.26	119.91	37.65
		10/01/12	84.45	119.91	35.46
		02/28/13	85.90	119.91	34.01
		08/27/13	89.73	119.91	30.18
		10/24/14	98.95	119.91	20.96
MW29	90-110	03/22/12	86.35	107.10	20.75
		10/08/12	22.52	107.10	84.58
		02/28/13	87.53	107.10	19.57
		08/29/13	90.05	107.10	17.05
		10/31/14	96.95	107.10	10.15

TABLE 3-1

Groundwater Elevations for 2012, 2013, and 2014

Omega Chemical Superfund Site

Well ID	Screen Interval (feet bgs)	Date	Depth to Water (feet)	Measuring Point Elevation (feet)	Water Level Elevation (feet)
MW30	95-115	03/19/12	94.63	106.70	12.07
		10/01/12	98.25	106.70	8.45
		02/28/13	97.08	106.70	9.62
		08/29/13	101.93	106.70	4.77
		10/31/14	101.31	106.70	5.39
MW31	105.5-120.5	10/03/12	99.33	232.67	133.34
		03/01/13	99.99	232.67	132.68
		08/16/13	101.19	232.67	131.48
		10/22/14	104.85	232.67	127.82
MW32	163-178	03/13/13	92.98	116.78	23.80
		08/27/13	96.45	116.78	20.33
		10/28/14	105.16	116.78	11.62
Minimum			22.52	106.70	4.77
Maximum			118.00	232.67	140.32

Note:

feet bgs = feet below ground surface

TABLE 3-2

Vertical Groundwater Gradients for 2012, 2013, and 2014

Omega Chemical Superfund Site

	Screen Location		Water Level Elevation					Vertical Gradient					
Well ID	Top Screen	Bottom Screen	1st Quarter 2012	3rd Quarter 2012	1st Quarter 2013	3rd Quarter 2013	4th Quarter 2014	Adjacent Screens	1st Quarter 2012	3rd Quarter 2012	1st Quarter 2013	3rd Quarter 2013	4th Quarter 2014
MW1A	112.81	97.81	117.85	116.84	114.50	112.96	105.66	MW1A-MW1B	-0.017	-0.011	-0.017	-0.016	-0.017
MW1B	83.10	72.70	118.31	117.14	114.97	113.41	106.06						
MW4A	104.32	94.02	115.45	114.64	112.54	110.70	105.00	MW4A-MW4B	-0.004	0.035	-0.001	-0.024	0.000
MW4B	77.30	67.00	115.55	113.69	112.57	111.34	105.01	MW4B-MW4C	0.088	0.064	n/a	0.164	0.225
MW4C	58.69	48.39	113.91	112.50	nm	108.28	100.83						
MW8A	120.44	105.44	115.66	113.99	111.54	109.71	90.94	MW8A-MW8B	0.001	-0.002	-0.001	0.004	-0.552
MW8B	85.33	75.33	115.64	114.06	111.56	109.61	100.80	MW8B-MW8C	0.058	0.067	0.065	0.075	-0.096
MW8C	63.63	58.63	114.53	112.78	110.31	108.17	102.64	MW8C-MW8D	0.200	0.270	0.245	0.296	-0.099
MW8D	40.09	30.09	109.33	105.74	103.93	100.46	105.22						
MW9A	123.88	113.88	115.95	114.01	114.33	n/a	114.27	MW9A-MW9B	0.238	0.330	0.436	n/a	0.922
MW9B	99.26	89.06	111.01	107.49	105.64	102.50	95.91						
MW13A	150.33	83.33	138.17	140.32	138.06	135.44	135.80	MW13A-MW13B	0.331	0.409	0.396	0.417	0.556
MW13B	140.33	73.33	118.02	114.99	113.97	110.63	102.58						
MW16A	108.47	93.47	99.12	96.29	92.83	n/a	92.45	MW16A-MW16B	0.021	0.032	0.024	n/a	0.285
MW16B	47.47	37.47	97.99	94.63	91.60	88.23	78.06	MW16B-MW16C	0.049	0.077	0.054	0.069	0.065
MW16C	4.47	-10.53	95.77	91.11	89.15	85.11	75.11						
MW17A	103.40	88.40	n/a	n/a	n/a	n/a	83.67	MW17A-MW17B	n/a	n/a	n/a	n/a	0.633
MW17B	65.40	55.40	86.76	84.32	80.53	77.40	67.44	MW17B-MW17C	0.108	0.224	0.109	0.245	0.195
MW17C	-12.60	-22.60	78.31	66.88	71.99	58.31	52.26						
MW18A	88.32	73.32	110.03	109.08	107.43	105.24	98.51	MW18A-MW18B	-0.004	-0.005	-0.005	-0.004	-0.007
MW18B	54.32	44.32	110.15	109.23	107.58	105.37	98.72	MW18B-MW18C	0.030	0.057	0.042	0.059	0.002
MW18C	-1.68	-16.68	108.37	105.88	105.14	101.91	98.61						
MW20A	67.07	52.07	65.70	63.81	59.82	56.74	52.01	MW20A-MW20B	0.011	0.014	0.013	0.021	0.225
MW20B	20.07	10.07	65.23	63.20	59.29	55.90	43.68	MW20B-MW20C	0.209	0.366	0.240	0.371	0.351
MW20C	-37.93	-47.93	53.13	41.99	45.36	34.36	23.35						
MW23A	114.07	94.07	114.72	113.40	110.93	109.06	102.66	MW23A-MW23B	0.024	0.030	0.027	0.035	0.069
MW23B	67.36	52.36	113.67	112.09	109.77	107.58	100.01	MW23B-MW23C	0.055	0.073	0.068	0.099	0.110
MW23C	4.36	-10.64	110.18	107.47	105.49	101.32	93.07	MW23C-MW23D	0.066	0.070	0.069	0.036	0.066
MW23D	-25.64	-35.64	108.36	105.54	103.59	100.34	91.26						
MW24A	112.44	92.44	117.86	117.69	113.79	114.22	107.83	MW24A-MW24B	0.065	0.116	0.068	0.168	0.171
MW24B	52.44	37.44	114.13	111.01	109.90	104.55	98.38	MW24B-MW24C	0.011	0.027	0.007	-0.052	0.007
MW24C	22.44	2.44	113.78	110.14	109.68	106.23	98.14	MW24C-MW24D	0.013	-0.022	0.020	0.024	0.031
MW24D	-10.56	-15.56	113.45	110.70	109.18	105.63	97.36						
MW25A	103.25	83.25	102.75	100.76	98.04	95.29	86.27	MW25A-MW25B	0.005	0.016	0.009	0.016	0.023
MW25B	58.25	38.25	102.54	100.07	97.66	94.63	85.44	MW25B-MW25C	0.060	0.100	0.063	0.106	0.096
MW25C	8.25	-1.75	99.86	95.55	94.81	89.86	81.10	MW25C-MW25D	0.293	0.491	0.271	0.543	0.435
MW25D	-45.75	-60.75	83.32	67.79	79.49	59.16	56.54						

TABLE 3-2

Vertical Groundwater Gradients for 2012, 2013, and 2014

Omega Chemical Superfund Site

	Screen Location		Water Level Elevation					Vertical Gradient					
Well ID	**Top Screen**	**Bottom Screen**	**1st Quarter 2012**	**3rd Quarter 2012**	**1st Quarter 2013**	**3rd Quarter 2013**	**4th Quarter 2014**	**Adjacent Screens**	**1st Quarter 2012**	**3rd Quarter 2012**	**1st Quarter 2013**	**3rd Quarter 2013**	**4th Quarter 2014**
MW26A	85.98	65.98	79.54	77.98	73.92	71.52	66.08	MW26A-MW26B	0.007	0.007	0.009	0.010	0.188
MW26B	50.98	35.98	79.34	77.77	73.67	71.27	61.85	MW26B-MW26C	0.196	0.348	0.215	0.409	0.368
MW26C	10.98	-4.02	71.49	63.84	65.06	54.91	47.12	MW26C-MW26D	-0.017	0.042	0.000	0.058	0.062
MW26D	-29.02	-49.02	72.22	62.06	65.08	52.43	44.47						
MW27A	49.47	29.47	53.12	52.72	50.42	47.34	36.69	MW27A-MW27B	-0.003	0.000	-0.001	-0.001	0.000
MW27B	-4.53	-24.53	53.28	52.73	50.46	47.38	36.68	MW27B-MW27C	0.212	0.402	0.257	0.397	0.325
MW27C	-40.53	-50.53	46.72	40.27	42.49	35.06	26.62	MW27C-MW27D	0.141	0.315	0.283	0.446	n/a
MW27D	-60.53	-70.53	43.90	33.98	36.83	26.14	n/a						
OW1A	146.99	132.49	131.21	132.11	132.15	132.79	n/a	OW1A-OW1B	0.130	0.194	0.223	0.290	n/a
OW1B	97.37	87.37	126.06	124.36	123.24	121.12	n/a						
OW3A	136.08	116.08	119.43	121.00	120.70	120.78	n/a	OW3A-OW3B	0.063	0.180	0.205	0.287	n/a
OW3B	85.77	75.77	117.11	114.22	112.97	109.96	n/a						
OW4A	135.13	115.13	119.61	120.16	118.65	117.65	n/a	OW4A-OW4B	0.062	0.071	0.127	0.168	n/a
OW4B	72.95	62.65	116.56	116.62	112.40	109.51	n/a						
								Average	0.082	0.133	0.110	0.152	0.155

Note:

Monitoring well OW8A is dry; therefore, the OW8 well screen pair is not included.

TABLE 3-3

Chlorinated VOC, 1,4-Dioxane, and Chromium Concentrations for 2012, 2013, and 2014

Omega Chemical Superfund Site

				PCE		TCE		1,1-DCE		cis-1,2-DCE		1,1-DCA		1,2-DCA		Freon 113		Freon 11		Chloroform		1,4-Dioxane		Cr+6		Cr	
Location	**Event**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
EPA Samples																											
MW1A	2012_1Q	03/21/12	N	**1,600**		**420**		**280**	**J**	**88**	**J**	**3.2**	**J**	**12**		**210**		**84**		**82**		**70**		--		--	
	2012_3Q	10/05/12	N	**400**		**300**		**49**		**11**		**0.55**		**1.8**		**52**	**J**	**20**		**12**		**12**		--		--	
	2013_3Q	08/14/13	N	**390**		**390**		**55**	**J**	**40**	**J**	**0.63**	**J**	2.5	U	**63**		**23**		**14**		**10**		**16.6**		--	
	2014_4Q	10/24/14	N	**570**		**820**		**120**	**J**	**380**	**J**	**1.4**	**J**	5	U	**140**		**49**		**31**	**J**	**19**		**11.7**	**J+**	**9.8**	
MW1B	2012_1Q	03/21/12	N	**1,200**		**350**		**190**	**J**	**19**	**J**	**2.7**	**J**	**10**		**160**		**66**		**73**		**56**		--		--	
	2012_3Q	10/05/12	N	**1,600**		**460**		**280**	**J**	**28**	**J**	**2.7**	**J**	**8.9**		**120**	**J**	80	UJ	**73**	**J**	**57**		--		--	
	2013_3Q	08/14/13	N	**1,400**		**410**		**210**	**J**	**50**	**J**	**2.9**	**J**	**9.2**	**J**	**200**		**70**		**67**		**57**		**31.2**		--	
	2014_4Q	10/24/14	N	**560**		**530**		**100**	**J**	**130**	**J**	5	U	5	U	**93**		**34**		**27**	**J**	**19**		**26.3**	**J+**	**23**	
MW2	2012_1Q	10/05/12	N	**440**		**150**		**95**	**J**	**15**	**J**	**0.82**		**3**		**69**	**J**	**37**	**J**	**30**		**17**		--		--	
	2013_3Q	08/26/13	N	**140**		**38**		**47**	**J**	**3.8**	**J**	**0.28**	**J**	**1.2**		**62**		**25**		**11**		**5**		**5.06**		--	
	2014_4Q	10/22/14	N	**110**		**20**		**46**	**J**	4.2	U	4.2	U	4.2	U	**52**		**22**		**7.2**		**1.9**		**6.01**	**J+**	**8.3**	
MW3	2012_1Q	03/21/12	N	**0.88**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ	0.5	UJ	0.5	UJ	0.5	U	**0.93**		--		--	
	2012_3Q	09/27/12	N	**0.86**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ	--		--	
	2013_3Q	08/15/13	N	**0.9**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.16**	**J**	0.5	U	0.5	U	**0.13**	J	**4.07**		--	
	2014_4Q	10/15/14	N	**1.1**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**3**		0.5	U	0.5	U	0.5	U	**7.18**	**J-**	**6**	
MW4A	2012_1Q	03/19/12	N	**63**		**5.7**		**12**	**J**	0.5	U	0.5	U	0.5	U	**25**		**6.3**		**1.7**		**1.2**		--		--	
	2012_3Q	09/26/12	N	**77**		**12**		**18**		**0.2**	**J**	0.5	U	**1.4**		**27**		**11**		**2.9**		**1.1**		--		--	
	2013_3Q	08/15/13	N	**53**		**3.3**		**4.9**		0.5	U	0.5	U	**0.38**	**J**	**11**		**4.1**		**1.2**		**0.25**	J	**5.93**	**J**	--	
	2014_4Q	10/15/14	N	**18**		**1.5**	**J**	2.5	U	2.5	U	2.5	U	2.5	U	**5.1**		**43**		2.5	U	**0.21**	J	**7.75**	**J-**	**6.7**	
	2014_4Q	10/15/14	FD	**20**		**1.6**	**J**	2.5	U	2.5	U	2.5	U	2.5	U	**5.3**		**48**		2.5	U	**0.24**	J	**7.85**	**J-**	**6.5**	
MW4B	2012_1Q	03/19/12	N	**46**		**9.5**		**17**	**J**	0.5	U	0.5	U	**1.4**		**21**		**9.9**		**2.6**		**0.38**	J	--		--	
	2012_3Q	09/25/12	N	**88**		**13**		**35**		**0.22**	**J**	0.5	U	**1.3**		**52**		**18**		**5.6**		**1.7**		--		--	
	2013_3Q	08/15/13	N	**66**		**8.4**		**17**	**J**	**0.13**	**J**	0.5	U	**0.61**		**28**		**9.6**		**2.7**		**0.75**		**6.01**		--	
	2013_3Q	08/15/13	FD	**62**		**8.7**		**17**	**J**	**0.15**	**J**	0.5	U	**0.6**		**25**		**9.4**		**2.7**		**0.71**		**6.39**		--	
	2014_4Q	10/15/14	N	**51**		**4.5**		**11**		2.5	U	2.5	U	2.5	U	**21**		**6.5**		2.5	U	**0.39**	J	**7.3**	**J-**	**6.2**	
MW4C	2012_1Q	03/19/12	N	**350**		**290**		**130**		**8.9**		**0.82**	**J**	**4.9**		**220**		**61**		**41**		**9.6**		--		--	
	2012_3Q	09/25/12	N	**450**		**330**		**140**		**15**		**1.1**	**J**	**6.5**		**240**		**66**		**48**	**J**	**22**		--		--	
	2013_3Q	08/15/13	N	**430**		**320**		**120**	**J**	**13**	**J**	**1**	**J**	**5.3**		**210**		**63**		**40**		**8.7**		**38**		--	
	2014_4Q	10/15/14	N	**860**		**380**		**290**	**J**	**16**	**J**	**1.7**	**J**	**11**		**380**		**130**		**82**	**J**	**32**		**42.7**	**J-**	**35**	
MW5	2012_1Q	03/19/12	N	**210**		**150**		**86**		**6.3**		**0.51**	**J**	**2.2**		**100**		**37**		**17**		**10**		--		--	
	2012_3Q	09/26/12	N	**370**		**250**		**120**	**J**	**20**	**J**	**1.1**		**3.3**		**120**		**44**		**29**		**17**		--		--	
	2013_3Q	08/15/13	N	**150**		**130**		**68**	**J**	**5.7**	**J**	**0.37**	**J**	**1.6**		**89**		**38**		**12**		**4.5**		**6.47**		--	
	2014_4Q	10/15/14	N	**190**		**120**		**140**	**J**	**2.6**	**J**	4.2	U	**2.5**	**J**	**160**		**64**		4.2	U	**5.5**		**8.39**	**J-**	**14**	
MW6	2012_1Q	03/21/12	N	**290**		**120**		**71**	**J**	**8.7**	**J**	**0.82**	**J**	**3.2**		**58**		**24**		**19**		**20**		--		--	
	2012_3Q	10/03/12	N	**210**		**65**	**J**	**37**		**4.7**		**0.76**		**1.9**	**J**	**20**	**J**	**9.1**	**J**	**11**		**53**		--		--	
	2013_3Q	08/16/13	N	**240**		**66**		**48**	**J**	**4.5**	**J**	**1.1**		**2.2**		**35**		**15**		**13**		**90**		**263**	**J**	--	

TABLE 3-3

Chlorinated VOC, 1,4-Dioxane, and Chromium Concentrations for 2012, 2013, and 2014

Omega Chemical Superfund Site

				PCE		TCE		1,1-DCE		cis-1,2-DCE		1,1-DCA		1,2-DCA		Freon 113		Freon 11		Chloroform		1,4-Dioxane		Cr+6		Cr	
Location	**Event**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
MW7	2012_1Q	03/16/12	N	**1.5**		**0.62**		0.5	U	0.5	U	0.5	U	0.5	U	**0.49**	**J**	0.5	U	**0.35**	**J**	**0.44**	J	--		--	
	2012_3Q	09/27/12	N	**1.9**		**0.73**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.53**		0.5	U	--		--	
	2013_3Q	08/14/13	N	**3.4**		**1.3**		**0.81**		0.5	U	0.5	U	0.5	U	**0.62**		0.5	U	**0.72**		**0.21**	J	**0.596**		--	
	2014_4Q	10/15/14	N	**1.5**		**0.96**		0.5	U	0.5	U	0.5	U	0.5	U	**0.27**	**J**	0.5	U	**0.72**		**0.15**	J	**4.06**	**J-**	**3.9**	
MW8A	2012_1Q	03/20/12	N	**19**		**4.2**		**1.7**		**0.3**	**J**	0.5	U	0.5	U	**0.67**		**0.34**	**J**	**0.79**		**0.26**	J	--		--	
	2012_3Q	09/27/12	N	**37**		**8.2**		**2.4**		**0.53**		0.5	U	0.5	U	**0.67**		**0.32**	**J**	**1.7**		**0.83**		--		--	
	2013_3Q	08/20/13	N	**340**		**110**		**78**	**J**	**8.9**	**J**	**0.69**	**J**	**3.1**		**70**		**31**		**21**		**14**		**62.1**		--	
MW8B	2012_1Q	03/20/12	N	**330**		**120**		**110**		**5.4**		**0.71**	**J**	**3.7**		**120**		**36**		**25**		**13**		--		--	
	2012_3Q	09/27/12	N	**300**		**110**		**88**	**J**	**5.6**	**J**	**0.68**		**3.7**		**97**		**28**		**28**		**21**		--		--	
	2013_3Q	08/20/13	N	**170**		**80**		**39**	**J**	**4.1**	**J**	**0.35**	**J**	**1.6**		**52**		**16**		**11**		**9.5**		**35.3**		--	
	2014_4Q	10/17/14	N	**470**		**190**		**150**	**J**	**13**	**J**	**1.1**	**J**	**5.3**		**140**		**52**		**37**		**21**		**63.7**	**J+**	**49**	
MW8C	2012_1Q	03/20/12	N	**570**		**230**		**250**		**9.9**		**1.4**	**J**	**8.3**		**260**		**92**		**58**		**24**		--		--	
	2012_3Q	09/27/12	N	**370**		**120**		**120**	**J**	**8.1**	**J**	**0.82**	**J**	**4.9**		**100**		**34**		**34**	**J**	**24**		--		--	
	2013_3Q	08/20/13	N	**210**		**73**		**52**	**J**	**4.1**	**J**	**0.44**	**J**	**2**		**62**		**20**		**14**		**11**		**42.6**		--	
	2014_4Q	10/17/14	N	**330**		**140**		**110**	**J**	**8.8**	**J**	5	U	**3.7**	**J**	**100**		**38**		**26**		**17**		**72.1**	**J+**	**53**	
MW8D	2012_1Q	03/20/12	N	**4.1**		**49**		**1.2**		**0.24**	**J**	0.5	U	0.5	U	**1.8**		**0.83**		**0.83**		**0.076**	J	--		--	
	2012_1Q	03/20/12	FD	**3.7**		**53**		**1.2**		**0.23**	**J**	0.5	U	0.5	U	**1.8**		**0.79**		**0.73**		**0.079**	J	--		--	
	2012_3Q	09/27/12	N	**4.3**		**56**		**1.1**		**0.29**	**J**	0.5	U	0.5	U	**2.1**		**0.92**		**0.83**		0.5	U	--		--	
	2013_3Q	08/20/13	N	**8.4**		**66**		**3**		**0.5**	**J**	0.5	U	0.5	U	**6**		**2.6**		**1.2**		**0.17**	J	**3.91**		--	
	2014_4Q	10/17/14	N	**15**		**83**		**9.5**	**J**	**0.74**	**J**	2.5	U	2.5	U	**17**		**7**		**6.9**		**0.52**		**6.29**	**J+**	**5.2**	
MW9A	2012_1Q	03/20/12	N	**2,100**		**170**		10	U	**8.2**	**J**	10	U	10	U	10	U	10	U	10	U	**0.24**	J	--		--	
MW9B	2012_1Q	03/20/12	N	**65**		**9.7**		**1.4**		**2.7**		0.5	U	0.5	U	**0.31**	**J**	0.5	U	0.5	U	**0.25**	J	--		--	
	2012_3Q	10/08/12	N	**140**		**22**		**1.8**		**5.8**		0.5	U	0.5	U	**0.57**		0.5	U	**0.39**	**J**	0.5	U	--		--	
	2013_3Q	08/29/13	N	**330**		**48**		**3.2**		**13**		2.5	U	**1.2**	**J**	2.5	U	2.5	U	2.5	U	**0.43**	J	**11.2**		--	
	2014_4Q	10/21/14	N	**290**		**41**		5	U	**12**		5	U	5	U	5	U	5	U	**0.86**	**J**	**0.63**		**12.2**	**J-**	**11**	
MW10	2012_1Q	03/16/12	N	**16**		**7.6**		**0.53**		**0.38**	**J**	0.5	U	0.5	U	**0.85**		**0.31**	**J**	**0.37**	**J**	**0.26**	J	--		--	
	2012_3Q	10/11/12	N	**32**		**15**		**1.2**	**J**	**0.68**	**J**	0.5	U	0.5	U	**2.4**		**1.4**		**0.58**		0.5	U	--		--	
	2013_3Q	08/21/13	N	**74**		**25**		**0.98**		**0.88**		0.5	U	0.5	U	**1.2**		**0.78**		**0.54**		**0.35**	J	**5.02**		--	
	2014_4Q	10/21/14	N	**63**		**13**		2.5	U	**0.68**	**J**	2.5	U	2.5	U	2.5	U	**0.75**	**J**	2.5	U	**0.26**	J	**6.32**	**J-**	**5.4**	
MW11	2012_1Q	03/21/12	N	**42**		**1.5**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.062**	J	--		--	
	2012_3Q	10/01/12	N	**24**		**0.69**		0.5	U	0.5	U	0.5	U	0.5	UJ	0.5	UJ	0.5	UJ	0.5	U	0.5	U	--		--	
	2013_3Q	08/30/13	N	**18**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**5.29**		--	
MW12	2012_3Q	10/09/12	N	**18**		**250**	**J**	**11**		**6.9**		0.5	U	0.5	U	0.5	U	0.5	U	**0.36**	**J**	0.5	U	--		--	
	2013_3Q	08/30/13	N	**8.6**		**380**		**11**		**3.2**		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.5	U	**3.26**	**J**	--	
	2014_4Q	10/22/14	N	**4.8**	**J**	**470**		**17**		**11**		5	U	5	U	5	U	5	U	5	U	**0.2**	J	**1.74**	**J+**	**3.1**	
MW13A	2012_1Q	03/23/12	N	**320**		**460**		**270**	**J**	**1.6**	**J**	2.5	U	2.5	U	**53**		**34**		2.5	U	**0.092**	J	--		--	
	2012_3Q	09/28/12	N	**420**		**670**		**270**	**J**	0.5	U	0.5	U	0.5	U	50	U	50	U	**0.68**		0.5	U	--		--	

TABLE 3-3

Chlorinated VOC, 1,4-Dioxane, and Chromium Concentrations for 2012, 2013, and 2014

Omega Chemical Superfund Site

				PCE		TCE		1,1-DCE		cis-1,2-DCE		1,1-DCA		1,2-DCA		Freon 113		Freon 11		Chloroform		1,4-Dioxane		Cr+6		Cr	
Location	**Event**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
MW13B	2012_1Q	03/23/12	N	**4.1**		0.5	U	0.5	U	0.5	U	0.5	U	**0.47**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	--		--	
	2012_3Q	09/28/12	N	**4.5**		**0.4**	**J**	0.5	U	0.5	U	0.5	U	**0.68**		0.5	U	0.5	U	0.5	U	0.5	U	--		--	
	2013_3Q	08/16/13	N	**5**		**0.34**	**J**	0.5	U	0.5	U	0.5	U	**0.58**		0.5	U	0.5	U	**0.25**	**J**	**0.08**	J	**3.82**		--	
	2014_4Q	10/28/14	N	**3.6**		**0.24**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.18**	**J**	0.5	U	**4.5**	**J+**	**3.3**	
MW14	2012_1Q	03/21/12	N	**160**		**24**		**78**	**J**	**0.6**	**J**	**0.49**	**J**	**2.6**		**72**		**36**		**26**		**8.6**		--		--	
	2012_3Q	09/28/12	N	**67**		**11**		**19**		**0.65**		0.5	U	**0.56**		**32**		**11**		**4**		**1.1**		--		--	
	2012_3Q	09/28/12	FD	**80**		**12**		**24**		**0.75**		0.5	U	**0.54**		**39**		**11**		**4.4**		**0.98**		--		--	
	2013_3Q	08/14/13	N	**72**		**9.7**		**21**	**J**	**0.51**	**J**	0.5	U	**0.43**	**J**	**30**		**13**		**4.5**		**0.86**		**6.08**	**J**	--	
	2014_4Q	10/24/14	N	**81**		**7.1**		**14**		**0.75**	**J**	4.2	U	4.2	U	**23**		**8.6**		**3.6**	**J**	**1.4**		**7.45**	**J+**	**6.2**	
	2014_4Q	10/24/14	FD	**78**		**6.8**		**14**		4.2	U	4.2	U	4.2	U	**22**		**8.6**		4.2	U	**1.3**		**7.18**	**J+**	**6.1**	
MW15	2012_1Q	03/19/12	N	**150**		**25**		**88**		**0.33**	**J**	1	U	**2**		**110**		**45**		**14**		**3.2**		--		--	
	2012_3Q	09/26/12	N	**200**		**34**		**80**	**J**	**0.48**	**J**	**0.29**	**J**	**2.7**		**140**		**47**		**15**		**3.7**		--		--	
	2013_3Q	08/14/13	N	**120**		**20**		**57**	**J**	**0.35**	**J**	**0.22**	**J**	**2.6**		**71**		**29**		**10**		**2.1**		**5.32**	**J**	--	
	2014_4Q	10/15/14	N	**78**		**8.4**		**23**	**J**	2.5	U	2.5	U	**1.5**	**J**	**41**		**13**		2.5	U	**0.84**		**6.09**	**J-**	**5.4**	
MW16A	2012_1Q	03/15/12	N	**74**		**26**		**45**	**J**	**23**	**J**	**12**		0.5	U	**1.2**		**1.7**		**4.8**		**7.9**		--		--	
	2012_3Q	10/08/12	N	**26**		**8.3**		**20**		**9.7**		**4.7**		0.5	U	**0.72**		**1.1**		**3.9**		**4.6**		--		--	
	2014_4Q	10/17/14	N	**3.6**		**3.5**		**12**	**J**	**4**	**J**	**4.6**	**J**	0.5	U	0.5	U	**0.14**	**J**	**8.9**	**J**	**0.62**		**4.91**	**J+**	**14**	
MW16B	2012_1Q	03/15/12	N	**29**		**49**		**16**	**J**	**0.78**	**J**	0.5	U	0.5	U	**28**		**10**		**1.9**		**0.51**	J	--		--	
	2012_1Q	03/15/12	FD	**28**		**47**		**16**	**J**	**0.71**	**J**	0.5	U	0.5	U	**26**		**10**		**1.8**		**0.48**	J	--		--	
	2012_3Q	10/08/12	N	**73**		**100**		**42**		**1.9**		0.5	U	0.5	U	**48**	**J**	**20**	**J**	**5.6**		**1.5**		--		--	
	2012_3Q	10/08/12	FD	**71**		**100**		**39**		**2**		**0.21**	**J**	**0.5**	**J**	**43**	**J**	**22**	**J**	**5.8**		**1.7**		--		--	
	2013_3Q	08/27/13	N	**76**		**96**		**44**		**1.9**	**J**	**0.17**	**J**	0.5	U	**72**		**30**		**4.8**		**1.4**		**10.3**	**J**	--	
	2014_4Q	10/17/14	N	**81**		**61**		**42**	**J**	**2.8**	**J**	**1.2**	**J**	4.2	U	**53**		**22**		**6.5**		**2.5**		**10.3**	**J+**	**7.9**	
MW16C	2012_1Q	03/15/12	N	**0.35**	**J**	**0.62**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.67	U	--		--	
	2012_3Q	10/04/12	N	**0.34**	**J**	**1**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	--		--	
	2013_3Q	08/27/13	N	0.5	U	**1.5**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**2.61**		--	
	2014_4Q	10/17/14	N	**0.42**	**J**	**0.9**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.46	U	**3.13**	**J+**	**9.8**	
MW17B	2012_1Q	03/20/12	N	**190**		**150**		**93**		**6.2**		**1.5**		**1.3**		**100**		**40**		**12**		**3.3**		--		--	
	2012_3Q	10/09/12	N	**190**		**250**	**J**	**110**	**J**	**8.2**	**J**	**2.5**		**1.5**		**95**	**J**	**45**	**J**	**16**		**4.8**		--		--	
	2013_3Q	08/28/13	N	**270**		**160**		**120**	**J**	**77**	**J**	**8.8**		**1.9**		**130**		**53**		**15**		**10**		**19.3**		--	
	2014_4Q	10/16/14	N	**480**		**190**		**260**	**J**	**74**	**J**	**33**		**5.4**		**100**		**48**		**40**		**30**		**17.7**	**J-**	**14**	
	2014_4Q	10/16/14	FD	**520**		**190**		**300**	**J**	**79**	**J**	**35**		**5.9**		**110**		**51**		**44**		**31**		**18.1**	**J-**	**14**	
MW17C	2012_1Q	03/20/12	N	**1.4**		**8.6**		0.5	U	0.5	U	0.5	U	0.5	U	**0.21**	**J**	0.5	U	0.5	U	0.5	U	--		--	
	2012_3Q	10/09/12	N	**1.5**		**8.5**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	--		--	
	2012_3Q	10/09/12	FD	**1.5**		**8.4**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	--		--	
	2013_3Q	08/28/13	N	**1.3**		**6.6**		**0.16**	**J**	0.5	U	0.5	U	0.5	U	**0.26**	**J**	**0.12**	**J**	0.5	U	0.5	U	**7.04**		--	
	2014_4Q	10/16/14	N	**2.3**		**9.8**		0.5	U	**0.15**	**J**	0.5	U	0.5	U	**1.3**		**0.71**		0.5	U	0.49	U	**7.64**	**J-**	**6.7**	

TABLE 3-3

Chlorinated VOC, 1,4-Dioxane, and Chromium Concentrations for 2012, 2013, and 2014

Omega Chemical Superfund Site

				PCE		TCE		1,1-DCE		cis-1,2-DCE		1,1-DCA		1,2-DCA		Freon 113		Freon 11		Chloroform		1,4-Dioxane		Cr+6		Cr	
Location	**Event**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
MW18A	2012_1Q	03/13/12	N	**2.3**		**0.27**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	**0.29**	**J**	0.5	U	0.5	U	**0.12**	J	--		--	
	2013_3Q	08/22/13	N	**2.7**		**0.35**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	**0.39**	**J**	0.5	U	**0.27**	**J**	**0.072**	J	**2.21**		--	
	2014_4Q	10/14/14	N	**0.56**		**0.054**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.22**	J	0.5	U	**4.3**	
MW18B	2012_1Q	03/13/12	N	**0.46**	**J**	**0.34**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.57	U	--		--	
	2012_3Q	09/25/12	N	**0.46**	**J**	**0.37**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ	--		--	
	2013_3Q	08/22/13	N	**0.93**		**0.7**		0.5	U	0.5	U	0.5	U	0.5	U	**0.17**	**J**	0.5	U	0.5	U	**0.053**	J	0.25	U	--	
	2014_4Q	10/14/14	N	**0.42**	**J**	**0.39**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.24**	J	**6.51**	**J**	**5.6**	
MW18C	2012_1Q	03/13/12	N	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	--		--	
	2012_3Q	09/25/12	N	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	--		--	
	2013_3Q	08/22/13	N	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.618**		--	
	2014_4Q	10/14/14	N	**0.074**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.49	U	**0.643**		**49**	
MW19	2012_1Q	03/13/12	N	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	--		--		--	
MW20A	2012_1Q	03/15/12	N	**62**		**59**		**26**	**J**	**8.4**	**J**	**3.9**		**0.87**		**34**		**11**		**2.5**		**5.6**		--		--	
	2012_3Q	10/02/12	N	**53**		**50**	**J**	**25**		**13**		**5.5**		0.5	U	**18**		**10**		**3**		**6**		--		--	
	2013_3Q	08/28/13	N	**65**		**57**		**24**		**14**	**J**	**5**		**0.56**		**15**		**8.5**		**7.1**		**7.3**		**14.3**		--	
	2014_4Q	10/31/14	N	**73**		**71**		**52**	**J**	**20**	**J**	**8.8**		**0.87**		**56**		**23**		**6.6**		--		**5.07**	**J-**	**17**	
MW20B	2012_1Q	03/15/12	N	**46**		**47**		**13**	**J**	**4.2**	**J**	**2.3**		0.5	U	**16**		**7**		**1.3**		**4.8**		--		--	
	2012_3Q	10/02/12	N	**41**		**41**	**J**	**8.3**		**3.8**		**1.9**		0.5	U	**8.9**		**4.7**		**1.1**		**4.6**		--		--	
	2013_3Q	08/28/13	N	**49**		**44**		**13**	**J**	**5.4**	**J**	**2.4**		**0.45**	**J**	**15**		**7**		**1.5**		**3.9**		**15.3**		--	
	2014_4Q	10/31/14	N	**30**		**37**		**14**	**J**	**5.5**	**J**	**2**		**0.3**	**J**	**13**		**5.5**		**1.7**		**2.8**		**3.92**	**J-**	**3.3**	
MW20C	2012_1Q	03/15/12	N	**0.71**		**5.3**		**3.2**		**8.7**		**0.34**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	**0.62**	J	--		--	
	2012_3Q	10/02/12	N	**2.7**		**16**	**J**	**9.5**		**12**		**0.92**		0.5	UJ	0.5	UJ	0.5	UJ	0.5	U	**1**		--		--	
	2013_3Q	08/28/13	N	**6.5**		**30**		**21**	**J**	**15**	**J**	**2.1**		**0.41**	**J**	0.5	U	0.5	U	0.5	U	**1.7**		0.25	U	--	
	2014_4Q	10/31/14	N	**2.3**		**30**		**18**	**J**	**17**	**J**	**2.3**		**0.5**		0.5	U	0.5	U	0.5	U	**2.1**		0.5	UJ	1	U
MW21	2012_1Q	03/14/12	N	**2.3**		**1**		**0.33**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	3	U	**2.1**		--		--	
	2012_3Q	10/01/12	N	**1.8**		**0.38**	**J**	**0.31**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**3.4**		**1.9**		--		--	
	2012_3Q	10/01/12	FD	**1.7**		**0.38**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**3.4**		**1.9**		--		--	
	2013_3Q	08/30/13	N	**4.4**		**2.7**		**0.41**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**4.9**		**1.9**		**5.83**		--	
	2014_4Q	10/31/14	N	**1.4**		**0.72**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**1.1**		--		**6.96**	**J-**	**11**	
MW22	2012_1Q	03/14/12	N	**4.6**		**3.4**		**0.36**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.55	U	**1.8**		--		--	
	2012_3Q	10/01/12	N	**3.4**		**2.4**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**1.3**		**1.9**		--		--	
	2013_3Q	08/22/13	N	**1.8**		**1.1**		**0.15**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**1.2**		**0.52**		**3.38**		--	
	2013_3Q	08/22/13	FD	**1.8**		**1.1**		**0.14**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**1.2**		**0.67**		**3.46**		--	
	2014_4Q	10/31/14	N	**8.7**		**5.9**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**1.5**		0.5	UJ	**96**	
MW23A	2012_1Q	03/23/12	N	**260**		**190**		**120**	**J**	**9.5**	**J**	**0.86**	**J**	**3.5**		**150**		**62**		**28**		**14**		--		--	
	2012_3Q	09/27/12	N	**450**		**220**		**180**	**J**	**14**	**J**	**1.2**	**J**	**5.1**		**160**		**61**		**39**	**J**	**25**		--		--	
	2013_3Q	08/19/13	N	**530**		**230**		**150**	**J**	**20**	**J**	**1.3**	**J**	**4.3**		**160**		**62**		**35**		**26**		**8.46**		--	
	2014_4Q	10/14/14	N	**230**		**83**		**140**	**J**	**3**	**J**	5	U	**2.1**	**J**	**170**		**66**		**20**	**J**	**4.9**		**8.85**		**7.9**	

TABLE 3-3

Chlorinated VOC, 1,4-Dioxane, and Chromium Concentrations for 2012, 2013, and 2014

Omega Chemical Superfund Site

				PCE		TCE		1,1-DCE		cis-1,2-DCE		1,1-DCA		1,2-DCA		Freon 113		Freon 11		Chloroform		1,4-Dioxane		Cr+6		Cr	
Location	**Event**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
MW23B	2012_1Q	03/23/12	N	**290**		**120**		**110**	**J**	**5.5**	**J**	**0.91**	**J**	**4.5**		**140**		**56**		**34**		**17**		--		--	
	2012_3Q	09/26/12	N	**450**		**260**		**220**	**J**	**10**	**J**	**1.2**	**J**	**5.3**		**240**		**97**		**52**	**J**	**24**		--		--	
	2013_3Q	08/19/13	N	**490**		**270**		**240**	**J**	**11**	**J**	**1.5**	**J**	**5.6**		**300**		**110**		**55**		**21**		**18.2**		--	
	2013_3Q	08/19/13	FD	**530**		**290**		**260**	**J**	**12**	**J**	**1.7**	**J**	**6.3**		**330**		**130**		**61**		**24**		**16.2**		--	
	2014_4Q	10/14/14	N	**280**		**140**		**130**	**J**	**6.2**	**J**	**0.67**	**J**	**4.1**	**J**	**130**		**49**		5	U	**18**		**25.6**	**J-**	**22**	
MW23C	2012_1Q	03/23/12	N	**260**		**110**		**140**	**J**	**4.6**	**J**	**0.58**	**J**	**2.1**		**190**		**75**		**21**		**7.3**		--		--	
	2012_1Q	03/23/12	FD	**270**		**110**		**150**	**J**	**4.9**	**J**	**0.62**	**J**	**2**		**210**		**88**		**22**		**6.3**		--		--	
	2012_3Q	09/26/12	N	**190**		**75**		**100**	**J**	**4**	**J**	**0.4**	**J**	**1.3**		**110**		**48**		**14**		**5.3**		--		--	
	2013_3Q	08/19/13	N	**150**		**82**		**53**	**J**	**3**	**J**	**0.25**	**J**	**0.79**	**J**	**86**		**32**		**8.8**		**2.9**		**5.62**	**J**	--	
	2014_4Q	10/14/14	N	**210**		**110**		**130**	**J**	**3.7**	**J**	4.2	U	**1.9**	**J**	**160**		**64**		4.2	U	**5.3**		**8.62**	**J-**	**6.8**	
MW23D	2012_1Q	03/23/12	N	**2.1**		**13**		**0.64**		**0.11**	**J**	0.5	U	0.5	U	**2.8**		**0.97**		0.5	U	0.5	U	--		--	
	2012_3Q	09/26/12	N	**3.2**		**15**		**1.6**		0.5	U	0.5	U	0.5	U	**4.2**		**1.4**		**0.35**	**J**	0.5	U	--		--	
	2012_3Q	09/26/12	FD	**3.4**		**15**		**1.7**		0.5	U	0.5	U	0.5	U	**4.2**		**1.3**		**0.34**	**J**	0.5	U	--		--	
	2013_3Q	08/19/13	N	**46**		**73**		**23**	**J**	**1.1**	**J**	0.5	U	0.5	U	**44**		**15**		**3.2**		**0.84**		**7.13**		--	
	2014_4Q	10/14/14	N	**36**		**120**		**23**		**1**	**J**	5	U	5	U	**52**		**19**		5	U	**0.6**		**8.23**	**J-**	**7.2**	
MW24A	2012_1Q	03/22/12	N	**160**		**31**		**62**	**J**	**2.6**	**J**	**0.37**	**J**	**1.9**		**71**		**31**		**16**		**6.9**		--		--	
	2012_3Q	09/28/12	N	**180**		**28**		**79**		**1.4**		**0.36**	**J**	**1.7**		**99**		**39**		**18**		**7.3**		--		--	
	2013_3Q	08/13/13	N	**160**		**23**		**89**	**J**	**0.4**	**J**	**0.33**	**J**	**1.6**		**120**		**53**		**16**		**3.6**		**5.16**	**J**	--	
	2014_4Q	10/22/14	N	**69**		**4.4**		**17**		2.5	U	2.5	U	2.5	U	**22**		**10**		2.5	U	**0.54**		**5.86**	**J+**	**5**	
MW24B	2012_1Q	03/22/12	N	0.5	U	**7**		**0.25**	**J**	0.5	U	0.5	U	0.5	U	**0.32**	**J**	0.5	U	**0.47**	**J**	0.5	U	--		--	
	2012_3Q	09/28/12	N	**1.1**		**6**		**1.3**		0.5	U	0.5	U	0.5	U	**1.8**		**0.63**		**0.46**	**J**	0.5	U	--		--	
	2013_3Q	08/13/13	N	**2.8**		**11**		**3.1**		0.5	U	0.5	U	0.5	U	**4.3**		**1.7**		**0.8**		**0.068**	J	**4.52**		--	
	2014_4Q	10/22/14	N	**28**		**18**		**34**	**J**	2.5	U	2.5	U	2.5	U	**47**		**18**		**3.5**		**0.64**		**4.73**	**J+**	**4.1**	
MW24C	2012_1Q	03/22/12	N	**31**		**6.2**		**32**	**J**	0.5	U	**0.11**	**J**	**0.23**	**J**	**27**		**13**		**5.5**		**1.2**		--		--	
	2012_3Q	09/28/12	N	**14**		**2.3**		**11**		0.5	U	0.5	U	0.5	U	**12**		**4.6**		**2.2**		0.5	U	--		--	
	2013_3Q	08/13/13	N	**10**		**1.6**		**7.7**	**J**	0.5	U	0.5	U	0.5	U	**12**		**5.5**		**1.4**		**0.19**	J	**3.25**		--	
	2014_4Q	10/22/14	N	**8.6**		**2.1**		**12**	**J**	0.65	U	0.65	U	**0.14**	**J**	**22**		**11**		0.65	U	**0.27**	J	**3.68**	**J+**	**4**	
MW24D	2012_1Q	03/22/12	N	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ	0.5	UJ	0.5	UJ	0.5	U	**0.088**	J	--		--	
	2012_1Q	03/22/12	FD	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.067**	J	--		--	
	2012_3Q	09/28/12	N	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	--		--	
	2013_3Q	08/13/13	N	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.049**	J	**0.162**	**J**	--	
	2014_4Q	10/22/14	N	**0.063**	**J**	**0.19**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.46	U	0.5	U	1	U
MW25A	2012_1Q	03/16/12	N	**190**		**91**		**100**		**4.2**		**0.72**	**J**	**2.3**		**61**		**30**		**24**		**7.2**		--		--	
	2012_3Q	10/04/12	N	**300**		**160**		**110**		**7.9**		**1.1**	**J**	**4.2**		**23**	**J**	**19**		**39**	**J**	**17**		--		--	
	2013_3Q	08/21/13	N	**370**		**190**		**180**	**J**	**10**	**J**	**1.2**	**J**	**4.8**		**130**		**71**		**50**		**15**		**10.5**	**J**	--	
	2014_4Q	10/21/14	N	**130**		**95**		**84**	**J**	**6.3**	**J**	4.2	U	**3.6**	**J**	**57**		**29**		**31**		**14**		**12.4**	**J-**	**11**	
	2014_4Q	10/21/14	FD	**140**		**99**		**86**	**J**	**6.1**	**J**	4.2	U	4.2	U	**58**		**30**		**31**		**15**		**12.6**	**J-**	**11**	

TABLE 3-3

Chlorinated VOC, 1,4-Dioxane, and Chromium Concentrations for 2012, 2013, and 2014

Omega Chemical Superfund Site

				PCE		TCE		1,1-DCE		cis-1,2-DCE		1,1-DCA		1,2-DCA		Freon 113		Freon 11		Chloroform		1,4-Dioxane		Cr+6		Cr	
Location	**Event**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
MW25B	2012_1Q	03/16/12	N	**310**		**230**		**190**		**7.3**		2	U	**3.4**		**230**		**88**		**39**		**7.7**		--		--	
	2012_3Q	10/04/12	N	**490**		**330**	**J**	**240**	**J**	**11**	**J**	**1.2**	**J**	**4**		**220**	**J**	**110**	**J**	**52**	**J**	**14**		--		--	
	2013_3Q	08/21/13	N	**460**		**270**		**250**	**J**	**13**	**J**	**1.5**	**J**	**6.2**		**260**		**100**		**64**		**17**		**17.4**		--	
	2014_4Q	10/21/14	N	**350**		**230**		**200**	**J**	**9.6**	**J**	5	U	**4.6**	**J**	**210**		**91**		**51**		**13**		**22.6**	**J-**	**18**	
MW25C	2012_1Q	03/16/12	N	**1.9**		**4.3**		**0.58**		0.5	U	0.5	U	0.5	U	**1.8**		**0.64**		0.5	U	0.66	U	--		--	
	2012_3Q	10/04/12	N	**0.83**		**1.8**		0.5	U	0.5	U	0.5	U	0.5	U	**0.63**		0.5	U	0.5	U	0.5	U	--		--	
	2013_3Q	08/21/13	N	**0.72**		**1.7**		**0.26**	**J**	0.5	U	0.5	U	0.5	U	**0.52**		**0.19**	**J**	0.5	U	0.5	U	**0.198**	**J**	--	
	2013_3Q	08/21/13	FD	**0.79**		**1.8**		**0.25**	**J**	0.5	U	0.5	U	0.5	U	**0.6**		**0.19**	**J**	0.5	U	0.5	U	0.25	U	--	
	2014_4Q	10/21/14	N	**1.4**		**2.9**		0.5	U	0.5	U	0.5	U	0.5	U	**1.4**		**0.57**		0.5	U	0.46	U	0.419	UJ	1	U
MW25D	2012_1Q	03/16/12	N	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.65	U	--		--	
	2012_3Q	10/04/12	N	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	--		--	
	2013_3Q	08/21/13	N	0.5	U	**0.11**	**J**	**0.12**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**7.75**		--	
	2014_4Q	10/21/14	N	**0.031**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.46	U	**7.9**	**J-**	**6.8**	
MW26A	2012_1Q	03/13/12	N	**190**		**120**		**110**		**17**	**J**	**9.3**		**2.8**		**54**		**25**		**14**		**8.8**		--		--	
	2012_3Q	10/02/12	N	**210**		**130**	**J**	**120**		**30**		**19**		**3.6**		**43**	**J**	**25**	**J**	**18**		**15**		--		--	
	2013_3Q	08/23/13	N	**140**		**88**		**69**	**J**	**7.8**	**J**	**2.9**		**1.2**		**58**		**28**		**11**		**2.9**		**16.1**		--	
	2014_4Q	10/16/14	N	**25**		**23**		**25**	**J**	**4.6**	**J**	**2.2**	**J**	**0.67**	**J**	**5.1**		**3**		1.8	U	**2.3**		**8.48**	**J-**	**9.2**	
MW26B	2012_1Q	03/13/12	N	**130**		**120**		**61**		**6.7**	**J**	**2.6**		**1.1**		**84**		**37**		**10**		**5**		--		--	
	2012_3Q	10/02/12	N	**190**		**150**	**J**	**85**		**18**		**8.3**		**2.4**		**69**	**J**	**36**	**J**	**16**		**7.4**		--		--	
	2013_3Q	08/23/13	N	**150**		**100**		**62**	**J**	**5.6**	**J**	**1.4**		**1.2**		**78**		**34**		**12**		**4.9**		**18**		--	
	2013_3Q	08/23/13	FD	**140**		**100**		**60**	**J**	**5.5**	**J**	**1.4**		**1.1**		**75**		**33**		**11**		**5.1**		**17.9**		--	
	2014_4Q	10/16/14	N	**49**		**33**		**9.3**		**1.2**	**J**	**0.31**	**J**	2.5	U	**15**		**7.6**		2.5	U	**0.84**		**8.29**	**J-**	**6.7**	
MW26C	2012_1Q	03/13/12	N	**50**		**62**		**12**	**J**	**2.6**	**J**	**0.25**	**J**	0.5	U	**35**		**19**		0.73	U	**1.2**		--		--	
	2012_3Q	10/02/12	N	**60**		**77**	**J**	**16**		**3.9**		**0.27**	**J**	0.5	U	**33**	**J**	**21**	**J**	**1.1**		**2.2**		--		--	
	2013_3Q	08/23/13	N	**110**		**120**		**28**	**J**	**4.2**	**J**	**0.28**	**J**	0.5	U	**83**		**38**		**1.3**		**1.9**		**6.11**		--	
	2014_4Q	10/16/14	N	**82**		**96**		**33**	**J**	**2.9**	**J**	5	U	5	U	**60**		**29**		5	U	**1.8**		**9.57**	**J-**	**12**	
MW26D	2012_1Q	03/13/12	N	**0.29**	**J**	**0.098**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.68	U	--		--	
	2012_3Q	10/02/12	N	**0.28**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	--		--	
	2013_3Q	08/23/13	N	**1.5**		**1.9**		**0.71**		**0.18**	**J**	0.5	U	0.5	U	**0.35**	**J**	0.5	U	0.5	U	**0.046**	J	0.25	U	--	
	2014_4Q	10/16/14	N	**0.46**	**J**	**0.52**		0.5	U	**0.16**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.49	U	0.5	U	1	U
MW27A	2012_1Q	03/14/12	N	**170**		**120**		**92**		**27**	**J**	**13**		**2.6**		**50**		**16**		**10**		--		--		--	
	2012_1Q	03/22/12	N	**130**		**95**		**74**	**J**	**25**	**J**	**12**		**2.4**		**35**		**14**		**9.5**		**9**		--		--	
	2012_3Q	10/03/12	N	**2.7**		**240**	**J**	**96**		**43**		**7.4**		0.5	U	0.5	U	0.5	U	0.5	U	**12**		--		--	
	2013_3Q	08/26/13	N	**180**		**150**		**93**		**23**	**J**	**8.9**		**2**		**36**		**10**		**8.5**		**6.7**		0.25	U	--	
	2013_3Q	08/26/13	FD	**180**		**150**		**96**		**23**	**J**	**8.9**		**2**		**35**		**9.8**		**8.5**		**7.9**		0.25	U	--	
	2014_4Q	10/28/14	N	**110**		**77**		**55**	**J**	**15**	**J**	**4.7**		**1.3**		**10**		**2.3**		**3.6**		**4.5**		0.5	UJ	1	U

TABLE 3-3

Chlorinated VOC, 1,4-Dioxane, and Chromium Concentrations for 2012, 2013, and 2014

Omega Chemical Superfund Site

				PCE		TCE		1,1-DCE		cis-1,2-DCE		1,1-DCA		1,2-DCA		Freon 113		Freon 11		Chloroform		1,4-Dioxane		Cr+6		Cr	
Location	**Event**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
MW27B	2012_1Q	03/14/12	N	**2.3**		**230**		**110**		**43**		**8.6**		**1.4**		1	U	1	U	1	U	**7.6**		--		--	
	2012_3Q	10/03/12	N	**150**		**130**	**J**	**72**		**33**		**12**		0.5	U	**24**	**J**	**8.1**		**7**		**7.7**		--		--	
	2013_3Q	08/26/13	N	1	U	**190**		**71**		**49**		**4.4**		1	U	1	U	1	U	1	U	**4**		0.25	UJ	--	
	2014_4Q	10/28/14	N	**0.63**		**140**		**83**	**J**	**98**	**J**	**4.2**		**0.89**		0.5	U	0.5	U	0.5	U	**5**		0.5	UJ	1	U
MW27C	2012_1Q	03/14/12	N	**3.7**		**14**		**16**	**J**	**5.3**	**J**	**1.2**		**0.25**	**J**	0.5	U	0.5	U	0.5	U	**1.4**		--		--	
	2012_3Q	10/03/12	N	**5.7**		**23**	**J**	**22**		**9.1**		**1.7**		0.5	U	0.5	U	0.5	U	0.5	U	**2**		--		--	
	2013_3Q	08/26/13	N	**5.3**		**23**		**26**	**J**	**10**	**J**	**1.9**		**0.33**	**J**	0.5	U	0.5	U	0.5	U	**2**		0.25	U	--	
	2014_4Q	10/28/14	N	**1.1**		**9.8**		**6.6**	**J**	**2.7**	**J**	**0.61**		0.5	U	0.5	U	0.5	U	0.5	U	**3**		0.235	UJ	**0.54**	**J**
MW27D	2012_1Q	03/14/12	N	**0.52**		**24**		**23**		**6.6**	**J**	**1.4**		**0.29**	**J**	0.5	U	0.5	U	0.5	U	**0.9**		--		--	
	2012_1Q	03/14/12	FD	**0.5**		**25**		**24**		**6.7**	**J**	**1.5**		**0.27**	**J**	0.5	U	0.5	U	0.5	U	**1.7**		--		--	
	2012_3Q	10/03/12	N	**0.27**	**J**	**28**	**J**	**22**		**9.1**		**1.6**		0.5	U	0.5	U	0.5	U	0.5	U	**2.1**		--		--	
	2012_3Q	10/03/12	FD	**0.31**	**J**	**28**	**J**	**22**		**8.9**		**1.7**		0.5	U	0.5	U	0.5	U	0.5	U	**1.9**		--		--	
	2013_3Q	08/26/13	N	**2.8**		**36**		**36**	**J**	**13**	**J**	**2.3**		**0.4**	**J**	0.5	U	0.5	U	0.5	U	**2.8**		0.25	U	--	
	2014_4Q	10/28/14	N	**0.25**	**J**	**73**		**59**	**J**	**20**	**J**	**3.2**		**0.61**		0.5	U	0.5	U	0.5	U	**3.2**		0.5	UJ	1	U
MW28	2012_1Q	03/19/12	N	**0.85**		**2**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**2.2**		--		--	
	2012_1Q	03/19/12	FD	**0.86**		**2**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**2.3**		--		--	
	2012_3Q	10/01/12	N	**1.7**		**3.2**		**0.41**	**J**	**0.29**	**J**	**0.24**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	**2.7**		--		--	
	2013_3Q	08/27/13	N	**2**		**3.8**		**0.26**	**J**	**0.32**	**J**	**0.15**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	**2.2**		**0.794**		--	
	2014_4Q	10/24/14	N	**1.5**		**2.2**		0.5	U	**0.14**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**2.1**		**1.01**	**J+**	**0.9**	**J**
MW29	2012_1Q	03/22/12	N	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.69**		--		--	
	2012_3Q	10/08/12	N	**0.25**	**J**	**0.52**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	--		--	
	2013_3Q	08/29/13	N	0.5	U	**0.65**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.13**	J	**4.12**		--	
	2014_4Q	10/31/14	N	**0.098**	**J**	**0.11**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.063**	**J**	0.5	U	**0.15**	J	**3.67**	**J-**	**3.5**	
MW30	2012_1Q	03/19/12	N	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**3.7**		--		--	
	2012_3Q	10/01/12	N	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.83**		--		--	
	2013_3Q	08/29/13	N	0.5	U	0.5	U	0.5	U	**0.13**	**J**	0.5	U	**0.78**		0.5	U	0.5	U	0.5	U	**0.48**	J	0.05	R	--	
	2014_4Q	10/31/14	N	0.5	U	**0.08**	**J**	0.5	U	**0.61**		0.5	U	**2.2**		0.5	U	**0.082**	**J**	0.5	U	**0.27**	J	**3.43**	**J-**	1	U
MW31	2012_3Q	10/08/12	N	**2.6**		**660**		**10**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**2.1**		0.5	U	--		--	
	2013_3Q	08/16/13	N	5	U	**780**		**9.9**		5	U	5	U	5	U	5	U	5	U	**3**	**J**	**0.089**	J	**7.86**		--	
	2014_4Q	10/22/14	N	**1.7**	**J**	**560**		**11**		5	U	5	U	5	U	5	U	5	U	5	U	**0.16**	J	**6.82**	**J+**	**6**	
MW32	2012_3Q	10/11/12	N	**19**		**27**		**7.2**	**J**	**2.4**	**J**	**2**		**1.2**		**4.4**		**2.3**		**0.83**		--		--		**6**	**J**
	2013_3Q	08/27/13	N	**36**		**34**		**19**	**J**	**8.4**	**J**	**4.4**		**0.96**		**8.9**		**4.2**		**1.3**		**6.3**		**6.65**		--	
	2014_4Q	10/28/14	N	**46**		**37**		**40**	**J**	**19**	**J**	**8**	**J**	**1.2**		**8**		**3.8**		**1.9**	**J**	**7.7**		**4.44**	**J+**	**3.6**	
	2014_4Q	10/28/14	FD	**46**		**41**		**36**	**J**	**19**	**J**	**8.5**	**J**	**1.3**		**9.1**		**4.2**		**2**	**J**	**7.6**		**3.8**	**J+**	**3**	
OW3A	2012_1Q	02/22/12	SS	**380**		**46**		**100**		**0.73**	**J**	**1.2**	**J**	2	U	**12**		**7.7**		**14**		**4.7**		--		--	
OW3B	2012_1Q	02/22/12	SS	**3.7**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	--		--	

TABLE 3-3

Chlorinated VOC, 1,4-Dioxane, and Chromium Concentrations for 2012, 2013, and 2014

Omega Chemical Superfund Site

				PCE		TCE		1,1-DCE		cis-1,2-DCE		1,1-DCA		1,2-DCA		Freon 113		Freon 11		Chloroform		1,4-Dioxane		Cr+6		Cr	
Location	**Event**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
OW4A	2012_1Q	02/22/12	SS	**17**		**1.6**		**10**	**J**	0.5	U	0.5	U	0.5	UJ	**38**	**J**	**23**	**J**	**0.41**	**J**	**0.17**	J	--		--	
	2012_1Q	02/22/12	FD	**17**		**1.7**		**11**	**J**	0.5	U	0.5	U	0.5	U	**28**		**18**		**0.43**	**J**	**0.17**	J	--		--	
OW7	2013_3Q	08/20/13	SS	**9.7**		0.5	U	**0.13**	**J**	0.5	U	0.5	U	0.5	U	**1.1**		**1.2**		0.5	U	**0.11**	J	**4.19**		--	
OW10	2013_3Q	08/21/13	SS	**59**		**5.8**		**82**	**J**	0.5	U	0.5	U	0.5	U	**9.8**		**10**		**0.28**	**J**	**0.14**	J	**3.76**		--	
OW11	2013_3Q	08/22/13	SS	**1,400**		**190**		**440**	**J**	2.5	UJ	**1.8**	**J**	2.5	U	**410**		**150**		**7.8**		0.5	U	**0.124**	**J**	--	
OPOG Samples																											
OW1A	2012_1Q	02/22/12	N	**590**		**6.1**		5	U	5	U	5	U	5	U	25	U	5	U	**3.1**	**J**	**300**		--		--	
	2014_4Q	08/11/14	N	**49**		**0.71**	**J**	0.25	U	0.25	U	0.25	U	0.25	U	0.5	U	0.25	U	0.25	U	11	UJ	--		--	
OW1B	2012_1Q	02/21/12	N	**21**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	0.49	U	--		--	
	2012_3Q	08/22/12	N	**38**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	0.47	U	--		--	
	2013_1Q	03/01/13	N	**5.1**		**0.3**	**J**	1	U	1	U	1	U	1	U	5	U	1	U	1	U	**0.41**	J	--		--	
	2013_3Q	08/21/13	N	**4.4**		1	U	1	U	1	U	1	U	1	U	**2.3**		**1.7**		1	U	**1.4**		--		--	
	2014_4Q	08/12/14	N	**4.5**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.5	U	0.25	U	0.25	U	3.7	UJ	--		--	
OW2	2012_3Q	08/21/12	N	**2000**		**290**		**360**		5	U	**6.5**		5	U	**43**		**40**		**25**		**0.071**	J	--		--	
OW3A	2012_1Q	02/22/12	SS	**500**		**60**		**140**		10	U	10	U	10	U	**17**	**J**	**12**		**20**		**6**		--		--	
	2012_1Q	02/22/12	FD	**450**		**54**		**120**		**1.6**	**J**	5	U	5	U	**14**	**J**	**9.4**		**17**		**5.3**		--		--	
	2012_3Q	08/21/12	N	**140**		**17**		**28**		1	U	**0.52**	**J**	1	U	**2.1**	**J**	**2**		**7.1**		**9.6**		--		--	
	2013_1Q	03/01/13	N	**190**		**20**		**65**		**0.4**	**J**	**0.58**	**J**	1	U	**6.2**		**5.1**		**6.5**		**4.8**	J	--		--	
	2013_3Q	08/22/13	N	**110**		**13**		**36**		1	U	**0.28**		1	U	**4.2**		**3.6**		**3.4**		**3.8**		--		--	
	2014_1Q	02/18/14	N	**130**		**15**		**72**		1	U	**0.28**	**J**	1	U	**18**		**9.5**		**3.4**		**0.78**		--		--	
	2014_4Q	08/13/14	N	**73**		**7.1**		**8.7**		0.25	U	0.25	U	0.25	U	**3.6**	**J**	2.3	UJ	**1.3**		**7.3**	J	--		--	
OW3B	2012_1Q	02/22/12	SS	**4.2**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	**0.081**	J	--		--	
	2012_3Q	08/21/12	N	**3.7**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	0.47	U	--		--	
	2013_1Q	03/01/13	N	**2.3**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	0.95	UJ	--		--	
	2013_3Q	08/20/13	N	**3**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	0.48	U	--		--	
	2014_1Q	02/17/14	N	**3.2**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	0.49	U	--		--	
	2014_4Q	08/12/14	N	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.5	U	0.25	U	0.25	U	0.097	UJ	--		--	
OW4A	2012_1Q	02/22/12	SS	**18**		**1.6**		**10**		1	U	1	U	1	U	**32**		**23**		**0.48**	**J**	**0.21**	J	--		--	
	2012_3Q	08/22/12	N	**24**		**2.3**		**18**		1	U	1	U	1	U	**56**		**40**		1	U	0.47	U	--		--	
	2013_1Q	02/27/13	N	**18**		**1.9**		**19**		1	U	1	U	1	U	**43**		**28**		**0.86**	**J**	**0.66**	J	--		--	
	2013_1Q	02/27/13	FD	**19**		**2**		**21**		1	U	1	U	1	U	**45**		**29**		**0.88**	**J**	**0.5**	J	--		--	
	2013_3Q	08/20/13	N	**8.5**		**1.1**		**8.3**		1	U	1	U	1	U	**30**		**11**		**0.6**		**0.16**		--		--	
	2013_3Q	08/20/13	FD	**8.5**		**1.2**		**8.8**		1	U	1	U	1	U	**33**		**14**		**0.66**		**0.17**		--		--	
	2014_1Q	02/19/14	N	**4.2**		**1.1**		**3.1**		1	U	1	U	1	U	**13**		**8.1**		**1.2**		**0.1**	J	--		--	
	2014_1Q	02/19/14	FD	**4.4**		**1.1**		**3.3**		1	U	1	U	1	U	**14**		**7.1**		**0.99**	**J**	**0.1**	J	--		--	

TABLE 3-3

Chlorinated VOC, 1,4-Dioxane, and Chromium Concentrations for 2012, 2013, and 2014

Omega Chemical Superfund Site

				PCE		TCE		1,1-DCE		cis-1,2-DCE		1,1-DCA		1,2-DCA		Freon 113		Freon 11		Chloroform		1,4-Dioxane		Cr+6		Cr	
Location	**Event**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
OW4B	2012_1Q	02/22/12	N	**3.5**		**0.27**	**J**	1	U	1	U	1	U	**0.46**	**J**	5	U	1	U	1	U	**0.061**	J	--		--	
	2012_3Q	08/22/12	N	**3.8**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	0.48	U	--		--	
	2012_3Q	08/22/12	FD	**3.5**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	**0.73**		--		--	
	2013_1Q	02/27/13	N	**2.4**		1	U	1	U	1	U	1	U	**0.46**	**J**	5	U	1	U	1	U	0.95	UJ	--		--	
	2013_3Q	08/20/13	N	**1.9**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	0.48	U	--		--	
	2014_1Q	02/19/14	N	**1.8**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	**0.74**	**J**	0.48	U	--		--	
	2014_4Q	08/12/14	N	**2**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.5	U	0.25	U	0.25	U	0.096	UJ	--		--	
	2014_4Q	08/12/14	FD	**2.1**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.5	U	0.25	U	0.25	U	0.095	UJ	--		--	
OW5	2012_3Q	08/28/12	N	**670**		**180**		**120**		**32**		**1.1**	**J**	**4.2**		**52**		**42**		**36**		**17**		--		--	
	2013_1Q	03/01/13	N	**550**		**220**		**150**		**53**		**1.6**	**J**	**5.9**		**120**		**53**		**44**		**31**	J	**6.9**		--	
	2013_3Q	08/21/13	N	**500**		**190**		**78**		**42**		**1**		**3.9**		**90**		**42**		**31**		**17**		--		--	
	2014_1Q	02/19/14	N	**90**		**190**		**27**		**6.8**		1	U	**0.92**	**J**	**42**		**17**		**8.3**		**3.2**		--		--	
	2014_4Q	08/13/14	N	**32**		**390**		**12**		**8**		0.25	U	0.25	U	**11**		5.3	UJ	**2**		**1.1**	J	--		--	
OW6	2012_1Q	08/22/12	N	**76**		**2.8**		**3.5**		1	U	1	U	**1**		**9.7**		**4**		1	U	0.47	U	--		--	
	2013_1Q	03/01/13	N	**58**		**1.2**		**1.6**		1	U	1	U	**0.54**	**J**	**4.7**	**J**	**1.6**		**0.61**	**J**	**0.21**	J	**3.8**		--	
	2013_3Q	08/21/13	N	**58**		**1.3**		**2.4**		1	U	1	U	**0.36**		**3**		**2.1**		**0.53**		**0.24**		--		--	
OW7	2012_1Q	02/22/12	N	**8.3**		1	U	1	U	1	U	1	U	1	U	**1.1**	**J**	**1.8**		1	U	**0.23**	J	--		--	
	2012_3Q	08/21/12	N	**7.5**		1	U	1	U	1	U	1	U	1	U	**1.2**	**J**	**1.7**		1	U	**0.087**	J	--		--	
	2013_1Q	02/28/13	N	**8.2**		1	U	1	U	1	U	1	U	1	U	**1.3**	**J**	**1.5**		1	U	**0.12**	J	--		--	
	2013_1Q	02/28/13	FD	**9.1**		1	U	1	U	1	U	1	U	1	U	**1.5**	**J**	**1.5**		1	U	0.95	UJ	--		--	
	2013_3Q	08/20/13	N	**8**		1	U	1	U	1	U	1	U	1	U	**1.2**		**0.95**		1	U	0.48	U	--		--	
	2013_3Q	08/20/13	FD	**8.1**		1	U	1	U	1	U	1	U	1	U	**1.1**		**0.93**		1	U	0.47	U	--		--	
	2014_1Q	02/17/14	N	**5.8**		1	U	1	U	1	U	1	U	1	U	**0.53**	**J**	**0.58**	**J**	1	U	0.47	U	--		--	
	2014_1Q	02/17/14	FD	**5.8**		1	U	1	U	1	U	1	U	1	U	**0.55**	**J**	**0.6**	**J**	1	U	0.47	U	--		--	
	2014_4Q	08/11/14	N	**6.8**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.5	U	0.25	U	0.25	U	0.095	UJ	--		--	
OW8A	2014_4Q	08/11/14	N	**2.9**		**0.28**	**J**	0.25	U	0.25	U	0.25	U	0.25	U	0.5	U	0.25	U	**0.26**	**J**	--		--		--	
OW8B	2012_1Q	02/21/12	N	**2.4**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	0.48	U	--		--	
	2012_3Q	08/21/12	N	**3.8**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	**0.062**	J	--		--	
	2013_1Q	02/28/13	N	**4.5**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	0.96	UJ	--		--	
	2013_3Q	08/20/13	N	**7.2**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	0.48	U	--		--	
	2014_1Q	02/17/14	N	**12**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	0.49	U	--		--	
	2014_4Q	08/11/14	N	**15**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.5	U	0.25	U	0.25	U	0.094	UJ	--		--	
	2014_4Q	08/11/14	FD	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.5	U	0.25	U	0.25	U	0.096	UJ	--		--	

TABLE 3-3

Chlorinated VOC, 1,4-Dioxane, and Chromium Concentrations for 2012, 2013, and 2014

Omega Chemical Superfund Site

				PCE		TCE		1,1-DCE		cis-1,2-DCE		1,1-DCA		1,2-DCA		Freon 113		Freon 11		Chloroform		1,4-Dioxane		Cr+6		Cr	
Location	**Event**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
OW9	2012_1Q	02/21/12	N	**9000**		**440**		**660**		20	U	20	U	**95**		**520**		**190**		**490**		**520**		--		--	
	2012_1Q	02/21/12	FD	**9600**		**450**		**680**		20	U	20	U	**110**		**530**		**200**		**500**		**540**		--		--	
	2012_3Q	08/21/12	N	**4500**		**220**		**330**		10	U	**5.7**	**J**	**48**		**350**		**130**		**200**		**260**		--		--	
	2012_3Q	08/21/12	FD	**4000**		**220**		**360**		**3.2**	**J**	**7.9**	**J**	**47**		**290**		**120**		**230**		0.47	U	--		--	
	2013_1Q	03/01/13	N	**3700**		**220**		**320**		20	U	20	U	**50**		**350**		**120**		**260**		**300**	J	--		--	
	2013_3Q	08/21/13	N	**6400**		**410**		**690**		**7**		**17**		**93**		**500**		**230**		**530**		**430**		--		--	
	2014_1Q	02/19/14	N	**8600**		**480**		**700**		**14**	**J**	**27**		**140**		**460**		**220**		**760**		**340**		--		--	
	2014_4Q	08/13/14	N	**16000**		**720**		**1000**		10	U	**29**	**J**	**190**		**400**		230	UJ	**880**		**960**		--		--	
	2014_4Q	08/13/14	FD	**17000**		**750**		**1100**		10	U	**32**	**J**	**190**		**490**		260	UJ	**910**		**1000**		--		--	
OW10	2012_1Q	02/21/12	N	**48**		**3.1**		**62**		1	U	1	U	1	U	**16**		**12**		1	U	0.49	U	--		--	
	2012_3Q	08/22/12	N	**71**		**5.4**		**73**		1	U	1	U	1	U	**21**		**18**		1	U	0.47	U	--		--	
	2013_1Q	03/01/13	N	**61**		**5.3**		**79**		1	U	1	U	1	U	**19**		**17**		1	U	**0.21**	J	--		--	
	2013_3Q	08/21/13	N	**55**		**5.2**		**37**		1	U	1	U	1	U	**9.2**		**9.7**		1	U	**0.15**		--		--	
	2014_1Q	02/18/14	N	**73**		**6.1**		**93**		1	U	1	U	1	U	**14**		**14**		**0.25**	**J**	**0.12**	J	--		--	
	2014_4Q	08/12/14	N	**63**		**4.9**		**58**		0.25	U	0.25	U	0.25	U	**7.2**		8.2	UJ	0.25	U	0.095	UJ	--		--	
	2014_4Q	08/12/14	FD	**65**		**5.1**		**59**		0.25	U	0.25	U	0.25	U	**7**		8.2	UJ	0.25	U	0.096	UJ	--		--	
OW11	2013_1Q	05/10/13	N	**1500**		**190**		**500**		**5**		**5**		**5**		**410**		**170**		**8.5**		**0.15**		--		--	
	2013_3Q	08/22/13	N	**1300**		**170**		**380**		2.5	U	**1.4**		2.5	U	**350**		**140**		**7.4**		**0.27**		--		--	
	2014_1Q	02/21/14	N	**1300**		**190**		**420**		4	U	**1.4**	**J**	4	U	**350**		**130**		**7.1**		**0.14**	J	--		--	
	2014_4Q	08/13/14	N	**1200**		**220**		**460**		1.3	U	1.3	U	1.3	U	**310**		140	UJ	**6**		0.097	UJ	--		--	
OW12	2014_1Q	02/20/14	N	**4100**		**300**		**180**		10	U	10	U	**12**		**2200**		**82**		**220**		**44**		--		--	
	2014_1Q	02/20/14	FD	**4100**		**310**		**190**		10	U	10	U	**13**		**2300**		**79**		**230**		**48**		--		--	
	2014_4Q	08/14/14	N	**4100**		**350**		**220**		2.5	U	2.5	U	**13**		3400	UJ	110	UJ	**210**		51	UJ	--		--	

Notes:

Detected values are **bolded**

µg/L = micrograms per liter

1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
1,2-DCA	1,2-dichloroethane
cis-1,2-DCE	cis-1,2-dichloroethene
Cr	chromium
Cr+6	hexavalent chromium
FD	field duplicate
Freon 11	trichlorofluoromethane
Freon 113	1,1,2-trichloro-1,2,2-trifluoroethane
N	primary sample
PCE	tetrachloroethene
SS	split sample
TCE	trichloroethene
VOC	volatile organic compound

Data Qualifiers (Q):

J = Analyte was detected below the quantitation limit; the reported value is estimated.

J+ = Analyte was detected below the quantitation limit and likely to be high bias; the reported value is estimated.

J- = Analyte was detected below the quantitation limit and likely to be low bias; the reported value is estimated.

UJ = Analyte was not detected; however, the quantitation limit was estimated because of discrepancies in meeting certain analyte-specific QC criteria.

R = Data were rejected because of deficiencies in meeting QC criteria.

U = Analyte was analyzed for but not detected, or was qualified as not detected because of blank contamination.

TABLE 3-4

Comparison of Hexavalent Chromium and Chromium Concentrations for 2013 and 2014

Omega Chemical Superfund Site

				Cr+6		Cr		RPD (%)	
Location	**Event**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**All Samples**	**Outliers Omitted**
MW1A	2013_3Q	08/14/13	N	**16.6**		--		--	--
	2014_4Q	10/24/14	N	**11.7**	**J+**	**9.8**		18	18
MW1B	2014_4Q	10/24/14	N	**26.3**	**J+**	**23**		13	13
MW2	2013_3Q	08/26/13	N	**5.06**		--		--	--
	2014_4Q	10/22/14	N	**6.01**	**J+**	**8.3**		-32	-32
MW3	2013_3Q	08/15/13	N	**4.07**		--		--	--
	2014_4Q	10/15/14	N	**7.18**	**J-**	**6**		18	18
MW4A	2013_3Q	08/15/13	N	**5.93**	**J**	--		--	--
	2014_4Q	10/15/14	N	**7.75**	**J-**	**6.7**		15	15
	2014_4Q	10/15/14	FD	**7.85**	**J-**	**6.5**		19	19
MW4B	2013_3Q	08/15/13	N	**6.01**		--		--	--
	2013_3Q	08/15/13	FD	**6.39**		--		--	--
	2014_4Q	10/15/14	N	**7.3**	**J-**	**6.2**		16	16
MW4C	2013_3Q	08/15/13	N	**38**		--		--	--
MW4C	2014_4Q	10/15/14	N	**42.7**	**J-**	**35**		20	20
MW5	2013_3Q	08/15/13	N	**6.47**		--		--	--
MW5	2014_4Q	10/15/14	N	**8.39**	**J-**	**14**		-50	Omit
MW6	2013_3Q	08/16/13	N	**263**	**J**	--		--	--
MW7	2013_3Q	08/14/13	N	**0.596**		--		--	--
	2014_4Q	10/15/14	N	**4.06**	**J-**	**3.9**		4	4
MW8A	2013_3Q	08/20/13	N	**62.1**		--		--	--
MW8B	2013_3Q	08/20/13	N	**35.3**		--		--	--
	2014_4Q	10/17/14	N	**63.7**	**J+**	**49**		26	26
MW8C	2013_3Q	08/20/13	N	**42.6**		--		--	--
	2014_4Q	10/17/14	N	**72.1**	**J+**	**53**		31	31
MW8D	2013_3Q	08/20/13	N	**3.91**		--		--	--
	2014_4Q	10/17/14	N	**6.29**	**J+**	**5.2**		19	19
MW9B	2013_3Q	08/29/13	N	**11.2**		--		--	--
	2014_4Q	10/21/14	N	**12.2**	**J-**	**11**		10	10
MW10	2013_3Q	08/21/13	N	**5.02**		--		--	--
	2014_4Q	10/21/14	N	**6.32**	**J-**	**5.4**		16	16
MW11	2013_3Q	08/30/13	N	**5.29**		--		--	--
MW12	2013_3Q	08/30/13	N	**3.26**	**J**	--		--	--
	2014_4Q	10/22/14	N	**1.74**	**J+**	**3.1**		-56	Omit
MW13B	2013_3Q	08/16/13	N	**3.82**		--		--	--
	2014_4Q	10/28/14	N	**4.5**	**J+**	**3.3**		31	31

TABLE 3-4

Comparison of Hexavalent Chromium and Chromium Concentrations for 2013 and 2014

Omega Chemical Superfund Site

				Cr+6		Cr		RPD (%)	
Location	**Event**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**All Samples**	**Outliers Omitted**
MW14	2013_3Q	08/14/13	N	**6.08**	**J**	--		--	--
	2014_4Q	10/24/14	N	**7.45**	**J+**	**6.2**		18	18
	2014_4Q	10/24/14	FD	**7.18**	**J+**	**6.1**		16	16
MW15	2013_3Q	08/14/13	N	**5.32**	**J**	--		--	--
	2014_4Q	10/15/14	N	**6.09**	**J-**	**5.4**		12	12
MW16A	2014_4Q	10/17/14	N	**4.91**	**J+**	**14**		-96	Omit
MW16B	2013_3Q	08/27/13	N	**10.3**	**J**	--		--	--
	2014_4Q	10/17/14	N	**10.3**	**J+**	**7.9**		26	26
MW16C	2013_3Q	08/27/13	N	**2.61**		--		--	--
MW16C	2014_4Q	10/17/14	N	**3.13**	**J+**	**9.8**		-103	Omit
MW17B	2013_3Q	08/28/13	N	**19.3**		--		--	--
	2014_4Q	10/16/14	N	**17.7**	**J-**	**14**		23	23
	2014_4Q	10/16/14	FD	**18.1**	**J-**	**14**		26	26
MW17C	2013_3Q	08/28/13	N	**7.04**		--		--	--
	2014_4Q	10/16/14	N	**7.64**	**J-**	**6.7**		13	13
MW18A	2013_3Q	08/22/13	N	**2.21**		--		--	--
	2014_4Q	10/14/14	N	0.5	U	**4.3**		**	**
MW18B	2013_3Q	08/22/13	N	0.25	U	--		--	--
	2014_4Q	10/14/14	N	**6.51**	**J**	**5.6**		15	15
MW18C	2013_3Q	08/22/13	N	**0.618**		--		--	--
	2014_4Q	10/14/14	N	**0.643**		**49**		-195	Omit
MW20A	2013_3Q	08/28/13	N	**14.3**		--		--	--
	2014_4Q	10/31/14	N	**5.07**	**J-**	**17**		-108	Omit
MW20B	2013_3Q	08/28/13	N	**15.3**		--		--	--
	2014_4Q	10/31/14	N	**3.92**	**J-**	**3.3**		17	17
MW20C	2013_3Q	08/28/13	N	0.25	U	--		--	--
	2014_4Q	10/31/14	N	0.5	UJ	1	U	*	*
MW21	2013_3Q	08/30/13	N	**5.83**		--		--	--
	2014_4Q	10/31/14	N	**6.96**	**J-**	**11**		-45	Omit
MW22	2013_3Q	08/22/13	N	**3.38**		--		--	--
	2013_3Q	08/22/13	FD	**3.46**		--		--	--
	2014_4Q	10/31/14	N	0.5	UJ	**96**		**	**
MW23A	2013_3Q	08/19/13	N	**8.46**		--		--	--
	2014_4Q	10/14/14	N	**8.85**		**7.9**		11	11
MW23B	2013_3Q	08/19/13	N	**18.2**		--		--	--
	2013_3Q	08/19/13	FD	**16.2**		--		--	--
	2014_4Q	10/14/14	N	**25.6**	**J-**	**22**		15	15

TABLE 3-4

Comparison of Hexavalent Chromium and Chromium Concentrations for 2013 and 2014

Omega Chemical Superfund Site

				Cr+6		Cr		RPD (%)	
Location	**Event**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**All Samples**	**Outliers Omitted**
MW23C	2013_3Q	08/19/13	N	**5.62**	**J**	--		--	--
	2014_4Q	10/14/14	N	**8.62**	**J-**	**6.8**		24	24
MW23D	2013_3Q	08/19/13	N	**7.13**		--		--	--
	2014_4Q	10/14/14	N	**8.23**	**J-**	**7.2**		13	13
MW24A	2013_3Q	08/13/13	N	**5.16**	**J**	--		--	--
	2014_4Q	10/22/14	N	**5.86**	**J+**	**5**		16	16
MW24B	2013_3Q	08/13/13	N	**4.52**		--		--	--
	2014_4Q	10/22/14	N	**4.73**	**J+**	**4.1**		14	14
MW24C	2013_3Q	08/13/13	N	**3.25**		--		--	--
	2014_4Q	10/22/14	N	**3.68**	**J+**	**4**		-8	-8
MW24D	2013_3Q	08/13/13	N	**0.162**	**J**	--		--	--
	2014_4Q	10/22/14	N	0.5	U	1	U	*	*
MW25A	2013_3Q	08/21/13	N	**10.5**	**J**	--		--	--
	2014_4Q	10/21/14	N	**12.4**	**J-**	**11**		12	12
	2014_4Q	10/21/14	FD	**12.6**	**J-**	**11**		14	14
MW25B	2013_3Q	08/21/13	N	**17.4**		--		--	--
	2014_4Q	10/21/14	N	**22.6**	**J-**	**18**		23	23
MW25C	2013_3Q	08/21/13	N	**0.198**	**J**	--		--	--
	2013_3Q	08/21/13	FD	0.25	U	--		--	--
	2014_4Q	10/21/14	N	0.419	UJ	1	U	*	*
MW25D	2013_3Q	08/21/13	N	**7.75**		--		--	--
	2014_4Q	10/21/14	N	**7.9**	**J-**	**6.8**		15	15
MW26A	2013_3Q	08/23/13	N	**16.1**		--		--	--
	2014_4Q	10/16/14	N	**8.48**	**J-**	**9.2**		-8	-8
MW26B	2013_3Q	08/23/13	N	**18**		--		--	--
	2013_3Q	08/23/13	FD	**17.9**		--		--	--
	2014_4Q	10/16/14	N	**8.29**	**J-**	**6.7**		21	21
MW26C	2013_3Q	08/23/13	N	**6.11**		--		--	--
	2014_4Q	10/16/14	N	**9.57**	**J-**	**12**		-23	-23
MW26D	2013_3Q	08/23/13	N	0.25	U	--		--	--
	2014_4Q	10/16/14	N	0.5	U	1	U	*	*
MW27A	2013_3Q	08/26/13	N	0.25	U	--		--	--
	2013_3Q	08/26/13	FD	0.25	U	--		--	--
	2014_4Q	10/28/14	N	0.5	UJ	1	U	*	*
MW27B	2013_3Q	08/26/13	N	0.25	UJ	--		--	--
	2014_4Q	10/28/14	N	0.5	UJ	1	U	*	*

TABLE 3-4

Comparison of Hexavalent Chromium and Chromium Concentrations for 2013 and 2014

Omega Chemical Superfund Site

				Cr+6		Cr		RPD (%)	
Location	**Event**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**All Samples**	**Outliers Omitted**
MW27C	2013_3Q	08/26/13	N	0.25	U	--		--	--
	2014_4Q	10/28/14	N	0.235	UJ	**0.54**	**J**	**	**
MW27D	2013_3Q	08/26/13	N	0.25	U	--		--	--
	2014_4Q	10/28/14	N	0.5	UJ	1	U	*	*
MW28	2013_3Q	08/27/13	N	**0.794**		--		--	--
	2014_4Q	10/24/14	N	**1.01**	**J+**	**0.9**	**J**	12	12
MW29	2013_3Q	08/29/13	N	**4.12**		--		--	--
	2014_4Q	10/31/14	N	**3.67**	**J-**	**3.5**		5	5
MW30	2013_3Q	08/29/13	N	0.05	R	--		--	--
	2014_4Q	10/31/14	N	**3.43**	**J-**	1	U	**	**
MW31	2013_3Q	08/16/13	N	**7.86**		--		--	--
	2014_4Q	10/22/14	N	**6.82**	**J+**	**6**		13	13
MW32	2013_3Q	08/27/13	N	**6.65**		--		--	--
	2014_4Q	10/28/14	N	**4.44**	**J+**	**3.6**		21	21
	2014_4Q	10/28/14	FD	**3.8**	**J+**	**3**		24	24
OW7	2013_3Q	08/20/13	SS	**4.19**		--		--	--
OW10	2013_3Q	08/21/13	SS	**3.76**		--		--	--
OW11	2013_3Q	08/22/13	SS	**0.124**	**J**	--		--	--
OW5	2013_1Q	03/01/13	N	**6.9**		--		--	--
OW6	2013_1Q	03/01/13	N	**3.8**		--		--	--
Min								-195	-32
Max								31	31
Count								50	43

Notes:

Detected values are **bolded**

µg/L = micrograms per liter

Cr = chromium

Cr+6 = hexavalent chromium

FD = field duplicate

N = primary sample

SS = split sample

RPD (%) = relative percent difference = (A-B)/((A+B)/2)*100

-- No pair (no calculation)

* Nondetect to nondetect (no calculation)

** Detect to nondetect (no calculation)

Data Qualifiers (Q):

J = Analyte was detected below the quantitation limit; the reported value is estimated.

J+ = Analyte was detected below the quantitation limit and likely to be high bias; the reported value is estimated.

J- = Analyte was detected below the quantitation limit and likely to be low bias; the reported value is estimated.

UJ = Analyte was not detected; however, the quantitation limit was estimated because of discrepancies in meeting certain analyte-specific QC criteria.

R = Data were rejected because of deficiencies in meeting QC criteria.

U = Analyte was analyzed for but not detected, or was qualified as not detected because of blank contamination.

TABLE 3-5

Comparison of Duplicate Sample Results for 2012, 2013, and 2014

Omega Chemical Superfund Site

				PCE		TCE		1,1-DCE		cis-1,2-DCE		1,1-DCA		1,2-DCA		Freon 113		Freon 11		Chloroform		1,4-Dioxane		Cr+6		Cr	
Location	**Event**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
MW4A	2014_4Q	10/15/14	N	**18**		**1.5**	**J**	2.5	U	2.5	U	2.5	U	2.5	U	**5.1**		**43**		2.5	U	**0.21**	J	**7.75**	**J-**	**6.7**	
	2014_4Q	10/15/14	FD	**20**		**1.6**	**J**	2.5	U	2.5	U	2.5	U	2.5	U	**5.3**		**48**		2.5	U	**0.24**	J	**7.85**	**J-**	**6.5**	
MW4B	2013_3Q	08/15/13	N	**66**		**8.4**		**17**	**J**	**0.13**	**J**	0.5	U	**0.61**		**28**		**9.6**		**2.7**		**0.75**		**6.01**		--	
	2013_3Q	08/15/13	FD	**62**		**8.7**		**17**	**J**	**0.15**	**J**	0.5	U	**0.6**		**25**		**9.4**		**2.7**		**0.71**		**6.39**		--	
MW8D	2012_1Q	03/20/12	N	**4.1**		**49**		**1.2**		**0.24**	**J**	0.5	U	0.5	U	**1.8**		**0.83**		**0.83**		**0.076**	J	--		--	
	2012_1Q	03/20/12	FD	**3.7**		**53**		**1.2**		**0.23**	**J**	0.5	U	0.5	U	**1.8**		**0.79**		**0.73**		**0.079**	J	--		--	
MW14	2012_3Q	09/28/12	N	**67**		**11**		**19**		**0.65**		0.5	U	**0.56**		**32**		**11**		**4**		**1.1**		--		--	
	2012_3Q	09/28/12	FD	**80**		**12**		**24**		**0.75**		0.5	U	**0.54**		**39**		**11**		**4.4**		**0.98**		--		--	
	2014_4Q	10/24/14	N	**81**		**7.1**		**14**		**0.75**	**J**	4.2	U	4.2	U	**23**		**8.6**		**3.6**	**J**	**1.4**		**7.45**	**J+**	**6.2**	
	2014_4Q	10/24/14	FD	**78**		**6.8**		**14**		4.2	U	4.2	U	4.2	U	**22**		**8.6**		4.2	U	**1.3**		**7.18**	**J+**	**6.1**	
MW16B	2012_1Q	03/15/12	N	**29**		**49**		**16**	**J**	**0.78**	**J**	0.5	U	0.5	U	**28**		**10**		**1.9**		**0.51**	J	--		--	
	2012_1Q	03/15/12	FD	**28**		**47**		**16**	**J**	**0.71**	**J**	0.5	U	0.5	U	**26**		**10**		**1.8**		**0.48**	J	--		--	
	2012_3Q	10/08/12	N	**73**		**100**		**42**		**1.9**		0.5	U	0.5	U	**48**	**J**	**20**	**J**	**5.6**		**1.5**		--		--	
	2012_3Q	10/08/12	FD	**71**		**100**		**39**		**2**		**0.21**	**J**	**0.5**	**J**	**43**	**J**	**22**	**J**	**5.8**		**1.7**		--		--	
MW17B	2014_4Q	10/16/14	N	**480**		**190**		**260**	**J**	**74**	**J**	**33**		**5.4**		**100**		**48**		**40**		**30**		**17.7**	**J-**	**14**	
	2014_4Q	10/16/14	FD	**520**		**190**		**300**	**J**	**79**	**J**	**35**		**5.9**		**110**		**51**		**44**		**31**		**18.1**	**J-**	**14**	
MW17C	2012_3Q	10/09/12	N	**1.5**		**8.5**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	--		--	
	2012_3Q	10/09/12	FD	**1.5**		**8.4**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	--		--	
MW21	2012_3Q	10/01/12	N	**1.8**		**0.38**	**J**	**0.31**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**3.4**		**1.9**		--		--	
	2012_3Q	10/01/12	FD	**1.7**		**0.38**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**3.4**		**1.9**		--		--	
MW22	2013_3Q	08/22/13	N	**1.8**		**1.1**		**0.15**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**1.2**		**0.52**		**3.38**		--	
	2013_3Q	08/22/13	FD	**1.8**		**1.1**		**0.14**	**J**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**1.2**		**0.67**		**3.46**		--	
MW23B	2013_3Q	08/19/13	N	**490**		**270**		**240**	**J**	**11**	**J**	**1.5**	**J**	**5.6**		**300**		**110**		**55**		**21**		**18.2**		--	
	2013_3Q	08/19/13	FD	**530**		**290**		**260**	**J**	**12**	**J**	**1.7**	**J**	**6.3**		**330**		**130**		**61**		**24**		**16.2**		--	
MW23C	2012_1Q	03/23/12	N	**260**		**110**		**140**	**J**	**4.6**	**J**	**0.58**	**J**	**2.1**		**190**		**75**		**21**		**7.3**		--		--	
	2012_1Q	03/23/12	FD	**270**		**110**		**150**	**J**	**4.9**	**J**	**0.62**	**J**	**2**		**210**		**88**		**22**		**6.3**		--		--	
MW23D	2012_3Q	09/26/12	N	**3.2**		**15**		**1.6**		0.5	U	0.5	U	0.5	U	**4.2**		**1.4**		**0.35**	**J**	0.5	U	--		--	
	2012_3Q	09/26/12	FD	**3.4**		**15**		**1.7**		0.5	U	0.5	U	0.5	U	**4.2**		**1.3**		**0.34**	**J**	0.5	U	--		--	
MW24D	2012_1Q	03/22/12	N	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ	0.5	UJ	0.5	UJ	0.5	U	**0.088**	J	--		--	
	2012_1Q	03/22/12	FD	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.067**	J	--		--	
MW25A	2014_4Q	10/21/14	N	**130**		**95**		**84**	**J**	**6.3**	**J**	4.2	U	**3.6**	**J**	**57**		**29**		**31**		**14**		**12.4**	**J-**	**11**	
	2014_4Q	10/21/14	FD	**140**		**99**		**86**	**J**	**6.1**	**J**	4.2	U	4.2	U	**58**		**30**		**31**		**15**		**12.6**	**J-**	**11**	
MW25C	2013_3Q	08/21/13	N	**0.72**		**1.7**		**0.26**	**J**	0.5	U	0.5	U	0.5	U	**0.52**		**0.19**	**J**	0.5	U	0.5	U	**0.198**	**J**	--	
	2013_3Q	08/21/13	FD	**0.79**		**1.8**		**0.25**	**J**	0.5	U	0.5	U	0.5	U	**0.6**		**0.19**	**J**	0.5	U	0.5	U	0.25	U	--	
MW26B	2013_3Q	08/23/13	N	**150**		**100**		**62**	**J**	**5.6**	**J**	**1.4**		**1.2**		**78**		**34**		**12**		**4.9**		**18**		--	
	2013_3Q	08/23/13	FD	**140**		**100**		**60**	**J**	**5.5**	**J**	**1.4**		**1.1**		**75**		**33**		**11**		**5.1**		**17.9**		--	
MW27A	2013_3Q	08/26/13	N	**180**		**150**		**93**		**23**	**J**	**8.9**		**2**		**36**		**10**		**8.5**		**6.7**		0.25	U	--	
	2013_3Q	08/26/13	FD	**180**		**150**		**96**		**23**	**J**	**8.9**		**2**		**35**		**9.8**		**8.5**		**7.9**		0.25	U	--	

TABLE 3-5

Comparison of Duplicate Sample Results for 2012, 2013, and 2014

Omega Chemical Superfund Site

				PCE		TCE		1,1-DCE		cis-1,2-DCE		1,1-DCA		1,2-DCA		Freon 113		Freon 11		Chloroform		1,4-Dioxane		Cr+6		Cr	
Location	**Event**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
MW27D	2012_1Q	03/14/12	N	**0.52**		**24**		**23**		**6.6**	**J**	**1.4**		**0.29**	**J**	0.5	U	0.5	U	0.5	U	**0.9**		--		--	
	2012_1Q	03/14/12	FD	**0.5**		**25**		**24**		**6.7**	**J**	**1.5**		**0.27**	**J**	0.5	U	0.5	U	0.5	U	**1.7**		--		--	
	2012_3Q	10/03/12	N	**0.27**	**J**	**28**	**J**	**22**		**9.1**		**1.6**		0.5	U	0.5	U	0.5	U	0.5	U	**2.1**		--		--	
	2012_3Q	10/03/12	FD	**0.31**	**J**	**28**	**J**	**22**		**8.9**		**1.7**		0.5	U	0.5	U	0.5	U	0.5	U	**1.9**		--		--	
MW28	2012_1Q	03/19/12	N	**0.85**		**2**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**2.2**		--		--	
	2012_1Q	03/19/12	FD	**0.86**		**2**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**2.3**		--		--	
MW32	2014_4Q	10/28/14	N	**46**		**37**		**40**	**J**	**19**	**J**	**8**	**J**	**1.2**		**8**		**3.8**		**1.9**	**J**	**7.7**		**4.44**	**J+**	**3.6**	
	2014_4Q	10/28/14	FD	**46**		**41**		**36**	**J**	**19**	**J**	**8.5**	**J**	**1.3**		**9.1**		**4.2**		**2**	**J**	**7.6**		**3.8**	**J+**	**3**	
OW4A	2012_1Q	02/22/12	SS	**17**		**1.6**		**10**	**J**	0.5	U	0.5	U	0.5	UJ	**38**	**J**	**23**	**J**	**0.41**	**J**	**0.17**	J	--		--	
	2012_1Q	02/22/12	FD	**17**		**1.7**		**11**	**J**	0.5	U	0.5	U	0.5	U	**28**		**18**		**0.43**	**J**	**0.17**	J	--		--	
OPOG Samples																											
OW3A	2012_1Q	02/22/12	N	**500**		**60**		**140**		10	U	10	U	10	U	**17**	**J**	**12**		**20**		**6**		--		--	
	2012_1Q	02/22/12	FD	**450**		**54**		**120**		**1.6**	**J**	5	U	5	U	**14**	**J**	**9.4**		**17**		**5.3**		--		--	
OW4A	2013_1Q	02/27/13	N	**18**		**1.9**		**19**		1	U	1	U	1	U	**43**		**28**		**0.86**	**J**	**0.66**	J	--		--	
	2013_1Q	02/27/13	FD	**19**		**2**		**21**		1	U	1	U	1	U	**45**		**29**		**0.88**	**J**	**0.5**	J	--		--	
	2013_3Q	08/20/13	N	**8.5**		**1.1**		**8.3**		1	U	1	U	1	U	**30**		**11**		**0.6**		**0.16**		--		--	
	2013_3Q	08/20/13	FD	**8.5**		**1.2**		**8.8**		1	U	1	U	1	U	**33**		**14**		**0.66**		**0.17**		--		--	
	2014_1Q	02/19/14	N	**4.2**		**1.1**		**3.1**		1	U	1	U	1	U	**13**		**8.1**		**1.2**		**0.1**	J	--		--	
	2014_1Q	02/19/14	FD	**4.4**		**1.1**		**3.3**		1	U	1	U	1	U	**14**		**7.1**		**0.99**	**J**	**0.1**	J	--		--	
OW4B	2012_3Q	08/22/12	N	**3.8**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	0.48	U	--		--	
	2012_3Q	08/22/12	FD	**3.5**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	**0.73**		--		--	
	2014_4Q	08/12/14	N	**2**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.5	U	0.25	U	0.25	U	0.096	UJ	--		--	
	2014_4Q	08/12/14	FD	**2.1**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.5	U	0.25	U	0.25	U	0.095	UJ	--		--	
OW7	2013_1Q	02/28/13	N	**8.2**		1	U	1	U	1	U	1	U	1	U	**1.3**	**J**	**1.5**		1	U	**0.12**	J	--		--	
	2013_1Q	02/28/13	FD	**9.1**		1	U	1	U	1	U	1	U	1	U	**1.5**	**J**	**1.5**		1	U	0.95	UJ	--		--	
	2013_3Q	08/20/13	N	**8**		1	U	1	U	1	U	1	U	1	U	**1.2**		**0.95**		1	U	0.48	U	--		--	
	2013_3Q	08/20/13	FD	**8.1**		1	U	1	U	1	U	1	U	1	U	**1.1**		**0.93**		1	U	0.47	U	--		--	
	2014_1Q	02/17/14	N	**5.8**		1	U	1	U	1	U	1	U	1	U	**0.53**	**J**	**0.58**	**J**	1	U	0.47	U	--		--	
	2014_1Q	02/17/14	FD	**5.8**		1	U	1	U	1	U	1	U	1	U	**0.55**	**J**	**0.6**	**J**	1	U	0.47	U	--		--	
OW8B	2014_4Q	08/11/14	N	**15**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.5	U	0.25	U	0.25	U	0.094	UJ	--		--	
	2014_4Q	08/11/14	FD	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.5	U	0.25	U	0.25	U	0.096	UJ	--		--	
OW9	2012_1Q	02/21/12	N	**9000**		**440**		**660**		20	U	20	U	**95**		**520**		**190**		**490**		**520**		--		--	
	2012_1Q	02/21/12	FD	**9600**		**450**		**680**		20	U	20	U	**110**		**530**		**200**		**500**		**540**		--		--	
	2012_3Q	08/21/12	N	**4500**		**220**		**330**		10	U	**5.7**	**J**	**48**		**350**		**130**		**200**		**260**		--		--	
	2012_3Q	08/21/12	FD	**4000**		**220**		**360**		**3.2**	**J**	**7.9**	**J**	**47**		**290**		**120**		**230**		0.47	U	--		--	
	2014_4Q	08/13/14	N	**16000**		**720**		**1000**		10	U	**29**	**J**	**190**		**400**		230	UJ	**880**		**960**		--		--	
	2014_4Q	08/13/14	FD	**17000**		**750**		**1100**		10	U	**32**	**J**	**190**		**490**		260	UJ	**910**		**1000**		--		--	

TABLE 3-5

Comparison of Duplicate Sample Results for 2012, 2013, and 2014

Omega Chemical Superfund Site

Location	Event	Date	Type	PCE Result	PCE Q	TCE Result	TCE Q	1,1-DCE Result	1,1-DCE Q	cis-1,2-DCE Result	cis-1,2-DCE Q	1,1-DCA Result	1,1-DCA Q	1,2-DCA Result	1,2-DCA Q	Freon 113 Result	Freon 113 Q	Freon 11 Result	Freon 11 Q	Chloroform Result	Chloroform Q	1,4-Dioxane Result	1,4-Dioxane Q	Cr+6 Result	Cr+6 Q	Cr Result	Cr Q
OW10	2014_4Q	08/12/14	N	**63**		**4.9**		**58**		0.25	U	0.25	U	0.25	U	**7.2**		8.2	UJ	0.25	U	0.095	UJ	--		--	
	2014_4Q	08/12/14	FD	**65**		**5.1**		**59**		0.25	U	0.25	U	0.25	U	**7**		8.2	UJ	0.25	U	0.096	UJ	--		--	
OW12	2014_1Q	02/20/14	N	**4100**		**300**		**180**		10	U	10	U	**12**		**2200**		**82**		**220**		**44**		--		--	
	2014_1Q	02/20/14	FD	**4100**		**310**		**190**		10	U	10	U	**13**		**2300**		**79**		**230**		**48**		--		--	
Relative Percent Difference (%)																											
MW4A	2014_4Q	10/15/14	N-FD	10.5		6.5		*		*		*		*		3.8		11.0		*		13.3		1.3		3.0	
MW4B	2013_3Q	08/15/13	N-FD	6.3		3.5		-		14.3		*		1.7		11.3		2.1		-		5.5		6.1		n/a	
MW8D	2012_1Q	03/20/12	N-FD	10.3		7.8		-		4.3		*		*		-		4.9		12.8		3.9		n/a		n/a	
MW14	2012_3Q	09/28/12	N-FD	17.7		8.7		23.3		14.3		*		3.6		19.7		-		9.5		11.5		n/a		n/a	
	2014_4Q	10/24/14	N-FD	3.8		4.3		-		**		*		*		4.4		-		*		7.4		3.7		1.6	
MW16B	2012_1Q	03/15/12	N-FD	3.5		4.2		-		9.4		*		*		7.4		-		5.4		6.1		n/a		n/a	
	2012_3Q	10/08/12	N-FD	2.8		-		7.4		5.1		**		**		11.0		9.5		3.5		12.5		n/a		n/a	
MW17B	2014_4Q	10/16/14	N-FD	8.0		-		14.3		6.5		5.9		8.8		9.5		6.1		9.5		3.3		2.2		-	
MW17C	2012_3Q	10/09/12	N-FD	-		1.2		*		*		*		*		*		*		*		*		n/a		n/a	
MW21	2012_3Q	10/01/12	N-FD	5.7		-		**		*		*		*		*		*		-		-		n/a		n/a	
MW22	2013_3Q	08/22/13	N-FD	-		-		6.9		*		*		*		*		*		-		25.2		2.3		n/a	
MW23B	2013_3Q	08/19/13	N-FD	7.8		7.1		8.0		8.7		12.5		11.8		9.5		16.7		10.3		13.3		11.6		n/a	
MW23C	2012_1Q	03/23/12	N-FD	3.8		-		6.9		6.3		6.7		4.9		10.0		16.0		4.7		14.7		n/a		n/a	
MW23D	2012_3Q	09/26/12	N-FD	6.1		-		6.1		*		*		*		-		7.4		2.9		*		n/a		n/a	
MW24D	2012_1Q	03/22/12	N-FD	*		*		*		*		*		*		*		*		*		27.1		n/a		n/a	
MW25A	2014_4Q	10/21/14	N-FD	7.4		4.1		2.4		3.2		*		**		1.7		3.4		-		6.9		1.6		-	
MW25C	2013_3Q	08/21/13	N-FD	9.3		5.7		3.9		*		*		*		14.3		-		*		*		**		n/a	
MW26B	2013_3Q	08/23/13	N-FD	6.9		-		3.3		1.8		-		8.7		3.9		3.0		8.7		4.0		0.6		n/a	
MW27A	2013_3Q	08/26/13	N-FD	-		-		3.2		-		-		-		2.8		2.0		-		16.4		*		n/a	
MW27D	2012_1Q	03/14/12	N-FD	3.9		4.1		4.3		1.5		6.9		7.1		*		*		*		61.5		n/a		n/a	
	2012_3Q	10/03/12	N-FD	13.8		-		-		2.2		6.1		*		*		*		*		10.0		n/a		n/a	
MW28	2012_1Q	03/19/12	N-FD	1.2		-		*		*		*		*		*		*		*		4.4		n/a		n/a	
MW32	2014_4Q	10/28/14	N-FD	-		10.3		10.5		-		6.1		8.0		12.9		10.0		5.1		1.3		15.5		18.2	
OW4A	2012_1Q	02/22/12	N-FD	-		6.1		9.5		*		*		*		30.3		24.4		4.8		-		n/a		n/a	
MAX				17.7		10.3		23.3		14.3		12.5		11.8		30.3		24.4		12.8		61.5		15.5		18.2	
OPOG Samples																											
OW3A	2012_1Q	02/22/12	N-FD	10.5		10.5		15.4		**		*		*		19.4		24.3		16.2		12.4		n/a		n/a	
OW4A	2013_1Q	02/27/13	N-FD	5.4		5.1		10.0		*		*		*		4.5		3.5		2.3		27.6		n/a		n/a	
	2013_3Q	08/20/13	N-FD	0.0		8.7		5.8		*		*		*		9.5		24.0		9.5		6.1		n/a		n/a	
	2014_1Q	02/19/14	N-FD	4.7		0.0		6.2		*		*		*		7.4		13.2		19.2		0.0		n/a		n/a	
OW4B	2012_3Q	08/22/12	N-FD	8.2		*		*		*		*		*		*		*		*		**		n/a		n/a	
	2014_4Q	08/12/14	N-FD	4.9		*		*		*		*		*		*		*		*		*		n/a		n/a	

TABLE 3-5

Comparison of Duplicate Sample Results for 2012, 2013, and 2014

Omega Chemical Superfund Site

				PCE		TCE		1,1-DCE		cis-1,2-DCE		1,1-DCA		1,2-DCA		Freon 113		Freon 11		Chloroform		1,4-Dioxane		Cr+6		Cr	
Location	**Event**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
OW7	2013_1Q	02/28/13	N-FD	10.4		*		*		*		*		*		14.3		0.0		*		**		n/a		n/a	
	2013_3Q	08/20/13	N-FD	1.2		*		*		*		*		*		8.7		2.1		*		*		n/a		n/a	
	2014_1Q	02/17/14	N-FD	0.0		*		*		*		*		*		3.7		3.4		*		*		n/a		n/a	
OW8B	2014_4Q	08/11/14	N-FD	**		*		*		*		*		*		*		*		*		*		n/a		n/a	
OW9	2012_1Q	02/21/12	N-FD	6.5		2.2		3.0		*		*		14.6		1.9		5.1		2.0		3.8		n/a		n/a	
	2012_3Q	08/21/12	N-FD	11.8		0.0		8.7		**		32.4		2.1		18.8		8.0		14.0		**		n/a		n/a	
	2014_4Q	08/13/14	N-FD	6.1		4.1		9.5		*		9.8		0.0		20.2		12.2		3.4		4.1		n/a		n/a	
OW10	2014_4Q	08/12/14	N-FD	3.1		4.0		1.7		*		*		*		2.8		*		*		*		n/a		n/a	
OW12	2014_1Q	02/20/14	N-FD	0.0		3.3		5.4		*		*		8.0		4.4		3.7		4.4		8.7		n/a		n/a	
MAX				11.8		10.5		15.4		-		32.4		14.6		20.2		24.3		19.2		27.6		-		-	

Notes:

Detected values are **bolded**

µg/L = micrograms per liter

1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-Dichloroethene
1,2-DCA	1,2-dichloroethane
cis-1,2-DCE	cis-1,2-dichloroethene
Cr	chromium
Cr+6	hexavalent chromium
FD	field duplicate
Freon 11	trichlorofluoromethane
Freon 113	1,1,2-trichloro-1,2,2-trifluoroethane
N	primary sample
PCE	tetrachloroethene
SS	split sample
TCE	trichloroethene
RPD (%)	relative percent difference (RPD) = (A-B)/((A+B)/2)*100
	* Nondetect to nondetect (no calculation)
	** Detect to nondetect (no calculation)

Data Qualifiers (Q):

J = Analyte was detected below the quantitation limit; the reported value is estimated.

J+ = Analyte was detected below the quantitation limit and likely to be high bias; the reported value is estimated.

J- = Analyte was detected below the quantitation limit and likely to be low bias; the reported value is estimated.

UJ = Analyte was not detected; however, the quantitation limit was estimated because of discrepancies in meeting certain analyte-specific QC criteria.

R = Data were rejected because of deficiencies in meeting QC criteria.

U = Analyte was analyzed for but not detected, or was qualified as not detected because of blank contamination.

TABLE 3-6

Comparison of OU-1 and OU-2 Split Sampling Analytical Results for 2012 and 203

Omega Chemical Superfund Site

					PCE		TCE		1,1-DCE		cis-1,2-DCE		1,1-DCA		1,2-DCA		Freon 113		Freon 11		Chloroform		1,4-Dioxane	
Location	**Entity**	**Quarter**	**Date**	**Type**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
OW3A	EPA	2012_1Q	02/22/12	SS	**380**		**46**		**100**		**0.73**	**J**	**1.2**	**J**	2	U	**12**		**7.7**		**14**		**4.7**	
OW3A	OPOG	2012_1Q	02/22/12	N	**500**		**60**		**140**		10	U	10	U	10	U	**17**	**J**	**12**		**20**		**6**	
OW3B	EPA	2012_1Q	02/22/12	SS	**3.7**		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
OW3B	OPOG	2012_1Q	02/22/12	N	**4.2**		1	U	1	U	1	U	1	U	1	U	5	U	1	U	1	U	**0.081**	J
OW4A	EPA	2012_1Q	02/22/12	SS	**17**		**1.6**		**10**	**J**	0.5	U	0.5	U	0.5	UJ	**38**	**J**	**23**	**J**	**0.41**	**J**	**0.17**	J
OW4A	OPOG	2012_1Q	02/22/12	N	**18**		**1.6**		**10**		1	U	1	U	1	U	**32**		**23**		**0.48**	**J**	**0.21**	J
OW7	EPA	2013_3Q	08/20/13	SS	**9.7**		0.5	U	**0.13**	**J**	0.5	U	0.5	U	0.5	U	**1.1**		**1.2**		0.5	U	**0.11**	J
OW7	OPOG	2013_3Q	08/20/13	N	**8**		1	U	1	U	1	U	1	U	1	U	**1.2**		**0.95**		1	U	0.48	U
OW10	EPA	2013_3Q	08/21/13	SS	**59**		**5.8**		**82**	**J**	0.5	U	0.5	U	0.5	U	**9.8**		**10**		**0.28**	**J**	**0.14**	J
OW10	OPOG	2013_3Q	08/21/13	N	**55**		**5.2**		**37**		1	U	1	U	1	U	**9.2**		**9.7**		1	U	**0.15**	
OW11	EPA	2013_3Q	08/22/13	SS	**1,400**		**190**		**440**	**J**	2.5	UJ	**1.8**	**J**	2.5	U	**410**		**150**		**7.8**		0.5	U
OW11	OPOG	2013_3Q	08/22/13	N	**1,300**		**170**		**380**		2.5	U	**1.4**		2.5	U	**350**		**140**		**7.4**		**0.27**	
Relative Percent Difference (%)																								
OW3A	EPA	2012_1Q	02/22/12	SS	27.3		26.4		33.3		**		**		*		34.5		43.7		35.3		24.3	
OW3B	EPA	2012_1Q	02/22/12	SS	12.7		*		*		*		*		*		*		*		*		**	
OW4A	EPA	2012_1Q	02/22/12	SS	5.7		0.0		0.0		*		*		*		17.1		0.0		15.7		21.1	
OW7	EPA	2013_3Q	08/20/13	SS	19.2		*		**		*		*		*		8.7		23.3		*		**	
OW10	EPA	2013_3Q	08/21/13	SS	7.0		10.9		75.6		*		*		*		6.3		3.0		**		6.9	
OW11	EPA	2013_3Q	08/22/13	SS	7.4		11.1		14.6		*		25.0		*		15.8		6.9		5.3		**	
MAX					27.3		26.4		75.6		n/a		25.0		n/a		34.5		43.7		35.3		24.3	

Notes:

Detected values are **bolded**

µg/L = micrograms per liter

1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
1,2-DCA	1,2-dichloroethane
cis-1,2-DCE	cis-1,2-dichloroethene
Cr	chromium
Cr+6	hexavalent chromium
FD	field duplicate
Freon 11	trichlorofluoromethane
Freon 113	1,1,2-trichloro-1,2,2-trifluoroethane
N	primary sample
OPOG	Omega Chemical Site Potentially Responsible Party (PRP) Organized Group
OU	operable unit
PCE	tetrachloroethene
SS	split sample
TCE	trichloroethene
RPD (%)	relative percent difference (RPD) = (A-B)/((A+B)/2)*100
	* Nondetect to nondetect (no calculation)
	** Detect to nondetect (no calculation)

Data Qualifiers (Q):

J = Analyte was detected below the quantitation limit; the reported value is estimated.

J+ = Analyte was detected below the quantitation limit and likely to be high bias; the reported value is estimated.

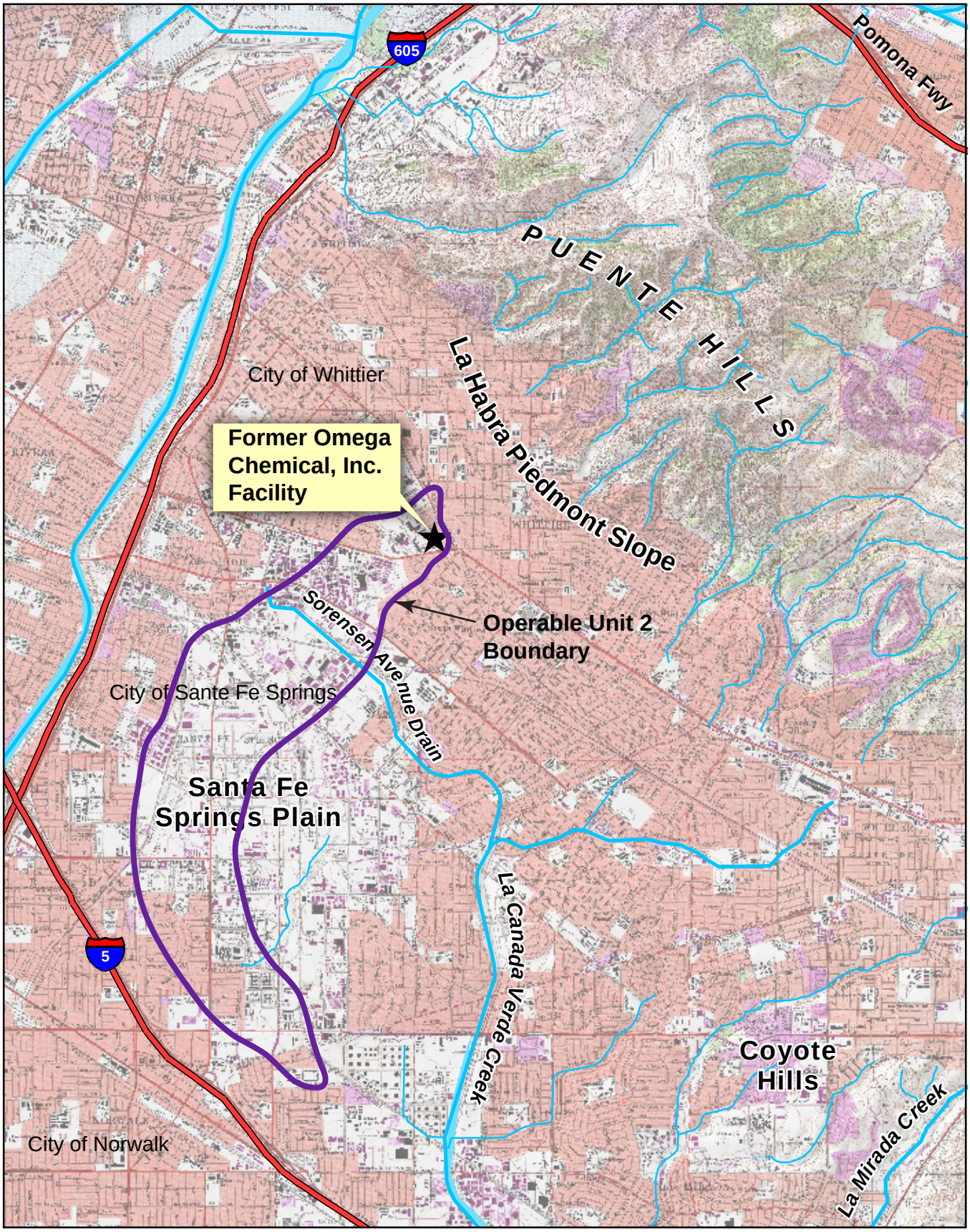
J- = Analyte was detected below the quantitation limit and likely to be low bias; the reported value is estimated.

UJ = Analyte was not detected; however, the quantitation limit was estimated because of discrepancies in meeting certain analyte-specific QC criteria.

R = Data were rejected because of deficiencies in meeting QC criteria.

U = Analyte was analyzed for but not detected, or was qualified as not detected because of blank contamination.

Figures



N

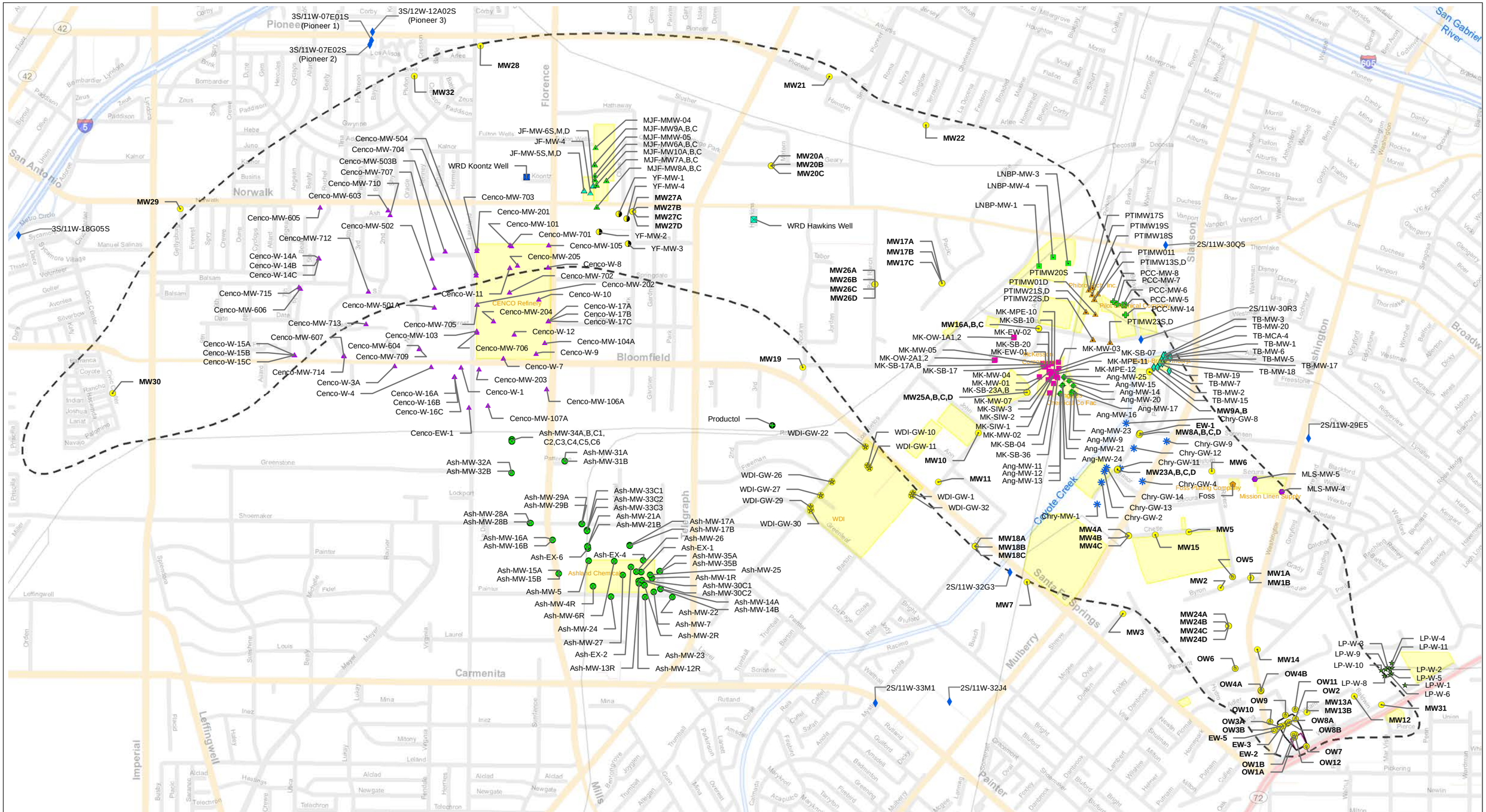
0.5 0 0.5

Miles

Operable Unit 2 Boundary is from the 2011 Interim Record of Decision for OU2

Figure 1-1
Facility Location Map
Omega Chemical Superfund Site

CH2MHILL



Legend

- Angeles Chemical Well
- Ashland Well
- Cenco Well
- Chrysler Well
- Continental Heat Well
- EPA Monitoring Well
- Foss Plating Well
- Leggett Platt Well
- Los Nietos Well
- McKesson Well
- Mission Linen Well
- Mobile Well
- Omega Potentially Responsible Parties Organized Group (OPOG) Monitoring Well
- PhibroTech
- Pilot Chemical Well
- Productol Well
- Technibraze Well
- Waste Disposal, Inc Well
- Yellow Freight Well
- WRD Hawkins Well
- WRD Koontz Well
- ProductionWells
- OU1 Boundary
- OU2 Boundary
- Approximate Boundary of Facilities
- Former Omega Facility

Note:
OU1 boundary is from the 2008 ROD and OU2 boundary is from the 2011 Interim ROD

N

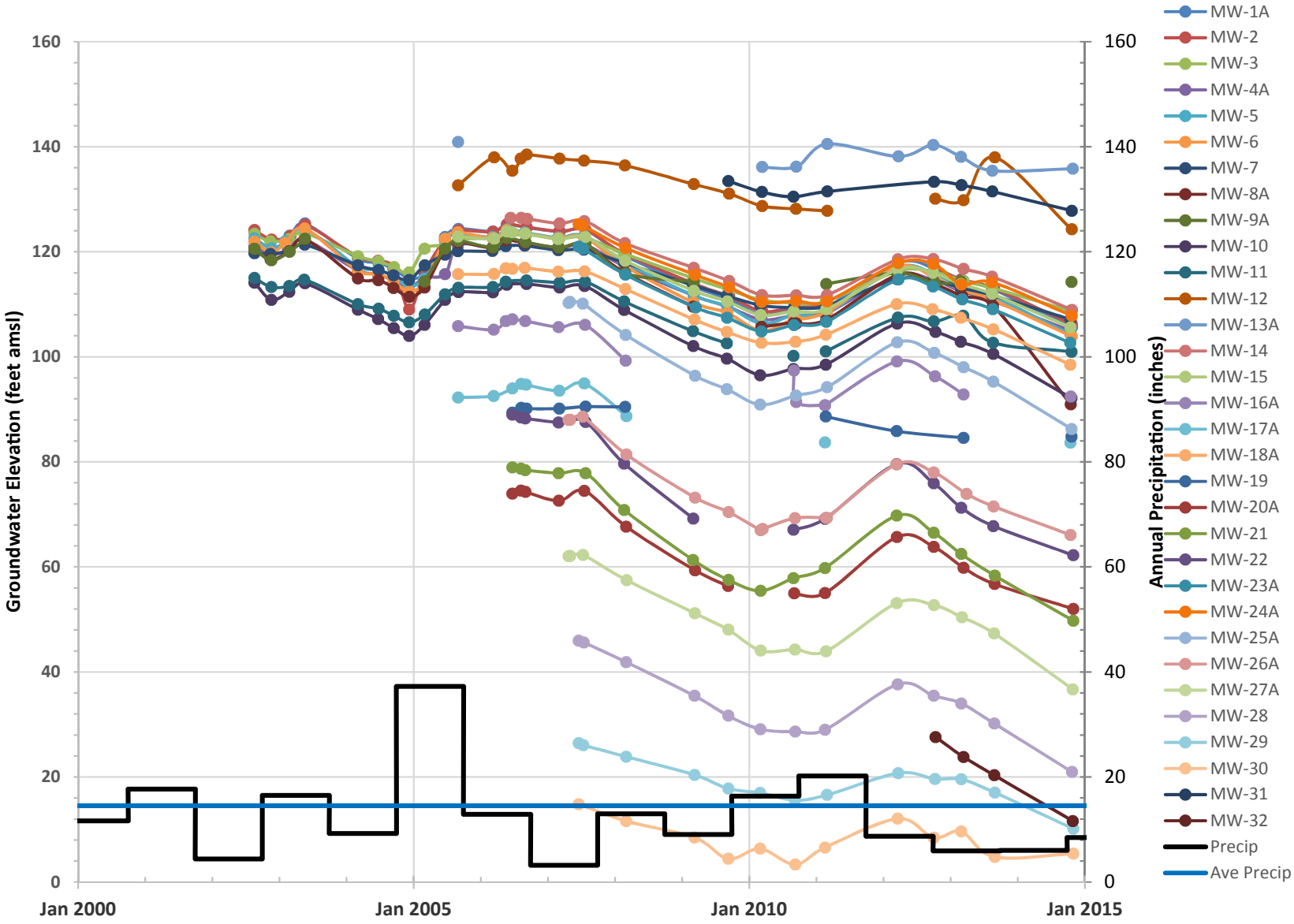
0 750 1,500
Feet

Figure 1-2
Monitoring Well Locations

Omega Chemical Superfund Site

CH2MHILL

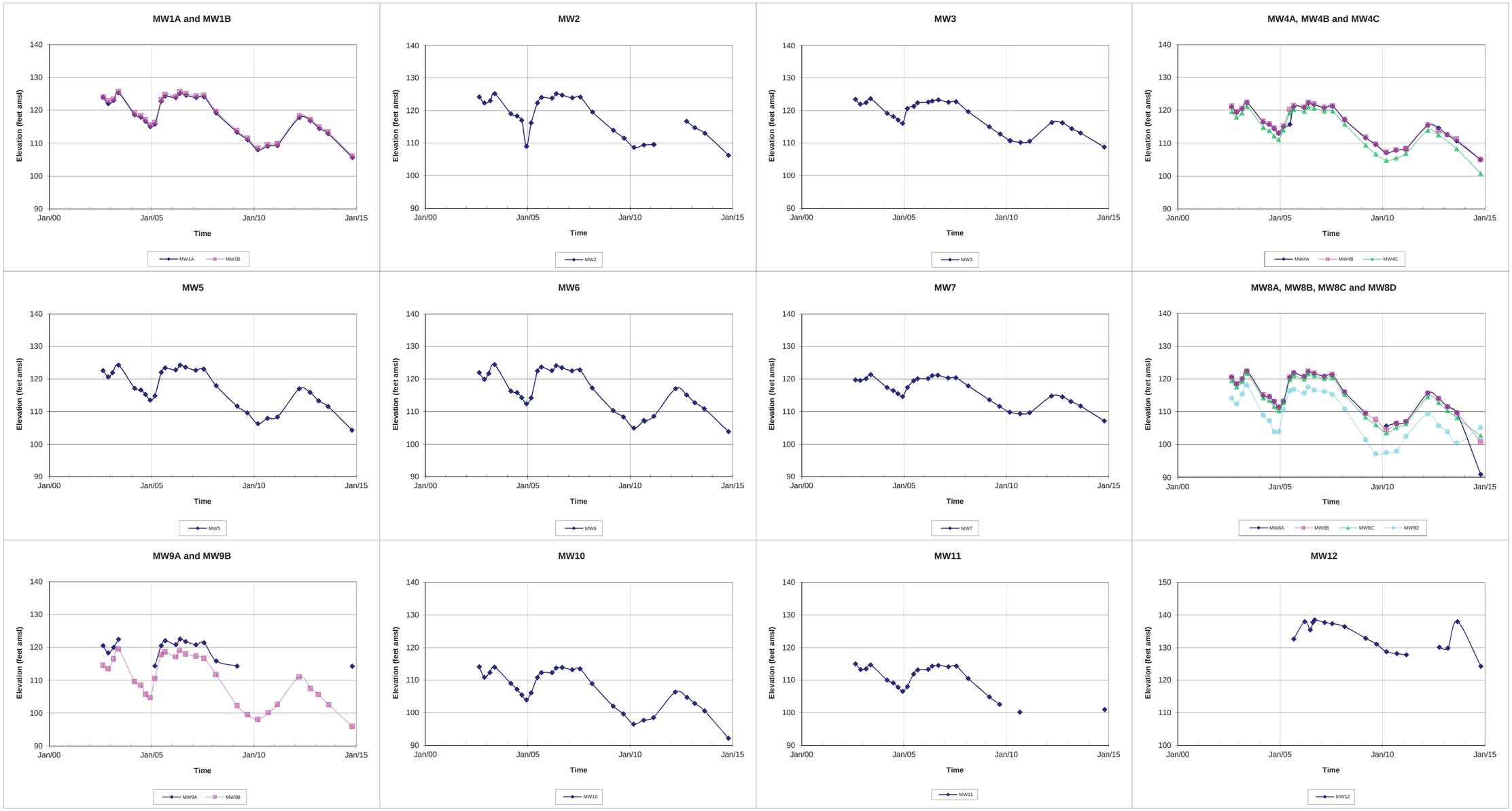
Path: C:\Users\dbutler5\Documents\GIS\Omega\Maps\Figure_1-2_Monitoring_Well_Locations_072615.mxd



Precipitation Source: Los Angeles Downtown, USC Campus, CA. Average: 14.5 inches (1876 - 2014)
amsl - above mean sea level

FIGURE 3-1
Water Table Hydrograph
Omega Chemical Superfund Site

CH2MHILL



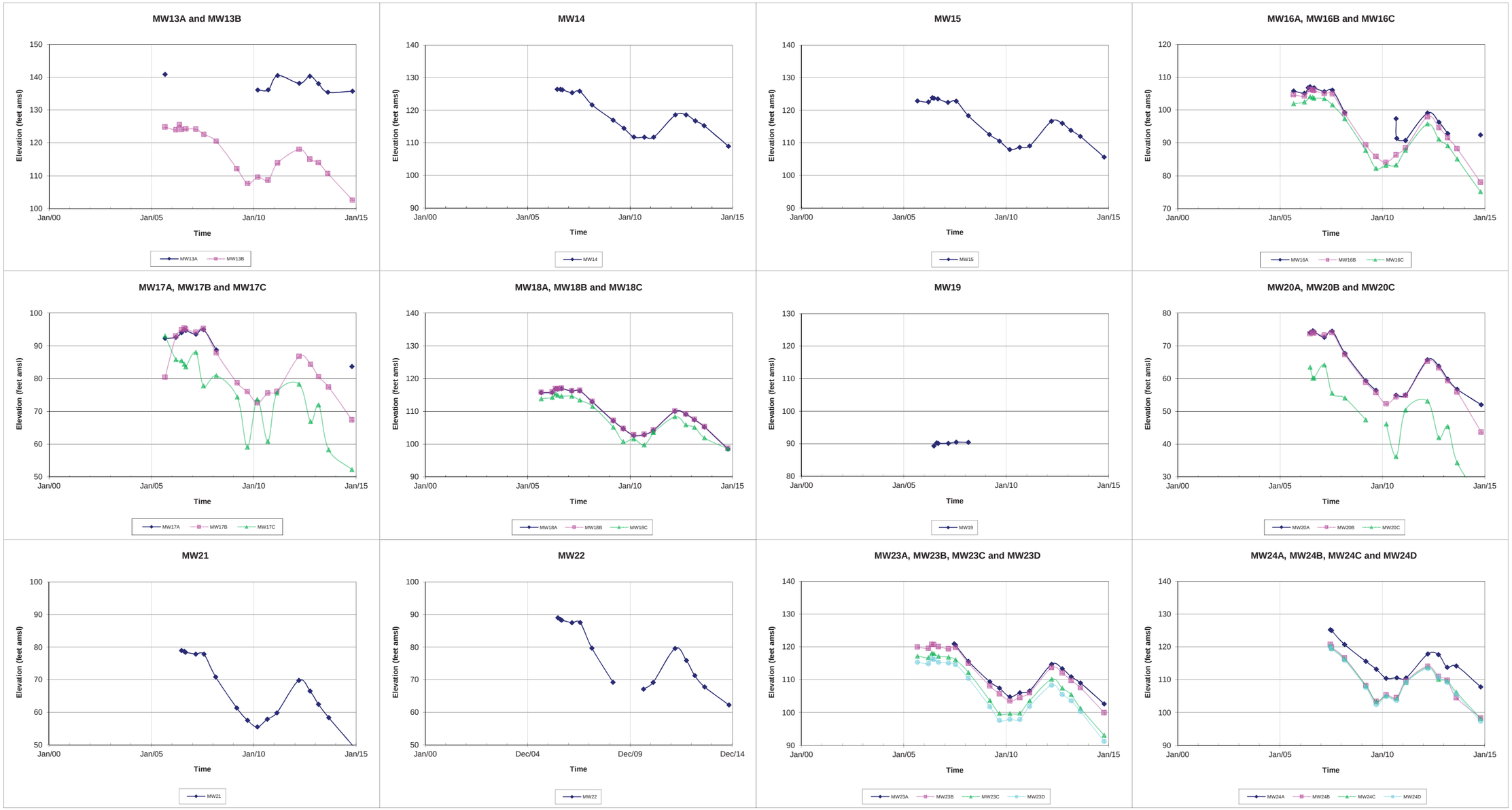
Notes:

Elevations are in feet above mean sea level (amsl).

If the well was dry, an unfilled symbol is used at the elevation of the bottom of the well screen.

FIGURE 3-2a
Monitoring Well Hydrographs
Omega Chemical Superfund Site

CH2MHILL.



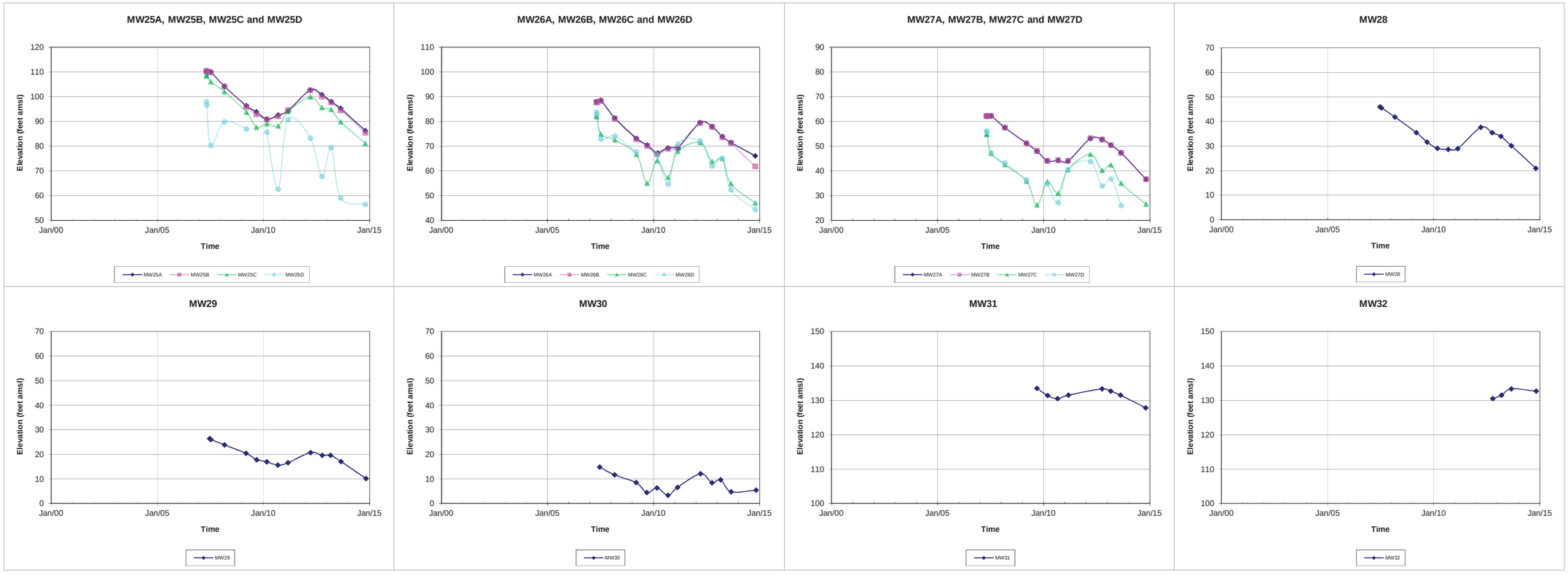
Notes:

Elevations are in feet above mean sea level (amsl).

If the well was dry, an unfilled symbol is used at the elevation of the bottom of the well screen.

FIGURE 3-2b
Monitoring Well Hydrographs
Omega Chemical Superfund Site

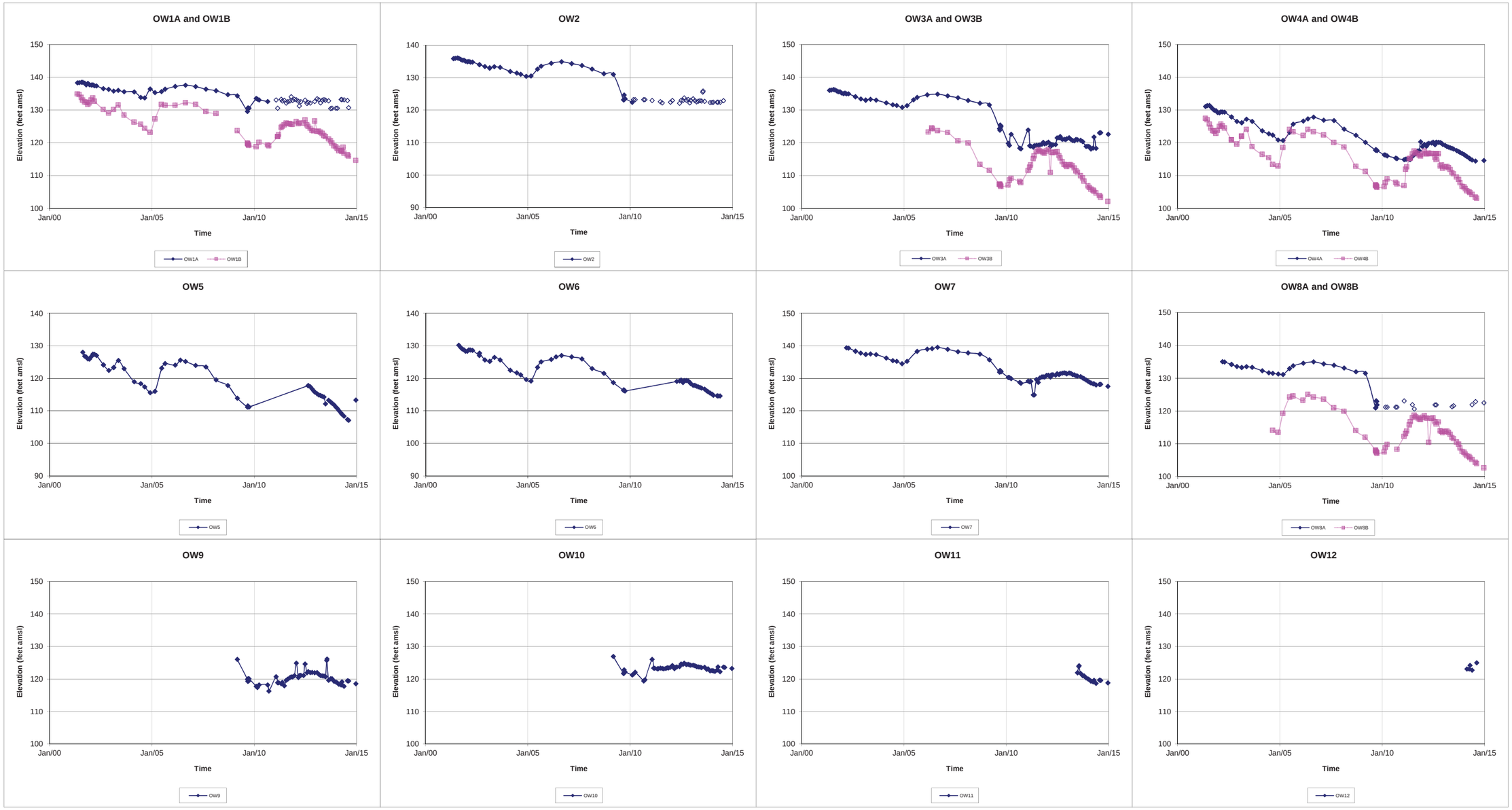
CH2MHILL



Notes:
Elevations are in feet above mean sea level (amsl).
If the well was dry, an unfilled symbol is used at the elevation of the bottom of the well screen.

FIGURE 3-2c
Monitoring Well Hydrographs
Omega Chemical Superfund Site

CH2MHILL



Notes:

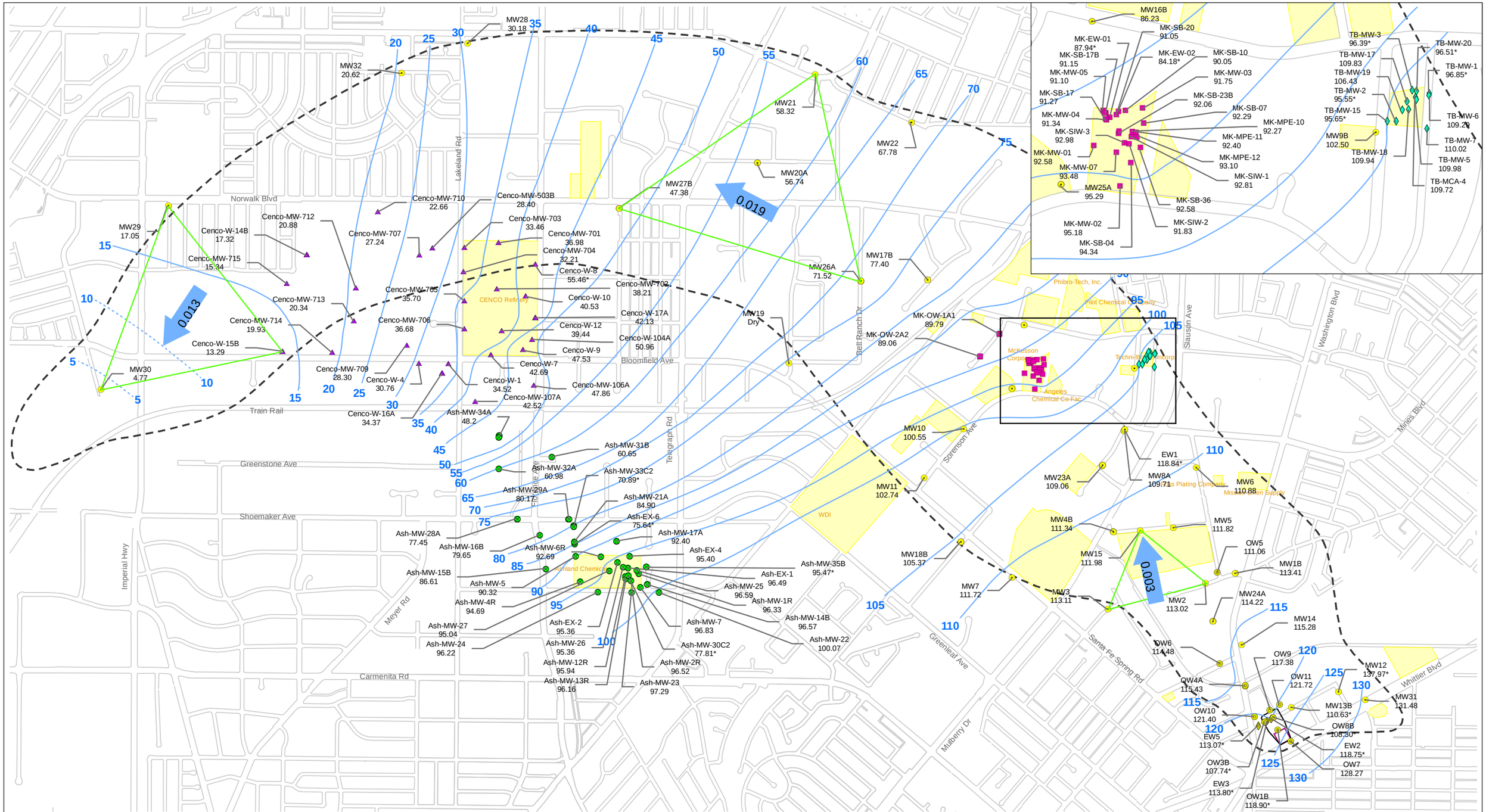
Elevations are in feet above mean sea level (amsl).

If the well was dry, an unfilled symbol is used at the elevation of the bottom of the well screen.

OW5 and OW6 were discontinued; therefore, no data are available for 2010 and 2011.

FIGURE 3-2d
Monitoring Well Hydrographs
Omega Chemical Superfund Site

CH2MHILL.



Legend

- Ashland Chemical Well
- CENCO Well
- EPA Monitoring Well
- McKesson Well
- Omega Potentially Responsible Parties Organized Group (OPOG) Monitoring Well
- Omega Potentially Responsible Parties Organized Group (OPOG) Extraction Well
- Technibraze Well
- Approximate Boundary of Facilities
- Former Omega Facility
- OU1 Boundary
- OU2 Boundary
- Water Table Contours (feet amsl), Third Quarter 2013 (dashed where approximate)

Note:
1) Posted values are measured water levels in feet above mean sea level (amsl).
2) * - Water level measurement not used to generate water table contours.
3) OU1 boundary is from the 2008 ROD and OU2 boundary is from the 2011 Interim ROD

N

0 500 1,000 2,000
Feet

Figure 3-3
Water Table Contours
Third Quarter 2013
Omega Chemical Superfund Site

CH2MHILL

Path: \\RIVFPP01\proj\EPA\424513OmegaAES10\MapFiles\draft_2015\Figure_3-3_3Q_2013_Water_Table_Contours_final.mxd

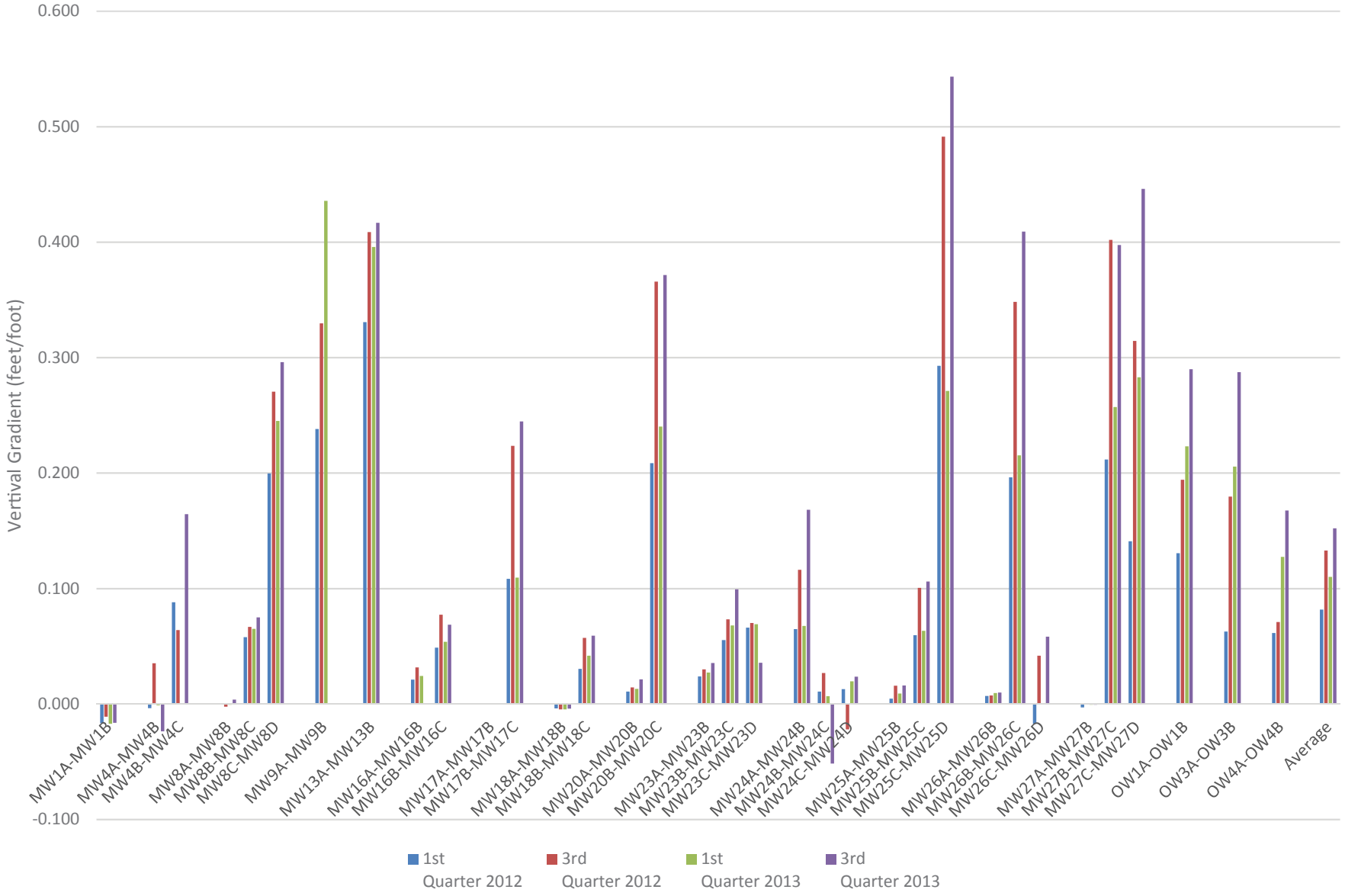
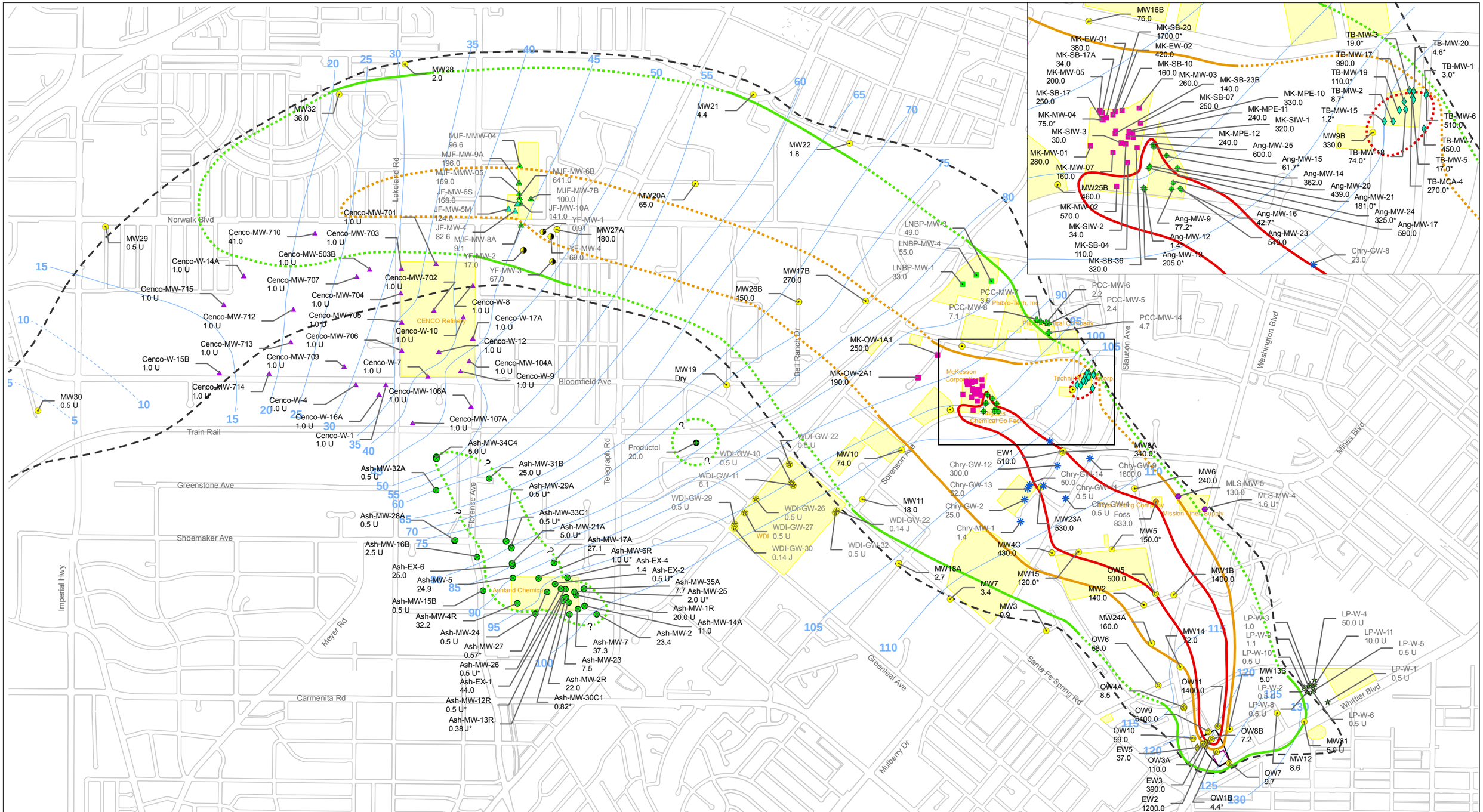


FIGURE 3-4
Vertical Groundwater Gradients for 2012 and 2013
Omega Chemical Superfund Site

CH2MHILL.



Legend

- Angeles Chemical Well (3Q 2013)
- Ashland Well (3Q 2013)
- Cenco Well (3Q 2013)
- Chrysler Well (2Q 1996)
- Continental Heat Well (4Q 2013)
- EPA Monitoring Well (3Q 2013)
- Foss Plating Well (2Q 2013)
- Leggett Platt Well (2Q 2013)
- Los Nietos Well (1Q 2013)
- McKesson Well (3Q 2013)
- Mission Linen Well (1Q 2013)
- Mobile Well (4Q 2013)
- Omega Potentially Responsible Parties Organized Group (OPOG) Monitoring Well (3Q 2013)
- Omega Potentially Responsible Parties Organized Group (OPOG) Extraction Well (3Q 2013)
- Pilot Chemical Well (4Q 2013)
- Productol Well (1Q 2007)
- Technibraze Well (3Q 2013)
- Waste Disposal, Inc Well (1Q 2014)
- Yellow Freight Well (2Q 2010)
- Approximate Boundary of Facilities
- Former Omega Facility
- OU1 Boundary
- OU2 Boundary
- Water Table Contours (feet amsl),Third Quarter 2013 (dashed where approximate)

Estimated Composite PCE Plume Extent

- 500 µg/L (Dashed where approximated)
- 100 µg/L (Dashed where approximated)
- 5 µg/L (Dashed where approximated)

Notes:

1) Posted values are measured concentrations in micrograms per liter (µg/L).
   1a) J - Estimated value.
   1b) U - Non-Detect as the concentration less than the posted value.
2) amsl - above mean sea level.
3) * - Measurement not used to generate contours.
4) The plume shown is a vertical composite over the depth interval of monitoring well screens, from the water table to 200 ft bgs.
5) Callouts in gray are not from 3Q 2013 and were given less weight when contouring
6) OU1 boundary is from the 2008 ROD and OU2 boundary is from the 2011 Interim ROD

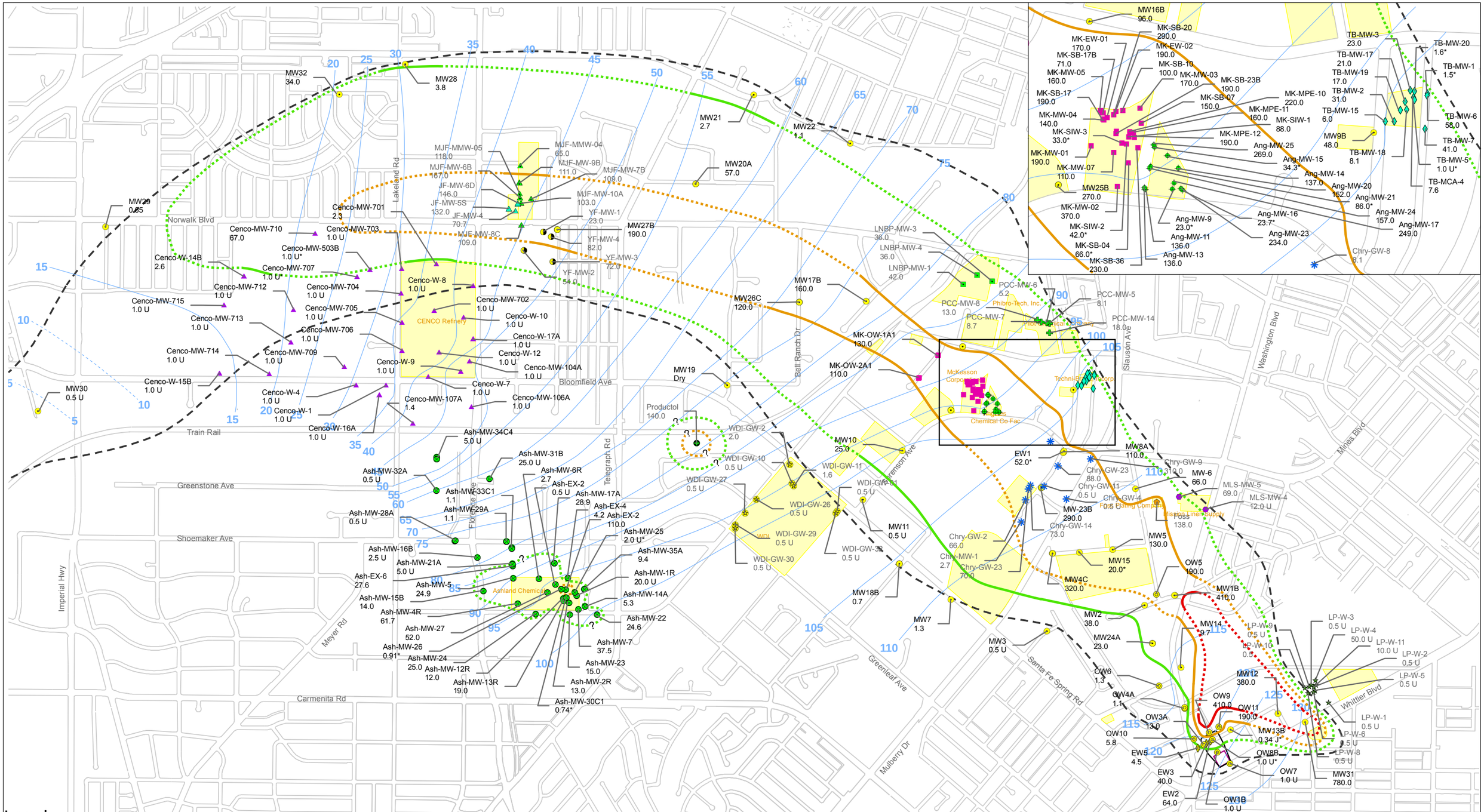
N

0 500 1,000 2,000 Feet

Figure 3-5a
Composite PCE Distribution
Third Quarter 2013
Omega Chemical Superfund Site

CH2MHILL

Path: \\RIVFPP01\Proj\EPA\424513OmegaAES10\MapFiles\draft_2015\Figure_3-5a_3Q_2013_PCE_Contours_final.mxd



Legend

- Angeles Chemical Well (3Q 2013)
- Ashland Well (3Q 2013)
- Cenco Well (3Q 2013)
- Chrysler Well (2Q 1996)
- Continental Heat Well (4Q 2013)
- EPA Monitoring Well (3Q 2013)
- Foss Plating Well (2Q 2013)
- Leggett Platt Well (2Q 2013)
- Los Nietos Well (1Q 2013)
- McKesson Well (3Q 2013)
- Mission Linen Well (1Q 2013)
- Mobile Well (4Q 2013)
- Omega Potentially Responsible Parties Organized Group (OPOG) Monitoring Well (3Q 2013)
- Omega Potentially Responsible Parties Organized Group (OPOG) Extraction Well (3Q 2013)
- Pilot Chemical Well (4Q 2013)
- Productol Well (1Q 2007)
- Technibraze Well (3Q 2013)
- Waste Disposal, Inc Well (1Q 2014)
- Yellow Freight Well (2Q 2010)
- Approximate Boundary of Facilities
- Former Omega Facility
- OU1 Boundary
- OU2 Boundary
- Water Table Contours (feet amsl), Third Quarter 2013 (dashed where approximate)

Estimated Composite TCE Plume Extent

- 500 µg/L (Dashed where approximated)
- 100 µg/L (Dashed where approximated)
- 5 µg/L (Dashed where approximated)

Notes:
1) Posted values are measured concentrations in micrograms per liter (µg/L).
1a) J - Estimated value.
1b) U - Non-Detect as the concentration less than the posted value.
2) amsl - above mean sea level.
3) * - Measurement not used to generate contours.
4) The plume shown is a vertical composite over the depth interval of monitoring well screens, from the water table to 200 ft bgs.
5) Callouts in gray are not from 3Q 2013 and were given less weight when contouring.
6) OU1 boundary is from the 2008 ROD and OU2 boundary is from the 2011 Interim ROD

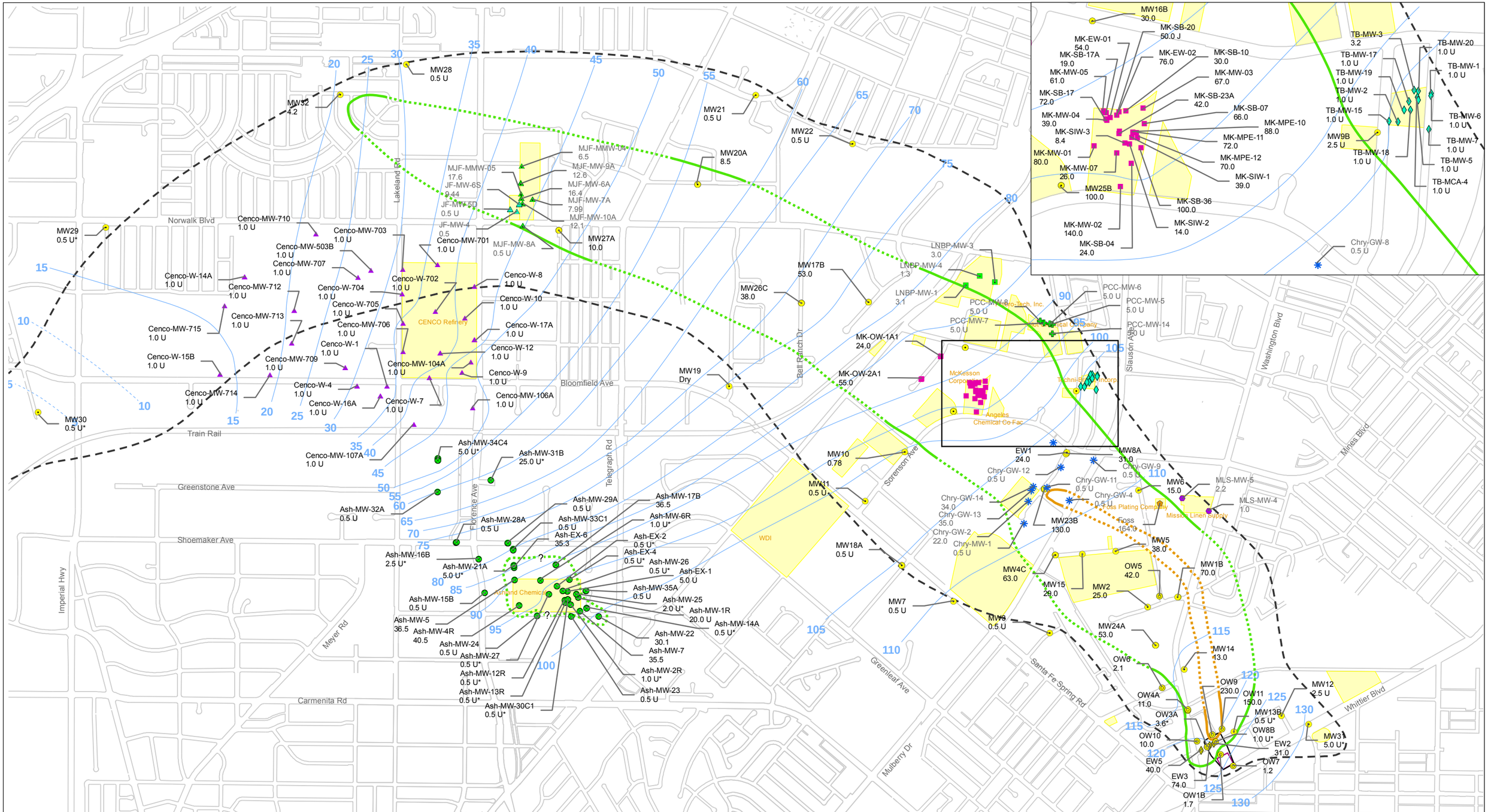
N

0 500 1,000 2,000 Feet

Figure 3-5b
Composite TCE Distribution
Third Quarter 2013
Omega Chemical Superfund Site

CH2MHILL

Path: \\RIVFPP01\Proj\EPA\424513OmegaAES10\MapFiles\draft_2015\Figure_3-5b_3Q_2013_TCE_Contours_final.mxd



Legend

- Ashland Chemical Well (3Q 2013)
- CENCO Well (3Q 2013)
- Chrysler Well (2Q 1996)
- Continental Heat Well (4Q 2013)
- EPA Monitoring Well (3Q 2013)
- Foss Plating Well (2Q 2013)
- Los Nietos Bus Park Well (1Q 2013)
- McKesson Well (3Q 2013)
- Mission Linen Well (3Q 2013)
- Mobile Well (4Q 2013)
- Omega Potentially Responsible Parties Organized Group (OPOG) Monitoring Well (3Q 2013)
- Omega Potentially Responsible Parties Organized Group (OPOG) Extraction Well (3Q 2013)
- Pilot Chemical Well (4Q 2013)
- Technibraze Well (3Q 2013)
- Approximate Boundary of Facilities
- Former Omega Facility
- OU1 Boundary
- OU2 Boundary

Estimated Composite Freon 11 Plume Extent

- 150 µg/L (Dashed where approximated)
- 5 µg/L (Dashed where approximated)

Water Table Contours (feet amsl), Third Quarter 2013 (dashed where approximate)

Notes:
1) Posted values are measured concentrations in micrograms per liter (µg/L).
1a) J - Estimated value.
1b) U - Non-Detect as the concentration less than the posted value.
2) amsl - above mean sea level.
3) * - Measurement not used to generate contours.
4) The plume shown is a vertical composite over the depth interval of monitoring well screens, from the water table to 200 ft bgs.
5) Callouts in gray are not from 3Q 2013 and were given less weight when contouring.
6) OU 1 boundary is from the 2008 ROD and OU 2 boundary is from the 2011 Interim ROD

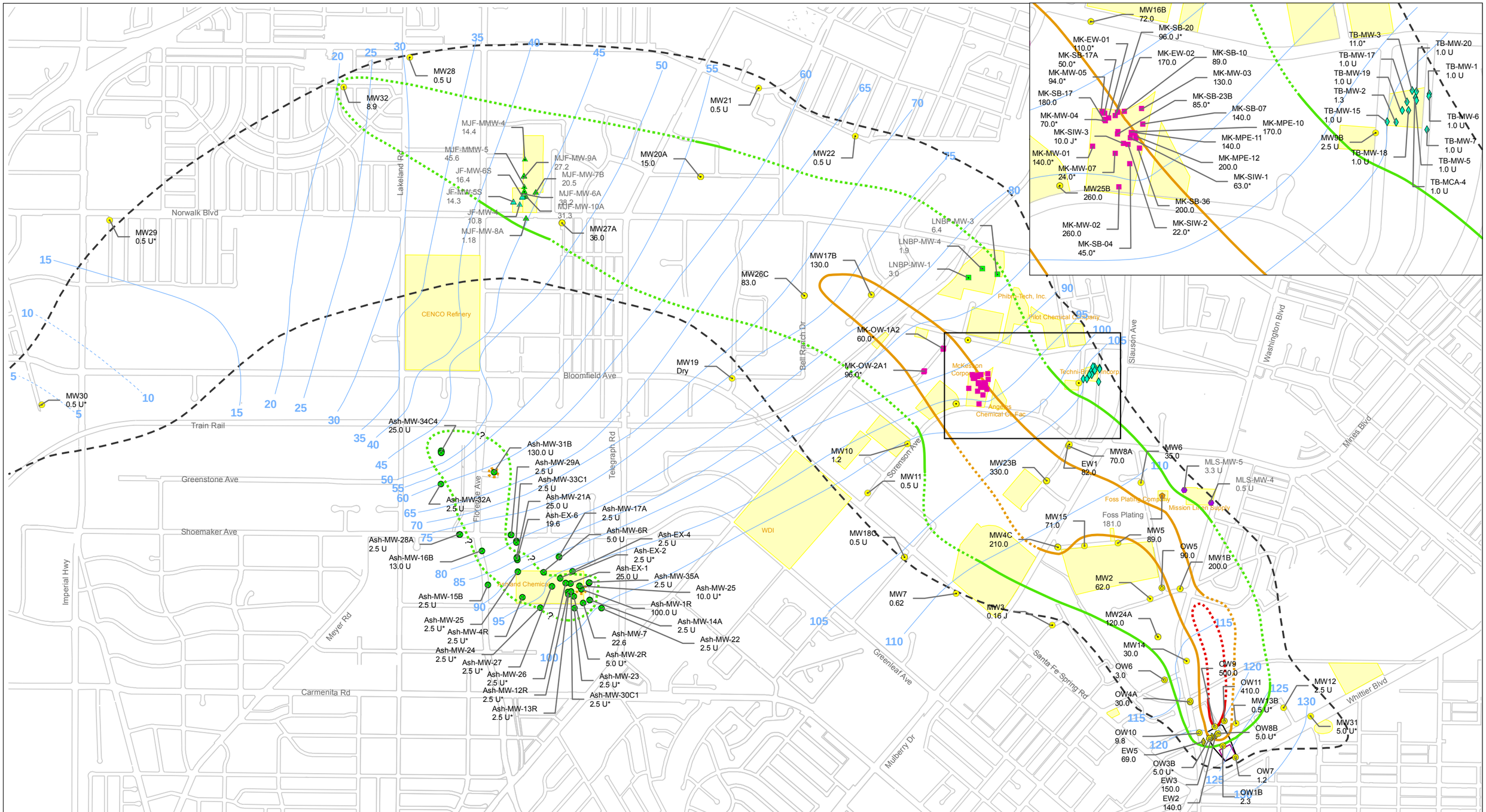
N

0 500 1,000 2,000 Feet

Figure 3-5c
Composite Freon 11 Distribution
Third Quarter 2013
Omega Chemical Superfund Site

CH2MHILL

Path: \\RIVFPP01\Proj\EPA\424513OmegaAES10\MapFiles\draft_2015\Figure_3-5c_3Q_2013_Freon_11_Contours_final.mxd



Legend

- Ashland Chemical Well (3Q 2013)
- Continental Heat Well (4Q 2013)
- EPA Monitoring Well (3Q 2013)
- Foss Plating Well (2Q 2013)
- Los Nietos Bus Park Well (1Q 2013)
- McKesson Well (3Q 2013)
- Mission Linen Well (1Q 2013)
- Mobile Well (4Q 2013)
- Omega Potentially Responsible Parties Organized Group (OPOG) Monitoring Well (3Q 2013)
- Omega Potentially Responsible Parties Organized Group (OPOG) Extraction Well (3Q 2013)
- Technibraze Well (3Q 2013)
- Approximate Boundary of Facilities
- Former Omega Facility
- OU1 Boundary
- OU2 Boundary
- Water Table Contours (feet amsl), Third Quarter 2013 (dashed where approximate)

Estimated Composite Freon 113 Plume Extent

- 500 µg/L (Dashed where approximated)
- 100 µg/L (Dashed where approximated)
- 5 µg/L (Dashed where approximated)

Notes:
1) Posted values are measured concentrations in micrograms per liter (µg/L).
1a) J - Estimated value.
1b) U - Non-Detect as the concentration less than the posted value.
2) amsl - above mean sea level.
3) * - Measurement not used to generate contours.
4) The plume shown is a vertical composite over the depth interval of monitoring well screens, from the water table to 200 ft bgs.
5) Callouts in gray are not from 3Q 2013 and were given less weight when contouring.
6) OU 1 boundary is from the 2008 ROD and OU 2 boundary is from the 2011 Interim ROD

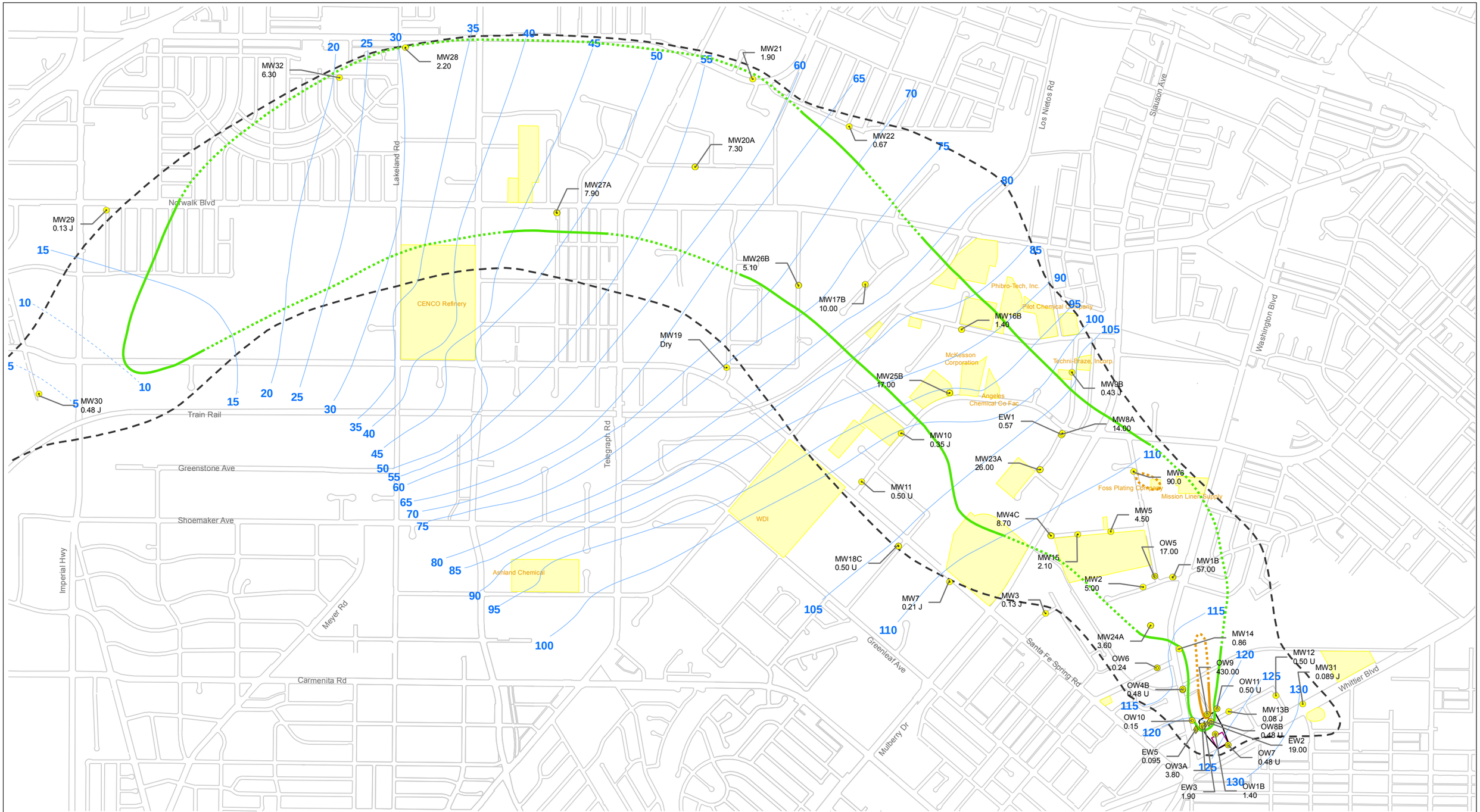
N

0 500 1,000 2,000 Feet

Figure 3-5d
Composite Freon 113 Distribution
Third Quarter 2013
Omega Chemical Superfund Site

CH2MHILL

Path: \\RIVFPP01\Proj\EPA\424513OmegaAES10\MapFiles\draft_2015\Figure_3-5d_3Q_2013_Freon_113_Contours_final.mxd



Legend

- EPA Monitoring Well (3Q 2013)
- Omega Potentially Responsible Parties Organized Group (OPOG) Monitoring Well (3Q 2013)
- Omega Potentially Responsible Parties Organized Group (OPOG) Extraction Well (3Q 2013)
- Approximate Boundary of Facilities
- Former Omega Facility
- OU1 Boundary
- OU2 Boundary
- Water Table Contours (feet amsl), Third Quarter 2013 (dashed where approximate)

Estimated Composite 1,4-Dioxane Plume Extent

- 100 µg/L (Dashed where approximated)
- 1 µg/L (Dashed where approximated)

Notes:
1) Posted values are measured concentrations in micrograms per liter (µg/L).
1a) J - Estimated value.
1b) U - Non-Detect as the concentration less than the posted value.
2) amsl - above mean sea level.
3) * - Measurement not used to generate contours.
4) The plume shown is a vertical composite over the depth interval of monitoring well screens, from the water table to 200 ft bgs.
5) Callouts in gray are not from 3Q 2013 and were given less weight when contouring.
6) OU 1 boundary is from the 2008 ROD and OU 2 boundary is from the 2011 Interim ROD

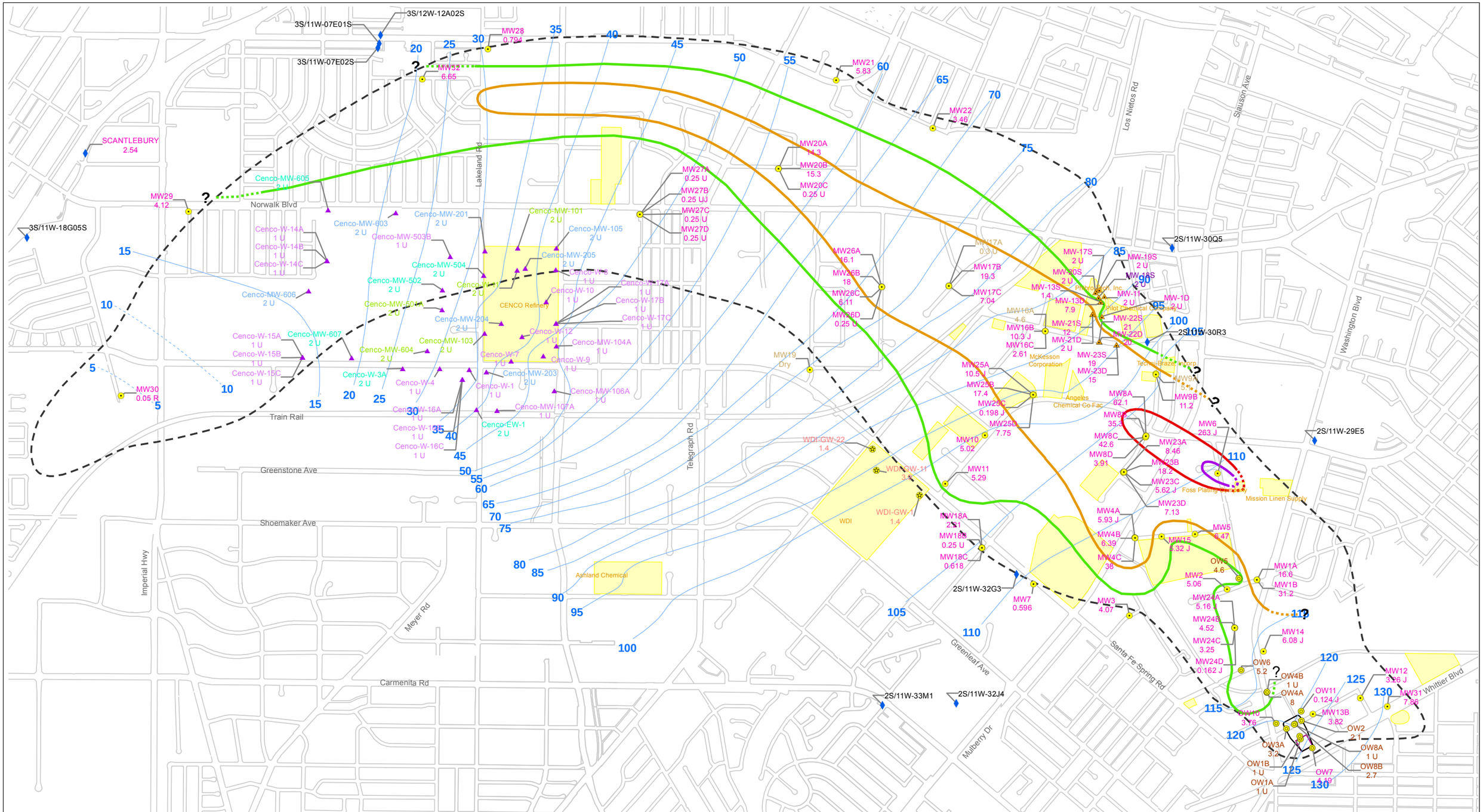
N

0 500 1,000 2,000 Feet

Figure 3-5e
Composite 1,4-Dioxane Distribution
Third Quarter 2013
Omega Chemical Superfund Site

CH2MHILL

Path: \\RIVFPP01\Proj\EPA\424513OmegaAES10\MapFiles\draft_2015\Figure_3-5e_3Q_2013_1,4-Dioxane_Contours_final.mxd



Legend

- Ashland Chemical Well
- Oil Field Reclamation Project
- CENCO Well
- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group (OPOG) Monitoring Well
- Waste Disposal, Inc. Well
- Phibro-Tech, Inc. Monitoring Well
- ProductionWells
- Approximate Boundaries of Facility
- Former Omega Facility
- OU1 Boundary
- OU2 Boundary
- Water Table Contours (feet amsl), Third Quarter 2013 (dashed where approximate)

Posted Values and Well IDs Colored by Sample Date

- 3rd Quarter 2013
- 2nd Quarter 2013
- 3rd Quarter 2010
- 2nd Quarter 2009
- 1st Quarter 2008
- 4th Quarter 2007
- 3rd Quarter 2007
- 4th Quarter 2006
- 4th Quarter 2004

Estimated Composite Hexavalent Chromium Plume Extent

- 100 µg/L
- 50 µg/L
- 10 µg/L
- 5 µg/L

Notes:
1) Posted values are the most recent reported concentrations in micrograms per liter (µg/L).
2) Plume contours dashed where approximated.
3) ID - Identification.
4) U - Non-Detect at a concentration less than the posted value.
5) J - Analyte was detected below the quantitation limit
6) UJ - Analyte was not detected; however, the quantitation limit was estimated because of discrepancies in meeting certain analyte-specific QC criteria
7) R - Data were rejected because of deficiencies in meeting QC criteria
8) OU 1 boundary is from the 2008 ROD and OU 2 boundary is from the 2011 Interim ROD

N

0 500 1,000 2,000 Feet

Figure 3-5f
Composite Hexavalent Chromium Distribution, Third Quarter 2013
Omega Chemical Superfund Site

CH2MHILL

Path: \\RIVFPP01\Proj\EPA\424513OmegaAES10\MapFiles\draft_2015\Figure_3-5f_3Q_2013_Chromium_6_Contours_final.mxd

Appendix A
Monitoring Well Purge Forms

A.1 1Q2012 Well Purge Forms

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW1A
Date of Field Visit: 3.21.12
Field Staff: Mike Palm
Matt Mowry
R9 Sample ID:
CLP Sample ID: Y8842 @ 0955

Screened Interval: 45-60 feet bgs
Static WL: 39.86
Line Depth: 20.14
Gal/ft line 0.0102 gal
System Volume: 0.20
3 System Volumes: 0.61
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0938	39.85	21.83	1.778	3.47	7.15	243.5	0.39	clear
0941	39.85	22.09	1.833	3.00	7.11	240.7	0.21	clear
0944	39.85	22.38	1.844	2.88	7.10	237.5	0.29	clear
0947	39.85	22.37	1.846	2.76	7.10	235.1	0.51	clear
0951	39.86	22.32	1.840	2.97	7.10	232.8	0.16	clear

Final SWL: 39.86
Total Vol.: 1.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW1B
Date of Field Visit: 3.21.12
Field Staff: Mike Palm
Matt Maury
R9 Sample ID:
CLP Sample ID: YGGH1 @ 0915

Screened Interval: 75-85 feet bgs
Static WL: 39.74
Line Depth: 45.26
Gal/ft line 0.0102 gal
System Volume: 0.46
3 System Volumes: 1.38
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0828	40.84	20.62	0.822	2.40	7.49	207.8	1.51	
0832	39.76	20.65	1.609	2.37	7.27	223.0	0.99	
0835	39.76	20.54	1.611	2.44	7.27	223.8	0.42	
0838	39.76	20.42	1.624	2.40	7.26	225.3	0.21	
0842	39.76	20.45	1.630	2.43	7.25	227.5	0.05	
0846	39.76	20.52	1.637	2.37	7.24	231.6	0.33	
0851	39.76	20.51	1.638	2.34	7.24	234.0	0.36	
0856	39.76	20.56	1.640	2.31	7.25	238.2	0.38	
0900	39.76	20.64	1.643	2.34	7.25	241.1	0.44	
0904	39.76	20.79	1.649	2.34	7.25	241.1	0.39	
0910	39.76	20.87	1.652	2.32	7.25	240.6	0.39	

Final SWL: 39.75 ft
Total Vol.: 1.75 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW2
Date of Field Visit:
Field Staff:

R9 Sample ID:
CLP Sample ID:

Screened Interval: 45-60 feet bgs
Static WL:
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								Unable to access well. car parked
								on top of well

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW3
Date of Field Visit: 3.21.12
Field Staff: Mike Palm
Matt Mayry
R9 Sample ID:
CLP Sample ID: [illegible]H4 @ 1155

Screened Interval: 38-48 feet bgs
Static WL: 35.15
Line Depth: 12.85
Gal/ft line 0.0102 gal
System Volume: 0.13
3 System Volumes: 0.39
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								Could not get water to surface
								Hand bailed sample

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW4A
Date of Field Visit: 3-19-12
Field Staff: Mike Rahn
Mike Ledeau
R9 Sample ID:
CLP Sample ID: [illegible] @ 1050

Screened Interval: 43-53 feet bgs
Static WL: 31.35
Line Depth: 21.65
Gal/ft line 0.0102 gal
System Volume: 0.22
3 System Volumes: 0.66
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1036	31.35	22.07	3.217	2.75	6.93	132.8	1.58	
1039	31.35	22.24	3.444	1.69	6.87	130.9	0.51	
1042	31.35	22.30	3.463	1.42	6.86	127.5	0.26	
1045	31.35	22.30	3.459	1.34	6.86	125.1	0.26	
1048	31.35	22.25	3.449	1.26	6.85	123.5	0.09	

Final SWL: 31.35
Total Vol.: 1.5 gal

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW4B
Date of Field Visit: 3.19.12
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID:
CLP Sample ID: Y88F5 @ 1020

Screened Interval: 70-80 feet bgs
Static WL: 31.29
Line Depth: 48.71
Gal/ft line 0.0102 gal
System Volume: 0.49
3 System Volumes: 1.49
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1001	31.38	21.11	1.716	4.17	7.10	129.2	2.37	
1004	31.40	21.51	3.493	3.02	6.87	137.5	13.2	
1007	31.40	21.50	3.589	2.97	6.86	135.3	10.7	
1010	31.40	21.49	3.603	2.91	6.87	134.7	6.39	
1013	31.40	21.45	3.600	2.91	6.86	134.5	5.37	
1016	31.40	21.50	3.602	2.93	6.86	134.1	4.01	

Final SWL: 31.40
Total Vol.: 2 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW4C
Date of Field Visit: 3.19.12
Field Staff: Mike Palm
Mike Ladow
R9 Sample ID:
CLP Sample ID: YR8F40 0945

Screened Interval: 89-99 feet bgs
Static WL: 33.19
Line Depth: 65.81
Gal/ft line 0.0102 gal
System Volume: 0.67
3 System Volumes: 2.01
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0929	33.26	21.29	1.503	3.88	7.31	117.7	1.71	
0932	33.26	21.33	1.758	3.81	7.17	118.7	2.69	
0935	33.26	21.27	1.767	3.85	7.15	117.5	1.61	
0938	33.26	21.31	1.761	3.71	7.15	117.6	1.39	
0941	33.26	21.27	1.760	3.60	7.15	117.9	1.11	
0944	33.26	21.30	1.760	3.62	7.15	118.4	1.02	

Final SWL: 33.26
Total Vol.: 2.5 gal

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW5
Date of Field Visit: 3.19.12
Field Staff: mike Palm
mike Ladow
R9 Sample ID:
CLP Sample ID: Y8BP9 @ 12.15

Screened Interval: 43-53 feet bgs
Static WL: 33.57
Line Depth: 19.43
Gal/ft line 0.0102 gal
System Volume: 0.19
3 System Volumes: 0.59
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1200	33.61	22.17	2.683	3.01	6.91	156.3	1.81	
1203	33.61	22.17	2.727	2.38	6.86	151.3	0.90	
1206	33.61	22.15	2.726	2.18	6.86	146.7	1.51	
1209	33.61	22.07	2.722	2.11	6.87	137.7	0.30	
1212	33.61	22.11	2.723	2.07	6.87	134.8	0.23	

Final SWL: 33.61
Total Vol.: 1.5 gal

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW6
Date of Field Visit: 3.21.12
Field Staff: Mike Palm
Matt Mayer
R9 Sample ID:
CLP Sample ID: Y88H3 @ 1055

Screened Interval: 37-47 feet bgs
Static WL: 33.20
Line Depth: 13.80
Gal/ft line 0.0102 gal
System Volume: 0.14
3 System Volumes: 0.42
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1042	33.22	21.69	1.987	4.95	7.12	199.0	1.70	
1045	33.22	21.71	2.016	4.71	7.08	202.9	1.79	
1048	33.22	21.76	2.030	4.63	7.06	207.1	2.14	
1051	33.22	21.77	2.032	4.65	7.05	206.8	0.84	
1054	33.22	21.79	2.031	4.68	7.05	206.8	0.33	

Final SWL: 33.22
Total Vol.: 1.5 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW7
Date of Field Visit: 3-16-12
Field Staff:

R9 Sample ID:
CLP Sample ID:

Screened Interval: 36-46 feet bgs
Static WL: 28.50
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								No Pump in well

Final SWL:
Total Vol.:

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW8A
Date of Field Visit: 3.20.12
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID:
CLP Sample ID: 48808 1230

Screened Interval: 30-45 feet bgs
Static WL: 34.48
Line Depth: 10.52
Gal/ft line 0.0102 gal
System Volume: 0.10
3 System Volumes: 0.30
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1220	34.50	22.32	3.073	3.35	7.16	178.9	2.38	
1223	34.50	22.20	3.135	3.18	7.12	179.4	1.45	
1226	34.50	22.20	3.137	3.20	7.13	178.1	0.69	
1229	34.50	22.17	3.141	3.18	7.12	176.7	0.72	

Final SWL: 34.50
Total Vol.: 1.5 gal.

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW8B
Date of Field Visit: 3.20.12
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID:
CLP Sample ID: YGRG7 @ 1205

Screened Interval: 65-75 feet bgs
Static WL: 34.39
Line Depth: 40.61
Gal/ft line 0.0102 gal
System Volume: 0.41
3 System Volumes: 1.24
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1151	34.41	22.30	2.072	4.86	7.35	181.4	0	
1154	34.41	21.98	2.124	3.82	7.25	183.7	0.83	
1157	34.41	21.93	2.122	3.64	7.25	179.0	0.47	
1200	34.41	21.93	2.124	3.63	7.23	172.7	0.19	
1203	34.41	21.94	2.125	3.59	7.24	174.8	0	

Final SWL: 34.41
Total Vol.: 2 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW8C
Date of Field Visit: 3.20.12
Field Staff: mike Palm
mike Lodeau
R9 Sample ID:
CLP Sample ID: Y8E96 @ 1140

Screened Interval: 87-92 feet bgs
Static WL: 35.50
Line Depth: 56.50
Gal/ft line 0.0102 gal
System Volume: 0.57
3 System Volumes: 1.72
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1117	35.60	22.40	1.831	1.75	7.60	181.5	0	
1120	35.60	22.21	2.070	1.00	7.25	187.2	0	
1123	35.60	22.21	2.101	1.17	7.25	184.9	0	
1126	35.60	22.14	2.141	1.64	7.24	182.9	0	
1129	35.60	22.08	2.155	1.93	7.24	182.1	0	
1132	35.60	22.19	2.162	1.98	7.24	180.8	0	
1135	35.60	22.16	2.163	2.02	7.24	182.2	0	

Final SWL: 35.60
Total Vol.: 2.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW8D
Date of Field Visit: 3.20.12
Field Staff: mike Palm
mike Lebeau
R9 Sample ID:
CLP Sample ID: Y88G4 @ 1155 Y88G5-Dup @ 1100

Screened Interval: 110-120 feet bgs
Static WL: 40.58
Line Depth: 79.42
Gal/ft line 0.0102 gal
System Volume: 0.81
3 System Volumes: 2.4
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1031	40.65	21.46	1.326	3.76	8.26	111.3	0	
1034	40.65	21.59	1.702	1.16	7.64	151.4	0	
1037	40.65	21.57	1.770	0.61	7.59	159.0	0	
1040	40.65	21.57	1.777	0.55	7.58	160.4	0.32	
1043	40.65	21.59	1.780	0.50	7.58	162.4	0.08	
1048	40.65	21.58	1.782	0.45	7.57	164.2	0	
1053	40.65	21.62	1.782	0.43	7.57	164.9	0	

Final SWL: 40.65
Total Vol.: 3 gal

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW9A
Date of Field Visit: 3-20-12
Field Staff: [illegible]
[illegible]
R9 Sample ID:
CLP Sample ID: Y8G3 @ 1000

Screened Interval: 25-35 feet bgs
Static WL: 32.89
Line Depth: 2.11
Gal/ft line 0.0102 gal
System Volume: 0.02
3 System Volumes: 0.06
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								Tried pumping well
								no luck on getting water
								to surface

Final SWL:
Total Vol.:

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW9B
Date of Field Visit: 3.20.12
Field Staff: mike Palm
Mike Ladeau
R9 Sample ID:
CLP Sample ID: 48862 @ 0935

Screened Interval: 50-60 feet bgs
Static WL: 37.89
Line Depth: 22.11
Gal/ft line 0.0102 gal
System Volume: 0.22
3 System Volumes: 0.67
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0920	37.90	20.47	2.450	3.58	7.32	215.4	0.74	
0923	37.90	21.04	2.515	3.55	7.27	215.5	0	
0926	37.90	21.08	2.519	3.54	7.26	215.6	0	
0929	37.90	21.11	2.522	3.40	7.25	215.8	0.31	
0932	37.90	21.11	2.524	3.40	7.25	213.0	0.57	

Final SWL: 37.90
Total Vol.: 1.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW10
Date of Field Visit: 3.16.12
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID:
CLP Sample ID: VB8E4 @ 0755

Screened Interval: 52-62 feet bgs
Static WL: 41.11
Line Depth: 20.89
Gal/ft line 0.0102 gal
System Volume: 0.21
3 System Volumes: 0.63
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0731	41.15	20.75	2.456	3.81	6.84	236.1	2.57	
0734	41.15	21.64	2.811	2.98	6.95	227.7	2.64	
0737	41.15	21.71	2.780	4.03	6.99	224.4	0.93	
0740	41.15	21.74	2.712	5.23	7.02	222.8	0.92	
0743	41.15	21.74	2.659	5.87	7.05	222.8	0.89	
0746	41.15	21.73	2.622	6.33	7.08	223.7	1.12	
0749	41.15	21.75	2.617	6.65	7.11	224.2	0.97	
0752	41.15	21.73	2.604	6.76	7.18	225.2	0.84	

Final SWL: 41.15
Total Vol.: 2 gal

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW11
Date of Field Visit: 3.21.12
Field Staff: Mike Palm
Matt Mayw
R9 Sample ID:
CLP Sample ID: 488145 @ 1235 Blank- 488146 @ 1300

Screened Interval: 40-50 feet bgs
Static WL: 43.41
Line Depth: 6.59
Gal/ft line 0.0102 gal
System Volume: 0.06
3 System Volumes: 0.18
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1222	43.44	24.00	2.684	3.53	6.95	150.2	2.45	clear
1226	43.44	23.43	2.645	2.34	6.85	163.5	1.11	clear
1230	43.44	23.30	2.21	2.25	6.83	168.3	0.54	clear
1234	43.44	23.31	2.637	2.28	6.82	167.3	0.24	clear

Final SWL: 43.44
Total Vol.: 1 gal.

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW12
Date of Field Visit:
Field Staff:

R9 Sample ID:
CLP Sample ID:

Screened Interval: 82-97
Static WL:
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								Use Passive Sampling Method
								Unable to access well, over parked
								on top of well

Final SWL:
Total Vol.:

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW13A
Date of Field Visit: 3.23.12
Field Staff: mike Pahn
mike Ladow
R9 Sample ID:
CLP Sample ID: YB8J6 @ 0810

Screened Interval: 56-66
Static WL: 67.85 70.80.70
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								No Pump in well. hand
								bail sample

Final SWL:
Total Vol.:

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW13B
Date of Field Visit: 3.23.12
Field Staff: Mike Palm.
Mike Lodeau
R9 Sample ID:
CLP Sample ID: 48815 @ 0755

Screened Interval: 123-133
Static WL: 87.86
Line Depth: 45.14
Gal/ft line 0.0102 gal
System Volume: 0.46
3 System Volumes: 1.38
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0736	87.90	20.39	1.799	4.71	7.55	235.0	0	
0739	87.90	20.82	1.834	3.48	7.41	238.5	0.59	
0742	87.90	21.05	1.873	2.66	7.32	240.7	1.60	
0745	87.90	21.13	1.894	2.54	7.30	239.9	0.95	
0748	87.90	21.32	1.910	2.42	7.28	238.3	0.84	
0751	87.90	21.35	1.915	2.37	7.27	238.1	0.19	
0754	87.90	21.35	1.917	2.29	7.26	238.1	0	

Final SWL: 87.90
Total Vol.: 2.5 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW14
Date of Field Visit: 3.21.12
Field Staff: Mike Palm
Matt Maury
R9 Sample ID:
CLP Sample ID: Y8840 @ 0750

Screened Interval: 60-75
Static WL: 54.05' BTOC
Line Depth: 20.95
Gal/ft line 0.0102 gal
System Volume: 0.21
3 System Volumes: 0.64 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0735	54.04'	21.40	2.655	3.40	7.07	266.2	0.45	clear
0738	54.04'	21.59	2.677	3.05	6.97	263.7	1.41	clear
0742	54.04'	21.66	2.676	3.05	6.96	262.6	0.86	clear
0745	54.04'	21.73	2.673	2.94	6.96	261.1	0.75	clear

Final SWL: 54.05
Total Vol.: 1 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW15
Date of Field Visit: 3.19.12
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID:
CLP Sample ID: Y88F70 1130 Blank - Y88F8 - 1140

Screened Interval: 50-70
Static WL: 31.62
Line Depth: 38.38
Gal/ft line 0.0102 gal
System Volume: 0.39
3 System Volumes: 1.17
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1117	31.65	22.00	3.088	2.91	7.01	137.3	0.28	
1120	31.65	21.92	3.236	1.46	6.89	134.3	1.18	
1123	31.65	21.87	3.234	1.15	6.86	130.4	2.75	
1126	31.65	21.92	3.231	1.10	6.87	125.4	2.44	
1129	31.65	21.89	3.230	1.15	6.85	119.4	2.29	

Final SWL: 31.65
Total Vol.: 2 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW16A
Date of Field Visit: 3.15.12
Field Staff: Mike Kalm
Mike Ladrau
R9 Sample ID:
CLP Sample ID: Y88E2 - Blank @ 1145 Y88E3 @ 1205

Screened Interval: 45-60
Static WL: 54.07
Line Depth: 5.93
Gal/ft line 0.0102 gal
System Volume: 0.06
3 System Volumes: 0.1
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1150	54.10	21.99	2.265	5.91	7.30	113.1	0.75	
1153	54.10	21.71	2.105	5.74	7.09	132.8	0.83	
1155	54.10	21.69	2.007	5.53	7.03	141.9	2.92	
1158	54.10	21.66	1.933	5.39	6.97	152.0	4.66	
1201	54.10	21.62	1.924	5.44	6.96	154.8	4.63	
1204	54.10	21.57	1.932	5.48	6.95	158.9	3.05	

Final SWL: 54.10
Total Vol.: 1.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW16B
Date of Field Visit: 3.15.12
Field Staff: mike Palm
mike Ledeau
R9 Sample ID:
CLP Sample ID: Y8RE0 @ 1115 DUP - Y8RE1 @ 1130

Screened Interval: 106-116
Static WL: 55.20
Line Depth: 60.80
Gal/ft line 0.0102 gal
System Volume: 0.62
3 System Volumes: 1.8
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1059	55.20	20.44	1.818	4.67	7.51	153.4	0.47	
1102	55.20	21.10	2.006	2.24	7.36	164.2	0.68	
1105	55.20	21.12	2.014	2.08	7.39	162.9	0.99	
1108	55.20	21.19	2.015	2.13	7.39	162.4	0.89	
1111	55.20	21.15	2.013	2.12	7.39	162.3	0.87	
1114	55.20	21.13	2.014	2.13	7.39	165.4	0.84	

Final SWL: 55.20
Total Vol.: 2.5 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW16C
Date of Field Visit: 3-15-12
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID:
CLP Sample ID: [illegible] @ 1040

Screened Interval: 149-164
Static WL: 57.49
Line Depth: 106.51
Gal/ft line 0.0102 gal
System Volume: 1.08
3 System Volumes: 3.2 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1023	57.50	21.14	1.306	1.61	7.11	45.1	0.81	
1026	57.50	21.08	1.370	0.74	7.35	29.5	2.21	
1029	57.50	21.09	1.353	0.60	7.39	50.6	1.12	
1032	57.50	21.08	1.350	0.58	7.39	55.3	0.91	
1035	57.50	21.09	1.349	0.56	7.40	58.4		

Final SWL: 57.50
Total Vol.: 3.75 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW17A
Date of Field Visit:
Field Staff:

R9 Sample ID:
CLP Sample ID:

Screened Interval: 56-71
Static WL: Dry @ 75.30
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Bailer

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								No Sample Taken

Final SWL:
Total Vol.:

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW17B
Date of Field Visit: 3-20-12
Field Staff: mike Pelon
mike Ladma
R9 Sample ID:
CLP Sample ID: 72861 @ 0850

Screened Interval: 94-104
Static WL: 72.14
Line Depth: 31.86
Gal/ft line 0.0102 gal
System Volume: 0.32
3 System Volumes: 0.97
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0830	72.17	20.44	1.945	4.46	7.48	227.3	0	
0833	72.17	20.59	2.028	3.64	7.43	229.6	0	
0836	72.17	20.75	2.142	2.87	7.33	232.7	0	
0839	72.17	20.81	2.163	2.81	7.31	232.2	0.67	
0842	72.17	20.87	2.171	2.73	7.30	230.1	0.53	
0845	72.17	20.89	2.172	2.74	7.30	229.4	0.33	
0848	72.17	20.92	2.169	2.75	7.30	228.6	0.12	

Final SWL: 72.17
Total Vol.: 1.5gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW17C
Date of Field Visit: 3.20.12
Field Staff: [illegible]
[illegible]
R9 Sample ID:
CLP Sample ID: [illegible]-LAB QC @ 0845

Screened Interval: 172-182
Static WL: 80.69
Line Depth: 101.31
Gal/ft line 0.0102 gal
System Volume: 1.03
3 System Volumes: 3.10
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0746	80.70	20.40	1.180	3.33	7.22	238.5	0	
0749	80.70	20.78	1.094	2.26	7.53	223.2	0	
0752	80.70	20.80	1.044	2.43	7.68	215.4	0	
0755	80.70	20.83	1.029	2.45	7.73	212.3	0	
0758	80.84	20.84	1.020	2.46	7.77	210.4	0	
0801	80.84	20.85	1.020	2.42	7.78	209.5	0	
0806	80.[illegible]	20.[illegible]	1.015	2.45	7.79	209.3	0	
0811	80.84	[illegible]	[illegible]	[illegible]	7.79	208.2	0	

Final SWL: 80.84
Total Vol.: 3.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW18A
Date of Field Visit: 3.13.12
Field Staff: mike falm
mike ladrow
R9 Sample ID:
CLP Sample ID: Y88C1 @ 0955

Screened Interval: 56-71
Static WL: 33.70
Line Depth: 37.30
Gal/ft line 0.0102 gal
System Volume: 0.380
3 System Volumes: 1.14
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0939	33.45	20.87	2.794	1.53	7.11	-94.8	1.80	
0942	33.45	20.94	2.845	1.54	7.08	-33.3	1.44	
0945	33.45	20.98	2.855	1.49	7.07	67.2	1.08	
0947	33.45	20.89	2.849	1.46	7.07	99.5	1.58	
0949	33.45	20.89	2.850	1.46	7.06	121.1	1.28	
0951	33.45	20.89	2.850	1.48	7.06	131.7	1.22	
0953	33.45	20.88	2.850	1.52	7.06	136.8	0.95	

Final SWL: 33.45
Total Vol.: 1.75 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW18B
Date of Field Visit: 3.13.12
Field Staff: mike Palm
mike Ladeau
R9 Sample ID:
CLP Sample ID: Y6RC0 @ 0920

Screened Interval: 90-100
Static WL: 33.68
Line Depth: 66.32
Gal/ft line 0.0102 gal
System Volume: 0.676
3 System Volumes: 2.0
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0905	33.70	20.79	2.652	1.41	7.19	-83.5	0	
0908	33.71	20.89	2.741	1.97	7.23	59.6	0	
0911	33.71	20.90	2.750	2.06	7.23	130.2	0	
0914	33.71	20.89	2.753	2.11	7.23	154.7	0	
0917	33.71	20.89	2.757	2.03	7.22	169.4	0	

Final SWL: 33.68
Total Vol.: 2.75 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW18C
Date of Field Visit: 3-13-12
Field Staff: mike Palm
mike Ladeau
R9 Sample ID:
CLP Sample ID: YA8859 - LAB QC @ 0840

Screened Interval: 146-161
Static WL: 35.46
Line Depth: 125.54
Gal/ft line 0.0102 gal
System Volume: 1.28
3 System Volumes: 3.84
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0800	36.10	20.65	1.038	1.03	6.83	324.8	0.43	
0805	36.10	20.78	1.185	0.62	7.32	298.4	0.46	
0810	36.10	20.84	1.116	0.44	7.41	292.7	0	
0815	36.10	20.81	1.072	0.34	7.48	285.7	0	
0820	36.10	20.83	1.057	0.30	7.50	283.3	0	
0825	36.10	20.82	1.053	0.28	7.51	279.8	0	
0830	36.10	20.81	1.052	0.26	7.52	277.7	0	
0835	36.10	20.81	1.043	0.24	7.52	273.9	0	

Final SWL: 36.00
Total Vol.: 4 Gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW19
Date of Field Visit: 3.13.12
Field Staff: Mike Palm
mike Ladow
R9 Sample ID:
CLP Sample ID:

Screened Interval: 56-71
Static WL: 72.88
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Bailer

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								No pump in well, took a grab
								Sample. Only enough water to
								get TVOA & TVOA+SIM

Final SWL:
Total Vol.:

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW20A
Date of Field Visit: 3.15.12
Field Staff: mike [illegible]
mike [illegible]
R9 Sample ID:
CLP Sample ID: YAADB @ 0940 LABQC

Screened Interval: 75-90
Static WL: 75.61
Line Depth: 14.39
Gal/ft line 0.0102 gal
System Volume: 0.14
3 System Volumes: 0.44
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0925	75.63	22.00	2.095	3.50	7.18	125.6	0.26	
0928	75.63	21.70	2.002	2.37	7.13	133.2	0.50	
0931	75.63	21.63	1.983	2.26	7.12	139.8	1.18	
0934	75.63	21.62	1.981	2.25	7.11	144.6	0.29	
0937	75.63	21.64	1.981	2.20	7.11	148.2	0.17	

Final SWL: 75.61
Total Vol.: 2 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW20B
Date of Field Visit: 3.15.12
Field Staff: mike Palm
mike Ladeau
R9 Sample ID:
CLP Sample ID: [illegible] 0855

Screened Interval: 122-132
Static WL: 76.09
Line Depth: 55.91
Gal/ft line 0.0102 gal
System Volume: 0.57
3 System Volumes: 1.71
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0839	76.09	22.48	1.766	4.81	7.16	98.3	9.76	
0842	76.09	21.30	1.937	2.79	7.23	105.7	3.99	
0845	76.09	21.24	1.951	2.68	7.23	110.9	1.89	
0848	76.09	21.23	1.950	2.55	7.23	114.6	1.55	
0851	76.09	21.20	1.948	2.59	7.23	118.3	1.45	

Final SWL: 76.09
Total Vol.: 2.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW20C
Date of Field Visit: 3.15.12
Field Staff: Mike Felan
Mike Lotcou
R9 Sample ID:
CLP Sample ID: V88D16 @ 0820

Screened Interval: 180-190
Static WL: 88.22
Line Depth: 101.38
Gal/ft line 0.0102 gal
System Volume: 1.03
3 System Volumes: 3.11
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0753	88.25	22.12	1.138	0.97	6.96	-95.7	1.40	
0756	88.25	21.57	0.960	0.27	7.48	-182.2	0.29	
0759	88.25	21.45	0.832	0.17	7.76	-171.1	0.13	
0802	88.25	21.43	0.887	0.15	7.77	-154.9	0.07	
0805	88.25	21.42	0.957	0.14	7.76	-139.3	0.18	
0808	88.25	21.40	0.973	0.14	7.76	-129.9	0.12	
0811	88.25	21.42	0.981	0.15	7.76	-119.6	0.24	
0814	88.25	21.41	0.985	0.15	7.76	-114.8	0.22	
0817	88.25	21.42	0.988	0.16	7.75	-112.1	0.15	

Final SWL: 88.22
Total Vol.: 3.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW21
Date of Field Visit: 3.14.12
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID:
CLP Sample ID: [illegible] @ 1155

Screened Interval: 64-79
Static WL: 59.05
Line Depth: 19.95
Gal/ft line 0.0102 gal
System Volume: 0.20
3 System Volumes: 0.6
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1144	59.10	20.86	1.712	2.93	6.78	140.3	0.28	
1147	59.10	20.78	1.704	2.91	6.72	146.7	2.67	
1150	59.10	20.74	1.700	2.80	6.69	156.3	2.13	
1153	59.10	20.74	1.707	2.70	6.62	160.3	0.89	

Final SWL: 59.08
Total Vol.: 2 gal

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW22
Date of Field Visit: 3.14.12
Field Staff: mike Palm
mike Ladeau
R9 Sample ID:
CLP Sample ID: YP8D4 @ 1230

Screened Interval: 74-89
Static WL: 71.24
Line Depth: 17.76
Gal/ft line 0.0102 gal
System Volume: 0.18
3 System Volumes: 0.5
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1218	71.25	20.66	1.755	6.56	6.95	207.6	1.36	
1221	71.25	20.51	1.745	6.29	6.88	212.3	4.39	
1224	71.25	20.49	1.736	6.30	6.80	214.2	13.4	
1227	71.25	20.49	1.731	6.26	6.76	218.7	5.64	

Final SWL: 71.25
Total Vol.: 1.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW23A
Date of Field Visit: 3-23-11
Field Staff: Mike Klim
Mike Ladou
R9 Sample ID:
CLP Sample ID: V28K1 @ 1030 V28K2-Blank @ 1130

Screened Interval: 35-55
Static WL: 34.04
Line Depth: 20.96
Gal/ft line 0.0102 gal
System Volume: 0.21
3 System Volumes: 0.64
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1039	34.08	21.75	2.426	1.68	7.08	230.5	0.70	
1042	34.08	21.84	2.452	1.66	7.02	230.8	0	
1045	34.08	21.84	2.451	1.63	7.01	230.7	0	
1048	34.08	21.81	2.468	1.60	7.01	229.0	0	

Final SWL: 34.08
Total Vol.: 15 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW23B
Date of Field Visit: 3.23.12
Field Staff: mike [illegible]
[illegible]
R9 Sample ID:
CLP Sample ID: [illegible] @ 1030

Screened Interval: 87-97
Static WL: 35.39
Line Depth: 61.61
Gal/ft line 0.0102 gal
System Volume: 0.62
3 System Volumes: 1.88
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1009	35.42	21.22	1.863	1.50	7.46	206.7	1.15	
1012	35.42	21.43	1.860	1.46	7.31	212.1	19.3	
1015	35.42	21.47	1.859	1.72	7.23	215.3	18.2	
1018	35.42	21.49	1.868	1.86	7.20	217.2	5.55	
1021	35.42	21.49	1.874	2.00	7.19	217.6	2.49	
1025	35.42	21.49	1.875	2.01	7.18	218.3	1.86	

Final SWL: 35.42
Total Vol.: 2.5gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW23C
Date of Field Visit: 3/28/12
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID:
CLP Sample ID: Y88J80 @ 0945 Y88J9-DUP @ 0955

Screened Interval: 145-160
Static WL: 38.89
Line Depth: 121.11
Gal/ft line 0.0102 gal
System Volume: 1.23
3 System Volumes: 3.70
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0925	38.92	21.45	2.400	0.67	7.36	222.7	0	
0928	38.92	21.30	2.503	0.19	7.14	228.1	0	
0931	38.92	21.25	2.505	0.13	7.12	225.7	0	
0934	38.92	21.24	2.498	0.11	7.11	222.3	0	
0937	38.92	21.22	2.489	0.18	7.11	205.3	0	
0940	38.92	21.21	2.473	0.15	7.11	206.9	0	
0943	38.92	21.18	2.469	0.18	7.9	207.1	0	

Final SWL: 38.92
Total Vol.: 4.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW23D
Date of Field Visit: 5.23.12
Field Staff: Mike Palm
Mike Ledrew
R9 Sample ID:
CLP Sample ID: 48217 @ 0900 LAB OC

Screened Interval: 175-185
Static WL: 39.68
Line Depth: 145.32
Gal/ft line 0.0102 gal
System Volume: 1.4
3 System Volumes: 4.44
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0841	39.69	21.42	1.989	2.36	7.27	209.5	0	
0844	39.69	21.12	2.161	1.89	7.33	209.8	0	
0847	39.69	21.05	2.158	1.64	7.33	211.7	0	
0850	39.69	21.02	2.157	1.58	7.33	212.6	0.17	
0853	39.68	21.01	2.157	1.60	7.33	212.9	0	
0856	39.69	20.99	2.155	1.58	7.33	213.1	0	
0859	39.69	20.98	2.154	1.59	7.33	213.3	0	

Final SWL: 39.69
Total Vol.: 5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW24A
Date of Field Visit: 3.22.12
Field Staff: mike Palm
mike Ladeau
R9 Sample ID:
CLP Sample ID: Y88J2 @ 1000

Screened Interval: 50-70
Static WL: 44.18
Line Depth: 25.82
Gal/ft line 0.0102 gal
System Volume: 0.26
3 System Volumes: 0.79
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0950	25.84	23.50	2.481	3.22	7.07	165.9	1.08	
0953	25.84	23.94	2.354	1.43	6.95	172.6	0	
0956	25.84	22.88	2.345	1.35	6.97	169.8	0	
0959	22.84	22.92	2.345	1.35	6.97	171.0	0	

Final SWL: 22.84
Total Vol.: 1.5 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW24B
Date of Field Visit: 3.22.12
Field Staff: Mike Palm
Mike Ladow
R9 Sample ID:
CLP Sample ID: Y88.10 @ 0935

Screened Interval: 110-125
Static WL: 47.90
Line Depth: 77.10
Gal/ft line 0.0102 gal
System Volume: 0.78
3 System Volumes: 2.35
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0914	47.90	23.57	1.775	3.00	7.29	172.0	10.53	
0919	47.90	22.87	1.796	1.60	7.41	164.2	4.87	
0924	47.90	22.68	1.769	1.60	7.44	163.6	4.23	
0929	47.90	22.63	1.720	1.53	7.45	163.8	2.36	
0934	47.90	22.63	1.716	1.51	7.46	163.1	1.77	

Final SWL: 47.90
Total Vol.: 3 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW24C
Date of Field Visit: 3.22.12
Field Staff: Mike Palm
Mike Ledeau
R9 Sample ID:
CLP Sample ID: 48849 @ 0900

Screened Interval: 140-160
Static WL: 48.24
Line Depth: 111.76
Gal/ft line 0.0102 gal
System Volume: 1.13
3 System Volumes: 3.41
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0832	48.25	22.50	1.671	1.40	7.48	68.3	0.52	
0837	48.25	22.36	1.625	2.10	7.45	83.8	12.4	
0842	48.25	22.42	1.619	2.26	7.44	90.8	16.7	
0847	48.25	22.55	1.619	2.24	7.44	102.3	14.3	
0852	48.25	22.47	1.617	2.30	7.44	110.7	10.8	
0857	48.25	22.37	1.613	2.40	7.43	123.6	6.43	

Final SWL: 48.24
Total Vol.: 3.50

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW24D
Date of Field Visit: 3.22.12
Field Staff: mike Blm
mike Ladeau
R9 Sample ID:
CLP Sample ID: 48847 @ 0800 48848 DUP @ 0810

Screened Interval: 173-178
Static WL: 48.60
Line Depth: 129.40
Gal/ft line 0.0102 gal
System Volume: 1.31
3 System Volumes: 3.95
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0734	48.64	22.33	1.427	0.56	7.14	-101.9	1.04	
0739	48.64	22.10	1.415	0.21	7.60	-163.0	0	
0744	48.64	22.26	1.415	0.21	7.64	-163.8	0	
0749	48.64	22.29	1.415	0.19	7.65	-157.6	0	
0754	48.64	22.27	1.411	0.17	7.65	-153.5	0	
0759	48.64	22.27	1.398	0.16	7.65	-146.3	0	

Final SWL: 48.64
Total Vol.: 4 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW25A
Date of Field Visit: 3.16.12
Field Staff: mike Palm
mike Lafleur
R9 Sample ID:
CLP Sample ID: YS8ES @ 1020

Screened Interval: 45-65
Static WL: 45.15
Line Depth: 19.85
Gal/ft line 0.0102 gal
System Volume: 0.20
3 System Volumes: 0.60
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1003	45.15	21.71	2.014	4.58	6.85	202.1	2.42	
1006	45.15	21.73	2.014	4.85	6.86	203.4	0.75	
1009	45.15	21.73	1.980	4.66	6.86	205.0	0.26	
1012	45.15	21.73	1.980	4.62	6.86	207.5	0.52	
1015	45.15	21.73	1.986	4.62	6.85	210.4	0.28	

Final SWL: 45.15
Total Vol.: 1.5 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW25B
Date of Field Visit: 3-16-12
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID:
CLP Sample ID: Y8BE7 @ 0945

Screened Interval: 90-110
Static WL: 45.30
Line Depth: 64.7
Gal/ft line 0.0102 gal
System Volume: 0.65
3 System Volumes: 1.97
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0933	45.42	21.71	2.092	3.15	6.98	208.1	5.88	
0936	45.42	21.63	2.198	2.16	6.98	209.4	7.36	
0939	45.42	21.59	2.192	2.21	6.97	205.7	9.67	
0942	45.42	21.56	2.196	2.12	6.97	202.9	7.04	

Final SWL: 45.30
Total Vol.: 2 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW25C
Date of Field Visit: 3.16.12
Field Staff: mike Blum
mike Ledeau
R9 Sample ID:
CLP Sample ID: YB8Ello @ 0920

Screened Interval: 140-150
Static WL: 48.00
Line Depth: 102
Gal/ft line 0.0102 gal
System Volume: 1.04
3 System Volumes: 3.12
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0903	48.04	21.65	0.559	1.23	7.61	184.7	0.67	
0906	49.70	21.51	0.649	0.30	7.80	176.2	1.54	
0909	50.05	21.49	0.648	0.19	7.85	169.9	0.15	
0912	50.75	21.50	0.648	0.15	7.85	165.8	0.31	
0915	51.22	21.50	0.646	0.14	7.86	161.4	0.32	

Final SWL: 50.05
Total Vol.: 4 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW25D
Date of Field Visit: 3.16.12
Field Staff: Mike Bier
Mike Lotzau
R9 Sample ID:
CLP Sample ID: YR8E5 @ 0830

Screened Interval: 194-209
Static WL: 64.55
Line Depth: 144.45
Gal/ft line 0.0102 gal
System Volume: 1.47
3 System Volumes: 4.4
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0828	64.60	21.61	0.787	2.21	7.50	184.6	0.93	
0833	64.60	21.43	0.557	1.39	7.56	179.1	0.63	
0838	64.60	21.42	0.550	1.54	7.57	177.1	0.40	
0843	64.60	21.41	0.566	2.01	7.62	176.4	0.43	
0848	64.60	21.40	0.571	2.20	7.64	178.0	0.41	

Final SWL: 64.57
Total Vol.: 5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW26A
Date of Field Visit: 3.13.12
Field Staff: Mike Palm
Mike Ladecu
R9 Sample ID:
CLP Sample ID: Y88C6 @ 1250 / Blank - Y88C7 @ 1330

Screened Interval: 70-90
Static WL: 76.09
Line Depth: 13.92
Gal/ft line 0.0102 gal
System Volume: 0.14
3 System Volumes: 0.4
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1237	76.10	22.07	2.202	4.96	7.05	179.1	1.05	
1239	76.10	21.97	2.232	4.30	6.98	188.2	0.40	
1241	76.10	21.94	2.234	4.27	6.96	191.1	0.18	
1243	76.10	21.93	2.237	4.26	6.95	194.6	0.10	
1245	76.10	21.93	2.238	4.29	6.96	195.8	0	

Final SWL: 76.10
Total Vol.: 15 gal.

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW26B
Date of Field Visit: 3.13.12
Field Staff: mike Palm
mike Ledcay
R9 Sample ID:
CLP Sample ID: XRCS0 1215

Screened Interval: 105-120
Static WL: 76.11
Line Depth: 43.89
Gal/ft line 0.0102 gal
System Volume: 0.44
3 System Volumes: 1.34
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1158	76.15	21.52	2.094	4.21	7.20	188.9	0.59	
1200	76.15	21.68	2.182	2.62	7.08	193.1	0.62	
1202	76.15	21.66	2.154	2.29	7.02	190.3	1.02	
1205	76.15	21.73	2.134	2.31	6.99	187.9	1.40	
1207	76.15	21.78	2.133	2.26	6.99	187.3	1.65	
1209	76.15	21.82	2.139	2.31	6.99	184.6	1.28	
1211	76.15	21.83	2.146	2.33	7.00	184.0	1.36	

Final SWL: 76.15
Total Vol.: 2.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW26C
Date of Field Visit: 3.13.12
Field Staff: mike Palm
mike Lapeau
R9 Sample ID:
CLP Sample ID: V2204 @ 1140

Screened Interval: 145-160
Static WL: 83.92
Line Depth: 76.08
Gal/ft line 0.0102 gal
System Volume: 0.7716
3 System Volumes: 2.3
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1127	84.60	21.14	1.304	5.71	7.43	174.2	0.57	
1129	84.60	21.60	1.421	1.57	7.26	173.7	2.89	
1131	84.60	21.58	1.458	1.68	7.19	172.8	1.94	
1133	84.60	21.58	1.491	1.73	7.17	173.2	1.64	
1135	84.60	21.57	1.504	1.76	7.15	173.4	1.35	
1137	84.60	21.57	1.508	1.77	7.15	173.8	1.48	

Final SWL: 84.60
Total Vol.: 3 gal

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW26D
Date of Field Visit: 3.13.12
Field Staff: mike Palm
Mike Ladeau
R9 Sample ID:
CLP Sample ID: YAP23 G1115

Screened Interval: 185-205
Static WL: 83.15
Line Depth: 121.85
Gal/ft line 0.0102 gal
System Volume: 1.24
3 System Volumes: 3.72
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1055	83.50	21.53	0.569	4.69	7.59	136.5	0.15	
1058	83.50	21.55	0.545	0.53	7.71	59.3	0.37	
1101	83.50	21.57	0.547	0.39	7.71	39.7	0.18	
1104	83.50	21.56	0.547	0.34	7.71	30.3	0.42	
1107	83.50	21.57	0.547	0.31	7.71	13.1	0.57	
1110	83.50	21.58	0.547	0.29	7.71	2.0	0.66	

Final SWL: 83.50
Total Vol.: 4 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW27A
Date of Field Visit: 3-14-12
Field Staff: mike Palm
mike Ladeau
R9 Sample ID:
CLP Sample ID: Y88D2 @ 1110
Y88J3 @ 1210

Screened Interval: 110-115
Static WL: 86.12
Line Depth: 28.88
Gal/ft line 0.0102 gal
System Volume: 0.29
3 System Volumes: 0.88
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1050	86.12	22.38	2.107	4.83	7.23	53.4	6.29	
1053	86.12	22.60	2.178	2.37	7.03	-72.6	4.66	
1056	86.12	22.54	2.155	1.41	7.01	-58.0	0.59	
1059	86.12	22.58	2.121	0.72	7.01	-29.5	0.17	
1102	86.12	22.52	2.097	0.43	7.02	-8.7	0	
1105	86.12	22.49	2.087	0.35	7.02	7.4	0	
1108	86.12	22.49	2.084	0.32	7.02	16.6	0	
ReSample								
1159	86.15	22.23	2.003	4.10	7.39	154.3	0	
1202	86.19	22.72	1.988	1.06	7.17	154.5	0	
1205	86.19	22.60	1.984	0.50	7.11	140.11	0	
1208		22.56	1.980	0.32	7.09	136.02	0	

Final SWL: 86.12
Total Vol.: 1.5 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW27B
Date of Field Visit: 3.14.12
Field Staff: mike Palm
mike Ladrow
R9 Sample ID:
CLP Sample ID: MW27D1 @ 1015

Screened Interval: 144-164
Static WL: 85.90
Line Depth: 78.10
Gal/ft line 0.0102 gal
System Volume: 0.79
3 System Volumes: 2.38
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1000	86.09	22.14	1.946	3.94	7.12	-66.2	3.62	
1003	86.09	22.78	1.903	0.36	7.22	-134.3	0.19	
1006	86.03	22.91	1.935	0.23	7.25	-129.9	1.45	
1009	86.03	22.99	1.936	0.19	7.26	-131.0	1.35	
1012	86.03	22.97	1.935	0.17	7.25	-130.6	0.86	

Final SWL: 85.93
Total Vol.: 3 gal.

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW27C
Date of Field Visit: 3.14.12
Field Staff: mike Palm
mike Ladeau
R9 Sample ID:
CLP Sample ID: [illegible]

Screened Interval: 180-190
Static WL: 92.45
Line Depth: 97.55
Gal/ft line 0.0102 gal
System Volume: 0.99
3 System Volumes: 3 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0902	97.80	22.47	1.148	0.66	7.47	-184.8	0.12	
[illegible]	97.80	22.94	0.931	0.23	7.75	-187.1	0.11	
0908	98.20	23.00	0.933	0.19	7.74	-188.4	0	
[illegible]	98.26	23.01	0.953	0.17	7.74	-188.4	0	
[illegible]	98.26	23.03	0.982	0.17	7.73	-186.3	0	
[illegible]	98.26	23.03	0.995	0.16	7.72	-187.7	0	

Final SWL: 98.10
Total Vol.: 3.5 gal.

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW27D
Date of Field Visit: 3.14.12
Field Staff: Mike Palm
Mike Ladrau
R9 Sample ID:
CLP Sample ID: Y8RC8 @ 0835 Y8RC9 @ 0845

Screened Interval: 200-210
Static WL: 95.23
Line Depth: 114.77
Gal/ft line 0.0102 gal
System Volume: 1.17
3 System Volumes: 3.51
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0803	95.05	21.62	1.077	3.68	6.64	161.4	0.38	
0806	95.05	22.33	1.107	1.28	6.75	-114.5	0.18	
0809	95.05	22.49	1.112	0.47	7.26	-165.9	0	
0812	95.17	22.56	1.071	0.34	7.52	-172.8	0	
0815	95.26	22.62	1.044	0.26	7.63	-170.2	0.58	
0818	95.26	22.65	1.039	0.22	7.66	-171.3	0.10	
0821	95.26	22.69	1.037	0.20	7.67	-171.6	0	
0824	95.26	22.72	1.035	0.19	7.68	-171.8	0	
0827	95.26	22.76	1.036	0.18	7.68	-167.6	0	
0830	95.26	22.78	1.035	0.16	7.69	-167.3	0	

Final SWL: 95.26
Total Vol.: 3.75 gal.

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW28
Date of Field Visit: 3.19.12
Field Staff: Mike Palm
mike Lodge
R9 Sample ID:
CLP Sample ID: 488F2 @ 0850 Dup. 488F3 @ 0900

Screened Interval: 85-105
Static WL: 82.26
Line Depth: 82.74
Gal/ft line 0.0102 gal
System Volume: 0.23
3 System Volumes: 0.69
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0833	82.40	18.43	2.161	4.02	6.91	78.4	0.81	
0836	82.40	19.13	2.204	1.93	6.78	83.1	0.37	
0839	82.40	19.56	2.351	0.71	6.71	86.3	0.25	
0842	84.40	19.64	2.375	0.51	6.70	88.7	0.17	
0845	84.40	19.66	2.379	0.50	6.69	91.3	0.17	
0848	84.40	19.66	2.379	0.49	6.69	92.1	0.32	

Final SWL: 84.40
Total Vol.: 1.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW29
Date of Field Visit: 3.22.12
Field Staff: Mike Palm
Mike Lodge
R9 Sample ID:
CLP Sample ID: MW29J2 @ 1135

Screened Interval: 90-110
Static WL: 86.35
Line Depth: 23.65
Gal/ft line 0.0102 gal
System Volume: 0.24
3 System Volumes: 0.72
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1117	86.40	23.18	1.942	6.29	7.40	129.7	0	
1120	86.40	23.16	2.043	3.87	7.25	147.0	0	
1123	86.40	23.10	2.157	2.29	7.15	157.5	0	
1126	86.40	23.03	2.199	1.70	7.13	156.4	0	
1129	86.40	23.00	2.199	1.64	7.10	153.2	0	
1132	86.40	22.99	2.196	1.59	7.08	153.8	0	

Final SWL: 86.40
Total Vol.: 1.5 gal

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW30
Date of Field Visit: 3.19.12
Field Staff: Mike Hahn
Mike Ladeau
R9 Sample ID:
CLP Sample ID: Y8851 @ 0800

Screened Interval: 95-115
Static WL: 94.63
Line Depth: 20.37
Gal/ft line 0.0102 gal
System Volume: 0.20
3 System Volumes: 0.62
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0739	94.65	21.62	2.516	0.89	6.71	126.4	28.3	
0742	94.65	21.70	2.889	0.73	6.73	-7.3	7.44	
0745	94.65	21.91	3.052	0.65	6.72	-37.0	2.80	
0748	94.65	22.03	3.122	0.66	6.72	-44.7	0.78	
0751	94.65	22.12	3.152	0.59	6.72	-58.7	0.35	
0754	94.65	22.13	3.159	0.55	6.71	-63.2	0.68	
0757	94.65	22.13	3.160	0.50	6.71	-64.8	0.23	

Final SWL: 94.65
Total Vol.: 1.5 gal

A.2 3Q2012 Well Purge Forms

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW1A
Date of Field Visit: 10/5/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HN0 9:50

Screened Interval: 45-60 feet bgs
Static WL: 40.87 ft bgs
Line Depth: 19.13 ft
Gal/ft line 0.0102 gal
System Volume: 0.195 gal
3 System Volumes: 0.585 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:40	40.86	22.79	1.352	4.69	7.41	189.6	0.22	
9:43	40.87	22.63	1.355	4.30	6.53	240.0	0.08	
9:46	40.87	22.59	1.355	4.25	6.90	216.3	-0.07	
9:49	40.87	22.58	1.355	4.25	7.04	211.6	-0.26	

Final SWL: 40.86 ~~gal~~ ft bgs
Total Vol.: 2 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW1B
Date of Field Visit: 10/5/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: 48HM9 9:20

Screened Interval: 75-85 feet bgs
Static WL: 40.91 ft bgs
Line Depth: 44.09 ft
Gal/ft line 0.0102 gal
System Volume: 0.450 gal
3 System Volumes: 1.350 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:07	40.96	22.82	1.285	2.34	7.72	171.6	-0.17	
9:10	40.96	22.64	1.352	1.96	7.57	174.0	0.84	
9:13	40.96	22.58	1.361	1.92	7.54	173.5	0.55	
9:16	40.96	22.58	1.361	1.90	7.53	170.2	0.00	
9:19	40.96	22.58	1.360	1.85	7.52	165.8	0.24	

Final SWL: 40.94 ft bgs
Total Vol.: 1.5 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW2
Date of Field Visit: 10/5/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HM8 8:30

Screened Interval: 45-60 feet bgs
Static WL: 37.51 ft bgs
Line Depth: 22.49 ft
Gal/ft line 0.0102 gal
System Volume: 0.229 gal
3 System Volumes: 0.688 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:17	37.48	22.56	1.977	2.61	6.79	248.2	0.57	
8:20	37.48	22.57	1.965	2.51	6.89	238.7	-0.28	
8:23	37.48	22.58	1.963	2.47	6.97	231.3	-0.28	

Final SWL: 37.31
Total Vol.: 0.8 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW3
Date of Field Visit: 9/27/12
Field Staff: M. Palm, K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HH9 11:30

Screened Interval: 38-48 feet bgs
Static WL: 35.27 ft bgs
Line Depth: 12.73
Gal/ft line 0.0102 gal
System Volume: 0.130 gal
3 System Volumes: 0.390 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
11:20								Well will not purge; hand bailed

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW4A
Date of Field Visit: 9/26/12
Field Staff: Mike Palm
Krystle Remmen
R9 Sample ID:
CLP Sample ID: Y8HG6 8:00

Screened Interval: 43-53 feet bgs
Static WL: 32.16 ft bgs
Line Depth: 20.84 ft
Gal/ft line 0.0102 gal
System Volume: 0.213 gal
3 System Volumes: 0.638 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:45	32.16	22.97	2.547	4.93	6.95	255.6	0.76	
7:48	32.18	22.52	2.542	2.18	6.84	246.0	1.00	
7:51	32.18	22.46	2.535	1.84	6.84	238.0	0.71	
7:54	32.18	22.44	2.531	1.67	6.84	235.2	0.03	
7:57	32.19	22.45	2.529	1.56	6.84	237.1	-0.18	

Final SWL: 32.16
Total Vol.: 3.5 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW4B
Date of Field Visit: 9/25/12
Field Staff: Mike Palm, Krystle Remmen
R9 Sample ID:
CLP Sample ID:

Screened Interval: 70-80 feet bgs
Static WL: 33.15 ft bgs
Line Depth: 46.85 ft
Gal/ft line 0.0102 gal
System Volume: 0.478 gal
3 System Volumes: 1.434 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
10:32	33.15	25.08	1.241	6.51	7.33	106.9	5.21	
10:35	32.13	23.12	2.548	3.57	6.83	135.2	0.58	
10:38	32.05	22.74	2.656	2.37	6.81	143.8	-0.61	
10:41	32.40	22.68	2.669	2.17	6.80	150.8	5.75	
10:44	32.05	22.64	2.671	2.15	6.80	156.8	2.40	
10:47		22.64	2.671	2.18	6.80	161.6		Car battery died; pump stopped
10:52	32.15	23.50	2.714	2.26	6.81	146.9	4.12	restart
10:55	32.05	22.52	2.666	2.19	6.80	157.1	1.98	
10:58	32.14	22.44	2.660	2.00	6.80	166.1	1.98	

Final SWL: 32.03
Total Vol.: 5 gal

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW4C
Date of Field Visit: 9/25/12
Field Staff: Mike Palm
Krystle Remmen
R9 Sample ID:
CLP Sample ID: Y8HG[redacted]3 10:20

Screened Interval: 89-99 feet bgs
Static WL: 34.60 ft bgs
Line Depth: 64.4 ft
Gal/ft line 0.0102 gal
System Volume: 0.657 gal
3 System Volumes: 1.97 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
10:06	34.64	23.58	1.165	12.34	7.67	-44.1	5.68	
10:09	34.63	22.22	1.349	3.90	7.13	7.6	3.56	
10:12	34.63	22.06	1.358	3.67	7.09	50.4	4.71	
10:15	34.64	22.04	1.347	3.68	7.09	79.8	2.66	
10:18	34.64	22.02	1.344	3.66	7.08	101.5	1.39	

Final SWL: ~~35.8~~ 34.58
Total Vol.: 4 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW5
Date of Field Visit: 9/26/12
Field Staff: M. Palm, K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HG8 9:20

Screened Interval: 43-53 feet bgs
Static WL: 34.71 ft bgs
Line Depth: 18.29 ft
Gal/ft line 0.0102 gal
System Volume: 0.187 gal
3 System Volumes: 0.560 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:07	34.76	22.65	1.902	5.45	6.94	189.3	-0.10	
9:10	34.76	22.40	1.939	2.94	6.86	191.1	0.07	
9:13	34.76	22.36	1.935	2.73	6.85	191.2	-0.19	
9:16	34.76	22.32	1.932	2.67	6.85	190.8	-0.68	

Final SWL: 34.71
Total Vol.: 2.75 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW6
Date of Field Visit: 10/3/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HM0 11:45

Screened Interval: 37-47 feet bgs
Static WL: 35.15 ft bgs
Line Depth: 11.85 ft
Gal/ft line 0.0102 gal
System Volume: 0.121 gal
3 System Volumes: 0.363 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
11:31	~~35.14~~ 35.14	22.57	1.783	6.15	7.45	181.0	0.00	
11:34	35.14	22.22	1.815	5.85	7.33	168.9	0.00	
11:37	35.14	22.19	1.817	5.73	6.88	185.6	-0.20	
11:40	35.14	22.15	1.813	5.64	6.95	171.3	-0.20	

Final SWL: 35.15 ft bgs
Total Vol.: 2.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW7
Date of Field Visit: 9/27/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8H10 12:00

Screened Interval: 36-46 feet bgs
Static WL: 28.73 ft. bgs
Line Depth: 17.27 ft.
Gal/ft line 0.0102 gal
System Volume: 0.176 gal
3 System Volumes: 0.528 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
12:00								hand bail

Final SWL:
Total Vol.:

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW8A
Date of Field Visit: 9/27/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: V8HH8 10:30

Screened Interval: 30-45 feet bgs
Static WL: 36.15 ~~ft~~ bgs
Line Depth: 8.85 ~~ft~~
Gal/ft line 0.0102 gal
System Volume: 0.0903 gal
3 System Volumes: 0.271 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
10:24	~~35.95~~ 36.19	22.35	2.188	3.33	6.77	261.6	0.22	
10:27	36.19	22.20	2.190	3.31	6.74	254.9	-0.66	
10:30	36.19	22.20	2.190	3.30	6.73	250.8	0.60	

Final SWL: 36.15
Total Vol.: 2 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW8B
Date of Field Visit: 9/27/12
Field Staff: K. Remmen
M. Palm
R9 Sample ID:
CLP Sample ID: V8HH7 10:05

Screened Interval: 65-75 feet bgs
Static WL: 35.97 ~~37.25~~ ft bgs
Line Depth: 39.03 ~~37.75~~ ft
Gal/ft line 0.0102 gal
System Volume: 0.398 ~~0.385~~ gal
3 System Volumes: 1.194 ~~1.15~~ gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:54	35.95	~~23.78~~	1.529	5.50	7.15	233.1	0.96	
9:57	35.95	~~22.98~~	1.578	4.76	6.95	232.3	1.69	
10:00	35.95	~~22.36~~	1.610	4.12	6.92	230.0	1.17	
10:03	35.95	~~22.27~~	1.610	4.06	6.91	227.6	1.05	

Final SWL: 35.94
Total Vol.: 1.75 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW8C
Date of Field Visit: 9/27/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HH6 9:35

Screened Interval: 87-92 feet bgs
Static WL: 37.25 ft bgs
Line Depth: 54.75 ft ~~bgs~~
Gal/ft line 0.0102 gal
System Volume: 0.558 gal
3 System Volumes: 1.675 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:23	37.50	22.92	1.385	3.94	7.40	221.0	1.17	
9:26	37.50	22.40	1.508	2.38	6.96	227.9	0.99	
9:29	37.50	22.35	1.567	2.92	6.94	226.1	1.09	
9:31	37.50	22.33	1.576	3.14	6.93	225.0	0.76	
9:34	37.50	22.32	1.580	3.21	6.93	224.2	0.89	

Final SWL: 37.32
Total Vol.: 2 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW8D
Date of Field Visit: 9/27/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HH5 09:00

Screened Interval: 110-120 feet bgs
Static WL: 44.17 ft bgs
Line Depth: 75.83 ft
Gal/ft line 0.0102 gal
System Volume: 0.773 gal
3 System Volumes: 2.320 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:49	44.41	21.99	1.112	4.41	7.59	173.8	0.77	
8:52	44.42	21.71	1.253	1.21	7.29	184.8	2.74	
8:55	44.44	21.65	1.280	0.81	7.28	185.7	1.48	
8:58	44.42	21.66	1.282	0.58	7.27	186.6	0.83	
9:01	44.42	21.67	1.282	0.54	7.26	185.0	1.17	

Final SWL: 44.20
Total Vol.: 3.25 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW9A
Date of Field Visit: 10.8.12
Field Staff: Mike Palm
Hun Jung
R9 Sample ID:
CLP Sample ID:

Screened Interval: 25-35 feet bgs
Static WL: 34.83
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								not enough water to purge
								or sample

Final SWL:
Total Vol.:

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW9B
Date of Field Visit: 10/8/12
Field Staff: Mike palm, Hun Jung
R9 Sample ID:
CLP Sample ID:

Screened Interval: 50-60 feet bgs
Static WL: 41.41
Line Depth: 18.59
Gal/ft line 0.0102 gal
System Volume: 0.19
3 System Volumes: 0.57
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
10:20	41.43	21.91	1.890	4.16	7.39	163.3	0	
10:24	41.42	21.93	1.910	4.24	7.34	165.5	0	
10:27	41.42	21.92	1.920	3.77	7.32	166.2	0	
10:30	41.42	21.91	1.922	3.67	7.28	169.4	0.46	
10:33	41.42	21.92	1.925	3.69	7.22	172.3	0	
10:36	41.41	21.90	1.925	3.62	7.18	174.8	0	

Final SWL: 41.42
Total Vol.: 1.25 gal

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: ~~MW10~~ ~~MW12~~ MW10
Date of Field Visit: ~~9/27/12~~ 10/11/12
Field Staff: ~~M. Palina~~ M. Mayry
~~K. Brennen~~
R9 Sample ID:
CLP Sample ID: Y8HP4

Screened Interval: 52-62 feet bgs
Static WL: ~~35.27 ft bgs~~ 42.71 ft bgs
Line Depth: ~~26.73 ft~~ 19.29 ft
Gal/ft line 0.0102 gal
System Volume: ~~0.273 gal~~ .197 gal
3 System Volumes: ~~0.818 gal~~ 0.59 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
~~11:20~~	—	—	—	—	—	—	—	~~purging extremely slow, hand bailing~~
0742	42.80	21.92	2.216	4.54	7.12	230.1	1.12	
0745	42.82	21.87	2.264	4.23	7.15	227.4	0.71	
0748	42.80	21.88	2.270	3.69	7.15	223.8	0.28	
0751	42.81	21.88	2.263	4.09	7.17	218.5	0.38	
0754	42.80	21.89	2.226	4.22	7.23	214.5	0.09	

Final SWL: 42.76 ft bgs
Total Vol.: 3.0 gallon

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW11
Date of Field Visit: 10/1/12
Field Staff: M. Palm
K. Remmers
R9 Sample ID:
CLP Sample ID:

Screened Interval: 40-50 feet bgs
Static WL: 44.15 ft bgs
Line Depth: 5.85 ft
Gal/ft line 0.0102 gal
System Volume: 0.060 gal
3 System Volumes: 0.179 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								hand bail

Final SWL:
Total Vol.:

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW12
Date of Field Visit: 10/9/12
Field Staff: Mike Palm, Hun Tung
R9 Sample ID:
CLP Sample ID:

Screened Interval: 82-97
Static WL: 90.75
Line Depth: 6.25
Gal/ft line 0.0102 gal
System Volume: 0.06
3 System Volumes: 0.2
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:48	91.52	22.70	1.357	9.03	7.21	193.9	8.69	Use Passive Sampling Method
9:51	91.81	22.68	1.360	5.28	7.10	191.3	4.47	
9:54	92.15	22.68	1.357	3.36	7.04	188.5	2.21	
9:57	92.51	22.68	1.345	2.92	7.01	186.8	4.75	
10:00	93.01	22.69	1.334	3.03	7.00	185.5	8.34	

Final SWL: 96.7
Total Vol.: ~~76.7~~ 1.00 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW13A
Date of Field Visit: 9/28/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HJ4 8:30

Screened Interval: 56-66
Static WL: 65.70 ft bgs
Line Depth: 0.30 ft
Gal/ft line 0.0102 gal
System Volume: 0.0031
3 System Volumes: 0.0092
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:30								hand bailed; only able to sample for 5 VOAs and 1 amber (bailer came up dry)

Final SWL:
Total Vol.:

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW13B
Date of Field Visit: 9/28/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: 48HJ5 9:00

Screened Interval: 123-133
Static WL: 90.89 ft bgs
Line Depth: 42.11
Gal/ft line 0.0102 gal
System Volume: 0.430 gal
3 System Volumes: 1.29 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:36	90.92	22.96	1.666	6.06	7.48	205.8	0.27	
8:39	90.92	22.54	1.656	3.84	7.21	211.4	-0.04	
8:42	90.92	22.49	1.648	3.31	7.11	213.5	0.10	
8:45	90.92	22.53	1.639	3.03	7.07	213.9	0.10	
8:48	90.92	22.54	1.639	3.04	7.06	214.1	0.08	
8:51	90.92	22.53	1.641	2.91	7.05	213.6	0.08	
8:54	90.92	22.53	1.647	2.83	7.05	212.9	0.00	

Final SWL: 90.91
Total Vol.: 1.75 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW14
Date of Field Visit: 9/28/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HJ2 7:45

Screened Interval: 60-75
Static WL: 54.02 ft bgs
Line Depth: 20.98 ft.
Gal/ft line 0.0102 gal
System Volume: 0.214 gal
3 System Volumes: 0.642 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:36	54.10	23.15	2.120	4.55	6.71	279.2	0.16	
7:39	54.10	22.75	2.123	3.69	6.68	272.1	0.24	
7:42	54.10	22.76	2.098	3.57	6.68	266.4	-0.04	

Final SWL: 54.02 ft bgs
Total Vol.: 2.5 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW15
Date of Field Visit: 9/26/12
Field Staff: Mike Palm
Krystle Remmen
R9 Sample ID:
CLP Sample ID: YBHG7 8:45

Screened Interval: 50-70
Static WL: 32.30 ft bgs
Line Depth: 37.70 ft
Gal/ft line 0.0102 gal
System Volume: 0.385 gal
3 System Volumes: 1.154 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:30	32.45	24.11	2.200	5.23	7.35	177.8	-0.12	
8:33	32.45	22.12	2.459	1.17	6.90	185.3	6.93	
8:36	32.45	22.03	2.444	0.86	6.87	176.1	5.85	
8:39	32.45	21.99	2.438	0.80	6.86	159.2	4.19	
8:41	32.45	21.99	2.437	0.81	6.86	146.2	1.36	
8:44	32.46	21.99	2.438	0.79	6.85	137.1	0.71	

Final SWL: 32.43
Total Vol.: 3.5 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW16A
Date of Field Visit: 10.8.12
Field Staff: mike Pam Hun Jung
R9 Sample ID:
CLP Sample ID: Y8H N3 @ 0830

Screened Interval: 45-60
Static WL: 56.90 ft bgs
Line Depth:
Gal/ft line 0.0102 gal
System Volume: System Volume = bottom of screened interval minus Static WL * Gal/ft line
3 System Volumes:
Sampling Equipment: Dedicated bladder pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								Not enough water to purge
								took a grab sample

Final SWL:
Total Vol.:

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW16B
Date of Field Visit: 10/8/2012
Field Staff: Mike palm, Hun Jung
R9 Sample ID:
CLP Sample ID: Y8HN1@805 Y8HN2@810

Screened Interval: 106-116
Static WL: 58.56 ft bgs
Line Depth: 57.44
Gal/ft line 0.0102 gal
System Volume: 0.59 gal
3 System Volumes: 1.76 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:34	58.52	21.91	1.683	3.02	7.44	222.2	4.01	
7:37	58.53	21.88	1.681	2.70	7.50	216.3	25.7	
7:40	58.54	21.85	1.681	2.61	7.52	212.3	18.8	
7:43	58.54	21.85	1.682	2.61	7.53	208.6	9.84	
7:47	58.54	21.85	1.681	2.52	7.53	204.8	6.19	
7:50	58.55	21.84	1.681	2.48	7.53	201.8	4.44	
7:53	58.55	21.84	1.680	2.51	7.53	198.6	2.79	
7:57	58.54	21.84	1.680	2.50	7.53	197.8	2.61	
8:00	58.55	21.84	1.680	2.50	7.54	195.8	2.15	

Final SWL: 58.55
Total Vol.: 2.5 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW16C
Date of Field Visit: 10/4/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HM6 11:45

Screened Interval: 149-164
Static WL: 62.15 ft bgs
Line Depth: 101.85 ft
Gal/ft line 0.0102 gal
System Volume: 1.039 gal
3 System Volumes: 3.117 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
11:30	62.25	21.70	1.106	1.69	7.03	82.5	-1.35	
11:33	62.25	21.53	1.115	0.85	7.19	43.9	3.67	
11:36	62.26	21.45	1.112	0.64	6.71	82.1	-0.07	
11:39	62.26	21.43	1.115	0.63	6.79	81.8	-0.97	
11:42	62.26	21.41	1.120	0.63	6.86	82.1	-1.12	

Final SWL: 62.25 ft bgs
Total Vol.: 3.75 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW17A
Date of Field Visit: 10/9/12
Field Staff: Mike Palm, Hun Jung

R9 Sample ID:
CLP Sample ID:

Screened Interval: 56-71
Static WL: 76.30 (dry)
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Bailer

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments

Final SWL:
Total Vol.:

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW17B
Date of Field Visit: 10/9/12
Field Staff: Mike Patm, Hun Jung

R9 Sample ID:
CLP Sample ID:

Screened Interval: 94-104
Static WL: 74.58
Line Depth: 29.42
Gal/ft line 0.0102 gal
System Volume: 0.3
3 System Volumes: 0.9
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:21	74.60	21.60	1.495	7.71	7.28	210.2	0	
8:24	74.58	21.52	1.544	4.35	7.13	212.2	0	
8:27	74.61	21.52	1.577	3.65	7.09	212.9	0.14	
8:30	74.59	21.55	1.606	3.20	7.06	212.9	0.09	
8:33	74.63	21.55	1.614	3.11	7.06	212.3	0	
8:36	74.58	21.55	1.620	3.00	7.06	211.3	0.44	

Final SWL: 74.59
Total Vol.: 1.5 (gal)

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW17C
Date of Field Visit: 10/9/12
Field Staff: Miko Palm, Hyun Tung

R9 Sample ID:
CLP Sample ID:

Screened Interval: 172-182
Static WL: 92.12
Line Depth: 89.88
Gal/ft line 0.0102 gal
System Volume: 0.92
3 System Volumes: 2.76
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:43	92.14	21.40	0.712	2.56	6.97	249.1	D	
7:46	92.14	21.31	0.628	1.63	7.35	233.1	4.06	
7:49	92.16	21.29	0.631	1.65	7.44	226.4	0.93	
7:52	92.15	21.28	0.647	1.74	7.47	221.7	6	
7:55	92.18	21.27	0.667	1.82	7.48	218.0	D	
7:58	92.16	21.27	0.679	1.90	7.49	216.0	D	
8:01	92.19	21.28	0.691	1.98	7.49	213.4	D	

Final SWL: 92.16
Total Vol.: 3.2 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW18A
Date of Field Visit: 9/25/12
Field Staff: Mike Palm, Krystle Remmen
R9 Sample ID:
CLP Sample ID: Y8H62 9:20

Screened Interval: 56-71
Static WL: 34.65 ft bgs
Line Depth: 36.35 ft
Gal/ft line 0.0102 gal
System Volume: 0.371 gal
3 System Volumes: 1.112 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:03	34.65	22.21	2.345	2.77	7.16	-177.1	-0.59	
9:06	34.65	21.51	2.401	1.52	7.00	-125.2	1.23	
9:09	34.65	21.46	2.405	1.45	6.98	-50.0	0.76	
9:12	34.65	21.46	2.400	1.51	6.98	-10.1	-0.53	
9:15	34.65	21.46	2.371	1.53	6.98	-44.5	1.23	

Final SWL: 34.65
Total Vol.: 5 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW18B
Date of Field Visit: 9/25/12
Field Staff: Mike Palm
Krystle Remmer
R9 Sample ID:
CLP Sample ID: Y8HG1 8:45

Screened Interval: 90-100
Static WL: 34.60 ft bgs
Line Depth: 65.4 ft
Gal/ft line 0.0102 gal
System Volume: 0.667 gal
3 System Volumes: 2.00 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:22	34.65	21.87	2.237	1.99	7.14	-192.5	-0.09	
8:25	34.64	21.33	2.292	1.76	7.13	-112.5	3.23	
8:28	34.60	21.24	2.305	2.09	7.14	-0.5	4.56	
8:31	34.60	21.22	2.308	2.13	7.14	-43.8	4.29	
8:34	34.60	21.20	2.309	2.75	7.15	-136.3	3.71	
8:37	34.60	21.23	2.310	2.12	7.14	-156.6	-0.21	
8:40	34.60	21.23	2.312	2.25	7.13	-168.4	2.13	
8:43	34.60	21.23	2.313	2.12	7.13	-171.7	1.01	

Final SWL: 34.60
Total Vol.: 5 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW18C
Date of Field Visit: 9/25/12
Field Staff: Mike Palm
Krystle Remmen
R9 Sample ID:
CLP Sample ID: Y8HG0 8:10

Screened Interval: 146-161
Static WL: 37.95 ft bgs
Line Depth: 123.05 ft
Gal/ft line 0.0102 gal
System Volume: 1.255 gal
3 System Volumes: 3.765 gal
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:44	38.15	21.59	0.886	3.75	6.63	217.3	0.49	
7:47	38.50	21.13	1.064	0.47	7.07	205.4	0.81	
7:50	38.52	21.09	0.959	0.33	7.27	197.7	0.55	
7:53	38.58	21.08	0.909	0.28	7.34	193.2	0.71	
7:56	38.40	21.07	0.892	0.25	7.38	188.9	0.65	
7:59	38.58	21.07	0.887	0.25	7.38	188.3	0.11	
8:02	38.40	21.07	0.884	0.24	7.39	186.0	0.53	
8:05	38.50	21.06	0.881	0.24	7.40	183.5	-1.42	

Final SWL: 38.20
Total Vol.: 5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW19
Date of Field Visit: 10/1/12
Field Staff: M. Palm
K. Remmer
R9 Sample ID:
CLP Sample ID:

Screened Interval: 56-71
Static WL:
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Bailer

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								Dry at 74.45

Final SWL:
Total Vol.:

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW20A
Date of Field Visit: 10/2/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HL3 11:55

Screened Interval: 75-90
Static WL: 77.50 ft bgs
Line Depth: 12.50 ft
Gal/ft line 0.0102 gal
System Volume: 0.1275 gal
3 System Volumes: 0.3825 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
11:46	77.50	24.45	1.678	3.45	6.94	140.5	-0.24	
11:49	77.50	23.35	1.637	2.30	6.86	133.4	-0.04	
11:52	77.50	23.08	1.626	2.04	6.83	127.0	-0.17	

Final SWL: 77.50 ft bgs
Total Vol.: 1.25 gal

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW20B
Date of Field Visit: 10/2/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: 48H22 11:30

Screened Interval: 122-132
Static WL: 78.12 ft bgs
Line Depth: ~~58~~. 53.88 ft
Gal/ft line 0.0102 gal
System Volume: 0.550 gal
3 System Volumes: 1.649 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
11:16	78.08	23.92	1.651	4.32	6.98	103.5	-0.10	
11:19	78.08	22.98	1.546	2.75	7.02	99.8	-0.29	
11:22	78.08	22.77	1.520	2.62	7.01	99.0	0.10	
11:25	78.08	22.50	1.513	2.57	6.96	100.5	0.03	

Final SWL: 78.10 ft bgs
Total Vol.: 8.25 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW20C
Date of Field Visit: 10/2/12
Field Staff: M. Palm, K. Remmen
R9 Sample ID:
CLP Sample ID: 78HL1 11:00

Screened Interval: 180-190
Static WL: 99.36 ~~ft~~ bgs
Line Depth: 90.64 ft
Gal/ft line 0.0102 gal
System Volume: 0.925 gal
3 System Volumes: 2.774 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
10:37	98.45	25.38	0.875	2.23	7.20	-3.0	-0.52	
10:40	98.32	23.16	0.739	0.48	7.48	-89.6	-0.52	
10:43	98.32	22.98	0.677	0.33	7.62	-97.1	-0.52	
10:46	98.32	22.87	0.675	0.25	7.37	-73.8	-0.50	
10:49	98.32	22.87	0.762	0.21	7.05	-61.6	-0.48	
10:52	98.32	22.83	0.812	0.23	7.19	-64.8	-0.69	
10:55	98.32	22.88	0.832	0.23	7.28	-89.3	-0.52	
10:58	98.32	22.88	0.841	0.23	7.32	-70.7	-0.42	

Final SWL: 98.35
Total Vol.: 3 gal

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW21
Date of Field Visit: 10/1/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HK5 11:25

Screened Interval: 64-79
Static WL: 62.32 ft bgs
Line Depth: 16.68 ft
Gal/ft line 0.0102 gal
System Volume: 0.170 gal
3 System Volumes: 0.510 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
11:09	62.35	22.50	1.515	3.37	6.80	181.0	0.05	
11:12	62.35	20.95	1.456	3.26	6.65	174.9	0.88	
11:15	62.35	20.90	1.450	3.06	6.43	182.7	0.00	
11:18	62.35	20.89	1.447	3.00	6.18	194.4	0.30	
11:21	62.35	20.89	1.448	2.81	6.09	191.8	0.27	

Final SWL: 62.32 ft bgs
Total Vol.: 3.25 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW22
Date of Field Visit: 10/1/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HK2 10:35

Screened Interval: 74-89
Static WL: 74.92 ft bgs
Line Depth: 14.08 ft
Gal/ft line 0.0102 gal
System Volume: 0.144 gal
3 System Volumes: 0.431 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
10:27	74.95	22.69	1.471	7.28	6.99	156.4	1.28	
10:30	74.95	21.37	1.445	6.70	6.89	156.5	3.24	
10:33	74.95	21.05	1.435	6.38	6.87	156.9	3.64	

Final SWL: 74.93 ft bgs
Total Vol.: 1.25 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW23A
Date of Field Visit: 9/27/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HH4 8:00

Screened Interval: 35-55
Static WL: 35.36 ft bgs
Line Depth: 19.64 ft
Gal/ft line 0.0102 gal
System Volume: 0.2005 gal
3 System Volumes: 0.601 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:48	35.40	22.03	2.004	2.77	6.77	299.4	1.14	
7:51	35.40	21.96	1.917	2.33	6.79	283.5	1.38	
7:54	35.40	21.97	1.917	2.35	6.77	276.5	0.35	
7:57	35.40	21.98	1.923	2.28	6.71	276.1	-0.05	

Final SWL: 35.40
Total Vol.: 1.75 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW23B
Date of Field Visit: 9/26/12
Field Staff: M. Palm, K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HH3 12:50

Screened Interval: 87-97
Static WL: 36.97 ft bgs
Line Depth: 60.03 ft
Gal/ft line 0.0102 gal
System Volume: 0.6123 gal
3 System Volumes: 1.837 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
12:34	37.35	24.02	1.721	2.75	7.34	99.1	7.08	
12:37	37.40	22.63	1.676	1.45	7.13	102.6	7.72	
12:40	37.42	22.44	1.712	1.77	7.04	109.0	3.77	
12:43	37.45	22.34	1.732	1.89	7.01	113.2	3.00	
12:46	37.45	22.23	1.740	1.93	7.00	115.8	1.92	
12:49	37.45	22.20	1.744	1.98	7.00	117.9	2.07	

Final SWL: 37.05
Total Vol.: 5 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW23C
Date of Field Visit: 9/26/12
Field Staff: M. Palm
K. Remmer
R9 Sample ID:
CLP Sample ID: Y8HH1 11:40

Screened Interval: 145-160
Static WL: 41.60 ft bgs
Line Depth: 118.4 ft
Gal/ft line 0.0102 gal
System Volume: 1.208 gal
3 System Volumes: 3.623 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
11:24	42.2	22.49	2.167	1.77	7.20	164.4	1.01	
11:27	42.2	21.88	2.337	0.52	6.93	163.8	1.73	
11:30	42.2	21.80	2.345	0.47	6.91	160.2	1.02	
11:33	42.2	21.74	2.338	0.46	6.90	157.5	0.67	
11:36	42.2	21.68	2.295	0.42	6.90	153.5	1.46	
11:39	42.2	21.68	2.236	0.42	6.92	153.0	0.63	

Final SWL: 41.65
Total Vol.: 5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW23D
Date of Field Visit: 9/26/12
Field Staff: M. Palm, K. Remmen
R9 Sample ID:
CLP Sample ID: ~~[illegible]~~ Y8HG9 11:00

Screened Interval: 175-185
Static WL: 42.50 ft bgs
Line Depth: 142.50 ft
Gal/ft line 0.0102 gal
System Volume: 1.454 gal
3 System Volumes: 4.361 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
10:40	42.85	23.20	1.956	7.48	7.36	126.9	-0.33	
10:43	42.63	22.28	1.930	1.10	7.10	133.1	1.30	
10:46	42.65	22.20	1.930	1.01	7.15	129.5	1.53	
10:49	42.70	22.08	1.930	1.00	7.15	130.8	1.42	
10:52	42.70	22.04	1.930	1.00	7.15	130.6	1.25	

Final SWL: 42.56
Total Vol.: 2.5 gal

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW24A
Date of Field Visit: 9/28/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: V8H09 11:40

Screened Interval: 50-70
Static WL: 44.35 ft bgs
Line Depth: 25.65 ft
Gal/ft line 0.0102 gal
System Volume: 0.262 gal
3 System Volumes: 0.785 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
11:30	44.33	25.00	2.044	5.01	6.83	157.6	-0.26	
11:33	44.33	24.49	2.094	2.36	6.75	155.1	-0.26	
11:36	44.33	24.24	2.101	4.66	6.81	155.2	-0.26	

Final SWL: 44.34 ft bgs
Total Vol.: 1.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW24B
Date of Field Visit: 9/28/12
Field Staff: M. Palm, K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HJ8 11:15

Screened Interval: 110-125
Static WL: 51.02 ft bgs
Line Depth: 73.98 ft
Gal/ft line 0.0102 gal
System Volume: 0.755 gal
3 System Volumes: 2.264 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
10:54	51.10	25.45	1.613	3.92	7.04	153.1	1.24	
10:57	51.10	23.93	1.596	1.86	7.14	138.8	1.74	
11:00	51.09	23.68	1.591	1.92	7.17	133.3	2.97	
11:03	51.05	23.63	1.533	1.75	7.18	127.4	2.94	
11:06	51.10	23.69	1.527	1.62	7.18	122.0	2.37	
11:09	51.05	23.69	1.528	1.62	7.18	119.1	2.75	
11:12	51.08	23.64	1.527	1.64	7.18	117.8	2.40	

Final SWL: 51.03 ft bgs
Total Vol.: 3.00 gal

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW24~~B~~C
Date of Field Visit: 9/28/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: 48HJ7 10:40

Screened Interval: ~~173-178~~ 140-160
Static WL: 51.88 ft bgs
Line Depth: 108.12 ft
Gal/ft line 0.0102 gal
System Volume: 1.103 gal
3 System Volumes: 3.308 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
10:17	51.35	23.47	1.455	2.41	7.24	32.2	2.53	
10:20	51.38	23.34	1.433	3.54	7.16	57.8	1.24	
10:23	51.37	23.33	1.429	3.58	7.16	70.7	1.23	
10:26	51.40	23.21	1.428	3.64	7.15	79.5	0.47	
10:29	51.40	23.21	1.438	3.55	7.14	86.3	0.10	
10:31	51.40	23.28	1.446	3.46	7.14	91.3	0.10	
10:34	51.40	23.09	1.452	4.17	7.32	107.6	0.10	
10:37	51.40	23.19	1.454	3.51	7.14	102.5	0.10	

Final SWL: 51.35 ft bgs
Total Vol.: 2.6 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

173-178

Well ID: MW24~~8~~ D
Date of Field Visit: ~~8~~/23/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HU6 9:55

Screened Interval: ~~138-180~~
Static WL: 51.35 ft bgs
Line Depth: ~~109.65~~ ft 126.65
Gal/ft line 0.0102 gal
System Volume: ~~1.108~~ gal 1.292
3 System Volumes: ~~3.32~~ gal 3.875
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:39	56.85	23.17	1.249	1.77	7.36	-107.9	0.06	
9:42	59.80	22.58	1.250	0.27	7.39	-146.9	0.08	
9:45	61.95	22.56	1.239	0.23	7.34	-176.7	0.00	
9:48	64.22	22.57	1.241	0.20	7.34	-183.1	0.00	
9:51	65.60	22.57	1.242	0.19	7.37	-183.7	0.06	

Final SWL: 51.30 ft bgs
Total Vol.: 4 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW25A
Date of Field Visit: 10/4/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: V8HMS 10:15

Screened Interval: 45-65
Static WL: 47.14 ft bgs
Line Depth: 17.86 ft
Gal/ft line 0.0102 gal
System Volume: 0.182 gal
3 System Volumes: 0.546 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
10:03	47.12	23.09	1.688	5.69	5.84	157.7	-1.22	
10:06	47.12	22.66	1.691	5.29	6.67	164.0	-1.30	
10:09	47.12	22.66	1.693	5.23	6.48	174.6	-1.61	
10:12	47.12	22.66	1.690	5.26	6.20	190.0	-1.42	
10:15	47.12	22.65	1.691	5.35	6.19	189.6	-1.42	

Final SWL: 47.11 ft bgs
Total Vol.: 2.25 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW25B
Date of Field Visit: 10/4/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HM4 9:50

Screened Interval: 90-110
Static WL: 47.77 ft bgs
Line Depth: 62.23 ft
Gal/ft line 0.0102 gal
System Volume: 0.655 gal
3 System Volumes: 1.904 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:24	47.78	23.60	1.707	5.61	7.10	161.6	11.1	
9:27	47.78	22.97	1.808	2.87	6.96	164.9	9.05	
9:30	47.78	22.87	1.845	2.61	6.94	164.0	16.1	
9:33	47.78	22.78	1.843	2.56	6.94	161.7	7.40	
9:36	47.78	22.78	1.832	2.53	6.94	159.8	6.05	
9:39	47.78	22.74	1.823	2.50	6.94	157.3	5.60	
9:42	47.78	22.78	1.820	2.51	6.94	156.0	5.88	
9:45	47.79	22.78	1.819	2.78	6.94	156.4	4.83	

Final SWL: 47.78 ft bgs
Total Vol.: 2.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW25C
Date of Field Visit: 10/4/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HM3 9:05

Screened Interval: 140-150
Static WL: 52.31 ft bgs
Line Depth: 97.69 ft
Gal/ft line 0.0102 gal
System Volume: 0.996 gal
3 System Volumes: 2.989 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:47	53.20	22.31	0.519	2.26	6.66	207.7	-1.31	
8:50	53.58	21.96	0.476	0.51	6.62	210.7	-1.55	
8:53	54.06	21.87	0.471	0.30	6.58	210.0	-1.55	
8:56	54.42	21.87	0.470	0.23	7.10	174.1	-1.83	
8:59	54.54	21.87	0.469	0.22	7.22	162.6	-1.56	
9:02	54.47	22.05	0.470	0.25	7.30	155.4	-1.74	

Final SWL: 54.20 ft bgs
Total Vol.: 3.75 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW25D
Date of Field Visit: 10/4/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: 48HM2 8:20

Screened Interval: 194-209
Static WL: 80.08 ft bgs
Line Depth: 128.92 ft
Gal/ft line 0.0102 gal
System Volume: 1.315 gal
3 System Volumes: 3.945 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:45	80.08	23.08	0.506	4.58	6.89	214.4	-1.09	
7:48	80.08	22.45	0.499	1.92	7.01	202.8	-0.72	
7:51	80.08	22.26	0.472	1.66	7.02	201.2	-0.08	
7:54	80.08	22.21	0.462	1.68	6.90	204.3	-0.34	
7:57	80.08	22.19	0.460	1.65	6.89	201.4	-0.83	
8:00	80.08	22.18	0.459	1.64	6.89	197.5	-2.22	
8:03	80.08	22.17	0.458	1.65	6.91	194.4	-3.00	
8:06	80.08	22.17	0.458	1.61	6.89	193.0	-3.28	
8:11	80.08	21.92	0.457	1.76	6.84	193.0	-1.39	
8:16	80.08	21.80	0.463	2.13	6.89	189.1	-1.61	
8:20	80.08	21.81	0.468	2.21	6.81	193.8	-1.59	

Final SWL: 80.11 ft bgs
Total Vol.: 5 gal

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW26A
Date of Field Visit: 10/12/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HL0 9:20

Screened Interval: 70-90
Static WL: 77.64 ft bgs
Line Depth: 12.36 ft
Gal/ft line 0.0102 gal
System Volume: 0.126 gal
3 System Volumes: 0.378 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:13	77.65	23.20	1.682	5.88	6.99	178.2	-0.22	
9:16	77.66	23.02	1.778	5.15	6.89	172.0	-0.39	
9:19	77.66	22.88	1.818	4.67	6.84	166.7	-0.39	

Final SWL: 77.53 ft bgs
Total Vol.: 1 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW26B
Date of Field Visit: 10/2/12
Field Staff: M. Palm, K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HK9 9:00

Screened Interval: 105-120
Static WL: 77.68 ft bgs
Line Depth: 42.32 ft
Gal/ft line 0.0102 gal
System Volume: 0.432 gal
3 System Volumes: 1.295 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:43	77.70	22.61	1.705	3.46	7.01	140.3	1.57	
8:46	77.68	22.23	1.783	2.84	6.85	144.1	4.33	
8:47	77.68	22.17	1.781	2.74	6.49	160.8	2.11	
8:51	77.68	22.15	1.782	2.73	6.67	153.1	1.73	

Final SWL:
Total Vol.: 3.75 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW26C
Date of Field Visit: 10/8/12
Field Staff: M. Palm
K. Remmer
R9 Sample ID:
CLP Sample ID: Y8HK8 8:25

Screened Interval: 145-160
Static WL: 91.57 ft bgs
Line Depth: 68.43 ft
Gal/ft line 0.0102 gal
System Volume: 0.698 gal
3 System Volumes: 2.094 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:12	92.15	22.83	1.57	3.73	7.20	86.8	1.51	
8:15	92.20	22.18	1.353	2.16	7.00	97.6	0.67	
8:18	92.27	22.09	1.424	2.29	6.97	105.3	0.67	
8:21	92.25	22.06	1.442	2.35	6.92	113.5	0.21	

Final SWL: ~~3~~ 91.75 ft bgs
Total Vol.: 3 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW26D
Date of Field Visit: 10/2/12
Field Staff: M. Palm
K. Remmer
R9 Sample ID:
CLP Sample ID: Y8HK7 8:00

Screened Interval: 185-205
Static WL: 93.31 ft bgs
Line Depth: 111.69 ft
Gal/ft line 0.0102 gal
System Volume: 1.140 gal
3 System Volumes: 3.418 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:42	93.60	22.83	0.453	5.37	~~7.36~~	213.5	0.10	
7:45	93.60	22.12	0.435	0.81	~~7.35~~	25.7	0.00	
7:48	93.60	22.07	0.445	0.40	7.47	0.8	0.57	
7:51	93.60	22.07	0.448	0.32	7.35	-9.8	-0.13	
7:54	93.60	22.07	0.449	0.28	7.42	-24.8	-0.06	
7:57	93.60	22.10	0.451	0.28	7.45	-31.5	0.49	
8:00	93.60	22.11	0.451	0.28	7.51	-37.0	0.14	

Final SWL: 93.31 ft bgs
Total Vol.: 3.75 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW27A
Date of Field Visit: 10/3/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HL8 10:30

Screened Interval: 110-115
Static WL: 86.52 ft bgs
Line Depth: 28.48 ft
Gal/ft line 0.0102 gal
System Volume: 0.290 gal
3 System Volumes: 0.871 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
10:16	86.54	25.36	1.691	4.53	7.72	54.9	2.52	
10:19	86.53	24.17	1.756	2.26	7.58	3.0	0.03	
10:22	86.53	23.72	1.768	0.96	7.54	-13.0	-0.27	
10:25	86.53	23.63	1.776	0.62	7.49	-17.2	-0.27	
10:28	86.53	23.70	1.787	0.55	7.44	-15.2	-0.27	

Final SWL: 86.53 ft bgs
Total Vol.: 1.25 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW27B
Date of Field Visit: 10/3/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8W48 9:45

Screened Interval: 144-164
Static WL: 86.45 ft bgs
Line Depth: 77.55 ft
Gal/ft line 0.0102 gal
System Volume: 0.791 gal
3 System Volumes: 2.373 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:17	86.31	24.85	1.517	5.94	7.79	-4.07	0.25	
9:20	86.31	23.77	1.543	1.57	7.67	-85.7	error	
9:23	86.31	23.52	1.557	0.86	7.76	-82.3	error	(changed battery on turb. meter)
9:26	86.31	23.47	1.578	0.51	7.79	-83.9	1.08	
9:29	86.31	23.45	1.580	0.42	7.79	-85.8	0.91	
9:31	86.31	23.48	1.580	1.43	7.82	-90.3	0.45	
9:33	86.31	23.47	1.580	0.78	7.79	-86.1	0.13	
9:36	86.31	23.49	1.579	0.47	7.79	-83.5	0.24	
9:39	86.31	23.50	1.576	0.40	7.79	-84.5	0.16	
9:42	86.31	23.48	1.573	0.38	7.79	-82.8	0.52	

Final SWL: 86.31 ft bgs
Total Vol.: 2.75 gal

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW27C
Date of Field Visit: 10/3/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: 48HL7 9:00

Screened Interval: 180-190
Static WL: 98.90 ft bgs
Line Depth: 91.10 ft
Gal/ft line 0.0102 gal
System Volume: 0.929 gal
3 System Volumes: 2.788 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:38	101.72	23.58	0.835	2.08	7.64	-4.74	0.45	
8:41	102.80	23.36	0.833	0.55	7.49	-109.5	0.34	
8:44	103.26	23.46	0.791	0.38	7.92	-142.6	-0.15	
8:47	103.66	23.46	0.795	0.34	7.98	-150.0	-0.36	
8:50	104.00	23.46	0.809	0.27	8.06	-158.2	-0.96	
8:53	104.21	23.47	0.825	0.25	8.12	-164.6	0.00	
8:56	104.10	23.51	0.834	0.25	8.12	-164.0	0.10	

Final SWL: 101.60 ft bgs
Total Vol.: 3.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW27D
Date of Field Visit: 10/3/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y84L5 8:20

Screened Interval: 200-210
Static WL: 105.15 ft bgs
Line Depth: 104.85 ft
Gal/ft line 0.0102 gal
System Volume: 1.070 gal
3 System Volumes: 3.208 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:51	105.20	23.75	0.859	3.28	7.43	-73.0	0.37	
7:54	105.11	23.43	0.870	0.58	7.99	-153.6	0.11	
7:57	105.11	23.46	0.868	0.45	8.13	-153.4	0.00	
8:00	105.11	23.47	0.866	0.40	8.18	-153.2	0.03	
8:03	105.10	23.49	0.863	0.35	8.18	-148.2	0.00	
8:06	105.09	23.49	0.862	0.33	8.19	-149.9	-0.06	
8:09	105.09	23.51	0.861	0.31	8.19	-145.7	-0.33	
8:12	105.09	23.53	0.859	0.28	8.18	-145.1	0.00	

Final SWL: 105.18 ft bgs
Total Vol.: 4 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW28
Date of Field Visit: 10/1/12
Field Staff: M. Palm
K. Remmer
R9 Sample ID:
CLP Sample ID: Y8HK1 10:00

Screened Interval: 85-105
Static WL: 84.45 ft bgs
Line Depth: 20.55 ft
Gal/ft line 0.0102 gal
System Volume: 0.2096 gal
3 System Volumes: 0.629 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:48	84.45	21.42	1.832	3.70	6.84	111.7	-0.54	
9:51	84.47	21.06	1.776	1.53	6.58	126.2	-0.49	
9:54	84.48	20.91	1.728	0.88	6.23	143.7	-0.56	
9:57	84.48	20.88	1.711	0.78	6.28	141.4	-0.94	

Final SWL: 84.45 ft bgs
Total Vol.: 2 gal

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW~~39~~ 29
Date of Field Visit: 10/8/2012
Field Staff: Mike palm, Hun Jung.

R9 Sample ID:
CLP Sample ID: Y8HN4

Screened Interval: ~~95-115~~ 90-110
Static WL: 22.52
Line Depth: 87.48
Gal/ft line 0.0102 gal
System Volume: 0.23
3 System Volumes: 0.69
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:10	87.49	23.24	1.734	6.15	7.47	166.2	0.05	
9:13	87.48	23.05	1.831	4.65	7.42	168.4	0	
9:16	87.48	22.99	1.932	3.76	7.37	168.9	0	
9:19	87.48	22.97	2.015	2.97	7.33	168.6	0	
9:22	87.49	22.98	2.067	2.50	7.31	168.1	0	
9:25	87.48	22.98	2.077	2.40	7.31	167.7	0	
9:28	87.49	22.98	2.091	2.25	7.30	167.4	0	
9:31	87.49	22.99	2.100	2.14	7.30	167.1	0	

Final SWL: 87.49
Total Vol.: 1.25 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW~~20~~ 30
Date of Field Visit: 10/1/12
Field Staff: M. Palm
K. Remmen
R9 Sample ID:
CLP Sample ID: Y8HKØ 9:00

Screened Interval: ~~90-110~~ 95 - 115
Static WL: ~~98.25~~ ft bgs
Line Depth: ~~11.75 ft~~ 16.75 ft
Gal/ft line 0.0102 gal
System Volume: ~~0.120 gal~~ 0.171 gal
3 System Volumes: ~~0.360 gal~~ 0.513 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:48	98.27	24.69	1.680	6.33	7.38	180.1	1.78	
8:51	98.27	23.81	2.049	1.68	6.77	16.1	5.85	
8:54	98.27	23.74	2.075	0.82	6.72	9.2	5.33	
8:57	98.27	23.72	2.071	0.61	6.72	0.2	3.69	
8:58	98.27	23.68	2.058	0.57	6.71	-2.9	3.48	

Final SWL: 98.15 ft bgs
Total Vol.: 2.4 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW31
Date of Field Visit: 10/3/12
Field Staff: mike palm, Hum Jung

R9 Sample ID:
CLP Sample ID:

Screened Interval: 106-121
Static WL: 99.33
Line Depth: 31.67
Gal/ft line 0.0102 gal
System Volume: 0.22
3 System Volumes: 0.66
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
11:19	99.41	22.46	1.391	6.67	7.49	155.0	0.54	
11:22	99.40	22.30	1.464	5.05	7.36	158.7	1.62	
11:25	99.42	22.16	1.480	4.64	7.28	163.9	1.86	
11:28	99.43	22.14	1.504	4.53	7.14	173.1	2.42	

Final SWL: 99.35
Total Vol.: 1.25 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW32
Date of Field Visit: 10-11-12
Field Staff: M. Mesing, H. Jung
R9 Sample ID:
CLP Sample ID: Y8HP6

Screened Interval: 163-178
Static WL: 89.17
Line Depth: 88.83
Gal/ft line 0.0102 gal
System Volume: 0.9 gal
3 System Volumes: 2.7 gal.
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

1.4 liter = 1 gallon

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1010	89.17	21.10	1.435	2.52	7.48	41.2	25.7	
1013	89.18	21.11	1.519	1.96	7.39	49.9	21.6	
1016	89.17	21.19	1.542	1.83	7.36	55.1	15.2	
1019	89.17	21.23	1.551	1.61	7.34	59.1	9.8	
1022	89.17	21.23	1.555	1.42	7.33	62.5	6.34	
1025	89.18	21.29	1.557	1.34	7.33	65.3	5.75	
1028	89.17	21.35	1.559	1.28	7.33	67.4	3.60	
1031	89.17	21.41	1.561	1.28	7.32	68.9	4.36	
1034	89.18	21.45	1.563	1.26	7.32	69.9	1.94	
1037	89.17	21.51	1.563	1.31	7.32	69.7	2.37	

Final SWL: 89.17
Total Vol.: 3.25 gal

A.3 1Q2013 Well Purge Forms

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW1A
Date of Field Visit: 3.11.13
Field Staff: mike Palm
mike Ladeau
R9 Sample ID: —
CLP Sample ID: Y8P22 @ 0725 Dup. Y8P23 @ 0735

Screened Interval: 45-60 feet bgs
Static WL: 43.21
Line Depth: 16.79
Gal/ft line 0.0102 gal
System Volume: 0.17
3 System Volumes: 0.51
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0710	43.25	19.72	1.096	4.06	6.98	31.0	3.07	
0713	43.25	20.95	1.330	3.25	7.07	4.4	5.33	
0716	43.25	21.12	1.335	3.07	7.08	3.4	3.89	
0719	43.25	21.16	1.335	3.01	7.08	3.1	3.61	
0722	43.25	21.17	1.336	3.01	7.08	2.4	3.02	

Final SWL: 43.25
Total Vol.: 1.5 gal

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW1B
Date of Field Visit: 3-11-13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: —
CLP Sample ID: Y8P24 @ 0815

Screened Interval: 75-85 feet bgs
Static WL: 43.08
Line Depth: 41.92
Gal/ft line 0.0102 gal
System Volume: 0.42
3 System Volumes: 1.28
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0759	43.15	20.14	1.158	3.82	7.30	7.3	200	
0802	43.15	20.69	1.195	2.05	7.19	4.2	1.62	
0805	43.15	20.94	1.221	1.40	7.14	2.1	1.49	
0808	43.15	20.94	1.225	1.37	7.12	0.8	1.36	
0811	43.15	20.95	1.225	1.33	7.11	0.4	1.22	
0814	43.15	20.98	1.225	1.24	7.11	-0.1	1.24	

Final SWL: 43.15
Total Vol.: 2 gal.

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW2
Date of Field Visit: 2.27.13
Field Staff: mike Palm
mike Ladeau
R9 Sample ID: —
CLP Sample ID: Y8NY1 @ 0745 DUP - Y8NY2 @ 0800

Screened Interval: 45-60 feet bgs
Static WL: 39.48
Line Depth: 20.52
Gal/ft line 0.0102 gal
System Volume: 0.20
3 System Volumes: 0.62
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0725	39.50	20.00	1.786	4.42	6.80	2.5	2.59	
0728	39.50	20.84	1.913	2.77	6.84	-7.4	1.86	
0731	39.50	21.10	1.940	2.06	6.85	-15.3	1.25	
0734	39.50	21.14	1.943	1.97	6.84	-18.6	1.26	
0737	39.50	21.17	1.944	1.92	6.83	-19.6	1.10	
0740	39.50	21.21	1.945	1.89	6.83	-20.5	1.21	

Final SWL: 39.50
Total Vol.: 2 gal.

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW3
Date of Field Visit: 3.11.13
Field Staff: mike Palm
mike Ladow
R9 Sample ID: —
CLP Sample ID: 48P25 @ 0855

Screened Interval: 38-48 feet bgs
Static WL: 37.05
Line Depth: 10.95
Gal/ft line 0.0102 gal
System Volume: 0.11
3 System Volumes: 0.33
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								unable to get water to
								surface. Hand bailed sample

Final SWL: —
Total Vol.: —

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW4A
Date of Field Visit: 2.26.13
Field Staff: mike Palm
mike Ladeau
R9 Sample ID: –
CLP Sample ID: Y8NX9 @ 0830

Screened Interval: 43-53 feet bgs
Static WL: 34.26
Line Depth: 19.00
Gal/ft line 0.0102 gal
System Volume: 0.19
3 System Volumes: 0.58
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0813	34.30	21.26	2.571	2.87	6.88	-15.6	0.88	
0816	34.30	21.45	2.589	1.71	6.92	-17.7	0.67	
0819	34.30	21.48	2.587	1.66	6.92	-17.4	0.75	
0822	34.30	21.48	2.585	1.63	6.91	-17.6	0.63	
0825	34.30	21.47	2.584	1.59	6.91	-17.3	0.79	
								Field Blank - Y8NY0 @ 0900

Final SWL: 34.30
Total Vol.: 2.5 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW4B
Date of Field Visit: 2·26·13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: —
CLP Sample ID: Y8NX8 @ 0755

Screened Interval: 70-80 feet bgs
Static WL: 34.27
Line Depth: 45.73
Gal/ft line 0.0102 gal
System Volume: 0.46
3 System Volumes: 1.39
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0738	34.30	20.28	1.734	5.42	6.65	-2.7	3.05	
0741	34.30	20.95	2.725	2.36	6.91	-19.1	1.50	
0744	34.30	20.97	2.740	2.05	6.91	-18.9	1.88	
0747	34.30	20.99	2.735	1.93	6.90	-18.7	1.35	
0750	34.30	20.96	2.729	1.93	6.90	-18.3	1.38	
0753	34.30	20.95	2.726	1.91	6.90	-18.0	1.32	

Final SWL: 34.30
Total Vol.: 2.5 gal.

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW4C
Date of Field Visit: 2·26·12
Field Staff: mike Palm
mike Ladeau
R9 Sample ID: –
CLP Sample ID: Y8NX7 @ 0725

Screened Interval: 89-99 feet bgs
Static WL: 36.54
Line Depth: 62.46
Gal/ft line 0.0102 gal
System Volume: 0.63
3 System Volumes: 1.91
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0709	36.55	20.28	1.219	4.37	7.10	-12.5	2.43	
0712	36.55	20.73	1.321	3.39	7.20	-20.3	6.48	
0715	36.55	20.82	1.312	3.36	7.20	-21.3	6.44	
0718	36.55	20.79	1.301	3.38	7.20	-20.9	5.05	
0721	36.55	20.76	1.301	3.38	7.19	-20.2	4.68	

Final SWL: 36.55
Total Vol.: 2.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW5
Date of Field Visit: 2.27.13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: –
CLP Sample ID: Y8NY4 @ 0940

Screened Interval: 43-53 feet bgs
Static WL: 37.31
Line Depth: 15.69
Gal/ft line 0.0102 gal
System Volume: 0.16
3 System Volumes: 0.48
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0925	37.35	21.55	2.036	3.82	6.81	-17.9	1.53	
0928	37.35	21.65	2.062	2.71	6.85	-22.2	1.69	
0931	37.35	21.65	2.062	2.24	6.86	-24.1	1.28	
0934	37.35	21.67	2.061	2.29	6.85	-25.2	1.01	
0937	37.35	21.68	2.061	2.03	6.84	-25.7	1.06	

Final SWL: 37.35
Total Vol.: 2.5 gal

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW6
Date of Field Visit: 2.27.13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: —
CLP Sample ID: YBNY1 @ 1025

Screened Interval: 37-47 feet bgs
Static WL: 37.55
Line Depth: 9.45
Gal/ft line 0.0102 gal
System Volume: 0.09
3 System Volumes: 0.28
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1010	37.55	21.39	1.751	4.81	6.79	-12.7	1.59	
1013	37.55	21.46	1.772	4.81	6.69	-15.4	1.50	
1016	37.55	21.46	1.771	4.68	6.76	-18.5	1.23	
1019	37.55	21.46	1.769	4.62	6.79	-22.2	1.32	
1022	37.55	21.45	1.767	4.60	6.82	-23.8	1.04	

Final SWL: 37.55
Total Vol.: 2 gal

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW7
Date of Field Visit: 2.25.13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: –
CLP Sample ID: Y8NX5 @ 1130

Screened Interval: 36-46 feet bgs
Static WL: 30.16
Line Depth: –
Gal/ft line 0.0102 gal
System Volume: –
3 System Volumes: –
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								No pump in well, hand bailed
								Sample
								Field Blank-Y8NX6 @ 1230

Final SWL: –
Total Vol.: –

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW8A
Date of Field Visit: 3.5.13
Field Staff: mike Palm
mike Ladeau
R9 Sample ID: –
CLP Sample ID: YBP18 @ 1130

Screened Interval: 30-45 feet bgs
Static WL: 38.60
Line Depth: 6.40
Gal/ft line 0.0102 gal
System Volume: 0.06
3 System Volumes: 0.19
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1111	38.64	20.54	1.877	3.20	6.84	-25.4	2.05	
1114	38.64	20.95	1.876	2.34	6.89	-31.3	2.08	
1117	38.64	21.01	1.876	2.33	6.89	-32.6	2.15	
1120	38.64	21.06	1.875	[illegible]	6.89	-33.4	2.21	
1123	38.64	21.10	1.875	2.32	6.89	-35.8	1.75	

Final SWL: 38.64
Total Vol.: 1.5 gal

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW8B
Date of Field Visit: 3.5.13
Field Staff: Mike Palm
Mike Ladew
R9 Sample ID: —
CLP Sample ID: Y8P19 @ 1240

Screened Interval: 65-75 feet bgs
Static WL: 38.47
Line Depth: 36.53
Gal/ft line 0.0102 gal
System Volume: 0.37
3 System Volumes: 1.11
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1227	38.55	21.43	1.417	3.38	7.06	-27.5	2.12	
1230	38.55	21.50	1.629	2.97	6.97	-30.1	2.37	
1233	38.55	21.54	1.636	3.01	6.97	-31.5	1.87	
1236	38.55	21.55	1.636	3.08	6.97	-31.9	1.46	
								Field Blank- Y8P21 @ 1330

Final SWL: 38.55
Total Vol.: 2 gal.

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW8C
Date of Field Visit: 3.5.13
Field Staff: Mike Palm
mike Ladeau
R9 Sample ID: —
CLP Sample ID: YBP19 @ 1215

Screened Interval: 87-92 feet bgs
Static WL: 39.72
Line Depth: 52.28
Gal/ft line 0.0102 gal
System Volume: 0.53
3 System Volumes: 1.59
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1157	39.98	21.19	1.307	2.82	7.11	-21.5	1.15	
1200	39.98	21.39	1.535	2.56	7.00	-28.1	1.27	
1203	39.98	21.39	1.567	2.67	6.99	-29.4	1.39	
1206	39.98	21.38	1.570	2.78	6.99	-29.9	1.33	
1209	39.98	21.40	1.572	2.78	6.99	-30.8	1.20	

Final SWL: 39.98
Total Vol.: 2.5 gal.

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW8D
Date of Field Visit: 3.5.13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: –
CLP Sample ID: 48P 17@ 1050

Screened Interval: 110-120 feet bgs
Static WL: 45.98
Line Depth: 74.02
Gal/ft line 0.0102 gal
System Volume: 0.75
3 System Volumes: 2.26
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1023	46.10	20.76	1.012	3.34	7.50	-28.5	0.96	
1026	46.10	20.93	1.187	1.98	7.33	-37.9	1.10	
1029	46.10	20.93	1.238	1.28	7.32	-39.8	1.18	
1032	46.10	20.97	1.246	1.00	7.30	-40.6	1.03	
1035	46.10	20.99	1.246	0.97	7.31	-40.9	1.04	
1038	46.10	21.02	1.247	0.92	7.30	-41.2	0.74	
1041	46.10	21.11	1.246	0.87	7.31	-42.2	0.92	
1044	46.10	21.09	1.243	0.85	7.30	-42.2	0.62	

Final SWL: 46.10
Total Vol.: 3 gal.

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW9A
Date of Field Visit: 2.25.13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: —
CLP Sample ID: —

Screened Interval: 25-35 feet bgs
Static WL: 34.51
Line Depth: 0.49
Gal/ft line 0.0102 gal
System Volume: 0.004
3 System Volumes: 0.01
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								Not enough water to purge or
								Sample.

Final SWL: —
Total Vol.: —

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW9B
Date of Field Visit: 2.25.13
Field Staff: mike Ladeau
mike Palm
R9 Sample ID: —
CLP Sample ID: 48NX4 @ 1045

Screened Interval: 50-60 feet bgs
Static WL: 43.26
Line Depth: 16.74
Gal/ft line 0.0102 gal
System Volume: 0.17
3 System Volumes: 0.51
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1032	43.30	20.16	1.833	4.78	6.99	-53.7	0	
1035	43.30	20.58	1.841	3.64	6.92	-63.4	1.65	
1038	43.30	20.70	1.847	3.32	6.89	-69.0	1.71	
1041	43.30	20.71	1.847	3.30	6.90	-70.1	0.44	
1044	43.30	20.70	1.847	3.24	6.89	-70.9	0.36	

Final SWL: 43.30
Total Vol.: 2.5 gal.

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW10
Date of Field Visit: 2·25·13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: –
CLP Sample ID: YBNX3 @ 0950

Screened Interval: 52-62 feet bgs
Static WL: 44.57
Line Depth: 17.43
Gal/ft line 0.0102 gal
System Volume: 0.17
3 System Volumes: 0.53
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0940	44.65	21.30	2.035	4.25	6.90	-49.4	2.28	
0943	44.65	21.63	2.109	2.84	6.85	-56.3	1.59	
0946	44.65	21.62	2.105	2.86	6.84	-57.9	1.29	
0949	44.65	21.54	2.098	2.93	6.86	-58.4	0.70	

Final SWL: 44.65
Total Vol.: 2 gal.

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW11
Date of Field Visit: 3-11-13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: —
CLP Sample ID: 48P26 @ 0930

Screened Interval: 40-50 feet bgs
Static WL: 43.06
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments

Final SWL:
Total Vol.:

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW12
Date of Field Visit: 3-13-13
Field Staff: Mike Palm
Mike Ladaw
R9 Sample ID: —
CLP Sample ID: 48P37 @ 0720

Screened Interval: 82-97
Static WL: 91.04
Line Depth: 5.96
Gal/ft line 0.0102 gal
System Volume: 0.06
3 System Volumes: 0.18
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0705	91.42	21.15	1.363	2.94	7.01	-31.3	2.72	Use Passive Sampling Method
0708	91.42	21.23	1.351	2.61	7.00	-32.6	3.11	
0711	91.42	21.05	1.328	2.72	7.02	-30.4	5.38	
0714	91.42	21.10	1.329	2.76	7.00	-30.2	6.75	
0717	91.42	21.17	1.331	2.78	7.00	-30.5	6.04	

Final SWL: 91.42
Total Vol.: 1.5 gal.

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW13A
Date of Field Visit: 2·27·13
Field Staff: mike Palm
mike Ladeau
R9 Sample ID: —
CLP Sample ID: Y8NY6 @ 1110

Screened Interval: 56-66
Static WL: 67.96 TD - 88.70.90
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								No Pump in well, Hand bailed well
								only got samples for TVOA, TVOA-SIM
								and 1 SVOA

Final SWL: —
Total Vol.: —

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW13B
Date of Field Visit: 2.27.13
Field Staff: Mike Palm
Mike Ladson
R9 Sample ID: —
CLP Sample ID: 48NY7 @ 1150

Screened Interval: 123-133
Static WL: 91.91
Line Depth: 41.09
Gal/ft line 0.0102 gal
System Volume: 0.41
3 System Volumes: 1.25
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1130	91.94	21.14	1.596	5.24	7.20	-16.1	0.90	
1133	91.94	21.44	1.612	3.68	7.01	-24.7	1.20	
1136	91.94	21.46	1.612	2.82	6.96	-27.9	1.17	
1139	91.94	21.44	1.609	2.83	7.02	-31.5	1.38	
1142	91.94	21.43	1.607	2.73	7.04	-32.9	1.17	
1145	91.94	21.40	1.602	2.68	7.05	-34.2	1.10	
								Field Blank - 48NY8 @ 1230

Final SWL: 91.94
Total Vol.: 2.5 gal

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW14
Date of Field Visit: 3.12.13
Field Staff: Mike Palm
Mike Ladson
R9 Sample ID: –
CLP Sample ID: 48P30 ⊖ LAB QC

Screened Interval: 60-75
Static WL: 55.90
Line Depth: 19.10
Gal/ft line 0.0102 gal
System Volume: 0.19
3 System Volumes: 0.58
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0701	56.00	21.78	2.115	3.75	6.83	22.8	1.35	
0704	56.00	22.06	2.127	2.91	6.85	-8.0	1.45	
0707	56.00	22.08	2.097	2.49	6.87	-8.1	2.50	
0710	56.00	22.09	2.097	2.50	6.87	-8.3	1.93	
0713	56.00	22.10	2.100	2.50	6.87	-8.3	1.47	

Final SWL: 56.00
Total Vol.: 2 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW15
Date of Field Visit: 2.27.13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: –
CLP Sample ID: Y8NY3 @ 0900

Screened Interval: 50-70
Static WL: 34.43
Line Depth: 35.57
Gal/ft line 0.0102 gal
System Volume: 0.36
3 System Volumes: 1.08
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0845	34.62	21.16	2.163	4.15	6.87	-18.7	1.84	
0848	34.62	21.28	2.309	2.37	6.91	-25.1	5.15	
0851	34.62	21.32	2.322	0.90	6.90	-27.7	8.35	
0854	34.62	21.34	2.320	0.87	6.89	-28.6	5.03	
0857	34.62	21.33	2.320	0.86	6.88	-29.5	3.55	

Final SWL: 34.62
Total Vol.: 3gal.

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW16A
Date of Field Visit: 3.12.13
Field Staff: Mike Palm
Mike Ladew
R9 Sample ID: -
CLP Sample ID: Y8P33 @ 0918

Screened Interval: 45-60
Static WL: 60.36 TD 63.60
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								Hand bailed sample

Final SWL: —
Total Vol.: —

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW16B
Date of Field Visit: 3-12-13
Field Staff: mike Palm
mike Ladow
R9 Sample ID: —
CLP Sample ID: Y8P35 @ 1020

Screened Interval: 106-116
Static WL: 61.59
Line Depth: 54.41
Gal/ft line 0.0102 gal
System Volume: 0.55
3 System Volumes: 1.66
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1004	61.60	20.61	1.618	3.37	7.11	-0.2	1.92	
1007	61.60	20.95	1.662	2.58	7.25	-9.2	4.46	
1010	61.60	21.28	1.677	2.04	7.31	-12.8	6.89	
1013	61.60	21.36	1.677	1.96	7.33	-12.9	4.15	
1016	61.60	21.43	1.676	1.92	7.31	-13.2	2.99	
1019	61.60	21.40	1.678	1.94	7.32	-13.3	2.80	
								Field Blank - Y8P36 @ 1130

Final SWL: 61.60
Total Vol.: 2 gal.

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW16C
Date of Field Visit: 3·12·13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: —
CLP Sample ID: Y8P34 @ 0945

Screened Interval: 149-164
Static WL: 64.11
Line Depth: 99.89
Gal/ft line 0.0102 gal
System Volume: 1.01
3 System Volumes: 3.05
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0932	64.15	20.86	1.147	3.24	7.13	-15.9	2.66	
0935	64.15	20.75	1.194	1.06	7.32	-23.1	3.47	
0938	64.15	20.74	1.186	0.92	7.33	-23.2	2.43	
0941	64.15	20.73	1.183	0.89	7.33	-21.8	2.57	
0944	64.15	20.73	1.181	0.88	7.35	-22.3	2.01	

Final SWL: 64.15
Total Vol.: 3.5 gal

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW17A
Date of Field Visit: 3.4.13
Field Staff: mike Palm
mike Ladeau
R9 Sample ID: —
CLP Sample ID: —

Screened Interval: 56-71
Static WL: Dry @ 75.40
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Bailer

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								Well is Dry, no Sample

Final SWL: —
Total Vol.: —

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW17B
Date of Field Visit: 3.4.13
Field Staff: mike Palm
mike Ladeau
R9 Sample ID: —
CLP Sample ID: YBP06@0810

Screened Interval: 94-104
Static WL: 78.37
Line Depth: 61.63
Gal/ft line 0.0102 gal
System Volume: 0.62
3 System Volumes: 1.88
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0753	78.40	20.03	1.473	4.50	7.09	-4.7	1.89	
0756	78.40	20.78	1.619	3.14	7.08	-18.7	0.56	
0759	78.40	20.82	1.641	2.60	7.06	-22.2	0.50	
0802	78.40	20.83	1.641	2.47	7.06	-23.7	0.86	
0805	78.40	20.85	1.639	2.41	7.05	-25.6	1.08	

Final SWL: 78.40
Total Vol.: 2.5 gal.

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW17C
Date of Field Visit: 3.4.13
Field Staff: mike Palm
mike Ladeau
R9 Sample ID: —
CLP Sample ID: V8P05 @ 0735

Screened Interval: 172-182
Static WL: 87.01
Line Depth: 94.99
Gal/ft line 0.0102 gal
System Volume: 0.96
3 System Volumes: 2.90
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0715	87.04	19.20	0.720	4.67	7.15	0.6	0.75	
0718	87.04	20.36	0.729	3.50	7.16	-12.9	0.49	
0721	87.04	20.66	0.766	2.67	7.40	-15.5	1.26	
0724	87.04	20.70	0.776	2.56	7.45	-18.3	0.56	
0727	87.04	20.69	0.776	2.47	7.47	-20.6	0.37	
0730	87.04	20.68	0.772	2.43	7.47	-22.6	0.92	
0733	87.04	20.68	0.769	2.39	7.47	-24.4	0.57	

Final SWL: 87.04
Total Vol.: 3gal.

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW18A
Date of Field Visit: 2.25.13
Field Staff: mike Palm
mike Lodeau
R9 Sample ID:
CLP Sample ID: Y8NX2 @ 0900 - LAB QC

Screened Interval: 56-71
Static WL: 36.30
Line Depth: 34.70
Gal/ft line 0.0102 gal
System Volume: 0.35
3 System Volumes: 1.06
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0845	36.29	21.38	2.170	2.43	6.97	-64.8	1.71	
0848	36.29	21.22	2.228	1.75	6.92	-53.1	2.16	
0851	36.29	21.27	2.251	1.49	6.90	-51.0	2.26	
0854	36.29	21.26	2.257	1.47	6.90	-51.9	2.48	
0857	36.29	21.26	2.260	1.48	6.90	-53.0	3.00	

Final SWL: 36.29
Total Vol.: 2.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW18B
Date of Field Visit: 2.25.13
Field Staff: Mike Palm
Mike Lodeau
R9 Sample ID:
CLP Sample ID: Y8NX1 @ 0825

Screened Interval: 90-100
Static WL: 36.25
Line Depth: 63.75
Gal/ft line 0.0102 gal
System Volume: 0.65
3 System Volumes: 1.95
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0800	36.35	20.41	2.155	3.76	7.12	-93.3	1.36	
0803	36.25	20.87	2.229	1.75	7.11	-48.2	3.83	
0806	36.25	20.81	2.236	1.99	7.14	-45.0	4.44	
0809	36.25	20.93	2.237	2.02	7.13	-52.6	4.04	
0812	36.25	20.86	2.238	2.55	7.15	-60.9	3.26	
0815	36.25	20.93	2.236	2.22	7.13	-65.6	3.43	
0818	36.25	20.89	2.234	2.03	7.11	-69.5	1.12	
0821	36.25	20.88	2.235	2.00	7.10	-70.7	0.89	
0824	36.25	20.95	2.237	2.01	7.10	-72.0	0.91	

Final SWL: 36.25
Total Vol.: 3 gal.

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW18C
Date of Field Visit: 2.25.13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: —
CLP Sample ID: Y8NX0 @ 0740

Screened Interval: 146-161
Static WL: 38.69
Line Depth: 122.31
Gal/ft line 0.0102 gal
System Volume: 1.24
3 System Volumes: 3.74
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0719	39.25	19.95	0.840	4.38	6.69	-27	1.00	
0722	39.25	20.48	1.079	0.87	7.25	-26.6	1.36	
0725	39.25	20.48	0.975	0.48	7.38	-32.1	0.97	
0728	39.25	20.49	0.913	0.31	7.42	-35.6	0.64	
0731	39.25	20.51	0.905	0.27	7.41	-36.6	0.31	
0734	39.25	20.50	0.904	0.26	7.41	-37.6	0.13	
0737	39.25	20.51	0.901	0.23	7.40	-38.2	0.08	

Final SWL: 39.25
Total Vol.: 4 gal.

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW19
Date of Field Visit: 3.13.13
Field Staff: mike Palm
mike Ladaw
R9 Sample ID: —
CLP Sample ID: —

Screened Interval: 56-71
Static WL: 74.14 TD= 74.60
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Bailer

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
								unable to get a grab with
								a bailer. no sample taken

Final SWL: —
Total Vol.: —

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW20A
Date of Field Visit: 3·13·13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: —
CLP Sample ID: Y8P40 0935

Screened Interval: 75-90
Static WL: 81.49
Line Depth: 8.51
Gal/ft line 0.0102 gal
System Volume: 0.08
3 System Volumes: 0.26
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0918	81.55	22.08	1.675	2.89	6.94	-7.0	1.606	
0921	81.55	21.10	1.632	2.03	6.90	-22.7	1.47	
0924	81.55	21.10	1.633	1.83	6.90	-24.5	1.27	
0927	81.55	21.11	1.634	1.77	6.89	-25.4	1.15	
0930	81.55	21.11	1.635	1.76	6.89	-26.6	1.18	

Final SWL: 81.55
Total Vol.: 1.5 gal

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW20B
Date of Field Visit: 3·13·13
Field Staff: Mike Palm, Mike Ladeau
R9 Sample ID: –
CLP Sample ID: Y8P39 @ 0905

Screened Interval: 122-132
Static WL: 82.03
Line Depth: 49.97
Gal/ft line 0.0102 gal
System Volume: 0.50
3 System Volumes: 1.52
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0850	82.05	21.60	1.579	2.62	7.11	-19.6	1.98	
0853	82.05	21.06	1.607	2.16	7.13	-25.4	1.72	
0856	82.05	21.02	1.603	2.09	7.11	-26.8	1.67	
0900	82.05	21.00	1.606	2.09	7.12	-27.5	1.29	
0903	82.05	20.99	1.609	2.05	7.12	-28.2	1.15	

Final SWL: 82.05
Total Vol.: 3gal

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW20C
Date of Field Visit: 3·13·13
Field Staff: Mike Palm
Mike Ladgau
R9 Sample ID: —
CLP Sample ID: YAP38 @ 0835

Screened Interval: 180-190
Static WL: 95.99
Line Depth: 94.01
Gal/ft line 0.0102 gal
System Volume: 0.95
3 System Volumes: 2.87
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0809	96.00	21.83	0.882	2.50	6.92	-24.7	1.49	
0812	96.00	21.15	0.760	0.89	7.58	-35.0	1.32	
0815	96.00	21.13	0.789	0.60	7.61	-34.9	1.25	
0818	96.00	21.10	0.865	0.52	7.57	-34.7	1.52	
0821	96.00	21.07	0.903	0.51	7.55	-34.9	1.23	
0824	96.00	21.05	0.919	0.50	7.54	-34.9	1.23	
0827	96.00	21.08	0.921	0.50	7.54	-35.1	1.13	
0830	96.00	21.07	0.925	0.50	7.54	-35.5	1.07	

Final SWL: 96.00
Total Vol.: 3.5 gal.

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW21
Date of Field Visit: 2·28·13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: —
CLP Sample ID: Y8NZ4 @ 1125

Screened Interval: 64-79
Static WL: 66.36
Line Depth: 72.64
Gal/ft line 0.0102 gal
System Volume: 0.12
3 System Volumes: 0.38
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1106	66.37	21.32	1.455	5.10	6.67	-23.1	1.90	
1109	66.37	20.65	1.431	3.16	6.42	-6.0	1.97	
1112	66.37	20.56	1.426	3.21	6.51	-8.5	1.34	
1115	66.37	20.54	1.424	3.15	6.65	-18.2	1.33	
1118	66.37	20.46	1.427	3.16	6.68	-22.5	1.11	
1121	66.37	20.51	1.428	3.23	6.70	-22.9	1.19	
								Field Blank - Y8NZ5 @ 1200

Final SWL: 66.37
Total Vol.: 2.5 gal.

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Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW22
Date of Field Visit: 2·28·13
Field Staff: mike Palm
mike Ladeau
R9 Sample ID: –
CLP Sample ID: Y8NZ3 @ 1025 LAB QC

Screened Interval: 74-89
Static WL: 79.55
Line Depth: 9.45
Gal/ft line 0.0102 gal
System Volume: 0.09
3 System Volumes: 0.28
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1007	79.60	20.31	1.381	5.53	6.65	-3.4	1.88	
1010	79.60	20.06	1.277	5.22	6.58	-2.2	4.61	
1013	79.60	20.00	1.226	5.11	6.63	-10.5	5.95	
1016	79.60	19.89	1.217	5.09	6.74	-15.4	5.08	
1019	79.60	19.88	1.215	5.03	6.76	-19.6	3.13	
1022	79.60	19.89	1.220	5.07	6.89	-25.2	3.35	

Final SWL: 79.60
Total Vol.: 2 gal.

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW23A
Date of Field Visit: 3.5.13
Field Staff: Mike Palm
mike Ladeau
R9 Sample ID: —
CLP Sample ID: Y8P16 @ 0955

Screened Interval: 35-55
Static WL: 37.83
Line Depth: 17.17
Gal/ft line 0.0102 gal
System Volume: 0.17
3 System Volumes: 0.52
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0942	37.90	21.30	1.842	3.56	6.91	-25.3	0.87	
0945	37.90	21.44	1.808	2.10	6.90	-28.2	0.27	
0948	37.90	21.44	1.806	2.11	6.92	-30.3	0.12	
0951	37.90	21.44	1.807	2.12	6.92	-31.1	0.25	

Final SWL: 37.90
Total Vol.: 1.5 gal.

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW23B
Date of Field Visit: 3.5.13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: —
CLP Sample ID: Y8P15 @ 0925

Screened Interval: 87-97
Static WL: 39.29
Line Depth: 57.71
Gal/ft line 0.0102 gal
System Volume: 0.58
3 System Volumes: 1.76
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0902	39.90	20.83	1.564	3.60	7.33	-18.8	2.14	
0905	39.90	20.99	1.601	1.94	7.11	-26.0	10.99	
0908	39.90	21.17	1.625	1.81	7.08	-27.6	5.08	
0911	39.90	21.20	1.635	1.76	7.06	-28.4	3.26	
0914	39.90	21.19	1.644	1.74	7.05	-29.8	0.74	
0917	39.90	21.19	1.648	1.73	7.04	-30.1	1.02	
0920	39.90	21.17	1.650	1.76	7.04	-31.3	0.64	

Final SWL: 39.90
Total Vol.: 2.5 gal

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW23C
Date of Field Visit: 3.5.13
Field Staff: mike Palm
mike Ladeau
R9 Sample ID: -
CLP Sample ID: Y8P14 @ 0845

Screened Interval: 145-160
Static WL: 43.58
Line Depth: 116.42
Gal/ft line 0.0102 gal
System Volume: 1.18
3 System Volumes: 3.56
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0824	44.15	21.03	2.160	3.22	7.16	-20.3	2.11	
0827	44.15	20.96	2.271	1.48	6.97	-25.9	1.28	
0830	44.15	20.94	2.271	1.20	6.96	-27.5	2.33	
0833	44.15	20.93	2.266	0.99	6.95	-28.9	1.12	
0836	44.15	20.94	2.247	0.98	6.96	-30.2	1.11	
0839	44.15	20.92	2.240	0.93	6.98	-31.9	1.06	
0842	44.15	20.90	2.236	0.89	6.97	-32.8	1.07	

Final SWL: 44.15
Total Vol.: 5 gal.

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW23D
Date of Field Visit: 3·5·13
Field Staff: mike Palm
mike Ladeau
R9 Sample ID: —
CLP Sample ID: Y8P12 @ 0755 DUP-Y8P13 @ 0810

Screened Interval: 175-185
Static WL: 44.45
Line Depth: 140.55
Gal/ft line 0.0102 gal
System Volume: 1.43
3 System Volumes: 4.30
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0716	44.90	19.57	1.180	2.06	7.13	-29.2	1.18	Had to go buy batteries
0741	44.90	20.19	1.834	1.79	7.15	-28.5	1.19	for YSI
0744	44.90	21.03	1.850	1.71	7.21	-30.0	1.22	
0747	44.90	20.90	1.851	1.83	7.22	-29.9	1.12	
0750	44.90	20.85	1.850	1.87	7.22	-30.6	1.20	
0753	44.90	20.84	1.850	1.88	7.22	-31.3	1.08	

Final SWL: 44.90
Total Vol.: 5 gal.

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW24A
Date of Field Visit: 3·1·13
Field Staff: mike Palm
mike Ledeau
R9 Sample ID: –
CLP Sample ID: Y8P01 @ 0940

Screened Interval: 50-70
Static WL: 48.25
Line Depth: 21.75
Gal/ft line 0.0102 gal
System Volume: 0.22
3 System Volumes: 0.66
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0927	48.38	23.17	2.003	3.39	6.81	-34.4	152	
0930	48.38	22.76	2.066	2.10	6.93	-41.0	1.39	
0933	48.38	22.73	2.067	1.99	6.99	-47.3	1.53	
0936	48.38	22.72	2.069	1.95	7.03	- 48.8	1.31	
0939	48.38	22.69	2.070	1.95	7.03	-48.5	1.38	

Final SWL: 48.38
Total Vol.: 2 gal.

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW24B
Date of Field Visit: 3.1.13
Field Staff: mike Palm
mike Ladeau
R9 Sample ID: -
CLP Sample ID: 48P00 8 0905

Screened Interval: 110-125
Static WL: 52.13
Line Depth: 72.87
Gal/ft line 0.0102 gal
System Volume: 0.74
3 System Volumes: 2.22
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0843	52.30	23.22	1.428	4.34	7.39	-30.4	5.75	
0846	52.30	22.68	1.470	2.68	7.17	-27.5	6.97	
0849	52.30	22.51	1.548	2.03	7.14	-28.8	11.0	
0852	52.30	22.49	1.532	1.90	7.22	-35.6	11.70	
0855	52.30	22.50	1.501	1.79	7.28	-37.2	7.07	
0858	52.30	22.52	1.481	1.71	7.33	-39.4	4.98	
0901	52.30	22.57	1.476	1.68	7.37	-42.0	4.46	
0904	52.30	22.63	1.469	1.72	7.37	-42.1	5.17	

Final SWL: 52.30
Total Vol.: 3 gal.

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW24C
Date of Field Visit: 3.1.13
Field Staff: mike Palm
mike Ladeau
R9 Sample ID: –
CLP Sample ID: Y8N29 @ 0830

Screened Interval: 140-160
Static WL: 52.34
Line Depth: 107.66
Gal/ft line 0.0102 gal
System Volume: 1.09
3 System Volumes: 3.29
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0810	52.45	22.24	1.373	2.76	7.42	-40.8	1.83	
0813	52.47	21.89	1.375	3.07	7.35	-39.6	3.15	
0816	52.52	21.87	1.403	2.96	7.37	-38.7	2.31	
0819	52.52	21.87	1.419	2.79	7.40	-40.9	1.89	
0822	52.52	21.86	1.420	2.74	7.40	-42.4	1.53	
0825	52.52	21.87	1.421	2.75	7.39	-42.0	1.56	

Final SWL: 52.52
Total Vol.: 4 gal.

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW24D
Date of Field Visit: 3.1.13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: —
CLP Sample ID: Y8N27 @ 0735 Y8N28 @ 0745 - DUP

Screened Interval: 173-178
Static WL: 52.87
Line Depth: 125.13
Gal/ft line 0.0102 gal
System Volume: 1.27
3 System Volumes: 3.82
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0716	58.86	21.90	1.194	1.76	7.58	-37.3	1.89	
0719	61.60	21.86	1.181	0.56	7.58	-59.3	2.37	
0720	63.65	21.86	1.181	0.45	7.60	-56.8	2.93	
0723	65.00	21.94	1.180	0.47	7.59	-55.3	1.91	
0726	65.00	22.02	1.179	0.46	7.56	-50.6	1.72	
0729	65.23	22.00	1.174	0.48	7.58	-49.3	1.85	
0732	65.47	22.02	1.170	0.46	7.60	-47.2	1.46	

Final SWL: 65.47
Total Vol.: 4 gal.

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW25A
Date of Field Visit: 3.12.13
Field Staff: mike Palm
mike Ladeau
R9 Sample ID: —
CLP Sample ID: Y8P32 @ 0845

Screened Interval: 45-65
Static WL: 49.86
Line Depth: 15.14
Gal/ft line 0.0102 gal
System Volume: 0.15
3 System Volumes: 0.46
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0835	49.86	20.93	1.537	4.43	6.91	2.6	2.50	
0838	49.86	20.96	1.724	2.98	7.00	-13.4	1.48	
0841	49.86	20.95	1.724	2.92	7.00	-12.4	1.55	
0844	49.86	20.96	1.722	2.94	7.00	-12.1	2.12	

Final SWL: 49.86
Total Vol.: 2 gal

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW25B
Date of Field Visit: 3.12.13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: –
CLP Sample ID: Y8P31 @ 0820

Screened Interval: 90-110
Static WL: 50.18
Line Depth: 59.82
Gal/ft line 0.0102 gal
System Volume: 0.6gl
3 System Volumes: 1.83
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0757	50.30	20.62	1.504	3.55	7.35	-3.9	5.69	
0800	50.30	20.89	1.717	2.96	7.13	-11.2	6.68	
0803	50.30	20.91	1.829	2.51	7.10	-12.1	6.94	
0806	50.30	20.95	1.837	2.40	7.08	-12.1	10.57	
0809	50.30	21.06	1.824	2.33	7.07	-12.3	6.48	
0812	50.30	20.97	1.818	2.29	7.05	-12.0	4.92	
0815	50.30	20.99	1.812	2.30	7.06	-12.7	4.85	

Final SWL: 50.30
Total Vol.: 1.5 gal

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW25C
Date of Field Visit: 3.11.13
Field Staff: Mike Palm
mike Ladeau
R9 Sample ID: –
CLP Sample ID: Y8P28 @ 1105

Screened Interval: 140-150
Static WL: 53.05
Line Depth: 96.95
Gal/ft line 0.0102 gal
System Volume: 0.98
3 System Volumes: 2.96
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1045	53.91	21.82	0.462	3.45	7.72	15.9	1.31	
1048	53.91	21.32	0.533	1.30	7.75	4.4	1.73	
1051	53.91	21.32	0.531	0.59	7.74	1.1	1.23	
1054	53.91	21.31	0.529	0.52	7.83	-2.0	0.75	
1057	53.91	21.31	0.526	0.48	7.80	-1.9	1.08	
1100	53.91	21.34	0.521	0.39	7.84	-3.9	0.87	
								Field Blank - Y8P29 @ 1200

Final SWL: 53.91
Total Vol.: 4gal

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW25D
Date of Field Visit: 3·11·13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: —
CLP Sample ID: 48927 @ 1025

Screened Interval: 194-209
Static WL: 68.38
Line Depth: 140.62
Gal/ft line 0.0102 gal
System Volume: 1.43
3 System Volumes: 4.30
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1000	68.75	21.48	0.494	3.12	7.55	-6.9	1.40	
1003	68.75	21.19	0.466	1.44	7.64	-7.0	1.30	
1006	68.75	21.16	0.463	1.36	7.64	-5.9	1.19	
1009	68.75	21.15	0.467	1.51	7.66	-5.7	1.07	
1012	68.75	21.15	0.471	1.72	7.69	-5.4	1.08	
1015	68.75	21.14	0.478	1.85	7.72	-5.5	0.91	
1018	68.75	21.14	0.482	1.89	7.74	-5.4	0.83	
1021	68.75	21.13	0.491	1.95	7.73	-5.2	0.95	
1024	68.75	21.14	0.497	1.99	7.73	-5.6	0.95	

Final SWL: 68.75
Total Vol.: 5 gal

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW26A
Date of Field Visit: March 29, 2013
Field Staff: Mike Ludeau
Andre' Ritchie
R9 Sample ID:
CLP Sample ID:

Screened Interval: 70-90
Static WL: 81.70 @
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.085 gal
3 System Volumes: 0.25 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0938	No	water						CPM3, 15 refill, 5 discharge, 40 psi
0940	81.70	21.83	1755	4.76	6.86	111.5	0.19	Increase psi to 60
0943	81.71	21.82	1764	4.34	6.83	113	0.07	
0946	81.71	21.82	1767	4.15	6.82	113.4	0.08	
0949	81.71	21.80	1791	3.89	6.82	113.3	0.12	
0952	81.71						0.14	Air compressor off; out of gas
~~0955~~ AR								~~Collect~~ AR
1015								Restart @ 60 psi
1016	81.71	21.87	1781	4.23	6.83	103.4	0.16	
1019	81.71	21.80	1806	3.74	6.82	99.6	0.10	
1020								Collect

Final SWL:
Total Vol.:

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW26B
Date of Field Visit: March 29, 2013
Field Staff: Mike Ladeau
Andre Ritchie
R9 Sample ID:
CLP Sample ID:

Screened Interval: 105-120
Static WL: 81.78 @
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.39 gal
3 System Volumes: 1.17 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (~~mS~~ µS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0908	81.80	21.64	1809	3.42	6.89	97.6	0.85	CPM 3, 13 refill, 7 discharge, 80 psi
0911	81.80	21.62	1842	3.01	6.87	100.0	0.75	
0914	81.80	21.59	1842	2.91	6.86	103.5	0.66	
0917	81.81	21.58	1841	2.86	6.85	106.4	0.36	
0920	81.81	21.59	1841	2.85	6.85	108.6	0.33	
0923	81.82	21.60	1821	2.92	6.85	110.1	0.26	Approximately 3.5 gallons discharged.
0925								Collect

Final SWL:
Total Vol.:

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW26C
Date of Field Visit: March 29, 2013
Field Staff: Mike Ladeau
Andre' Ritchie
R9 Sample ID:
CLP Sample ID:

Screened Interval: 145-160
Static WL: 90.35 @
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.71 gal
3 System Volumes: 2.1 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (~~mS~~ µS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0835	91.25	21.52	1342	2.21	7.03	18.9	0.81	CPM 3, 12 refill, 8 discharge, 100 psi
0840	90.85	21.40	1364	2.34	7.00	42.3	0.89	Adjust to 80 psi.
0845	90.85	21.46	1399	2.43	6.97	62.4	0.44	
0848	90.86	21.49	1394	2.43	6.96	68.2	0.30	Approximately 2.5 gallons discharged
0850								Collect

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW26D
Date of Field Visit: March 29, 2013
Field Staff: Mike Ladeau
Andre' Ritchie
R9 Sample ID:
CLP Sample ID:

Screened Interval: 185-205
Static WL: 90.79 (a)
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 1.17 gal
3 System Volumes: 3.5 gal
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0800	90.80	21.52	435	0.84	7.73	40.3	0.40	CPM 3, 9.5 refill, 10.5 discharge, 100 psi
0805	90.81	21.50	440	0.49	7.70	-13.3	0.30	
0810	90.82	21.48	438	0.37	7.68	-25.7	0.50	
0815	90.85	21.48	435	0.31	7.67	-33.6	0.35	Approximately 4 gallons discharged
0817								Collect

Final SWL:
Total Vol.:

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Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW27A
Date of Field Visit: 3·4·13
Field Staff: Mike Palm
Mike Lo[illegible]
R9 Sample ID: —
CLP Sample ID: Y8P10 @ 1105

Screened Interval: 110-115
Static WL: 88.82
Line Depth: 26.18
Gal/ft line 0.0102 gal
System Volume: 0.26
3 System Volumes: 0.80
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1048	88.95	21.95	1.526	4.43	7.26	-71.7	5.63	
1051	88.95	22.23	1.793	2.39	6.95	-62.8	3.84	
1054	88.95	22.15	1.808	1.58	6.94	-56.3	0.37	
1057	88.95	22.14	1.809	1.46	6.93	-56.1	0.67	
1100	88.95	22.13	1.807	1.23	6.96	-56.5	0.11	
								Field Blank - Y8P11 @ 1200

Final SWL: 88.95
Total Vol.: 2 gal.

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW27B
Date of Field Visit: 3.4.13
Field Staff: Mike Blm
Mike Ladeau
R9 Sample ID: —
CLP Sample ID: Y8P09 @ 1020

Screened Interval: 144-164
Static WL: 88.72
Line Depth: 75.28
Gal/ft line 0.0102 gal
System Volume: 0.76
3 System Volumes: 2.30
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1004	88.75	22.54	1.518	3.77	7.05	-59.1	1.99	
1007	88.75	22.53	1.560	1.19	7.22	-56.4	1.04	
1010	88.75	22.63	1.598	0.61	7.24	-57.7	1.05	
1013	88.75	22.66	1.597	0.65	7.23	-57.5	0.85	
1016	88.75	22.65	1.594	0.61	7.25	-58.5	0.94	
1019	88.75	22.65	1.592	0.60	7.26	-58.4	1.27	

Final SWL: 88.75
Total Vol.: 2.5 gal.

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW27C
Date of Field Visit: 3.4.13
Field Staff: mike Palm
mike Ladeau
R9 Sample ID: –
CLP Sample ID: Y8P08 @ 0945

Screened Interval: 180-190
Static WL: 96.68
Line Depth: 93.32
Gal/ft line 0.0102 gal
System Volume: 0.95
3 System Volumes: 2.85
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0928	98.15	22.37	0.864	3.31	7.09	-51.4	1.10	
0931	98.15	22.83	0.765	0.98	7.69	-57.0	1.97	
0934	98.15	22.88	0.758	0.55	7.70	-57.9	0.83	
0937	98.15	22.86	0.779	0.41	7.67	-57.8	0.14	
0940	98.15	22.86	0.783	0.39	7.66	-57.9	0	
0943	98.15	22.87	0.796	0.38	7.68	-59.4	0	

Final SWL: 98.15
Total Vol.: 3 gal.

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW27D
Date of Field Visit: 3-4-13
Field Staff: Mike Palm
Mike Lodeau
R9 Sample ID: –
CLP Sample ID: Y8P07 @ 0910

Screened Interval: 200-210
Static WL: 102.30
Line Depth: 97.70
Gal/ft line 0.0102 gal
System Volume: 0.99
3 System Volumes: 2.98
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0849	102.30	22.21	0.863	5.25	6.99	-51.6	0.30	
0852	102.30	22.48	0.864	1.32	7.42	-58.3	0.82	
0855	102.30	22.70	0.862	0.58	7.67	-51.0	0.21	
0858	102.30	22.72	0.861	0.54	7.67	-50.9	0.46	
0901	102.30	22.72	0.861	0.52	7.67	-50.8	0.16	
0904	102.30	22.72	0.860	0.50	7.67	-51.0	0.06	
0907	102.30	22.72	0.858	0.48	7.67	-51.1	0	

Final SWL: 102.30
Total Vol.: 3 gal.

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW28
Date of Field Visit: 2.28.13
Field Staff: mike Palm
mike Lodeau
R9 Sample ID: —
CLP Sample ID: 48NZ2@ 0915

Screened Interval: 85-105
Static WL: 85.90
Line Depth: 19.1
Gal/ft line 0.0102 gal
System Volume: 0.19
3 System Volumes: 0.58
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0900	85.95	19.08	1.708	4.56	6.72	-15.8	1.25	
0903	85.95	19.87	1.712	2.50	6.52	-13.0	1.10	
0906	85.95	19.90	1.713	1.57	6.58	-17.6	0.97	
0909	85.95	19.90	1.713	1.40	6.61	-20.5	1.22	
0912	85.95	19.96	1.712	1.30	6.65	-23.1	1.29	

Final SWL: 85.95
Total Vol.: 2.5 gal

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW29
Date of Field Visit: 2.28.13
Field Staff: Mike Palm
Mike Lodeau
R9 Sample ID: —
CLP Sample ID: Y8N21 @ 0825

Screened Interval: 90-110
Static WL: 87.53
Line Depth: 22.47
Gal/ft line 0.0102 gal
System Volume: 0.22
3 System Volumes: 0.68
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0808	87.65	19.97	1.835	5.74	7.10	-9.6	1.53	
0811	87.65	20.67	1.869	4.94	7.04	-16.4	1.28	
0814	87.65	20.93	1.936	3.88	7.02	-21.4	1.36	
0817	87.65	21.04	1.957	3.34	7.01	-23.2	1.28	
0820	87.65	21.08	1.961	3.06	7.01	-23.9	1.29	
0823	87.65	21.14	1.968	3.01	6.98	-23.2	1.37	

Final SWL: 87.65
Total Vol.: 2 gal.

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW30
Date of Field Visit: 2.28.13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: —
CLP Sample ID: Y8N20 @ 0735

Screened Interval: 95-115
Static WL: 97.08
Line Depth: 17.92
Gal/ft line 0.0102 gal
System Volume: 0.18
3 System Volumes: 0.54
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0719	97.10	22.09	1.740	4.70	6.83	-23.2	1.61	
0722	97.10	22.50	2.157	2.26	6.79	-31.6	1.66	
0725	97.10	22.56	2.199	1.03	6.78	-31.6	1.75	
0728	97.10	22.57	2.205	0.86	6.77	-31.0	1.76	
0731	97.10	22.60	2.207	0.76	6.77	-30.9	1.73	

Final SWL: 97.10
Total Vol.: 2 gal.

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW31
Date of Field Visit: 3·1·13
Field Staff: Mike Palm
Mike Ladeau
R9 Sample ID: —
CLP Sample ID: Y8P03 @ 1050

Screened Interval: 106-121
Static WL: 99.99
Line Depth: 21.01
Gal/ft line 0.0102 gal
System Volume: 0.21
3 System Volumes: 0.64
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1030	100.10	22.14	1.314	4.97	7.08	-32.0	1.76	
1033	100.10	21.63	1.455	3.93	6.65	-26.7	3.26	
1036	100.10	21.53	1.473	3.73	6.73	-39.1	4.74	
1039	100.10	21.51	1.478	3.73	6.84	-41.8	3.41	
1042	100.10	21.53	1.485	3.71	6.96	-49.6	2.18	
1045	100.10	21.59	1.486	3.71	6.99	-53.2	1.61	
								Field Blank - Y8P04 @ 1200

Final SWL: 100.10
Total Vol.: 2 gal.

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW32
Date of Field Visit: 3.13.13
Field Staff: mike Palm
mike Ladeau
R9 Sample ID: –
CLP Sample ID: Y8P43 @ 1105

Screened Interval: 163-178
Static WL: 92.98
Line Depth: 95.02
Gal/ft line 0.0102 gal
System Volume: 0.86
3 System Volumes: 2.60
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1045	93.08	22.04	1.412	3.04	7.49	-9.1	3.02	
1048	93.08	20.86	1.579	1.69	6.74	-15.5	2.82	
1051	93.08	20.87	1.583	1.26	6.79	-21.5	2.46	
1054	93.08	20.86	1.582	1.15	6.89	-27.5	1.70	
1057	93.08	20.78	1.582	1.13	6.92	-28.4	1.41	
1100	93.08	20.81	1.580	1.11	6.94	-29.4	1.37	
								Field Blank - Y8P44 @ 1200

Final SWL: 93.08
Total Vol.: 3gal.

A.4 3Q2013 Well Purge Forms

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW1A
Date of Field Visit: 8/14/13
Field Staff: M. LADRAU
G. ROAD
R9 Sample ID:
CLP Sample ID:

Screened Interval: 45-60 feet bgs
Static WL: 44.75
Line Depth:
Gal/ft line 0.0102 gal
System Volume: System Volume = bottom of screened interval minus Static WL * Gal/ft line
3 System Volumes: 4 GALLONS.
Sampling Equipment: Dedicated bladder pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:13	44.75							
~~9:28~~								
9:29	44.79	23.46	1.571	7.41	7.15	195.7	0.11	
9:32	44.79	22.69	1.552	4.45	7.11	194.7	0.26	
9:35	44.79	22.67	1.551	4.29	7.08	190.4	-0.46	
9:38	44.79	22.68	1.551	4.28	7.07	187.3	-0.40	
9:41	44.79	22.70	1.551	4.26	7.07	185.8	-0.66	
9:44	44.79	22.70	1.553	4.24	7.06	184.7	-0.39	
9:47	44.79	22.69	1.554	4.26	7.05	183.9	-1.40	
9:50	44.79	22.73	1.555	4.25	7.13	182.6	-1.38	
9:55	—	—	—	—	—	—	—	COLLECT SAMPLES

COLLECT SAMPLES @ 9:55

Final SWL:
Total Vol.: 4 GALLONS

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW1B
Date of Field Visit: 8/14/13
Field Staff: M. LADEAN
C. DOAN
R9 Sample ID:
CLP Sample ID: 484411

Screened Interval: 75-85 feet bgs
Static WL: 44.64' bgs
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.41 gal
3 System Volumes: 4 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:35	44.64							
8:37	44.75	23.12	1.186	3.75	7.71	174.7	3.51	
8:40	44.75	22.37	1.399	3.42	7.18	183.1		
8:43	44.70	22.31	1.407	3.35	7.16	187.7		
8:46	44.74	22.30	1.407	3.27	7.15	181.2	0.19	
8:49	44.71	22.27	1.406	3.21	7.14	178.8	0.57	
8:52	44.74	22.27	1.406	3.16	7.14	177.4	0.59	
8:55	44.74	22.31	1.406	3.11	7.13	175.0	0.69	
9:00	—	—	—	—	—	—	—	COLLECT SAMPLES.

Final SWL:
Total Vol.: 4 GALLONS

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW2
Date of Field Visit: 8/26/13
Field Staff: M. LADRAV
C. JOHN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 45-60 feet bgs
Static WL: 41.19'
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.1919 gal
3 System Volumes: 3 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:10	41.19'							
7:18	41.55	22.90	1.905	[illegible]	6.64	265.8	-0.57	
7:21	41.55	22.54	1.904	4.25	6.53	260.8	2.05	
7:24	41.55	22.51	1.904	4.01	6.48	255.4	3.49	
7:27	41.55	22.50	1.903	3.19	6.44	247.5	0.73	
7:30	41.50	22.48	1.903	2.76	6.44	243.0	0.73	
7:33	41.53	22.49	1.902	2.66	6.44	236.7	-0.80	
7:36	41.55	22.49	1.910	2.63	6.43	234.8	-1.66	
7:39	41.55	22.49	1.913	2.62	6.43	232.7	-0.73	
7:45								COLLECT SAMPLE

COLLECT SAMPLE @ 7:45

Final SWL:
Total Vol.: 3 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW3
Date of Field Visit: 8/15/13
Field Staff: M. LADEAU
C. EGAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 38-48 feet bgs
Static WL: 38.37'
Line Depth:
Gal/ft line 0.0102 gal
System Volume: System Volume = bottom of screened interval minus Static WL * Gal/ft line
3 System Volumes:
Sampling Equipment: Dedicated bladder pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:20 am	38.37'							
~~7:48 am~~								
7:49 am								NO WATER
								COMING THRU
							FLOW →	CELL LEAK IN
								PUMP USED
								HAND BAILER

COLLECT SAMPLE @ 7:50

HAND BAILER

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW4A
Date of Field Visit: 6/15/13
Field Staff: M. LADEAU
G. JOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 43-53 feet bgs
Static WL: 36.1
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
11:27	36.1							
11:33 am	36.1	22.73	2.955	5.34	6.60	164.1	0.09	
11:36 am	36.1	22.60	2.954	3.20	6.66	173.2	-0.21	
11:39 am	36.1	22.60	2.965	3.18	6.66	176.0	0.36	
11:42 am	36.11	22.62	2.959	3.15	6.64	176.1	0.07	
11:45 am	36.13	22.62	2.957	3.15	6.68	174.2	-0.14	
11:48 am	36.13	22.63	2.954	3.15	6.67	176.4	-0.20	
11:51 am	36.12	22.64	2.954	3.14	6.69	172.9	-0.10	
12:00 pm								COLLECT SAMPLE @ 12:00 pm

COLLECT SAMPLE @ 12:00 pm.

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW4B
Date of Field Visit: 2/15/13
Field Staff: M. LAMBA, C. DOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 70-80 feet bgs
Static WL: 35.5
Line Depth:
Gal/ft line 0.0102 gal
System Volume: System Volume = bottom of screened interval minus Static WL * Gal/ft line
3 System Volumes: 4 GALLONS
Sampling Equipment: Dedicated bladder pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
10:14 am	35.5							
10:17 am	~~23.17~~ 35.8	23.17	2.927	3.85	6.22	186.4	0.90	
10:20 am	35.94	22.56 / 3.243	~~22.57~~	3.62	6.53	188.8	1.08	
10:23 am	35.93	22.52	3.271	3.43	6.56	190.2	0.70	
10:26	35.93	22.45	3.274	3.18	6.59	189.3	0.87	
10:29	35.93	22.46	3.264	3.09	~~5.10~~	187.3	0.44	
10:31	36.00	22.46	3.266	3.04	6.62	186.0	0.90	
10:34	35.95	22.46	3.264	3.00	6.62	186.6	0.06	
10:37	35.93	22.46	3.256	2.98	6.57	189.3	0.46	
10:40								COLLECT SAMPLES
10:50								~~[illegible]~~ DUPS

Final SWL:
Total Vol.: 4 GALLONS

COLLECT SAMPLES @ 10:20 am
and DUPS @ 10:50 am

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW4C
Date of Field Visit: 8/15/13
Field Staff: M. LADEAN
C. DEAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 89-99 feet bgs
Static WL: 38.82
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes: 5 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:27	38.82							
9:35	38.65	22.42	1.477	8.26	7.17	170.4	1.55	
9:38	38.80	21.94	1.562	3.97	6.80	188.5	2.93	
9:41	38.80	21.89	1.455	3.79	6.82	188.7	2.02	
~~9:43~~ 9:44	38.90	21.89	1.519	3.01	6.86	191.0	0.75	
9:48	38.90	21.84	1.519	4.00	6.86	192.0	1.15	
9:51		21.85	1.520	3.26	6.85	191.7	0.97	
10:00 am	—	—	—	—	—	—	—	COLLECT SAMPLES

COLLECT SAMPLES @ 10:00 am

Final SWL:
Total Vol.: 5 GALLONS

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW5
Date of Field Visit: 8/15/13
Field Staff: M. LAPEAN
C. DUN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 43-53 feet bgs
Static WL: 39.02'
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes: 5 GALLON
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:25	39.02							
8:33 am	39.07	22.56	2.370	3.99	6.87	195.6	~0.06	
8:36 am	39.03	22.26	2.452	7.46	6.67	206.6	~0.45	
8:39 am	39.07	22.28	2.452	3.24	6.65	219.8	1.35	
8:42 am	39.07	22.29	2.457	3.47	6.64	218.9	0.42	
8:45 am	39.07	22.29	2.451	2.44	6.64	219.0	0.22	
8:48 am	39.07	22.30	2.450	2.42	6.63	217.2	0.18	
8:51 am	39.08	22.30	2.450	2.42	6.63	216.2	0.32	
								COLLECT SAMPLES
9:00 am	—	—	—	—	—	—	—	

Final SWL:
Total Vol.: ~~5 GA~~ 5 GALLON

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW6
Date of Field Visit: 8/16/13
Field Staff: M. LADEAU
C. IOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 37-47 feet bgs
Static WL: 39.40
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes: 5 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
6:46 am	39.40'							
7:11	39.65	21.57	1.886	5.98	6.83	225.7	0.23	
7:14	39.62	21.54	1.882	6.22	6.79	226.9	-0.33	
7:17	39.65	21.54	1.881	6.19	6.79	226.8	0.75	
7:20	39.62	21.54	1.877	6.01	6.78	226.8	-0.54	
7:23	39.62	21.54	1.878	5.90	6.78	226.7	-0.32	
7:26	39.62	21.56	1.875	5.76	6.78	226.2	-0.53	
7:29	39.62	21.56	1.874	5.60	6.79	225.7	-0.29	
7:32	39.62	21.59	1.874	7.50	6.79	224.7	-0.22	
7:35	39.62	21.63	1.871	5.69	6.78	224.1	-0.37	
7:40	—	—	—	—	—	—	—	COLLECT SAMPLES

COLLECT SAMPLES @ 7:40 am

Final SWL:
Total Vol.: 5 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW7
Date of Field Visit: 8/14/13
Field Staff: M. LADEAU
C. FOSS
R9 Sample ID:
CLP Sample ID: 484414 @ 1130

Screened Interval: 36-46 feet bgs
Static WL: 31.56'
Line Depth:
Gal/ft line 0.0102 gal — System Volume = bottom of screened interval minus Static WL * Gal/ft line
System Volume:
3 System Volumes:
Sampling Equipment: Dedicated bladder pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
GRAB SAMPLE WITH BAILER - 11:30 am.								

COLLECTED SAMPLE @ 11:30 am.

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW8A
Date of Field Visit: 8/20/13
Field Staff: M. LARSON, C. JOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 30-45 feet bgs
Static WL: 40.43
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.047 gal
System Volume = bottom of screened interval minus Static WL * Gal/ft line
3 System Volumes:
Sampling Equipment: Dedicated bladder pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:07	40.43							
ATTEMPTED TO PURGE BUT NO SUCCESS IN GETTING								
LASER INTO FLOW CELL. BAILER PULLED OUT.								
-GRAB SAMPLE @ 8:25								
8:25								COLLECT SAMPLES

COLLECT SAMPLES @ 8:25.

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW8B
Date of Field Visit: 8/20/13
Field Staff: M. LANGAN, C. JOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 65-75 feet bgs
Static WL: 40.42
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.35'S gal
3 System Volumes: 5 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:35	40.42							
9:42	40.47	22.18	1.558	5.43	7.13	366.0	1.46	
9:45	40.47	22.10	1.600	4.59	6.90	342.0	0.96	
9:48	40.47	22.07	1.600	4.51	6.92	335.0	0.50	
9:51	40.47	22.09	1.600	4.40	6.89	321.0	0.27	
9:54	40.47	22.10	1.599	4.41	6.89	318.3	-0.14	
9:57	40.47	22.14	1.598	4.37	6.91	298.5	0.22	
10:00	40.47	22.11	1.598	4.39	6.90	294.6	-0.55	
10:03	40.50	22.13	1.597	4.37	6.91	290.9	-0.14	
10:06	40.47	22.16	1.596	4.37	6.90	281.9	0.03	
10:10								COLLECT SAMPLE

COLLECT @ 10:10

Final SWL:
Total Vol.: 5 GALLONS

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW8C
Date of Field Visit: 8/20/13
Field Staff: M. LADEAU. C. JOHN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 87-92 feet bgs
Static WL: 41.86
Line Depth:
Gal/ft line 0.0102 gal
System Volume: ~~[illegible]~~ 0.511 gal
3 System Volumes: 4 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:45	41.86							
8:49	41.98	22.02	1.300	3.78	7.30	220.3	-0.26	
8:52	42.02	21.98	1.423	3.04	7.03	224.2	-0.26	
8:55	42.06	21.98	1.581	2.85	6.92	223.1	0.00	
8:58	42.05	21.98	1.614	3.30	6.91	222.7	0.00	
9:01	42.08	21.99	1.639	3.47	6.91	223.5	0.53	
9:04	42.03	21.98	1.643	3.50	6.90	224.3	0.05	
9:07	42.99	21.99	1.645	3.49	6.89	224.8	-0.12	
9:10	42.03	21.99	1.647	3.59	6.89	224.6	0.10	
9:13		21.99	1.648	3.56	6.89	224.7	0.30	
9:16	42.00	22.07	1.648	3.60	6.89	225.2	-0.44	
9:20								COLLECT SAMPLES

COLLECT SAMPLES 9:20

Final SWL:
Total Vol.: 4 GALLONS

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW8D
Date of Field Visit: 8/20/13
Field Staff: M. LADEAU
C. JOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 110-120 feet bgs
Static WL: 49.45
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.72 gal
3 System Volumes: 3 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:20	49.45							
7:27	49.80	21.80	1.094	5.30	8.07	232.4	0.26	
7:30	49.80	21.73	1.175	4.01	7.56	240.2	0.45	
7:33	49.80	21.62	1.287	2.51	7.32	241.5	-0.12	
7:36	49.82	21.59	1.309	1.84	7.30	239.2	0.46	
7:39	49.80	21.63	1.310	1.43	7.29	237.1	-0.07	
7:42	49.83	21.63	1.310	1.26	7.30	235.8	-0.06	
7:45	49.82	21.66	1.310	1.00	7.30	233.2	-0.06	
7:48	49.80	21.60	1.312	2.09	7.30	231.9	-0.37	
7:51	49.83	21.67	1.310	0.77	7.29	228.3	-0.44	
7:55								COLLECT SAMPLES

COLLECT SAMPLES @ 7:55

Final SWL:
Total Vol.: 3 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW9A
Date of Field Visit: 8/29/13
Field Staff: M LADEAU
C Stobel
R9 Sample ID:
CLP Sample ID:

Screened Interval: 25-35 feet bgs
Static WL: DRY WELL 34.87'
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments

DRY WELL → OL = 34.87'

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW9B
Date of Field Visit: 8/29/13
Field Staff: M LAOEAN
C LOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 50-60 feet bgs
Static WL: 46.40
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.1387 gal
3 System Volumes: 4 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
6:45	46.40'							
7:06	46.65	21.55	1.954	4.77	7.17	263.7	0.85	
7:09	46.65	21.43	1.959	4.64	6.93	255.3	0.79	
7:12	46.7	21.41	1.958	4.59	6.92	250.9	0.00	
7:15	46.65	21.38	1.960	4.41	6.92	243.6	0.00	
7:18	46.66	21.52	1.953	4.13	6.93	233.0	0.10	
7:21	46.66	21.52	1.953	4.06	6.94	230.7	0.69	
7:24	46.66	21.53	1.953	3.90	6.94	225.9	0.66	
7:30								COLLECT SAMPLE

COLLECT SAMPLE @ 7:30 am

Final SWL:
Total Vol.: 4 GALLONS

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW10
Date of Field Visit: 8/21/13
Field Staff: M. LAUERU
C ROAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 52-62 feet bgs
Static WL: ~~[illegible]~~ 46.90
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.15402 gal
3 System Volumes: 5 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
11:50	46.90							
11:54	47.10	22.88	2.108	3.90	6.44	199.1	0.71	
11:57	47.14	22.72	2.096	3.57	6.57	148.1	1.08	
12:00	47.10	22.61	2.078	3.69	6.71	175.8	0.72	
12:03	47.15	22.68	2.045	3.99	6.69	171.0	1.00	
12:06	47.15	22.53	2.022	4.16	6.54	167.0	0.70	
12:09	47.17	22.48	2.017	4.46	6.92	162.0	0.89	
12:11	47.15	22.47	2.016	4.57	6.96	158.0	1.20	
12:14 ~~12:13~~	47.16	22.50	2.018	4.76	6.98	158.6	0.96	
12:16 ~~12:15~~	47.10	22.45	2.021	4.07	6.89	158.7	0.89	
12:19	47.10	22.45	2.030	6.23	7.03	154.4	1.04	
12:25								COLLECT SAMPLE

COLLECT SAMPLES @ 12:25

Final SWL:
Total Vol.: 5 GALLONS

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW11
Date of Field Visit: 5/25/15
Field Staff: M. Pagan
C. Tran
R9 Sample ID:
CLP Sample ID:

Screened Interval: 40-50 feet bgs
Static WL: 48.2'
Line Depth:
Gal/ft line 0.0102 gal
System Volume = bottom of screened interval minus Static WL * Gal/ft line
System Volume:
3 System Volumes:
Sampling Equipment: Dedicated bladder pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:55	48.2							GRAB SAMPLE.

GRAB SAMPLE @ 8:05 am

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW12
Date of Field Visit: 8/30/13
Field Staff: A. LARSAD
C. TORR
R9 Sample ID:
CLP Sample ID:

Screened Interval: 82-97
Static WL: 82.90' → BAD WATER LEVEL
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.14382 gal
3 System Volumes: 1 gallon
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
6:45	82.90							Use Passive Sampling Method
7:05	NO READING	23.30	1.275	5.53	6.96	141.5	4.69	
	GRAB							
	SAMPLE							
7:20								COLLECT SAMPLE (GRAB)

COLLECT SAMPLE @ 7:20

Final SWL:
Total Vol.: 1 GALLON

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW13A
Date of Field Visit: 8/16/13
Field Staff: M. LADEAN
C. ZOPAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 56-66
Static WL: 70.58'
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:10 am	70.58'							NO SAMPLES COLLECTED
								≥ 3" of WATER.

Final SWL:
Total Vol.:

NO SAMPLES COLLECTED

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW13B
Date of Field Visit: 8/16/13
Field Staff: M. LAPPAN
G. TOAR.
R9 Sample ID:
CLP Sample ID:

Screened Interval: 123-133
Static WL: 95.25'
Line Depth:
Gal/ft line 0.0102 gal
System Volume: System Volume = bottom of screened interval minus Static WL * Gal/ft line
3 System Volumes: 7 GALLONS
Sampling Equipment: Dedicated bladder pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:10 am	95.25'							
8:25	95.27	22.33	1.750	5.05	7.48	265.4	0.13	
8:28	95.27	21.95	1.712	4.20	7.17	264.3	0.38	
8:31	95.27	21.41	1.723	3.91	7.11	260.7	-0.06	
8:34	95.28	21.89	1.741	3.68	7.11	257.1	0.09	
8:37	95.30	21.90	1.750	3.56	7.10	253.1	-0.17	
8:40	95.30	21.88	1.767	3.38	7.10	248.1	-0.24	
8:43	95.28	21.88	1.773	3.29	7.10	244.7	0.20	
8:46	95.29	21.87	1.778	3.17	7.08	240.5	0.00	
8:49	95.29	22.00	1.780	3.08	7.10	236.9	0.03	
8:50	—	—	—		—	—	—	COLLECT SAMPLES

COLLECT SAMPLES @ 8:55

Final SWL:
Total Vol.: 7 GALLONS

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW14
Date of Field Visit: 8/14/13
Field Staff: M. LADEAU
C. IOAN
R9 Sample ID:
CLP Sample ID: Y8YY10

Screened Interval: 60-75
Static WL: 57.35
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.2 gal
3 System Volumes: 8 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:30	57.35	—	—	—	—	—	—	
7:33	57.37	23.49	2.224	5.35	7.25	225.7	-3.04	
7:36	57.35	22.66	2.224	4.75	6.92	225.7	-3.04	
7:39	57.36	22.64	2.250	4.45	6.89	223.5	-3.38	
7:42	57.36	22.64	2.251	4.09	6.88	222.0	-3.28	
7:45	57.37	22.61	2.253	3.90	6.88	220.7	-2.65 -3.85	-3.88
7:48	57.37	22.63	2.254	3.14	6.88	219.4	-5.46	
7:52	57.37	22.62	2.259	2.89	6.85	217.2	-3.66	
7:55	57.37	22.62	2.261	2.89	6.87	215.0	-3.39	
8:00	—	—	—	—	—	—	—	COLLECT SAMPLE

COLLECT SAMPLE @ 8:00 am.

Final SWL:
Total Vol.: 8 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW15
Date of Field Visit: 5/14/13
Field Staff: M. LADEAN
C. JOHN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 50-70
Static WL: 36.30'
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes: 4 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
10:36	36.30'							
10:39	36.30'	22.72	2.494	3.46	7.16	138.2	1.10	
10:42	36.30'	22.15	2.565	0.92	6.97	141.0	3.24	
10:45	36.30'	22.09	2.554	0.78	6.96	132.0	6.78	
10:48	36.35'	22.07	2.552	0.80	6.97	114.9	2.95	
10:51	36.35	22.08	2.552	0.79	6.97	112.8	1.82	
10:54	36.36'	22.06	2.549	0.79	6.98	109.9	1.24	
11:00	—	—	—	—	—	—	—	Collect sample

Collect sample @ 11:00 am.

Final SWL:
Total Vol.: 4 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW16A
Date of Field Visit: 8/27/13
Field Staff: M LAOSAU
C JOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 45-60
Static WL: DRY WELL
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments

DRY WELL

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW16B
Date of Field Visit: 8/27/13
Field Staff: M LADRAU
C TOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 106-116
Static WL: 64.96
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.52 gal
3 System Volumes: 2 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:56	64.96							
8:59	64.97	21.54	1.717	4.86	6.92	120.3	-0.53	
9:02	64.96	21.49	1.724	2.76	6.82	123.0	-0.32	
9:05	64.98	21.48	1.729	2.74	6.93	124.0	0.23	
9:08	64.94	21.44	1.724	2.70	6.96	129.9	-0.32	
9:11	64.98	21.39	1.723	2.64	6.96	130.6	-0.22	
9:14	65.15	21.37	1.723	2.62	6.89	130.0	-0.64	
9:17	64.98	21.36	1.722	2.60	6.94	130.6	-0.85	
9:20	64.98	21.34	1.722	2.62	6.96	132.2	-1.14	
9:23	64.98	21.37	1.722	2.61	6.94	131.7	-0.66	
9:30								COLLECT SAMPLES

COLLECT SAMPLES @ 9:30

Final SWL:
Total Vol.: 8 GALLONS

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW16C
Date of Field Visit: 8/27/13
Field Staff: M. LADRAL
L. TORN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 149-164
Static WL: 68.15'
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.97767 gal
3 System Volumes: 7 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
6:51	68.15							
7:12	68.30	21.92	1.216	4.91	7.32	122.6	0.68	
7:15	68.25	21.47	1.217	2.76	6.84	75.9	-0.75	
7:18	68.20	21.52	1.214	2.00	6.93	83.6	-0.76	
7:21	68.20	21.30	1.213	1.77	6.93	85.7	-0.57	
7:24	68.20	21.28	1.214	1.37	6.95	90.1	-0.56	
7:27	68.20	21.27	1.213	1.20	6.96	91.9	-0.64	
7:30	68.37	21.26	1.214	1.10	6.98	92.6	-1.11	
7:33	68.22	21.24	1.213	1.14	6.99	93.0	-0.91	
7:36	68.20	21.25	1.211	0.98	6.92	97.7	-1.19	
7:39	68.36	21.25	1.211	0.97	6.96	97.7	-0.85	
7:45								COLLECT SAMPLES
								LAB QC

COLLECT SAMPLES @ 7:45

ALSO LAB QC

Final SWL:
Total Vol.: 7 GALLONS

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW17A
Date of Field Visit: 9/18/15
Field Staff: K. LOEAN
C. SAPP
R9 Sample ID:
CLP Sample ID:

Screened Interval: 56-71
Static WL: 75.40' → DRY WELL
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Bailer

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments

DRY WELL @ 75.40'

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW17B
Date of Field Visit: 8/28/13
Field Staff: M LADEAU
C TOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 94-104
Static WL: 81.50'
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.2295 gal
3 System Volumes: 9 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:07	81.50'							
8:09	81.54	21.39	1.667	7.71	7.27	232.8	0.70	
8:12	81.51	21.40	1.682	3.92	7.10	233.4	-0.73	
8:15	81.50	21.41	1.680	3.77	7.12	234.7	-1.44	
8:18	81.70	21.42	1.678	3.69	7.13	220.6	-1.21	
8:21	81.63	21.42	1.676	3.55	7.13	213.8	-0.88	
8:24	81.57	21.42	1.676	3.53	7.13	212.4	-1.06	
8:27	81.50	21.42	1.673	3.42	7.15	208.4	-1.16	
8:30	81.60	21.43	1.672	3.40	7.14	208.0	-1.26	
8:33	81.75	21.44	1.668	3.35	7.17	202.0	-1.55	
8:40								COLLECT SAMPLES

Final SWL:
Total Vol.: 9 GALLONS

COLLECT SAMPLES @ 8:40

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW17C
Date of Field Visit: 8/28/13
Field Staff: M. LADEAU
C. TOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 172-182
Static WL: 100.69'
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.829 gal
3 System Volumes: 2 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
6:55	100.69							
7:15	100.7	21.70	0.794	5.90	7.57	211.3	-0.73	
7:18	100.75	21.58	0.780	5.36	7.39	218.7	-0.57	
7:21	100.78	21.55	0.769	4.49	7.39	218.3	-0.[illegible]	
7:24	100.72	21.50	0.672	3.48	7.45	211.2	-1.80	
7:27	100.80	21.47	0.616	2.87	7.53	205.0	-1.85	
7:30	100.75	21.47	0.609	3.62	7.54	201.6	-0.40	
7:33	100.75	21.48	0.608	2.44	7.56	198.8	-[illegible]	
7:36	100.75	21.47	0.612	2.81	7.57	197.7	-0.84	
7:39	100.80	21.54	0.610	1.90	7.56	192.3	-0.59	
7:45								COLLECT SAMPLES

COLLECT SAMPLES @ 7:45 am

Final SWL:
Total Vol.: 2 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW18A
Date of Field Visit: 8/22/13
Field Staff: M LAGELO
C JOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 56-71
Static WL: 38.49
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.332 gal
3 System Volumes: 1 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:37	38.49							
8:39	38.57	21.52	2.354	3.55	7.39	-182.6	1.69	
8:42	38.60	21.42	2.359	3.10	7.16	-130.2	1.36	
8:45	38.50	21.40	2.274	2.68	7.08	-118.7	1.02	
8:48	38.50	21.44	2.271	2.60	7.10	-150.7	0.81	
8:51	38.52	21.45	2.268	2.50	7.11	-186.2	2.08	
8:54	38.50	21.41	2.264	2.39	7.12	-204.0	2.61	
8:57	38.55	21.40	2.263	2.14	7.10	-212.0	2.08	
9:00	38.71	21.45	2.263	2.12	7.15	-206.0	1.40	
9:03	38.52	21.41	2.267	2.09	7.13	-205.5	1.40	
9:06	38.50	21.40	2.269	2.08	7.11	-199.2	0.58	
9:10								COLLECT SAMPLES

Final SWL:
Total Vol.: 7 GALLONS

COLLECT SAMPLES @ 9:10

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW18B
Date of Field Visit: 8/22/13
Field Staff: M. LADSAU
C. JOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 90-100
Static WL: 38.46
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.628 gal
3 System Volumes: > 6 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:49	38.46							
7:53	38.46	21.24	2.332	2.70	7.38	-229.2	0.76	
7:56	38.48	21.04	2.371	2.72	7.31	-161.9	0.94	
7:59	38.50	21.03	2.368	2.62	7.31	-189.4	0.87	
8:02	38.50	21.04	2.362	2.52	7.32	-223.6	0.79	
8:05	38.50	21.05	2.359	2.47	7.31	-227.9	1.08	
8:08	38.50	21.07	2.355	2.42	7.31	-229.2	0.64	
8:11	38.50	21.10	2.356	2.34	7.30	-229.1	1.04	
8:14	38.50	21.09	2.355	2.34	7.25	-225.7	1.04	
8:17	38.50	21.09	2.356	2.34	7.32	-223.7	0.67	
8:20	38.50	21.08	2.357	2.73	7.33	-221.3	1.01	
8:25								COLLECT SAMPLES

Final SWL:
Total Vol.: 7 GALLONS

COLLECT SAMPLES @ 8:25

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW18C
Date of Field Visit: 8/22/13
Field Staff: M. LAPEAU
C. IOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 146-161
Static WL: 41.92
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 1.214 gal
3 System Volumes: 8 GALLONS
Sampling Equipment: Dedicated bladder pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:06	41.92							
7:09	42.28	[illegible]	[illegible]	[illegible]	7.39	211.3	0.69	
7:12	42.23	20.96	1.161	1.93	7.42	208.0	0.80	
7:15	42.25	20.95	1.056	1.33	7.50	200.7	0.50	
7:18	42.30	20.93	1.011	0.64	7.54	195.0	0.56	
7:21	42.50	20.92	1.006	0.47	7.54	189.0	0.68	
7:24	42.30	20.92	1.001	0.39	7.56	187.4	0.27	
7:30								COLLECT SAMPLES

COLLECT SAMPLES @ 7:30 am

Final SWL:
Total Vol.: 8 GALLONS

LAB QC COLLECTED AS WELL.

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW19
Date of Field Visit: 8/29/12
Field Staff: M LADEAU
C LOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 56-71 TD: 74.5'
Static WL: 73.99' -> DRY WELL
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes:
Sampling Equipment: Bailer

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments

DRY WELL LESS THAN 1' OF WATER

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW20A
Date of Field Visit: 9/29/12
Field Staff: M. [illegible]
C. [illegible]
R9 Sample ID:
CLP Sample ID:

Screened Interval: 75-90
Static WL: 84.57'
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.0553 gal
3 System Volumes: 7 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
10:37	84.57							
10:40	84.60	22.56	1.656	5.71	6.85	142.2	0.30	
10:43	84.75	22.33	1.653	3.00	6.66	143.4	2.15	
10:46	84.75	22.23	1.657	2.82	6.53	144.7	1.09	
10:49	84.75	22.23	1.658	2.67	6.62	138.7	0.67	
10:52	84.75	22.22	1.657	2.56	6.64	138.6	0.30	
10:55	84.72	22.16	1.658	2.23	6.75	135.5	0.63	
10:58	84.72	22.16	1.658	2.11	6.72	134.5	0.44	
11:01	84.70	22.16	1.658	2.10	6.79	130.0	0.72	
11:04	84.70	22.20	1.651	2.09	6.61	127.8	0.17	
11:07	84.70	22.19	1.658	2.08	6.87	123.5	0.24	
11:10	84.70	22.17	1.656	2.08	6.82	118.1	0.24	
11:15								COLLECT SAMPLES

Final SWL:
Total Vol.: 7 GALLONS

COLLECT SAMPLES @ 11:15 AM

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW20B
Date of Field Visit: 8/26/12
Field Staff: M LADEAU
C JOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 122-132
Static WL: 85.42
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.475 gal
3 System Volumes: 3 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:49	85.42							
9.52	85.51	22.28	1.578	3.73	7.30	115.0	2.14	
9:55	85.50	21.94	1.564	3.24	7.11	124.3	1.79	
9:58	85.60	21.88	1.562	3.19	7.13	122.9	0.99	
10:01	85.50	21.84	1.559	2.13	7.17	118.6	6.99	
10:04	85.50	21.83	1.557	3.09	7.19	120.4	2.30	
10:07	85.62	21.81	1.553	3.05	7.17	121.6	1.03	
10:10	85.50	21.81	1.551	2.00	7.12	122.4	3.13	
10:13	85.50	21.80	1.551	2.99	7.18	131.4	0.53	
10:20								COLLECT SAMPLES

COLLECT SAMPLES @ 10:20 am

Final SWL:
Total Vol.: 3 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW20C
Date of Field Visit: 8/28/18
Field Staff: M. LADEAU
C. JOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 180-190
Static WL: 106.99'
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.846 gal
3 System Volumes: 3 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:05	106.99'							
9:10	107.20	24.45	0.957	3.90	7.60	106.5	0.11	
9:13	107.10	22.26	0.784	0.77	7.43	-5.5	0.98	
9:16	107.10	22.14	0.725	6.52	7.51	-22.7	0.43	
9:19	107.05	21.99	0.801	0.57	7.50	-57.6	0.81	
9:22	107.08	21.99	0.843	0.36	7.55	-58.0	0.35	
9:25	107.20	21.98	0.875	0.35	7.59	-61.3	0.40	
9:28	107.10	22.34	0.889	0.39	7.66	-69.8	1.41	
9:31	107.10	22.10	0.894	0.38	7.64	-67.9	0.39	
9:35								COLLECT SAMPLE

COLLECT SAMPLE @ 9:35

Final SWL:
Total Vol.: 3 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW21
Date of Field Visit: 5/30/13
Field Staff: M LAPEAU
C TOMM
R9 Sample ID:
CLP Sample ID:

Screened Interval: 64-79
Static WL: 70.49
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.08602 gal
3 System Volumes: 6 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:28	70.49							
9:30	70.65	20.47	1.487	4.50	7.03	90.3	0.63	
9:33	70.60	20.65	1.496	4.23	6.37	136.1	1.29	
9:36	70.60	20.47	1.494	4.04	6.07	159.5	1.48	
9:39	70.62	20.46	1.495	4.00	6.12	158.2	2.38	
9:42	70.70	20.43	1.496	4.02	6.25	153.0	1.17	
9:45	70.55	20.43	1.496	4.02	6.32	149.8	0.96	
9:48	70.54	20.45	1.496	4.03	6.39	147.1	0.59	
9:51	70.69	20.46	1.497	4.06	6.44	146.6	0.58	
9:54	70.70	20.49	1.497	4.07	6.46	146.3	0.46	
10:00								COLLECT SAMPLE

COLLECT SAMPLE @ 10:00 AM

Final SWL:
Total Vol.: 6 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW22
Date of Field Visit: 8/22/13
Field Staff: A. LADEAU
C. IOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 74-89
Static WL: 83.04
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.060792 gal
3 System Volumes: 8 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
10:54	83.04							
11:02	83.15	22.40	1.241	5.68	7.21	23.0	1.16	
11:05	83.18	21.72	1.196	5.89	6.44	87.9	10.77	
11:08	83.07	21.14	1.202	5.94	6.56	94.7	10.02	
11:11	83.10	21.00	1.214	5.97	6.68	101.0	4.61	
11:14	83.07	21.02	1.217	6.01	6.71	95.0	4.26	
11:17	83.15	20.95	1.218	6.04	6.81	106.4	3.78	
11:20	83.07	21.02	1.221	6.05	6.71	102.7	2.98	
11:25								COLLECT SAMPLES AND DUPS

COLLECT SAMPLES AND DUP'S @ 11:25

Final SWL:
Total Vol.: 8 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW23A
Date of Field Visit: 8/19/13
Field Staff: M. LADEAU
C. JOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 35-55
Static WL: 39.70
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.156 gal
3 System Volumes: 3 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:50	39.70							
9:59	39.73	21.83	1.862	2.93	7.17	232.0	0.19	
10:02	39.75	21.81	1.861	2.87	7.13	234.7	0.28	
10:05	39.72	21.82	1.861	2.85	7.18	232.3	0.08	
10:08	39.70	21.81	1.864	2.86	7.19	231.9	0.08	
10:11	39.72	21.82	1.865	2.81	7.19	230.4	0.17	
10:14	39.72	21.82	1.866	2.81	7.16	229.9	0.08	
10:17	39.68	21.82	1.869	2.81	7.19	228.6	0.21	
10:20	39.72	21.82	1.871	2.78	7.17	227.0	0.16	
10:25								COLLECT SAMPLES

COLLECT SAMPLES @ 10:25 am

Final SWL:
Total Vol.: 3 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW23B
Date of Field Visit: 8/19/13
Field Staff: M. LADEAN
C. IOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 87-97
Static WL: 41.48
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.57 gal
3 System Volumes: 6 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:52	41.48							
8:57	42.15	21.79	1.610	2.46	7.46	302.1	0.71	
9:00	42.10	21.65	1.623	1.86	7.30	289.2	2.90	
9:03	42.10	21.62	1.649	2.00	7.25	283.2	0.44	
9:06	42.10	21.62	1.669	2.14	7.25	273.2	0.57	
9:09	42.20	21.61	1.676	2.20	7.29	265.3	0.45	
9:12	42.20	21.61	1.680	2.24	7.27	259.3	0.00	
9:15	41.82	21.60	1.685	2.28	7.26	255.7	0.06	
9:18	42.21	21.60	1.685	2.29	7.28	250.5	0.22	
9:25								SAMPLE COLLECTED

Final SWL:
Total Vol.: 6 GALLONS

SAMPLE COLLECTED @ 9:25 am

COLLECTING DUP's.

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW23C
Date of Field Visit: 8/19/13
Field Staff: M LADEAU
C IOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 145-160
Static WL: 47.75'
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 1.14 gal
3 System Volumes: 5 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:08	47.75							
8:10	47.15	21.52	2.249	2.10	7.46	233.0	0.05	
8:13	47.3	21.58	2.077	2.59	7.26	230.3	0.31	
8:16	47.32	21.59	2.027	2.03	7.18	236.4	-0.05	
8:19	47.33	21.47	2.023	2.57	7.23	231.4	0.00	
8:22	47.30	21.45	1.997	2.23	7.24	224.6	-0.78	
8:25	47.32	21.43	1.925	1.67	7.26	225.1	0.46	
8:28	47.23	21.42	1.925	1.53	7.26	228.7	-0.59	
8:31	47.27	21.42	1.955	1.33	7.25	218.5	-0.62	
8:34	47.35	21.43	1.971	1.32	7.25	217.7	-0.62	
8:40								COLLECT SAMPLES

Final SWL:
Total Vol.: 5 GALLONS

SAMPLE COLLECTED @

8:40

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW23D
Date of Field Visit: 8/19/13
Field Staff: M. LADEAU
C. JOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 175-185
Static WL: 47.70'
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 1.40 gal
3 System Volumes: 6 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:13 am	47.70'							
							~~0.04~~	
7:19	47.65	21.75	1.724	2.63	7.42	~~[illegible]~~	-0.04	
7:22	48.10	21.53	1.689	2.67	7.49	292.2	0.67	
7:25	47.95	21.38	1.698	2.52	7.48	285.3	1.67	
7:28	47.92	21.33	1.701	2.41	7.48	278.7	1.55	
7:31	48.11	21.31	1.704	2.30	7.47	264.4	1.15	
7:34	47.92	21.31	1.707	2.35	7.49	265.4	0.89	
7:37	47.89	21.30	1.712	2.26	7.50	259.4	0.47	
7:40	48.02	21.27	1.718	2.24	7.46	255.6	0.47	
7:43	48.07	21.25	1.721	2.24	7.47	251.0	0.37	
7:50								COLLECT SAMPLE
								+ LAB QC

Final SWL:
Total Vol.: 6 GALLONS

SAMPLE AND LAB QC COLLECTED @ 7:50 am

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW25A
Date of Field Visit: 8/21/13
Field Staff: LADEZAN
IDAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 45-65
Static WL: 52.61
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.1763 gal
3 System Volumes: 10 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:40	52.61							
9:57	52.70	21.30	1.851	4.81	6.97	205.5	0.28	
10:00	52.67	21.63	1.849	3.58	6.94	206.2	0.64	
10:03	52.68	21.71	1.847	3.53	6.97	202.9	0.27	
10:06	52.68	21.71	1.848	3.52	6.92	204.9	0.20	
10:09	52.69	21.73	1.848	3.50	6.98	198.2	0.26	
10:12	52.67	21.71	1.848	3.50	6.95	195.0	0.75	
10:15	52.67	21.71	1.848	3.49	6.92	197.0	0.63	
10:18	52.67	21.72	1.849	3.52	6.94	200.0	1.99	
10:21	52.67	21.69	1.849	3.50	6.93	198.6	0.67	
10:25								COLLECT SAMPLES

COLLECT SAMPLES @ 10:25

Final SWL:
Total Vol.: 10 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW25B
Date of Field Visit: 6/21/13
Field Staff: M. LADEAN
C. TOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 90-110
Static WL: 53.21
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.5792 gallon
3 System Volumes: 5 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:53	53.21							
8:57	53.3	22.14	1.779	5.83	7.29	230.9	1.83	
9:00	53.6	21.81	1.771	3.04	7.02	231.0	1.58	
9:03	53.6	21.80	1.770	3.01	7.04	227.4	1.51	
9:06	53.5	21.77	1.765	2.94	7.04	224.6	1.44	
9:09	53.50	21.79	1.763	2.93	7.06	220.9	1.45	
9:12	53.45	21.80	1.763	2.91	7.06	219.5	1.42	
9:15	53.40	21.79	1.765	2.90	7.06	218.7	1.61	
9:18	53.50	21.79	1.768	2.88	7.06	217.2	1.46	
[redacted]								
9:25								~~TOLDE~~ SAMPLE COLLECT

Final SWL:
Total Vol.: 5 GALLONS

COLLECT SAMPLE @ 9:25

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW25C
Date of Field Visit: 8/21/13
Field Staff: M. LADEAU
C. IOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 140-150
Static WL: 58
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.938 gal
3 System Volumes: 6 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:57	58							
8:00	58.6	22.37	0.523	6.45	7.99	252.1	0.04	
8:03	58.9	21.83	0.505	3.49	7.85	250.1	0.09	
8:06	59.3	21.70	0.494	1.96	7.92	242.3	0.23	
8:09	59.70	21.70	0.494	1.20	7.95	238.9	0.52	
8:12	59.87	21.70	0.493	0.86	7.93	231.6	0.75	
8:15	60.00	21.71	0.493	0.66	7.90	228.0	0.57	
8:18	60.20	21.81	0.491	0.49	7.90	224.7	0.23	
8:21	60.27	21.83	0.489	0.43	7.92	223.8	0.32	
8:24	60.32	21.85	0.487	0.41	7.88	225.2	0.33	
8:30								COLLECT SAMPLES

Final SWL:
Total Vol.: 6 GALLONS?

COLLECT SAMPLES @ 8:30
AND DUP's

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW25D
Date of Field Visit: 8/21/13
Field Staff: M LAOEMU
C JOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 194-209
Static WL: 88.71
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 1.73 gal
3 System Volumes: 5 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:10	88.70'							
7:16	88.70	21.95	0.563	3.96	7.76	290.7	0.81	
7:19	88.72	21.72	0.510	3.23	7.70	287.2	0.65	
7:22	88.71	21.68	0.490	2.72	7.68	283.1	0.63	
7:25	88.70	21.66	0.485	2.31	7.66	278.4	-0.07	
7:28	88.73	21.65	0.483	2.01	7.65	272.5	0.04	
7:31	88.72	21.60	0.486	3.81	7.65	268.3	0.32	
7:34	88.70	21.64	0.503	1.83	7.69	260.1	0.11	
7:37	88.70	21.65	0.611	1.92	7.70	258.4	0.28	
7:45								COLLECTED SAMPLES

COLLECTED SAMPLES @ 7:45

Final SWL:
Total Vol.: 5 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW26A
Date of Field Visit: 8/23/13
Field Staff: M. LADEAU
C. IORN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 70-90
Static WL: 84.10
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.0601X gal
System Volume = bottom of screened interval minus Static WL * Gal/ft line
3 System Volumes:
Sampling Equipment: Dedicated Bladder Pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:46	84.10							
								PUMP PULLED OUT AND
								BLADDER IS CONDITIONED.
								GRAB SAMPLE WILL BE
								CONDUCTED.

COLLECT SAMPLES @ 10:30

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW26B
Date of Field Visit: 6/28/13
Field Staff: M LADEAU
C IDAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 105-120
Static WL: 84.18
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.365 gal
3 System Volumes:
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:55	84.18							
9:02	84.19	21.92	2.070	5.50	7.30	139.4	5.02	
9:05	84.20	21.84	2.061	3.30	7.17	145.1	1.51	
9:08	84.20	21.86	2.060	3.30	7.28	148.2	-0.29	
9:11	84.20	21.88	2.050	3.28	7.30	149.8	-0.70	
9:14	84.20	21.90	2.046	3.27	7.33	151.4	-0.45	
9:17	84.30	21.92	2.034	3.24	7.33	152.6	-0.78	
9:20	84.20	21.89	2.033	3.27	7.26	152.9	-0.72	
9:23	84.20	21.89	2.033	3.25	7.31	154.0	-0.51	
9:30								COLLECT SAMPLES AND DUPS

COLLECT SAMPLES AND DUP'S @ 9:30

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW26C
Date of Field Visit: 8/23/13
Field Staff: M. LADEAU
C. ZOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 145-160
Static WL: 100.5'
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.6069 gal
3 System Volumes: 7 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
7:53	100.5							
8:20	100.55	21.14	1.541	3.03	7.47	96.2	66.4	
8:23	101.10	21.78	1.582	2.63	7.36	9.3	212	
8:26	101.07	21.70	1.621	2.55	7.38	-37.8	54.5	
8:29	100.07	21.69	1.620	2.54	7.38	-44.2	47.5	
8:32	101.00	21.68	1.618	2.51	7.39	-47.9	40.9	
8:35	100.72	21.70	1.629	2.56	7.37	-33.1	29.7	
8:38	101.00	21.76	1.627	2.55	7.39	-27.5	20.7	
8:41	100.86	21.80	1.677	2.51	7.40	-18.6	15.3	
8:45								COLLECT SAMPLES

Final SWL:
Total Vol.: 7 GALLONS

COLLECT SAMPLES @ 8:45

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW26D
Date of Field Visit: 8/23/13
Field Staff: M LADEAU
C JUAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 185-205
Static WL: 102.94'
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 1.0410 gal
3 System Volumes: 10 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
6:55	102.94							
7:15	103.2	21.70	0.506	2.29	7.99	-83.1	-0.11	
7:18	103.27	21.76	0.504	1.39	8.02	-65.3	-0.51	
7:21	103.27	21.77	0.503	1.13	8.01	-66.2	-0.62	
7:24	103.20	21.76	0.502	0.73	8.01	-70.4	-0.35	
7:27	103.20	21.75	0.503	0.44	8.02	-84.9	-1.17	
7:36	103.30	21.71	0.503	0.80	8.07	-105.6	-1.30	
7:37	103.30	21.79	0.504	0.47	8.00	-107.0	0.49	
7:40								COLLECT SAMPLES

COLLECT SAMPLES @ 7:40

Final SWL:
Total Vol.: 6 GALLONS

CH2MHILL

Groundwater Monitoring
Field Activity Sheet
Omega Chemical

Well ID: MW27A
Date of Field Visit: 8/7/13
Field Staff: AA LADEAU
L JUAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 110-115
Static WL: 91.90
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.276 gal
3 System Volumes: 10 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
10:54	91.90							
10:59	91.95	22.66	1.844	0.72	6.66	-15.5	0.00	
11:02	91.96	22.92	1.856	0.41	6.00	-21.9	-0.54	
11:05	91.95	22.92	1.854	0.39	6.02	-23.2	-0.87	
11:08	91.89	22.93	1.852	0.37	6.24	-32.0	-1.26	
11:11	91.89	22.91	1.851	0.35	6.42	-41.1	-1.18	
11:14	91.93	22.90	1.857	0.35	6.38	-40.7	0.72	
11:17	91.87	22.92	1.851	0.35	6.40	-43.4	-0.60	
11:20	91.90	22.89	1.851	0.34	6.48	-42.6	-1.03	
11:23	91.85	22.94	1.850	0.33	6.47	-44.7	-1.03	
11:30								COLLECT SAMPLES AND DUPS

COLLECT SAMPLES AND DUP'S @ 11:30

Final SWL:
Total Vol.: 10 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW27B
Date of Field Visit: 8/17/18
Field Staff: A. LADSAN
C. JOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 144-164
Static WL: 91.80'
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.736 gal
3 System Volumes: 6 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:53	91.80							
9:57	91.85	23.47	1.698	2.24	6.67	-195.7	0.11	
10:00	92.00	23.53	1.734	0.39	6.69	-172.5	-0.84	
10:03	92.00	23.58	1.736	0.30	6.78	-140.1	-0.59	
10:06	91.90	23.59	1.730	0.27	6.81	-160.7	5.83	
10:09	92.00	23.64	1.729	0.28	6.81	-167.3	0.94	
10:12	91.90	23.57	1.730	0.28	6.81	-167.5	-0.42	
10:15	91.90	23.61	1.729	0.28	6.80	-170.4	-0.63	
10:18	91.85	23.92	1.721	0.30	6.89	-175.6	1.70	
10:21	91.90	23.74	1.726	0.30	6.89	-172.9	-0.64	
10:25								COLLECT SAMPLE

COLLECT SAMPLE @ 10:25am

Final SWL:
Total Vol.: 6 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW27C
Date of Field Visit: 8/26/18
Field Staff: M. LAGRAD
C. JOHN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 180-190
Static WL: 104.11'
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.876 gal
3 System Volumes: 3 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:07	104.11							
9:09	106.2	24.12	0.872	4.82	6.82	-100.5	-0.37	
9:12	106.7	23.88	0.867	1.06	6.81	-133.8	-0.74	
9:15	107.59	23.99	0.852	0.50	7.24	-190.2	-0.60	
9:18	108.00	24.08	0.817	0.41	7.41	-208.2	1.26	
9:21	108.17	24.12	0.816	0.39	7.40	-219.5	-0.37	
9:24	108.35	24.15	0.829	0.38	7.45	-213.0	-0.71	
9:27	108.39	24.17	0.845	0.38	7.45	-216.0	-0.83	
9:30	108.40	24.18	0.855	0.39	7.33	-216.4	-0.68	
9:35								COLLECT SAMPLES

COLLECT SAMPLES @ 9:35

Final SWL:
Total Vol.: 3 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW27D
Date of Field Visit: 6/26/13
Field Staff: M. LADEAU
C. JOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 200-210
Static WL: 112.99
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.989 gal
3 System Volumes: 4 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:16	112.99'							
8:23	113.05	23.82	0.882	2.90	6.70	-138.4	-1.39	
8:26	113.06	23.77	0.894	0.99	6.90	-166.0	-1.40	
8:29	113.10	23.81	0.916	0.55	7.25	-176.0	-1.56	
8:32	113.10	23.81	0.916	0.51	7.30	-176.6	0.76	
8:35	113.10	23.83	0.921	0.42	7.37	-184.7	-0.84	
8:38	113.10	23.86	0.920	0.35	7.40	-193.8	-0.73	
8:41	113.10	23.86	0.919	0.34	7.37	-193.0	-1.13	
8:44	113.05	23.87	0.918	0.33	7.42	-192.5	-1.83	
8:50								COLLECT SAMPLES

COLLECT SAMPLES @ 8:50

Final SWL:
Total Vol.: 4 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW28
Date of Field Visit: 8/27/13
Field Staff: M. Arsov, E. Tuhr
R9 Sample ID:
CLP Sample ID:

Screened Interval: 85-105
Static WL: 89.73
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.156 gal
3 System Volumes: 8 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
10:00	89.73							
10:12	89.87	20.51	1.729	3.73	6.54	139.9	-0.98	
10:15	89.85	20.48	1.716	0.53	6.31	144.8	-1.11	
10:18	89.90	20.61	1.710	0.47	6.33	140.4	-1.09	
10:21	89.90	20.53	1.704	0.46	6.35	137.5	-1.53	
10:24	89.90	20.57	1.708	0.46	6.36	136.3	-1.51	
10:27	90.00	[illegible]	[illegible]	0.47	6.37	130.8	[illegible]	
10:30	90.00	20.57	1.702	0.47	6.34	130.2	-0.88	
10:40								COLLECT SAMPLES

COLLECT SAMPLES @ 10:40

Final SWL:
Total Vol.: 8 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID:	MW29	**Screened Interval:**	90-110
Date of Field Visit:	8/29/13	**Static WL:**	90.05'
Field Staff:	M. LADEAU	**Line Depth:**	
	C. IVAN	**Gal/ft line**	0.0102 gal
R9 Sample ID:		**System Volume:**	0.203 gal
CLP Sample ID:		**3 System Volumes:**	6 GALLONS
		Sampling Equipment:	Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:15	90.05							
9:20	90.10	22.38	2.045	4.23	6.93	125.6	2.00	
9:23	90.10	22.39	2.070	1.89	6.71	131.9	4.23	
9:26	90.10	22.40	2.071	1.88	6.71	130.6	3.87	
9:29	90.14	22.36	2.060	1.86	6.75	128.5	3.87	
9:32	90.10	22.37	2.060	1.82	6.74	123.[illegible]	3.77	
9:35	90.10	22.36	2.062	1.83	6.66	127.7	3.44	
9:38	90.10	22.37	2.064	1.80	6.77	129.0	2.96	
9:41	90.08	22.35	2.066	1.81	6.79	130.1	2.43	
9:45								COLLECT SAMPLES

COLLECT SAMPLES @ 9:45 AM

Final SWL:

Total Vol.: 6 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW30
Date of Field Visit: 8/29/13
Field Staff: MIKE LADEAU
C TOAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 95-115
Static WL: 101.92'
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.1329 gal
3 System Volumes: 4 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
8:10	101.92							
8:15	101.95	23.48	1.771	6.56	7.33	173.5	16.9	
8:18	101.95	23.41	1.623	2.20	6.94	122.4	6.43	
8:21	101.95	23.44	1.594	0.84	6.75	55.4	12.5	
8:24	101.97	23.49	1.512	0.73	6.73	31.4	8.26	
8:27	101.90	23.47	1.546	0.62	6.75	-4.8	5.31	
8:30	101.95	23.42	1.645	0.61	6.75	-7.0	5.50	
8:33	101.95	23.47	1.651	0.61	6.75	-9.9	5.22	
8:40								COLLECT SAMPLES

COLLECT SAMPLES @ 8:40 am

Final SWL:
Total Vol.: 4 GALLONS

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW31
Date of Field Visit: 8/16/13
Field Staff: M. LADEAU, G. TOAD
R9 Sample ID:
CLP Sample ID:

Screened Interval: 106-121
Static WL: 101.19'
Line Depth:
Gal/ft line 0.0102 gal
System Volume:
3 System Volumes: 9 Gallons
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
9:20	101.19'							
9:25	101.27'	21.63	1.581	4.67	7.02	213.0	0.06	
9:28	101.46'	21.53	1.584	4.69	6.96	214.4	0.63	
9:31	101.38	21.46	1.588	4.78	6.92	218.0	-0.03	
9:34	101.38	21.45	1.588	4.83	6.91	218.7	0.00	
9:37	101.50	21.44	1.590	4.86	6.91	218.8	0.00	
9:40	101.37	21.44	1.593	4.90	6.91	218.0	0.00	
9:43	101.38	21.44	1.596	4.89	6.90	218.0	0.00	
9:50	—	—	—	—	—	—	—	COLLECT SAMPLE

COLLECT SAMPLE @ 9:50

Final SWL:
Total Vol.: 9 Gallons

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Omega Chemical

Well ID: MW32
Date of Field Visit: 8/27/13
Field Staff: M LADIAU
C JORAN
R9 Sample ID:
CLP Sample ID:

Screened Interval: 163-178
Static WL: 96.45
Line Depth:
Gal/ft line 0.0102 gal
System Volume: 0.832 gal
3 System Volumes: 6 GALLONS
Sampling Equipment: Dedicated Bladder Pump

System Volume = bottom of screened interval minus Static WL * Gal/ft line

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
11:07	96.45							
11:16	96.50	21.67	1.562	3.43	6.47	111.9	-0.96	
11:19	96.48	21.48	1.591	2.60	6.20	132.0	-0.87	
11:22	96.46	21.48	1.592	2.17	6.22	133.9	-0.87	
11:25	96.49	21.46	1.592	1.66	6.29	127.9	0.79	
11:28	96.49	21.44	1.588	1.56	6.32	128.5	-1.26	
11:31	96.50	21.45	1.584	1.55	6.47	128.5	-0.50	
11:34	96.50	21.47	1.585	1.52	6.48	123.5	-0.82	
11:37	96.48	21.49	1.580	1.51	6.54	119.6	-0.94	
11:40	96.50	21.52	1.580	1.27	6.62	120.7	-1.34	
11:45								COLLECT SAMPLE

COLLECT SAMPLE @ 11:45

Final SWL:
Total Vol.: 6 GALLONS

A.5 4Q2014 Well Purge Forms

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-1A
Date of Field Visit: 10/24/14
Field Staff: Ti Hoang, Mike P

Well Casing Dia. 4"
Static WL: 52.05
Total Depth 60.00
Sampling Equipment Ded Bladder Pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	vol/ml
0859	52.11	22.6	1604	3.88	6.78	70.8	2		900
0902	52.14	22.5	1606	3.83	6.75	76.4	2	Start @ 0856	1800
0905	52.15	22.6	1605	3.61	6.75	80.5	1	rate = 300ml/min	2700
0908	52.15	22.6	1605	3.60	6.75	82.7	1		3600
0911	52.15	22.6	1606	3.58	6.75	80.9	1		4500
0914	52.15	22.6	1607	3.55	6.75	81.7	1		5400
								sample @ 0920	

Final SWL: 52.15
Total Vol.: 5400ml

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-1B
Date of Field Visit: 10/24/14
Field Staff: Ti Hoang Mike P

Well Casing Dia. 4"
Static WL: 51.99
Total Depth 84.50
Sampling Equipment Ded QED Bladder Pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	vol/ml
0812	52.02	22.3	1503	3.50	6.90	52.6	2		900
0815	52.03	22.2	1504	3.52	6.88	56.4	2	Start @0809	1800
0818	52.05	22.1	1503	3.47	6.86	59.1	2	rate = 300ml/min	2700
0821	52.05	22.1	1502	3.41	6.85	65.3	1		3600
0824	52.05	22.1	1503	3.43	6.84	68.2	1		4500
0827	52.05	22.2	1505	3.44	6.84	69.7	1		5400
								sample @ 0830	
								LAB QC @ 0836	

Final SWL: 52.05
Total Vol.: 5400

CH2MHILL

Groundwater Monitoring
Field Activity Sheet

Well ID: MW-2
Date of Field Visit: 10/22/14
Field Staff: T. Hoang Mike P

Well Casing Dia. 4"
Static WL: 47.95
Total Depth 60.00
Sampling Equipment Del Bladder pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	Vol/ml
1028	48.05	23.5	2159	5.60	7.24	97.6	2		900
1031	48.06	23.1	2259	4.09	7.02	102.4	1	Start @ 1025	1800
1034	48.06	23.0	2270	3.38	6.78	102.5	1	rate = 300ml/min	2700
1037	48.06	23.2	2269	3.11	6.77	101.6	1		3600
1040	48.06	23.1	2270	3.06	6.75	100.7	1		4500
1043	48.06	23.1	2269	3.04	6.73	100.4	1		5400
								sample @ 1045	

Final SWL: 48.06
Total Vol.: 5400ml

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-06
Date of Field Visit: 10/22/14
Field Staff: Ti Hoang, Mike P

Well Casing Dia. 4"
Static WL: ~~[illegible]~~ 46.40
Total Depth 47.00
Sampling Equipment —

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
	—Insufficient water to Purge or sample—							
	—No Sample Taken—							

Final SWL: _____
Total Vol.: _____

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-8A
Date of Field Visit: 10/17/14
Field Staff: Danny Rice, Mike Palm

Well Casing Dia. 4
Static WL: 44.69
Total Depth 45.00
Sampling Equipment DEDICATED BP

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
	—	Insufficient	water	to	Purge	&	Sample	—
		—	NO	SAMPLE	TAKEN	—		

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-813
Date of Field Visit: 10/17/14
Field Staff: Danny Rice
Mike Palm

Well Casing Dia. 2
Static WL: 47.39
Total Depth 75.00
Sampling Equipment DEDICATED BP

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0928	47.48	22.4	1607	3.58	6.80	151.6	2	Start Purge @ 0925
0931	47.48	22.6	1607	3.61	6.76	143.7	2	
0934	47.48	22.5	1599	3.57	6.75	145.2	1	@ 400 mL/min
0937	47.48	22.4	1590	3.54	6.75	152.6	1	
0940	47.48	22.4	1583	3.54	6.74	157.7	2	
0943	47.48	22.5	1577	3.52	6.74	153.6	1	
								Sample @ 0950

Final SWL: 47.48
Total Vol.: 7200 mL

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-8C
Date of Field Visit: 10/7/14
Field Staff: Danny Rice
Mike Palm

Well Casing Dia. 2
Static WL: 49.23
Total Depth 91.70
Sampling Equipment DEDICATED BP

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0847	49.49	22.1	1551	2.85	6.77	152.0	2	start Purge @ 0844
0850	49.49	22.1	1588	2.90	6.73	164.4	1	
0853	49.49	22.1	1613	3.06	6.72	170.7	2	@ 300 mL/min
0856	49.49	22.1	1625	3.12	6.71	177.4	2	
0859	49.49	22.1	1634	3.23	6.71	179.8	1	
0902	49.49	22.1	1637	3.28	6.71	174.4	1	
								Sample @ 0905

Final SWL: 49.49
Total Vol.: 5400 mL

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-8D
Date of Field Visit: 10/17/14
Field Staff: Danny Rice
Mike Palm

Well Casing Dia. 4
Static WL: 59.20
Total Depth 120.00
Sampling Equipment Dedicated BP

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0809	59.30	21.8	1369	1.55	6.37	184.8	3	START Purge @ 0806
0812	59.30	21.8	1395	1.07	6.65	162.1	4	
0815	59.30	21.8	1389	0.99	6.77	156.1	4	@ 300 mL/min
0818	59.30	21.8	1384	0.90	6.85	151.4	3	
0821	59.30	21.8	1382	0.89	6.89	148.3	3	
0824	59.30	21.8	1380	0.87	6.92	145.5	3	
								Sample @ 0830

Final SWL: 59.30
Total Vol.: 5400 mL

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-09A
Date of Field Visit: 10/21/14
Field Staff: T. Hoang, Mike P

Well Casing Dia. 4"
Static WL: —
Total Depth 35.00
Sampling Equipment —

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
— Insufficient Water to Purge or Sample —								
		—No Sample Taken—						

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring
Field Activity Sheet

Well ID: MW-09B
Date of Field Visit: 10/21/14
Field Staff: Ti Hoang Mike P.

Well Casing Dia. 4"
Static WL: 52.99
Total Depth 60.00
Sampling Equipment Del Bladder Pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	vol/ml
1133	53.02	23.5	.1941	3.35	7.00	84.7	2		600
1136	53.03	23.6	.1942	3.21	6.98	84.3	1	Start Purge @ 1130	1200
1139	53.03	23.7	.1944	3.13	6.97	82.9	1	rate = 200ml/min	1800
1142	53.03	23.9	.1943	3.10	6.96	82.9	1		2400
1145	53.03	24.0	.1942	3.09	6.96	81.9	1		3000
1148	53.03	23.8	.1945	3.08	6.95	80.4	1		3600
1151	53.03	23.7	.1946	3.05	6.94	77.4	1		4200
1154	53.03	23.9	.1939	3.03	6.94	75.1	1		4800
								sample @ 1200	

Final SWL: 53.03
Total Vol.: 4800ml

CH2MHILL

Groundwater Monitoring
Field Activity Sheet

Well ID: MW-10
Date of Field Visit: 10/21/14
Field Staff: T. Hoang, Mike P.

Well Casing Dia. 4"
Static WL: 55.31
Total Depth 62.00
Sampling Equipment Ded Bladder Pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	vol (ml)
1047	55.46	22.3	2100	4.46	7.01	84.6	10		900
1050	55.48	22.3	2104	4.10	6.95	87.1	8	start purge @ 1044	1800
1053	55.49	22.4	2111	3.84	6.90	90.9	6	rate = 300 ml/min	2700
1056	55.49	22.3	2113	3.88	6.90	90.8	5		3600
1059	55.49	22.4	2111	3.85	6.91	88.5	5		4500
1102	55.49	22.6	2110	3.82	6.91	86.3	5		5400
								sample @ 1105	

Final SWL: 55.49
Total Vol.: 5400 ml

CH2MHILL

Groundwater Monitoring
Field Activity Sheet

Well ID: MW-11
Date of Field Visit: 10/21/14
Field Staff: T. Hoang, Mike P.

Well Casing Dia. 4"
Static WL: DRY
Total Depth 49.92
Sampling Equipment —

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
	—	well	is	DRY —				

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-12
Date of Field Visit: 10/22/14
Field Staff: T. Hoang Mike P.

Well Casing Dia. 2"
Static WL: 96.60
Total Depth 102.00
Sampling Equipment Disp Bailer

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
		→ Grab Sample —						
1240	96.60	23.7°	1611	4.11	7.20	91.4	691	
								sample @ 1240

Final SWL: —
Total Vol.: —

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-13A
Date of Field Visit: 10/28/14
Field Staff: Brett Bulkin, Mike Palm

Well Casing Dia. 2 in
Static WL: 70.22
Total Depth 70.80
Sampling Equipment

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
— well was insufficient (0.58 ft) to purge and sample — no sample taken —								

Final SWL:
Total Vol.:

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-13B
Date of Field Visit: 10/28/14
Field Staff: Brett Bulkin, Mike Palm

Well Casing Dia. 2 in
Static WL: 103.03
Total Depth 138.40
Sampling Equipment YSI 556 # 12510185
Hach 2100Q # 13060C026134

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0742	103.08	22.03	1.695	6.25	7.05	158	1	Started @ 0736 200mL/min
0745	103.09	21.99	1.674	5.53	7.16	144	1	
0748	103.12	21.90	1.563	4.25	7.17	114	1	
0751	103.13	21.95	1.544	4.19	7.17	109	1	
0754	103.14	21.99	1.524	4.16	7.17	105	0	
0800								Sample taken

Final SWL: 103.14
Total Vol.: 4800 mL

CH2MHILL

Groundwater Monitoring
Field Activity Sheet

Well ID: MW14
Date of Field Visit: 6/24/14
Field Staff: T. Hoaury Mike P

Well Casing Dia. 2"
Static WL: 63.69
Total Depth 79.21
Sampling Equipment Ded Bladder Pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	vol/ml
0706	63.72	22.8	2086	1.39	6.54	28.5	2		600
0709	63.74	22.2	2188	2.09	6.56	31.6	1	Start @ 0708	1200
0712	63.75	22.5	2294	2.86	6.63	45.9	1	rate = 200ml/min	1800
0715	63.76	22.5	2296	2.89	6.64	46.2	1		2400
0718	63.76	22.2	2291	2.83	6.63	48.5	1		3000
0721	63.76	22.4	2294	2.82	6.63	49.6	1		3600
0724	63.76	22.2	2292	2.82	6.63	51.4	1		4200
								sample @ 0730	
								pup @ 0745	

Final SWL: 63.76
Total Vol.: 4200ml

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-16A
Date of Field Visit: 10/17/14
Field Staff: Danny Rice, Mike Palm

Well Casing Dia. 2
Static WL: 60.74
Total Depth 65.93
Sampling Equipment Sample Pro Portable BP

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
~~0829~~ 1229	61.61	24.3	2499	2.74	6.85	222.7	999	
~~0832~~ 1232	61.97	24.3	2505	2.23	6.81	224.8	311	Start Purge @ 1226
~~0835~~ 1235	62.18	24.5	2496	2.08	6.80	232.5	178	
~~0838~~ 1238	62.30	24.6	2494	1.11	6.80	232.3	144	@ 80 mL/min
~~0841~~ 1241	62.48	24.8	2490	2.18	6.50	235.5	121	
								Sample @ 1245

Final SWL: 62.48
Total Vol.: 750 mL

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-163
Date of Field Visit: 10/17/14
Field Staff: Danny Rice, Mike Palm

Well Casing Dia. 2
Static WL: 75.13
Total Depth 120.19
Sampling Equipment DEDICATED BP

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1137	75.18	22.6	1966	2.63	6.91	182.4	7	Purge start @ 1134
1140	75.18	22.4	2024	2.52	6.92	182.8	6	
1143	75.18	22.3	2043	2.57	6.92	187.4	4	@ 400 mL/min
1146	75.18	22.3	2050	2.48	6.92	195.4	3	
1149	75.18	22.3	2053	2.50	6.92	198.6	2	
1152	75.18	22.3	2052	2.46	6.92	203.8	2	
								Sample @ 1155

Final SWL: 75.18
Total Vol.: 7200 mL

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-16C
Date of Field Visit: 10/17/14
Field Staff: Danny Rice, Mike Palm

Well Casing Dia. 2
Static WL: 78.15
Total Depth 169.70
Sampling Equipment Dedicated BP

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1051	78.25	22.4	1283	3.80	7.14	214.7	1	Start Purge @ 1048
1054	78.25	22.9	1209	1.22	6.78	181.5	4	
1057	78.25	22.8	1229	1.12	6.98	183.1	4	@ 300 ml/min
1100	78.25	22.8	1228	1.08	7.03	176.3	3	
1103	78.25	22.5	1225	1.05	7.03	177.4	3	
1106	78.25	22.6	1225	1.03	7.03	177.8	2	
								Sample @ 1110

Final SWL: 78.25
Total Vol.: 5400 mL

CH2MHILL

Groundwater Monitoring
Field Activity Sheet

Well ID: MW-19
Date of Field Visit: 10/21/14
Field Staff: Ti Hoang, Mike P

Well Casing Dia. 2"
Static WL: 73.91
Total Depth 74.55
Sampling Equipment

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
	— Insufficient water to Purge or Sample —							
		— No Sample Taken —						

Final SWL:
Total Vol.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 141014 - BB1	Client: CH2MHill
Sampler: NT	Start Date: 10/31/14
Well I.D.: MW-20A	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 94.70	Depth to Water Pre: 89.30 Post: 93.91
Depth to Free Product: –	Thickness of Free Product (feet): –
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump (Bladder Pump)
Sampling Method: Dedicated Tubing (New Tubing) Other ____

Flow Rate: 300 mL/min Pump Depth: 92'

Time (start @ 1052)	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
– attempted to purge, water level drew down significantly –								
– pulled pump and pulled a sample –								
– No purge sample taken –								

Did well dewater? Yes No	Amount actually evacuated: –
Sampling Time: 1105	Sampling Date: 10/31/14
Sample I.D.: MW-20A	Laboratory: Liberty
Analyzed for: TPH-G BTEX MTBE TPH-D	(Other): See C.O.C.
Equipment Blank I.D.: @ Time	Duplicate I.D.:

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-20B
Date of Field Visit: 10/31/14
Field Staff: Nara Tex, Mike Palm

Well Casing Dia. 2"
Static WL: 97.65
Total Depth 137.70
Sampling Equipment ded. bladder pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity ~~(mS/cm)~~ (uS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	vol / mL
1016	97.66	23.1	1277	2.80	7.08	45.3	5	start @ 1013	900
1019	97.66	22.7	1280	2.25	7.10	45.8	5	rate = 300 mL/min	1800
1022	97.66	22.7	1285	2.22	7.11	46.1	4		2700
1025	97.67	22.6	1265	2.03	7.12	47.3	4		3600
1028	97.67	22.5	1263	2.01	7.12	48.8	3		4500
1031	97.67	22.5	1262	1.99	7.12	49.2	3		5400
								sample time = 1035	

Final SWL: 97.67
Total Vol.: 5400 mL

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-20C
Date of Field Visit: 10/31/14
Field Staff: N. Tay, Mike P

Well Casing Dia. 2"
Static WL: 118.00
Total Depth 195.20
Sampling Equipment Ded. Bladder pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity ~~(mS/cm)~~ (us/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	Vol / mL
0937	118.05	20.3	1240	0.72	7.36	-135.5	6	start purge = 0934	600
0940	118.05	23.0	1213	0.64	7.39	-157.0	4	rate = 200 mL/min	1200
0943	118.05	22.9	1052	0.43	7.45	-165.4	3		1800
0946	118.05	22.9	921	0.39	7.48	-162.0	3		2400
0949	118.05	22.9	915	0.26	7.52	-154.0	2		3000
0952	118.05	22.9	911	0.25	7.51	-152.8	2		3600
0955	118.05	22.9	910	0.25	7.50	-150.5	2		4200
								sample time = 1000	

Final SWL: 118.05
Total Vol.: 4200 mL

LOW FLOW WELL MONITORING DATA SHEET

Project #: 141014-BB1	Client: CH2MHill
Sampler: NT	Start Date: 10/31/14
Well I.D.: MW-21	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 84.31	Depth to Water Pre: 79.05 Post: 81.30
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: —

Purge Method: 2" Grundfos Pump ~~Reristaltic Pump~~ ~~Bladder Pump~~
Sampling Method: ~~Dedicated Tubing~~ ~~New Tubing~~ Other_____

Flow Rate: — Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
—	—	insufficient	water to	purge	—	—		
	—	No	purge	samples	taken	—	—	

Did well dewater? Yes No	Amount actually evacuated: —
Sampling Time: 1220	Sampling Date: 10/31/14
Sample I.D.: MW-21	Laboratory: Liberty
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: see c.o.c.
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 141014-BB1	Client: CH2MHill
Sampler: NT	Start Date: 10/31/14
Well I.D.: MW-22	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 93.34	Depth to Water Pre: 88.61 Post: 93.04
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: —

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ____

Flow Rate: — Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
	—	insufficient water to purge				—	—	
		—	No purge sample taken				—	

Did well dewater? Yes No	Amount actually evacuated: —
Sampling Time: 1155	Sampling Date: 10/31/14
Sample I.D.: MW-22	Laboratory: Liberty
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: see c.o.c.
Equipment Blank I.D.: @ Time	Duplicate I.D.:

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-24A
Date of Field Visit: 10/22/14
Field Staff: T. Hoang, Mike P

Well Casing Dia. 4"
Static WL: 54.21
Total Depth 75.00
Sampling Equipment Ded Bladder Pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	vol/ml
0933	54.35	25.6	1967	6.13	7.25	95.7	2		900
0936	54.36	24.1	2272	4.11	6.92	101.4	1	Start @ 0930	1800
0939	54.36	23.6	2362	3.04	6.73	95.2	1	rate = 300ml/min	2700
0942	54.36	23.8	2361	3.02	6.71	94.4	1		3600
0945	54.36	23.7	2359	3.01	6.71	92.6	1		4500
0948	54.36	23.7	2358	2.99	6.70	90.2	1		5400
								Sample @ 0955	

Final SWL: 54.36
Total Vol.: 5400ml

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-24B
Date of Field Visit: 10/22/14
Field Staff: T. Hoang, Mike P

Well Casing Dia. 2"
Static WL: 63.65
Total Depth 130.00
Sampling Equipment Del. Bladder Pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	vol/ml
0856	63.69	25.7	1476	5.66	7.40	85.6	1		600
0859	63.70	24.6	1507	4.30	7.30	81.4	1	Start @ 0853	1200
0902	63.71	23.7	1512	1.85	7.26	65.5	1	rate = 200ml/min	1800
0905	63.71	23.7	1509	1.80	7.24	64.1	1		2400
0908	63.71	23.6	1507	1.77	7.23	62.5	1		3000
0911	63.71	23.6	1503	1.72	7.22	60.9	1		3600
0914	63.71	23.6	1501	1.71	7.22	58.5	1		4200
								sample @ 0920	

Final SWL: 63.71
Total Vol.: 4200

CH2MHILL

Groundwater Monitoring
Field Activity Sheet

Well ID: MW-24C
Date of Field Visit: 10/22/14
Field Staff: T. Hoaney, Mike P

Well Casing Dia. 4"
Static WL: 63.88
Total Depth 165.00
Sampling Equipment Ded Bladder Pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	vol/ml
0819	64.00	23.4	1484	4.03	7.47	17.4	1		900
0822	64.02	23.1	1428	3.37	7.27	38.2	1	Start @0816	1800
0825	64.03	23.3	1422	3.09	7.21	41.9	1	rate = 300ml/min	2700
0828	64.03	23.3	1420	3.05	7.20	43.6	1		3600
0831	64.03	23.5	1424	3.07	7.22	45.7	1		4500
0834	64.03	23.5	1427	3.09	7.23	48.5	1		5400
								sample @0840	

Final SWL: 64.03
Total Vol.: 5400ml

CH2MHILL

Groundwater Monitoring
Field Activity Sheet

Well ID: MW-24D
Date of Field Visit: 10/22/14
Field Staff: T. Hoang, Mike P.

Well Casing Dia. 2"
Static WL: 64.69
Total Depth 183.00
Sampling Equipment Deed Bladder Pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	vol/ml
0745	64.80	22.9	1189	2.67	7.41	-141.7	1		600
0748	64.82	23.0	1189	1.50	7.41	-148.9	1	start @ 0742	1200
0751	64.85	23.1	1183	0.85	7.40	-153.6	1	rate = 200 ml/min	1800
0754	64.86	23.2	1182	0.82	7.40	-156.4	1		2400
0757	64.86	23.1	1181	0.78	7.39	-157.1	1		3000
0800	64.86	23.1	1181	0.75	7.38	-155.4	1		3600
								sample @ 0805	

Final SWL: 64.86
Total Vol.: 3600 ml

CH2MHILL

Groundwater Monitoring
Field Activity Sheet

Well ID: MW25A
Date of Field Visit: 10/21/14
Field Staff: T. Hoang, Mike P.

Well Casing Dia. 4"
Static WL: 61.63
Total Depth 90.00
Sampling Equipment ~~Peak~~ Bladder Pump Portable

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	vol/ml
~~09230939~~	61.75	23.7	1748	5.79	7.04	90.6	67		600
~~09260942~~	61.77	22.9	2316	2.63	7.01	82.2	85	start @ ~~0920~~ 0936	1200
~~09290945~~	61.77	22.4	2114	2.89	6.90	83.4	31	rate = 200 ml/min	1800
~~09320948~~	61.77	22.3	2110	2.93	6.83	81.7	30		2400
0951	61.77	22.1	2109	2.95	6.81	80.2	28		3000
0954	61.77	22.2	2104	2.97	6.81	78.7	27		3600
0957	61.77	22.3	2102	2.98	6.80	75.1	27		4200
								sample @ 1000	
								DUP @ 1015	

Final SWL: 61.77
Total Vol.: 4200 ml

CH2MHILL

Groundwater Monitoring
Field Activity Sheet

Well ID: MW25B
Date of Field Visit: 10/21/14
Field Staff: T. Hoang, Mike P.

Well Casing Dia. 2"
Static WL: 62.40
Total Depth 115.00
Sampling Equipment Decl. Bladder Pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	vol/ml
0840	62.44	24.3	1483	5.52	7.36	74.6	2		900
0843	62.46	22.7	1779	3.34	6.98	83.9	2	start @ 0837	1800
0846	62.47	22.5	1821	3.01	6.91	81.4	2	rate = 300ml/1min	2700
0849	62.47	22.4	1830	2.99	6.90	80.5	1		3600
0852	62.47	22.4	1825	2.90	6.89	77.2	1		4500
0855	62.47	22.4	1823	2.85	6.87	75.1	1		5400
								sample @ 0900	

Final SWL: 62.47
Total Vol.: 5400ml

CH2MHILL

Groundwater Monitoring
Field Activity Sheet

Well ID: MW25C
Date of Field Visit: 10/21/14
Field Staff: T. Hoang, Mike P.

Well Casing Dia. 4"
Static WL: 66.76
Total Depth 155.00
Sampling Equipment Ded. Bladder Pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	vol/ml
0803	66.85	22.2	463	2.74	7.52	61.5	1		600
0806	66.88	22.5	496	1.24	7.52	51.6	1	Start Purge @ 0800	1200
0809	66.89	22.5	512	0.85	7.64	36.5	1	rate = 200ml/min	1800
0812	66.89	22.6	514	0.81	7.66	32.9	1		2400
0815	66.89	22.4	514	0.79	7.68	31.4	1		3000
0818	66.89	22.5	514	0.77	7.69	30.2	1		3600
								Sample @ 0820	

Final SWL: 66.89
Total Vol.: 3600ml

CH2MHILL

Groundwater Monitoring
Field Activity Sheet

Well ID: MW25D
Date of Field Visit: 10/21/14
Field Staff: T. Hoang, Mike P.

Well Casing Dia. 2"
Static WL: 91.33
Total Depth 214.00
Sampling Equipment Ded. Bladder Pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	vol/ml
0723	91.40	23.2	642	5.63	6.41	96.4	3		900
0726	91.41	22.7	589	3.35	6.54	89.4	3	start Purge @ 0720	1800
0729	91.41	22.4	545	1.80	6.74	75.7	2	rate = 300 ml/min	2700
0732	91.41	22.4	490	1.42	6.99	56.3	1		3600
0735	91.41	22.3	487	1.34	7.16	50.9	1		4500
0738	91.41	22.3	482	1.29	7.20	45.9	1		5400
0741	91.41	22.2	481	1.27	7.21	43.4	1		6300
								sample @ 0745	

Final SWL: 91.41
Total Vol.: 6300 ml

CH2MHILL

Groundwater Monitoring
Field Activity Sheet

Well ID: MW-27A
Date of Field Visit: 10/28/14
Field Staff: Brett Bulkin
Mike Palm

Well Casing Dia. 4in
Static WL: 102.55
Total Depth 115
Sampling Equipment YSI 556 # 12J101185
Hach 2100Q # 13060C026134

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1143	102.56	24.77	1.725	1.02	6.91	-66	3	Started @ 1138 @ 175mL/min
1146	102.56	24.54	1.789	1.11	6.66	-64	1	
1149	102.56	24.24	1.845	1.05	6.63	-76	1	
1152	102.56	23.95	1.900	0.89	6.70	-65	1	
1155	102.56	23.88	1.928	0.82	6.72	-55	1	
1158	102.56	23.86	1.942	0.79	6.74	-56	1	
1200								Sampled well

Final SWL: 102.56
Total Vol.: 2975

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-27B
Date of Field Visit: 10/28/14
Field Staff: Breta Bulkin
Mike Palm

Well Casing Dia. 4 in
Static WL: 102.50
Total Depth 169
Sampling Equipment YSI 556 # 12J101185
Hach 2100Q # 13060C026134

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1058	102.53	23.79	1.205	1.42	6.76	-75	4	Started @ 1053 120 mL/min
1101	102.56	24.14	1.515	2.24	6.74	-40	2	
1104	102.57	23.90	1.570	1.80	6.81	-91	1	
1107	102.55	23.84	1.576	1.69	6.87	-102	1	
1110	102.54	23.78	1.598	1.20	6.99	-109	1	
1113	102.55	23.77	1.621	0.92	7.05	-104	1	
1116	102.55	23.79	1.631	0.78	7.12	-102	1	
1119	102.55	23.79	1.634	0.73	7.13	-101	1	
1122	102.55	23.79	1.640	0.71	7.14	-106	1	
1125								Sample taken

Final SWL: 102.55
Total Vol.: 3240 mL

CH2MHILL

Groundwater Monitoring
Field Activity Sheet

Well ID: MW-27C
Date of Field Visit: 10/28/14
Field Staff: Brett Bulkin
Mike Palm

Well Casing Dia. 2 in
Static WL: ~~112.50~~ 112.55
Total Depth 195
Sampling Equipment YSI ~~Probe~~ 556 # 12J101485
Hach 2100Q # 13060C026134

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0937 (BB) 44	112.91	23.76	0.907	1.90	6.85	-35	0	started @ 0932 ~~200~~ 100 mL/min (BB)
0947	112.80	23.67	0.900	1.91	6.84	-19	1	
0950	112.79	23.62	0.899	2.00	6.84	-49	0	
0953	112.78	23.63	0.894	1.94	6.84	-54	1	
0956	112.78	23.60	0.891	1.91	6.84	-61	1	
0959	112.78	23.66	0.882	1.87	6.85	-58	1	
1000								Sampled well
								pump would not go faster than 100 mL/min

Final SWL: 112.78
Total Vol.: 2800 mL

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-27D
Date of Field Visit: 10/28/14
Field Staff: Brett Bulkin, Mike Palm

Well Casing Dia. 2 in
Static WL: 123.73
Total Depth 215.
Sampling Equipment YSI 556 # 12310185; Hach 2100Q # 13060C026134

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
0850	123.85	22.71	0.929	2.84	6.89	79	0	Started @ 0845 200mL/min
0855	123.87	23.99	0.919	2.80	6.81	75	0	
0858	123.88	23.83	0.916	2.68	6.81	-54	0	
0901	123.88	23.63	0.919	1.95	6.95	-124	0	
0904	123.87	23.67	0.941	1.50	7.09	-138	0	
0907	123.87	23.71	0.963	1.20	7.22	-140	0	
0910	123.87	23.77	1.009	0.89	7.45	-141	0	
0913	123.87	23.78	1.019	0.94	7.45	-149	0	
0916	123.87	23.81	1.028	0.90	7.48	-147	0	
0920								Sample taken

Final SWL: 123.87
Total Vol.: 6000 mL

CH2MHILL

Groundwater Monitoring
Field Activity Sheet

Well ID: MW-28
Date of Field Visit: 10/29/14
Field Staff: T. Hoang, Mike P

Well Casing Dia. 4"
Static WL: 98.95
Total Depth 110.00
Sampling Equipment Del Bladder Pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	vol/ml
1021	98.99	21.3	1919	2.17	6.53	50.1	3		900
1024	99.00	21.0	1931	1.58	6.39	57.4	2	start @ 1018	1800
1027	99.00	21.2	1899	1.40	6.33	59.6	2	rate = 300ml/min	2700
1030	99.00	21.2	1878	1.37	6.31	56.7	2		3600
1033	99.00	21.2	1883	1.35	6.33	53.1	2		4500
1036	99.00	21.1	1881	1.31	6.33	52.7	2		5400
								sample @ 1040	

Final SWL: 99.00
Total Vol.: 5400ml

LOW FLOW WELL MONITORING DATA SHEET

Project #: 141014 - NT1	Client: CH2MHill
Sampler: NT	Start Date: 10/31/14
Well I.D.: MW-29	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 115.00	Depth to Water Pre: 96.95 Post: 96.95
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump (Bladder Pump)
Sampling Method: (Dedicated Tubing) New Tubing Other ____

Flow Rate: 300 mL/min Pump Depth: Ded. QED

start @ 1412 Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW Observations
1415	22.6	7.07	1709	5	1.99	100.1	900	96.97
1418	22.4	7.05	1730	5	1.24	93.8	1800	96.97
1421	22.3	7.04	1682	4	1.10	90.0	2700	96.97
1424	22.3	7.03	1680	4	1.06	85.8	3600	96.97
1427	22.3	7.03	1680	3	1.05	85.0	4500	96.97

Did well dewater? Yes (No)	Amount actually evacuated: 4.5L
Sampling Time: 1430	Sampling Date: 10/31/14
Sample I.D.: MW-29	Laboratory: Liberty
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: see c.o.c.
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 141014-BB1	Client: CH2MHill
Sampler: NT	Start Date: 10/31/14
Well I.D.: MW-30	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 120.00	Depth to Water Pre: 109.31 Post: 109.33
Depth to Free Product: –	Thickness of Free Product (feet): –
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ____

Flow Rate: 100 mL/min Pump Depth: Ded. QED

start @ 1253 Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW ~~Observations~~
1256	24.4	8.04	1091	9	6.45	51.6	300	109.40
1259	24.6	7.84	1137	8	6.09	64.2	600	109.40
1302	24.5	7.63	1205	8	6.52	72.6	900	109.40
1305	24.5	7.42	1220	6	6.50	79.1	1200	109.40
1308	24.6	7.40	1221	5	6.50	80.4	1500	109.40
1311	24.6	7.40	1223	5	6.52	81.4	1800	109.40

Did well dewater? Yes (No)	Amount actually evacuated: 1.8L
Sampling Time: 1315	Sampling Date: 10/31/14
Sample I.D.: MW-30	Laboratory: Liberty
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: see c.o.c.
Equipment Blank I.D.: @ Time	Duplicate I.D.:

CH2MHILL

Groundwater Monitoring
Field Activity Sheet

Well ID: MW-31
Date of Field Visit: 10/22/14
Field Staff: T. Hoang Mike P

Well Casing Dia. 2"
Static WL: 104.85
Total Depth 126.00
Sampling Equipment Deep Bladder Pump

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments	vol/ml
1138	104.94	23.4	1455	6.30	7.40	69.0	3		900
1141	104.96	23.5	1455	5.05	7.25	71.4	2	start @ 1135	1800
1144	104.96	23.5	1456	4.68	6.99	40.1	2	rate = 300ml/min	2700
1147	104.96	23.5	1456	4.63	6.97	35.1	2		3600
1150	104.96	23.5	1456	4.60	6.97	33.4	2		4500
1153	104.96	23.4	1455	4.58	6.96	31.6	2		5400
								sample @ 1200	

Final SWL: 104.96
Total Vol.: 5400

CH2MHILL

Groundwater Monitoring Field Activity Sheet

Well ID: MW-32
Date of Field Visit: 10/28/14
Field Staff: Brett Bilkin, Mike Palm

Well Casing Dia. 3in
Static WL: 105.16
Total Depth 183
Sampling Equipment YSI 556 # 12J101185, Hach 2100Q # 13060C026134

Field Parameters

Clock Time (24 HR)	Water Level (ft bgs)	Temp. °C	Specific Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
1244	105.18	26.78	1.326	5.51	7.62	-76	16	Started @ 1231 100mL/min
1247	105.18	26.00	1.342	6.07	7.51	-54	3	increased to 200mL/min
1250	105.18	25.05	1.411	4.45	7.31	-129	1	
1253	105.18	24.54	1.456	3.25	7.15	-141	1	
1256	105.18	24.33	1.480	2.77	7.12	-130	2	
1259	105.18	24.14	1.493	2.41	7.09	-123	1	
1302	105.18	23.98	1.501	2.05	7.07	-102	1	
1305	105.18	23.90	1.506	1.90	7.05	-71	1	
1308	105.18	23.92	1.509	1.85	7.05	-66	1	
1311	105.18	23.90	1.510	1.81	7.05	-61	1	
1315								Sample taken
1325								Dup taken

Final SWL: 105.18
Total Vol.: 8900 mL

7600
1300

A.1 1Q2012 Well Purge Forms

A.2 3Q2012 Well Purge Forms

A.3 1Q2013 Well Purge Forms

A.4 3Q2013 Well Purge Forms

A.5 4Q2014 Well Purge Forms

Appendix B
Data Needs and Uses

TABLE 2-1A

Data Needs and Uses for Groundwater

Omega Chemical Corporation Superfund Site Operable Unit 2

Matrix/Analyte	CAS Number	Data Use	Data User	Action Levels/Screening Criteria				
				EPA MCL (µg/L)	California MCL (µg/L)	California NL (µg/L)	Lowest Screening Level Value (µg/L)	Action Level Source
Groundwater/Volatile Organic Compounds								
Acetone	67-64-1	**Groundwater monitoring**	**Hydrogeologists, treatment engineers, regulatory specialists, risk assessors.**	--	--	--	--	--
Benzene	71-43-2			5	1	--	1	CA MCL
Bromochloromethane	74-97-5			--	--	--	--	--
Bromodichloromethane	75-27-4			80	--	--	--	EPA MCL
Bromoform	75-25-2			80	--	--	--	EPA MCL
Bromomethane	74-83-9			--	--	--	--	--
Carbon Disulfide	75-15-0			--	--	160	160	CA NL
Carbon Tetrachloride	56-23-5			5	0.5	--	0.5	CA MCL
Chlorobenzene	108-90-7			100	70	--	70	CA MCL
Chloroethane	75-00-3			--	--	--	--	--
Chloroform	67-66-3			80	--	--	--	CA MCL
Chloromethane	74-87-3			--	--	--	--	--
Cyclohexane	110-82-7			--	--	--	--	--
Dibromochloromethane	124-48-1			80	--	--	--	CA MCL
1,2-Dibromo-3-Chloropropane (DBCP)	96-12-8			0.2	--	--	0.2	EPA MCL
1,2-Dibromoethane	106-93-4			0.05	--	--	0.05	EPA MCL
1,2-Dichlorobenzene	95-50-1			600	600	--	600	CA MCL
1,3-Dichlorobenzene	541-73-1			--	--	--	--	--
1,4-Dichlorobenzene	106-46-7			75	5	--	5	CA MCL

TABLE 2-1A

Data Needs and Uses for Groundwater

Omega Chemical Corporation Superfund Site Operable Unit 2

Matrix/Analyte	CAS Number	Data Use	Data User	Action Levels/Screening Criteria				
				EPA MCL (µg/L)	California MCL (µg/L)	California NL (µg/L)	Lowest Screening Level Value (µg/L)	Action Level Source
Dichlorodifluoromethane (Freon 12)	75-71-8	Groundwater monitoring	Hydrogeologists, treatment engineers, regulatory specialists, risk assessors.	--	--	1000	1000	CA NL
1,1-Dichloroethane	75-34-3			--	5	--	5	CA MCL
1,2-Dichloroethane	107-06-2			5	0.5	--	0.5	CA MCL
1,1-Dichloroethylene	75-35-4			7	6	--	6	CA MCL
cis-1,2-Dichloroethylene	156-59-2			70	6	--	6	CA MCL
trans-1,2-Dichloroethylene	156-60-5			100	10	--	10	CA MCL
Dichloromethane (Methylene Chloride)	75-09-2			5	5	--	5	CA MCL
1,2-Dichloropropane	78-87-5			5	5	--	5	CA MCL
cis-1,3-Dichloropropene	10061-01-5			--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6			--	--	--	--	--
Ethylbenzene	100-41-4			700	300	--	300	CA MCL
2-Hexanone	591-78-6			--	--	--	--	--
Isopropanol	67-63-0			--	--	--	--	--
Isopropylbenzene (Cumene)	98-82-8			--	--	770	770	CA NL
Methyl acetate	79-20-9			--	--	--	--	--

TABLE 2-1A

Data Needs and Uses for Groundwater

Omega Chemical Corporation Superfund Site Operable Unit 2

Matrix/Analyte	CAS Number	Data Use	Data User	Action Levels/Screening Criteria				
				EPA MCL (µg/L)	California MCL (µg/L)	California NL (µg/L)	Lowest Screening Level Value (µg/L)	Action Level Source
Methyl ethyl ketone	78-93-3	Groundwater monitoring	Hydrogeologists, treatment engineers, regulatory specialists, risk assessors.	--	--	--	--	--
Methyl isobutyl ketone (MIBK)	108-10-1			--	--	--	--	--
Methylcyclohexane	108-87-2			--	--	--	--	--
Styrene	100-42-5			100	100	--	100	CA MCL
1,1,2,2-Tetrachloroethane	79-34-5			--	1	--	1	CA MCL
Tetrachloroethylene (PCE)	127-18-4			5	5	--	5	CA MCL
Toluene	108-88-3			1000	150	--	150	CA MCL
1,2,3-Trichlorobenzene	87-61-6			--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1			70	--	--	70	EPA MCL
1,1,1-Trichloroethane (1,1,1-TCA)	71-55-6			200	200	--	200	CA MCL
1,1,2-Trichloroethane	79-00-5			5	5	--	5	CA MCL
Trichloroethylene (TCE)	79-01-6			5	5	--	5	CA MCL
Trichlorofluoromethane	75-69-4			--	150	--	150	CA MCL

TABLE 2-1A

Data Needs and Uses for Groundwater

Omega Chemical Corporation Superfund Site Operable Unit 2

Matrix/Analyte	CAS Number	Data Use	Data User	Action Levels/Screening Criteria				
				EPA MCL (µg/L)	California MCL (µg/L)	California NL (µg/L)	Lowest Screening Level Value (µg/L)	Action Level Source
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	76-13-1	Groundwater monitoring	Hydrogeologists, treatment engineers, regulatory specialists, risk assessors.	--	1200	--	1200	CA MCL
Vinyl chloride	75-01-4			2	0.5	--	0.5	CA MCL
Xylene(s)	1330-20-7			10000	1750	--	1750	CA MCL
Methyl tert-butyl ether (MTBE)	1634-04-4			--	13	--	13	CA MCL
Groundwater/Metals								
Hexavalent Chromium	18540-29-9			--	--	--	10	CA OEHHA (proposed)
Emergent Compounds for Groundwater								
1,4-Dioxane	123-91-1			--	--	1	1	CA NL

Notes:

Target Quantation Limit (TQL) is above the screening level, however the method detection limit is expected to be below the TQL.

"--" = Not available

CA = California

EPA = United States Environmental Protection Agency

MCL = Maximum Contaminant Level

NL = Notification Level

Sources:

MCL - EPA Regional Screening Level Table (May, 2012)

CA MCL - MCLs, DLRs, and PHGs for Regulated Drinking Water Contaminants, California Department of Public Health, Last Update: July 27, 2011.

CA NL - Drinking Water Notification Levels and Response Levels: An Overview, California Department of Public Health (CDPH), Drinking Water Program, Table 1.

CA OEHHA- California Office of Environmental Health Hazard Assessment

CA DHS- California Department of Health Services (now California Department of Public Health)

TABLE A-1
Data Needs and Uses
Quality Assurance Project Plan, Omega OU-2

Compound	Uses/Decisions	Applicable Regulatory Limit (µg/L)	Applicable ARAR [1]	California DHS DLR (µg/L) [2]	Additional Regulatory Limits (µg/L)
TCL Volatile Organic Compounds					
Acetone	Exceedances with respect to federal and state drinking water standards, and state action levels.				
Benzene		1	CA Primary MCL [A]	0.5	0.15 [E]
Bromodichloromethane		100	USEPA Primary MCL [C]	0.5	2.5 [I] ; 100-proposed [A]
Bromoform	Evaluate water treatment system design.	100	USEPA Primary MCL [C]	0.5	45 [I] ; 100-proposed [A]
Bromomethane		500	CA Proposition 65 Regulatory Level [I]	0.5	
n-Butylbenzene	Evaluate remedial action performance.	260	CA DHS State Action Level [F]		
sec-Butylbenzene		260	CA DHS State Action Level [F]		
Carbon disulfide		160	CA DHS State Action Level [F]		
Carbon tetrachloride		0.5	CA Primary MCL [A]	0.5	0.1 [E]
Chlorobenzene		100	USEPA Primary MCL [C]		50 [H]
Chloroethane		16	Other Taste and Odor [H]	0.5	100 [I]
Chloroform					
Chloromethane			No Applicable ARAR		
2-Chlorotoluene		140	CA DHS State Action Level [F]		
4-Chlorotoluene		140	CA DHS State Action Level [F]		
Cyclohexane					
Dibromomethane					
Dibromochloromethane					
Dibromochloropropane (DBCP)		0.2	USEPA Primary MCL [C]		0.05 [I]
1,2-Dibromoethane		0.05			0.1 [I]
1,2-Dichlorobenzene		600	CA DHS State Action Level [G]	0.5	600 [E]
1,3-Dichlorobenzene		600	CA DHS State Action Level [G]	0.5	600 [F]
1,4-Dichlorobenzene		5	CA Primary MCL [A]	0.5	6 [E]
Dichlorodifluoromethane		1,000	CA DHS State Action Level [F]		

TABLE A-1
Data Needs and Uses
Quality Assurance Project Plan, Omega OU-2

Compound	Uses/Decisions	Applicable Regulatory Limit (µg/L)	Applicable ARAR [1]	California DHS DLR (µg/L) [2]	Additional Regulatory Limits (µg/L)
1,1-Dichloroethane	Exceedances with respect to federal and state drinking water standards, and state action levels.	5	CA Primary MCL [A]	0.5	3 [E]
1,2-Dichloroethane		0.5	CA Primary MCL [A]	0.5	0.4 [E]
1,1-Dichloroethylene		6	CA Primary MCL [A]	0.5	7 [C]; 10 [E]
cis-1,2-Dichloroethylene	Evaluate water treatment system design.	6	CA Primary MCL [A]	0.5	70 [C]
trans-1,2-Dichloroethylene		10	CA Primary MCL [A]	0.5	100 [C]
Dichloromethane (Methylene Chloride)	Evaluate remedial action performance.	5	CA/USEPA Primary MCL [A] [C]	0.5	4 [E]
1,2-Dichloropropane	↓	5	CA/USEPA Primary MCL [A] [C]	0.5	0.5 [E]
2,2-Dichloropropane					
1,1-Dichloropropene					
1,3-Dichloropropene		0.5	CA Primary MCL [A]		
cis-1,3-Dichloropropene		0.5	CA Primary MCL [A]	0.5	0.2 [E]
trans-1,3-Dichloropropene		0.5	CA Primary MCL [A]	0.5	0.2 [E]
Ethane					
Ethene					
Ethybenzene		300	CA Primary MCL [A)]	0.5	700 [C]; 300 [E]; 29 [H]
Hexachlorobutadiene					
2-Hexanone					
Isopropylbenzene (Cumene)		770	CA DHS State Action Level [F]	0.5	
Methane					
Methyl acetate					
Methyl ethyl ketone		8,400	Other Taste and Odor [H]	5	
Methyl isobutyl ketone (MIBK)		120	CA DHS State Action Level [F]		1300 [H]
Methylcyclohexane					
Napthalene		170	CA DHS State Action Level [F]		
n-Propylbenzene		260	CA DHS State Action Level [F]		

TABLE A-1
Data Needs and Uses
Quality Assurance Project Plan, Omega OU-2

Compound	Uses/Decisions	Applicable Regulatory Limit (µg/L)	Applicable ARAR [1]	California DHS DLR (µg/L) [2]	Additional Regulatory Limits (µg/L)
Styrene	Exceedances with respect to federal and state drinking water standards, and state action levels.	100	CA/USEPA Primary MCL [A] [C]	0.5	11 [H]
1,1,2,2-Tetrachloroethane		1	CA Primary MCL [A]	0.1	0.5 [E];1.5 [I]
Tetrachloroethylene (PCE)		5	CA/USEPA Primary MCL [A] [C]	0.5	0.06 [E]
Toluene	Evaluate water treatment system design.	150	CA Primary MCL [A]/CA PHG [E]	0.5	42 [H]; 1,000 [C]
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene	Evaluate remedial action performance.	5	CA Primary MCL [A]/CA PHG [E]	0.5	70 [C]
1,1,1-Trichloroethane (1,1,1-TCA)		200	CA/USEPA Primary MCL [A] [C]	0.5	
1,1,2-Trichloroethane		5	CA/USEPA Primary MCL [A] [C]	0.5	5 [I]
Trichloroethylene (TCE)		5	CA/USEPA Primary MCL [A] [C]	0.5	0.8 [E]
Trichlorofluoromethane		150	CA Primary MCL [A]	5	700 [E]
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		1,200	CA Primary MCL [A]	10	4,000 [E]
1,2,4-Trimethylbenzene		330	CA DHS State Action Level [F]		
1,3,5-Trimethylbenzene		330	CA DHS State Action Level [F]		
Vinyl chloride		0.5	CA Primary MCL [A]	0.5	0.05 [E]; 2 [C]
Xylene(s)		1,750	CA Primary MCL [A]	1,800	17 [H]; 10,000 [C]
Additional Volatiles					
Methyl tert-butyl ether (MTBE)	Exceedances with respect to federal and state drinking water standards, and state action levels	`13	CA Secondary MCL [B]	3	13 [E]

TABLE A-1
Data Needs and Uses
Quality Assurance Project Plan, Omega OU-2

Compound	Uses/Decisions	Applicable Regulatory Limit (µg/L)	Applicable ARAR [1]	California DHS DLR (µg/L) [2]	Additional Regulatory Limits (µg/L)
TCL Semivolatile Organic Compounds					
Acenaphthene	Exceedances with respect to federal and state drinking water standards, and state action levels.				
Acenaphthylene					
Acetophenone					
Aniline (Phenylamine) (Aminobenzene)	Evaluate water treatment system design.				
Anthracene	Evaluate remedial action performance.				
Benzaldehyde					
Benzoic Acid (Carboxybenzene)					
Benzo(a)anthracene					
Benzo(a)pyrene		0.2	CA/USEPA Primary MCL [A,) (C]	0.1	0.004 [E]
Benzo(b)fluoranthene					
Benzo(g,h,i)perylene					
Benzo(k)fluoranthene					
Benzyl Alcohol (Phenylmethanol)					
1,1'-Biphenyl					
Bis(2-chloroethoxy)methane					
Bis(2-chloroethyl)ether					
Bis(2-chloroisopropyl)ether					
4-Bromophenyl-phenyl ether					
Butylbenzyl phthalate (BBP)					
Caprolactam					
Carbazole					
4-Chloro-3-methylphenol					
4-Chloroaniline					

TABLE A-1
Data Needs and Uses
Quality Assurance Project Plan, Omega OU-2

Compound	Uses/Decisions	Applicable Regulatory Limit (µg/L)	Applicable ARAR [1]	California DHS DLR (µg/L) [2]	Additional Regulatory Limits (µg/L)
2-Chloronaphthalene	Exceedances with respect to federal and state drinking water standards, and state action levels.				
2-Chlorophenol					
4-Chlorophenyl-phenyl ether					
Chrysene	Evaluate water treatment system design.				
Di(2-ethylhexyl)adipate		400	CA/USEPA Primary MCL [A] [C]	5	200 [E]
Di(2-ethylhexyl)phthalate	Evaluate remedial action performance.	4	CA Primary MCL [A]	3	6 [C]; 12 [E]
Dibenz(a,h)anthracene					
Dibenzofuran (Diphenylene oxide)					
3,3'-Dichlorobenzidine					
2,4-Dichlorophenol					
Diethyl phthalate (DEP)					
Dimethyl phthalate					
2,4-Dimethylphenol		100	CA DHS State Action Level [F]		
4,6-Dinitro-2-methylphenol					
2,4-Dinitrophenol					
2,4-Dinitrotoluene					
2,6-Dinitrotoluene					
Di-n-butylphthalate (Dibutyl phthalate)					
Di-n-octylphthalate(Dioctyl phthalate)					
Endothall		100	CA/USEPA Primary MCL [A,] [C]	45	580 [E]
Fluoranthene (Idryl)					
Fluorene					
Glyphosate		700	CA/USEPA Primary MCL [A] [C]	25	1,000 [E]
Hexachlorobenzene		1	CA/USEPA Primary MCL [A] [C]	0.5	0.03 [E]

TABLE A-1
Data Needs and Uses
Quality Assurance Project Plan, Omega OU-2

Compound	Uses/Decisions	Applicable Regulatory Limit (µg/L)	Applicable ARAR [1]	California DHS DLR (µg/L) [2]	Additional Regulatory Limits (µg/L)
Hexachlorocyclopentadiene	Exceedances with respect to federal and state drinking water standards, and state action levels.	50	CA/USEPA Primary MCL [A] [C]	1	50 [E]
Hexachloroethane					
Indeno(1,2,3-cd)pyrene					
Isophorone	Evaluate water treatment system design.				
2-Methylnaphthalene					
2-Methylphenol	Evaluate remedial action performance.				
4-Methylphenol					
3,4-Methylphenol					
2-Nitroaniline					
3-Nitroaniline					
2-Nitrophenol					
4-Nitroaniline					
4-Nitrophenol					
Pentachlorophenol		1	CA/USEPA Primary MCL [A] [C]	0.2	0.4 [E]
Phenanthrene					
Phenol		4,200	CA DHS State Action Level [F]		
Pyrene					
Pyridine					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
Emergent Compounds	Exceedances with respect to federal and state drinking water standards, and state action levels.				
1,4-Dioxane		3	CA DHS State Action Level [F]		15 [I]
N-Nitrosodimethylamine (NDMA)		0.01	CA DHS State Action Level [F]		0.02 [I]
1,2,3-Trichloropropane (1,2,3-TCP)	Evaluate water treatment system design.	0.005	CA DHS State Action Level [F]		

TABLE A-1
Data Needs and Uses
Quality Assurance Project Plan, Omega OU-2

Compound	Uses/Decisions	Applicable Regulatory Limit (µg/L)	Applicable ARAR (1)	California DHS DLR (µg/L) (2)	Additional Regulatory Limits (µg/L)
Treatment/Discharge Parameters					
Total Organic Parameters	Evaluate groundwater treatment alternatives.				
Total Organic Carbon					
Biological Oxygen Demand	Evaluate treated groundwater discharge alternatives.				
Chemical Oxygen Demand					

Notes:

(1) ARARs from June 2003 California EPA Compilation of Water Quality Goals and Updates through September 2003.

(2) California Department of Health Services required Detection Limit for Purposes of Reporting (DLR).

(3) Calculated ARAR based on hardness = 120 mg/L as $CaCO_3$.

(A) California Department of Health Services Primary MCL for Drinking Water.

(B) California Department of Health Services Secondary MCL for Drinking Water.

(C) USEPA Primary MCL for Drinking Water.

(D) USEPA Secondary MCL for Drinking Water.

(E) California Office of Environmental Health Hazard Assessment Public Health Goal for Drinking Water.

(F) California Department of Health Services State Action Level for Toxicity.

(G) California Department of Health Services State Action Level for Taste and Odor.

(H) Other Taste and Odor Thresholds.

(I) California Proposition 65 Regulatory Level for Drinking Water.

TABLE A-1
Data Needs and Uses
Quality Assurance Project Plan, Omega OU-2

Compound	Uses/Decisions	Applicable Limit (μg/L)	Applicable ARAR [1]	California DHS DLR (μg/L) [3]	Additional Regulatory Limits (μg/L)
Emergent Compounds					
Chromium (VI)	Exceedances with respect to federal and state drinking water standards, and state action levels.	11 (0.2) [4]	California Toxics Rule for Aquatic Life Protection [H]	1	
Perchlorate		4	CA DHS State Action Level [F]	4 (preliminary)	
	Evaluate water treatment system design.				
TAL Inorganics					
Aluminum	Exceedances with respect to federal and state drinking water standards, and state action levels.	50	USEPA Secondary MCL [D][11]	50	200 [B]; 600 [E]
Antimony		6	CA/USEPA Primary MCL [A] [C]	6	20 [E]
Arsenic		10	USEPA Primary MCL [C]	2	50 [A]; 0.004 [E]
Barium	Evaluate groundwater treatment alternatives and treated groundwater discharge options.	1,000	CA Primary MCL [A]	100	2,000 [C] [E]
Beryllium		4	CA/USEPA Primary MCL [A] [C]	1	1 [E]
Cadmium		5	CA/USEPA Primary MCL [A] [C]	1	0.07 [E]; 2.6 [3] [H]
Calcium					
Chromium (total)		50	CA Primary MCL [A]	10	100 [C]
Cobalt					
Copper		11 [2]	California Toxics Rule for Aquatic Life Protection [H]	50	170 [E] ; 1300 [F]
Iron		300	CA/USEPA Secondary MCL [B] [D]	100	
Lead		3.1	California Toxics Rule for Aquatic Life Protection [H]	5	15 [F]; 2 [E]; 0.25 [G]
Magnesium					
Manganese		50	CA/USEPA Secondary MCL [B] [D]	20	
Mercury		2	CA/USEPA Primary MCL [A] [C]	1	1.2 [E]
Molybdenum					
Nickel		61	California Toxics Rule for Aquatic Life Protection [H]	10	100 [A];12 [E]
Potassium					
Selenium		5	California Toxics Rule for Aquatic Life Protection [H]	5	50 [A] [C]

TABLE A-1
Data Needs and Uses
Quality Assurance Project Plan, Omega OU-2

Compound	Uses/Decisions	Applicable Limit (µg/L)	Applicable ARAR [1]	California DHS DLR (µg/L) [3]	Additional Regulatory Limits (µg/L)
Silver	Exceedances with respect to federal and state drinking water standards, and state action levels.	4.7 [2]	California Toxics Rule for Aquatic Life Protection [I]	10	100 [B] [D]
Sodium					
Thallium		2.0	CA/USEPA Primary MCL [A] [C]	1	0.1 [E]
Vanadium	Evaluate groundwater treatment alternatives and treated groundwater discharge options.	50	CA DHS State Action Level [F]	3 (preliminary)	
Zinc		140 [2]	California Toxics Rule for Aquatic Life Protection [H]	50	5,000 [B] [D]
Cyanide		5.2	California Toxics Rule for Aquatic Life Protection [H]	100	200 [C];150 [E]
Additional Inorganics					
Boron	Evaluate groundwater treatment alternatives and treated groundwater discharge options	1,000	CA DHS State Action Level [F]		
Silicon					
Treatment/Discharge Parameters					
pH	Evaluate groundwater treatment alternatives and treated groundwater discharge options	6.5 to 8.5	USEPA Secondary MCL [D]		
Alkalinity					
Ammonia		500	Other Tastes and Odors [J]		
Bicarbonate	Exceedances with respect to federal and state drinking water standards, and state action levels				
Bromide					
Chloride		250,000	CA/USEPA Secondary MCL [B,D]		
Fluoride	↓	1,000	CA PHG [E]	100	2,000 [A] [D]
Nitrate (as N)		10,000	USEPA Primary MCL [C]		10,000 [E]
Nitrite (as N)		1,000	CA/USEPA Primary MCL [A] [C]	400	1,000 [E]
Phosphorus (orthophosphate, total phosphorus)					
Sulfate		250,000	CA Secondary MCL [B]	500	250,000 [D]

TABLE A-1
Data Needs and Uses
Quality Assurance Project Plan, Omega OU-2

Compound	Uses/Decisions	Applicable Limit (μg/L)	Applicable ARAR [1]	California DHS DLR (μg/L) [3]	Additional Regulatory Limits (μg/L)
Total dissolved solids (TDS)	Evaluate groundwater treatment alternatives and treated groundwater discharge options Exceedances with respect to federal and state drinking water standards, and state action levels	250,000	CA/USEPA Secondary MCL [B,D]		

NOTES:

(1) ARARs from June 2003 California EPA Compilation of Water Quality Goals and Updates through September 2003.

(2) Calculated ARAR based on hardness = 120 mg/L as $CaCO_3$.

(3) California Department of Health Services required Detection Limit for Purposes of Reporting (DLR).

(4) 0.2 µg/L detection level is needed for comparability to other databases in the region per previous DHS limit.

(A) California Department of Health Services Primary MCL for Drinking Water.

(B) California Department of Health Services Secondary MCL for Drinking Water.

(C) USEPA Primary MCL for Drinking Water.

(D) USEPA Secondary MCL for Drinking Water.

(E) California Office of Environmental Health Hazard Assessment Public Health Goal for Drinking Water.

(F) California Department of Health Services State Action Level for Toxicity.

(G) California Proposition 65 Regulatory Level for Drinking Water.

(H) California Toxics Rule for Freshwater Aquatic Life Protection - Continuous (4-day average) Concentration.

(I) California Toxics Rule for Freshwater Aquatic Life Protection - Maximum (1-hr average) Concentration.

(J) Other Taste and Odor Thresholds.

Appendix C
Data Quality Assessment

APPENDIX C

Data Quality Assessment

This Data Quality Assessment (DQA) is for groundwater samples collected and analyzed from 2012 through 2014 for Operable Unit (OU) 2 of the Omega Chemical Corporation Superfund Site (Omega Site). The DQA summarizes the results of the quality assurance/quality control (QA/QC) activities prescribed in the two Quality Assurance Project Plans (QAPPs) under which these samples were collected and analyzed, and provides a data usability assessment.

The groundwater samples were collected and analyzed in support of the Omega Chemical groundwater monitoring program. Samples collected and analyzed in 2012 and 2013 were evaluated under an initial QAPP (CH2M HILL, 2004b, 2004d), and the Sampling and Analysis Plan (SAP) Addendum 1 (CH2M HILL, 2006a, 2006b). Samples collected in 2014 were evaluated under a second QAPP (CH2M HILL, 2014).

The groundwater samples were collected over five sampling events as follows:

Monitoring Event	Volatile Organic Compounds (VOCs)	1,4-Dioxane	Hexavalent Chromium	Chromium	Comment
1Q2012	X	X	-	-	
3Q2012	X	X	-	-	
1Q2013	X	X	-	-	Data are of unknown quality and not reported.
3Q2013	X	X	X	-	
4Q2014	X	X	X	X	

The samples were analyzed for VOCs (including methyl tertiary butyl ether [MTBE]) and 1,4-dioxane. In addition, the 3Q2013 and 4Q2014 samples were analyzed for hexavalent chromium. The 4Q2014 samples were also analyzed for chromium. The U.S. Environmental Protection Agency (EPA) has reason to question analytical laboratory results for the 1Q2013 samples and is not able to say that these data are of known quality. These data are therefore not included in this report.

C.1 Analytical Data

A total of 235 groundwater samples, 24 groundwater field duplicate samples, and 6 split samples were collected from February 22, 2012, through October 31, 2014. Field duplicate and split sample evaluations are described in Sections 3.2.4 and 3.2.5 of the main report, respectively. The samples were analyzed as follows:

- VOCs and 1,4-dioxane: EPA Contract Laboratory Program (CLP) laboratories
- Hexavalent chromium: CH2M HILL-subcontracted laboratory (American Environmental Testing Laboratory, Inc. [AETL]) Burbank, California
- Chromium: EPA Region 9 laboratory, Richmond, California

The CLP laboratories included ALS Laboratory Group, Salt Lake City, Utah; Liberty Analytical Corporation, Cary, North Carolina; and Spectrum Analytical, Inc. The laboratories divided the samples into 48 sample delivery groups (SDGs). A total of six methods were used to analyze the environmental samples.

Samples were collected and shipped by overnight carrier to the laboratories for analysis. Selected samples were analyzed for one or more of the following analytes/methods:

- VOCs by Method SOM01.2
- 1,2-Dibromo-3-chloropropane and 1,2-dibromoethane by Method SOM01.2 Volatile selected ion monitoring (SIM)
- 1,4-Dioxane by Method SOM01.2 Semivolatile SIM
- Hexavalent chromium by Method E218.6
- Chromium by Method E200.7/200.8

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, along with regional laboratory and CLP standard operating procedures, have been followed as the project analytical requirements by the laboratories.

The analytical laboratories have 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 work to ensure that laboratory-specific limits complied with the QAPP specifications.

C.1.1 Data Validation

For this project, 100 percent of the chemical data were validated using the two QAPPs as a guide for data quality evaluation. Table C-1 lists the SDGs, methods, validation levels, and validators. Tier 1B, Tier 2, and Tier 3 data validation reports are available from EPA.

CLP laboratory data were reviewed outside the laboratories by the EPA Quality Assurance Office (QAO). All of the CLP data were initially autovalidated at level Tier 1B. Specific packages were identified for Tier 2 validation to confirm the Tier 1B validation findings. Packages were selected for Tier 3 validation according to QAPP requirements.

CH2M HILL subcontract laboratory data were reviewed outside the laboratories by the EPA QAO or CH2M HILL project chemist.

EPA Region 9 laboratory data were validated by CH2M HILL project chemists.

Data flags were assigned according to the QC acceptance limits defined in the QAPP. The data validation flags for each SDG are summarized in each data validation report.

The validation flag applied to each result, the reason, and the validation stage are described in Tables C-2 and C-3.

The validation flags are those listed and defined below:

J = Analyte was detected below the quantitation limit; the reported value is estimated.

J+ = Analyte was detected below the quantitation limit and likely to be high bias; the reported value is estimated.

J- = Analyte was detected below the quantitation limit and likely to be low bias; the reported value is estimated.

UJ = Analyte was not detected; however, the quantitation limit was estimated because of discrepancies in meeting certain analyte-specific QC criteria.

R = Data were rejected because of deficiencies in meeting QC criteria.

U = Analyte was analyzed for but not detected, or was qualified as not detected because of blank contamination.

C.1.2 Findings

C.1.2.1 Low-level Detects

Sample results between the MDL and the reporting limit (RL) have been flagged “J” and are represented in Table C-2. All data flagged for this low-level imprecision were the result of the sample concentrations and not laboratory QC deficiencies. The data user should consider these qualified results as estimates when making project decisions.

C.1.3 Overall Flagging Summary

The frequency of field and laboratory QC samples and the associated control criteria are specified in the QAPP. These control criteria were used to evaluate the laboratory data. In the following method-specific discussions, only the criteria exceedances that impact data qualification are discussed. Any laboratory flags that were applied to the data that were not consistent with the data flags listed in the QAPP were replaced with the appropriate data flag (for example, “J”, “U”, or “UJ”).

C.1.3.1 Method SOM01.2 TVOL (Volatiles)

Calibration

Initial calibration or continuing calibration criteria were exceeded for 149 sample results. Low relative instrument response affected 83 results. These nondetected results were qualified “R” and rejected for project use. Continuing calibration verification exceedances affected 66 results. A total of 24 detected results associated with these calibration exceedances were qualified as estimated “J” and 42 nondetected results were qualified as “UJ”. The affected samples are listed in Table C-3.

Blanks

Field, laboratory, and storage blank contamination was observed. A total of 44 detected results associated with the contaminated blanks were qualified “U”. The affected samples are listed in Table C-3.

Surrogate

Surrogate recoveries were observed that exceeded both the upper control limit (UCL) and lower control limit (LCL) affecting 326 results. A total of 279 detected results associated with these surrogate recovery exceedances were qualified as estimated “J” and 47 nondetected results were qualified as “UJ”. The affected samples are listed in Table C-3.

C.1.3.2 Method SOM01.2 SIMVOL (1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane)

Surrogate

Surrogate recoveries less than the acceptance limits affected two results. These nondetected results were qualified “UJ”. The affected samples are listed in Table C-3.

Holding Time

The analytical holding time was exceeded for two samples and the nondetected results were qualified as “UJ”. The affected samples are listed in Table C-3.

C.1.3.3 Method SOM01.2 SIMSVOL (1,4-Dioxane)

Blanks

Field blank contamination was observed. Two detected results associated with the field blanks were less than the RL and flagged as “U” at the RL. The affected samples are listed in Table C-3.

Holding Time

Extraction holding time was exceeded for two samples and the nondetected results were qualified as “UJ”. The affected samples are listed in Table C-3.

C.1.3.4 Method E218.6 (Hexavalent Chromium)

General

Tier 3 data validation by EPA Region 9’s Environmental Services Assistance Team (ESAT) contractor (ICF International) revealed laboratory QC deficiencies within several SDGs provided by AETL. CH2M HILL chemists reviewed all hexavalent chromium SDGs and found a similar pattern of deficient hexavalent chromium data in all fourth quarter 2014 SDGs generated by AETL.

Upon request, the laboratory reprocessed the data and corrected the peak integrations. The lowest two calibration points were removed from the low concentration calibration curve, and the reported MDL and practical quantitation limit (PQL) were revised to 0.2 microgram per liter (µg/L) and 0.5 µg/L.

The revised data were validated by ESAT; data were still substandard based on the validation of the reprocessed data. The revised quantitation limit was changed to 0.5 µg/L for samples analyzed on the low concentration curve, and 1 µg/L for samples analyzed on the high concentration curve.

CH2M HILL chemists reviewed all hexavalent chromium data generated by AETL to determine if other data and events were affected. Although the other packages were not as deficient, there were peaks observed within the laboratory blanks that were within the hexavalent chromium retention time window that were not reported. Upon request, these SDGs were reprocessed. The reprocessed data were reported with elevated MDLs (0.1 µg/L) and RLs (0.25 µg/L); any detections within the laboratory blanks were below this revised MDL.

The overall impact to the data is that the RL for nondetect results is greater than the project-required RL of 0.2 µg/L, and a majority of the detections have been qualified as estimates for QC deficiencies.

Calibration

Initial calibration or continuing calibration criteria were exceeded for 40 sample results. Detected results associated with these calibration exceedances were qualified as estimated “J”, “J+”, or “J-”. Where hexavalent chromium was not detected, the results were qualified as “UJ”. The affected samples are listed in Table C-3.

Laboratory Control Sample

Laboratory control sample (LCS) recovery exceedances affected 28 sample results. LCS recoveries less than the LCL affected eight sample results. Detected results associated with recoveries less than the LCL were flagged as “J-” and nondetected results were flagged as “UJ”. LCS recoveries greater than the UCL affected 20 sample results. Detected results associated with recoveries greater than the UCL were flagged as “J+”. The affected samples are listed in Table C-3.

Matrix

Matrix spike (MS) or matrix spike duplicate (MSD) LCL recovery criteria were exceeded for 35 sample results. Detected sample results were “J-” or “J” flagged, and nondetected results were “UJ” flagged. For one sample result, the recovery of the MS/MSD was less than 10 percent; this nondetected result was “R” flagged. The affected samples are listed in Table C-3.

C.1.4 Overall Assessment

Data quality objectives (DQOs) are prescribed in the QAPP in terms of precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters. The following is a description of the assessment for each parameter.

Precision measurement data include laboratory and field duplicate data expressed as relative percent deviation (RPD). No data were qualified for laboratory duplicate or field imprecision.

Accuracy measurement data include LCS and MS recovery data. Accuracy recovery exceedances affected less than 0.4 percent of the data.

Representativeness is a measure of how closely the measured results reflect the actual concentration or distribution of the chemical compounds in the sampled media. Representativeness is assessed in both qualitative and quantitative terms. The main report discusses the qualitative aspects of representativeness in terms of design of the field sampling plan, sampling techniques, sample handling protocols, and associated documentation. Quantitative measures of representativeness include field blank measurements and laboratory blank measurements to identify if contamination was introduced through field or laboratory operations. Field duplicate measurements are used to establish variability. Laboratory and field blank detections affected less than 0.4 percent of the data. No field duplicate variability resulted in data qualification.

Comparability expresses the confidence with which one data set 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 QAPPs
- 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

All comparability factors have been met for this set of data.

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 completeness is greater than 99 percent and the completeness goal has been met.

C.2 Data Management

Backup information for the data evaluation and validation findings includes the following. Information not included in this report is generally available from EPA upon request.

- CLP and Region 9 laboratory hard copy packages, assembled in SDG units, which include all QC data
- Reports generated by laboratories other than the CLP or Region 9
- 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
- Laboratory bench records and sample custody logs generated by the laboratory
- Project electronic databases, which include validation flags

Appendix C Tables

TABLE C-1

Omega Chemical 2012-2014 Groundwater Monitoring Data Validation

Omega Chemical Superfund Site

Project	Analysis	Method	LabCode	SDG	Validation Level	Validator
2012_QTR1GW	1,4 Dioxane	SOM01.2 SIMSVOL	DATAC	Y88B4	Tier 1B	EPA
2012_QTR1GW	VOCs	SOM01.2 SIMVOL	DATAC	Y88B4	Tier 1B	EPA
2012_QTR1GW	VOCs	SOM01.2 TVOL	DATAC	Y88B4	Tier 1B	EPA
2012_QTR1GW	1,4 Dioxane	SOM01.2 SIMSVOL	DATAC	Y88B9	Tier 1B	EPA
2012_QTR1GW	VOCs	SOM01.2 SIMVOL	DATAC	Y88B9	Tier 1B	EPA
2012_QTR1GW	VOCs	SOM01.2 TVOL	DATAC	Y88B9	Tier 1B	EPA
2012_QTR1GW	1,4 Dioxane	SOM01.2 SIMSVOL	DATAC	Y88D6	Tier 1B	EPA
2012_QTR1GW	VOCs	SOM01.2 SIMVOL	DATAC	Y88D6	Tier 1B	EPA
2012_QTR1GW	VOCs	SOM01.2 TVOL	DATAC	Y88D6	Tier 1B	EPA
2012_QTR1GW	1,4 Dioxane	SOM01.2 SIMSVOL	DATAC	Y88F1	Tier 1B	EPA
2012_QTR1GW	VOCs	SOM01.2 SIMVOL	DATAC	Y88F1	Tier 1B	EPA
2012_QTR1GW	VOCs	SOM01.2 TVOL	DATAC	Y88F1	Tier 1B	EPA
2012_QTR1GW	1,4 Dioxane	SOM01.2 SIMSVOL	DATAC	Y88H0	Tier 1B	EPA
2012_QTR1GW	VOCs	SOM01.2 SIMVOL	DATAC	Y88H0	Tier 1B	EPA
2012_QTR1GW	VOCs	SOM01.2 TVOL	DATAC	Y88H0	Tier 1B	EPA
2012_QTR1GW	1,4 Dioxane	SOM01.2 SIMSVOL	DATAC	Y88K0	Tier 1B	EPA
2012_QTR1GW	VOCs	SOM01.2 SIMVOL	DATAC	Y88K0	Tier 1B	EPA
2012_QTR1GW	VOCs	SOM01.2 TVOL	DATAC	Y88K0	Tier 1B	EPA
2012_QTR3GW	1,4 Dioxane	SOM01.2 SIMSVOL	MITKEM	Y8HG0	Tier 1B	EPA
2012_QTR3GW	VOCs	SOM01.2 SIMVOL	MITKEM	Y8HG0	Tier 1B	EPA
2012_QTR3GW	VOCs	SOM01.2 TVOL	MITKEM	Y8HG0	Tier 1B	EPA
2012_QTR3GW	1,4 Dioxane	SOM01.2 SIMSVOL	MITKEM	Y8HJ0	Tier 1B	EPA
2012_QTR3GW	VOCs	SOM01.2 SIMVOL	MITKEM	Y8HJ0	Tier 1B	EPA
2012_QTR3GW	VOCs	SOM01.2 TVOL	MITKEM	Y8HJ0	Tier 1B	EPA
2012_QTR3GW	1,4 Dioxane	SOM01.2 SIMSVOL	MITKEM	Y8HK0	Tier 1B	EPA
2012_QTR3GW	VOCs	SOM01.2 SIMVOL	MITKEM	Y8HK0	Tier 1B	EPA
2012_QTR3GW	VOCs	SOM01.2 TVOL	MITKEM	Y8HK0	Tier 1B	EPA
2012_QTR3GW	1,4 Dioxane	SOM01.2 SIMSVOL	MITKEM	Y8HM0	Tier 1B	EPA
2012_QTR3GW	VOCs	SOM01.2 SIMVOL	MITKEM	Y8HM0	Tier 1B	EPA
2012_QTR3GW	VOCs	SOM01.2 TVOL	MITKEM	Y8HM0	Tier 1B	EPA
2012_QTR3GW	1,4 Dioxane	SOM01.2 SIMSVOL	MITKEM	Y8HP1	Tier 1B	EPA
2012_QTR3GW	VOCs	SOM01.2 SIMVOL	MITKEM	Y8HP1	Tier 1B	EPA
2012_QTR3GW	VOCs	SOM01.2 TVOL	MITKEM	Y8HP1	Tier 1B	EPA

TABLE C-1

Omega Chemical 2012-2014 Groundwater Monitoring Data Validation

Omega Chemical Superfund Site

Project	Analysis	Method	LabCode	SDG	Validation Level	Validator
2013_QTR3GW	Hexavalent Chromium	E218.6	AETL	70306	Tier 3	CH2M
2013_QTR3GW	Hexavalent Chromium	E218.6	AETL	70319	Tier 2	CH2M
2013_QTR3GW	Hexavalent Chromium	E218.6	AETL	70334	Tier 2	CH2M
2013_QTR3GW	Hexavalent Chromium	E218.6	AETL	70348	Tier 2	CH2M
2013_QTR3GW	Hexavalent Chromium	E218.6	AETL	70362	Tier 2	CH2M
2013_QTR3GW	Hexavalent Chromium	E218.6	AETL	70371	Tier 2	CH2M
2013_QTR3GW	Hexavalent Chromium	E218.6	AETL	70391	Tier 2	CH2M
2013_QTR3GW	Hexavalent Chromium	E218.6	AETL	70402	Tier 2	CH2M
2013_QTR3GW	Hexavalent Chromium	E218.6	AETL	70412	Tier 2	CH2M
2013_QTR3GW	Hexavalent Chromium	E218.6	AETL	70425	Tier 3	CH2M
2013_QTR3GW	Hexavalent Chromium	E218.6	AETL	70434	Tier 2	CH2M
2013_QTR3GW	Hexavalent Chromium	E218.6	AETL	70451	Tier 2	CH2M
2013_QTR3GW	Hexavalent Chromium	E218.6	AETL	70462	Tier 2	CH2M
2013_QTR3GW	Hexavalent Chromium	E218.6	AETL	70488	Tier 2	CH2M
2013_QTR3GW	1,4 Dioxane	SOM01.2 SIMSVOL	DATAC	Y8YY5	Tier 1B	EPA
2013_QTR3GW	VOCs	SOM01.2 SIMVOL	DATAC	Y8YY5	Tier 1B	EPA
2013_QTR3GW	VOCs	SOM01.2 TVOL	DATAC	Y8YY5	Tier 1B	EPA
2013_QTR3GW	1,4 Dioxane	SOM01.2 SIMSVOL	DATAC	Y8Z03	Tier 1B	EPA
2013_QTR3GW	VOCs	SOM01.2 SIMVOL	DATAC	Y8Z03	Tier 1B	EPA
2013_QTR3GW	VOCs	SOM01.2 TVOL	DATAC	Y8Z03	Tier 1B	EPA
2013_QTR3GW	1,4 Dioxane	SOM01.2 SIMSVOL	DATAC	Y8Z23	Tier 1B	EPA
2013_QTR3GW	VOCs	SOM01.2 SIMVOL	DATAC	Y8Z23	Tier 1B	EPA
2013_QTR3GW	VOCs	SOM01.2 TVOL	DATAC	Y8Z23	Tier 1B	EPA
2013_QTR3GW	1,4 Dioxane	SOM01.2 SIMSVOL	DATAC	Y8Z43	Tier 3	EPA
2013_QTR3GW	VOCs	SOM01.2 SIMVOL	DATAC	Y8Z43	Tier 3	EPA
2013_QTR3GW	VOCs	SOM01.2 TVOL	DATAC	Y8Z43	Tier 3	EPA
2013_QTR3GW	1,4 Dioxane	SOM01.2 SIMSVOL	DATAC	Y8Z63	Tier 1B	EPA
2013_QTR3GW	VOCs	SOM01.2 SIMVOL	DATAC	Y8Z63	Tier 1B	EPA
2013_QTR3GW	VOCs	SOM01.2 TVOL	DATAC	Y8Z63	Tier 1B	EPA
2013_QTR3GW	1,4 Dioxane	SOM01.2 SIMSVOL	KAP	Y91R0	Tier 3	EPA
2013_QTR3GW	VOCs	SOM01.2 SIMVOL	KAP	Y91R0	Tier 3	EPA
2013_QTR3GW	VOCs	SOM01.2 TVOL	KAP	Y91R0	Tier 3	EPA
2014_QTR3GW	Hexavalent Chromium	E218.6	AETL	74714	Tier 3	EPA

TABLE C-1

Omega Chemical 2012-2014 Groundwater Monitoring Data Validation

Omega Chemical Superfund Site

Project	Analysis	Method	LabCode	SDG	Validation Level	Validator
2014_QTR3GW	Hexavalent Chromium	E218.6	AETL	74730	Tier 3	EPA
2014_QTR3GW	Hexavalent Chromium	E218.6	AETL	74751	Tier 3	EPA
2014_QTR3GW	Hexavalent Chromium	E218.6	AETL	74772	Tier 3	EPA
2014_QTR3GW	Hexavalent Chromium	E218.6	AETL	74793	Tier 3	EPA
2014_QTR3GW	Hexavalent Chromium	E218.6	AETL	74824	Tier 3	EPA
2014_QTR3GW	Hexavalent Chromium	E218.6	AETL	74849	Tier 3	EPA
2014_QTR3GW	Hexavalent Chromium	E218.6	AETL	74881	Tier 3	EPA
2014_QTR3GW	Hexavalent Chromium	E218.6	AETL	74904	Tier 3	EPA
2014_QTR3GW	Hexavalent Chromium	E218.6	AETL	74925	Tier 3	EPA
2014_QTR3GW	Chromium	E200.8	EPAR9	14288B	Tier 2	CH2M
2014_QTR3GW	Chromium	E200.8	EPAR9	14291A	Tier 2	CH2M
2014_QTR3GW	Chromium	E200.8	EPAR9	14296B	Tier 2	CH2M
2014_QTR3GW	Chromium	E200.8	EPAR9	14305A	Tier 2	CH2M
2014_QTR3GW	1,4 Dioxane	BNA_SIM	LIBRTY	Y9LP7	Tier 1B	EPA
2014_QTR3GW	VOCs	VOA_SIM	LIBRTY	Y9LP7	Tier 2	EPA
2014_QTR3GW	VOCs	VOA_Trace	LIBRTY	Y9LP7	Tier 2	EPA
2014_QTR3GW	1,4 Dioxane	BNA_SIM	LIBRTY	Y9LR7	Tier 1B	EPA
2014_QTR3GW	VOCs	VOA_SIM	LIBRTY	Y9LR7	Tier 3	EPA
2014_QTR3GW	VOCs	VOA_Trace	LIBRTY	Y9LR7	Tier 3	EPA
2014_QTR3GW	1,4 Dioxane	BNA_SIM	LIBRTY	Y9LT7	Tier 1	EPA
2014_QTR3GW	VOCs	VOA_SIM	LIBRTY	Y9LT7	Tier 3	EPA
2014_QTR3GW	VOCs	VOA_Trace	LIBRTY	Y9LT7	Tier 3	EPA
2014_QTR3GW	1,4 Dioxane	BNA_SIM	LIBRTY	Y9LW4	Tier 1B	EPA
2014_QTR3GW	VOCs	VOA_SIM	LIBRTY	Y9LW4	Tier 3	EPA
2014_QTR3GW	VOCs	VOA_Trace	LIBRTY	Y9LW4	Tier 3	EPA

TABLE C-2

Omega Chemical Groundwater Monitoring Detected Results between the Method Detection Limit and the Reporting Limit

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit	MDL	RL
SOM01.2 SIMSVOL	Y9LP8	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.24	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y9LP9	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.22	µg/L	0.14	0.49
SOM01.2 SIMSVOL	Y9LQ5	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.39	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y9LQ6	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.21	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y9LQ7	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.24	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y9LR1	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.15	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y9LT0	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.26	µg/L	0.13	0.46
SOM01.2 SIMSVOL	Y9LT3	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.27	µg/L	0.13	0.47
SOM01.2 SIMSVOL	Y9LT7	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.16	µg/L	0.13	0.45
SOM01.2 SIMSVOL	Y9LT8	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.2	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y9LX7	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.27	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y9LX8	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.15	µg/L	0.13	0.48
E200.7	Y8HP6	Chromium	J	>MDL<RL	6	µg/L	5	10
E200.7	Y8HP6	Selenium	J	>MDL<RL	12	µg/L	10	20
E200.7	Y8HP6	Vanadium	J	>MDL<RL	2.2	µg/L	2	4
E200.7	Y8HP6	Zinc	J	>MDL<RL	8	µg/L	5	10
E200.8	Y9LW3	Chromium	J	>MDL<RL	0.9	µg/L	0.5	1
E200.8	Y9LW6	Chromium	J	>MDL<RL	0.54	µg/L	0.5	1
E218.6	Y8YY5	Chromium(VI)	J	>MDL<RL	0.162	µg/L	0.1	0.25
E218.6	Y8Z30	Chromium(VI)	J	>MDL<RL	0.124	µg/L	0.1	0.25
E300.0	Y91R1	Nitrate (as Nitrogen)	J	>MDL<RL	0.06	mg/L	0.05	0.1
E300.0	Y91R3	Nitrate (as Nitrogen)	J	>MDL<RL	0.07	mg/L	0.05	0.1
SOM01.2 SIMSVOL	Y88B6	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.17	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y88B7	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.17	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y88C1	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.12	µg/L	0.12	0.5
SOM01.2 SIMSVOL	Y88D6	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.62	µg/L	0.02	0.66
SOM01.2 SIMSVOL	Y88E0	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.51	µg/L	0.14	0.65
SOM01.2 SIMSVOL	Y88E1	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.48	µg/L	0.14	0.67
SOM01.2 SIMSVOL	Y88E4	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.26	µg/L	0.14	0.66
SOM01.2 SIMSVOL	Y88E9	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.44	µg/L	0.14	0.66
SOM01.2 SIMSVOL	Y88F5	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.38	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y88G2	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.25	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y88G3	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.24	µg/L	0.14	0.5

TABLE C-2

Omega Chemical Groundwater Monitoring Detected Results between the Method Detection Limit and the Reporting Limit

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit	MDL	RL
SOM01.2 SIMSVOL	Y88G4	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.076	µg/L	0.02	0.5
SOM01.2 SIMSVOL	Y88G5	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.079	µg/L	0.02	0.5
SOM01.2 SIMSVOL	Y88G8	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.26	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y88H5	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.062	µg/L	0.02	0.5
SOM01.2 SIMSVOL	Y88H7	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.088	µg/L	0.02	0.5
SOM01.2 SIMSVOL	Y88H8	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.067	µg/L	0.02	0.5
SOM01.2 SIMSVOL	Y88J6	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.092	µg/L	0.02	0.57
SOM01.2 SIMSVOL	Y8YY5	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.049	µg/L	0.02	0.5
SOM01.2 SIMSVOL	Y8YY6	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.19	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y8YY7	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.068	µg/L	0.02	0.5
SOM01.2 SIMSVOL	Y8YZ4	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.21	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y8YZ6	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.13	µg/L	0.13	0.5
SOM01.2 SIMSVOL	Y8Z01	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.25	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y8Z04	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.08	µg/L	0.02	0.5
SOM01.2 SIMSVOL	Y8Z05	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.089	µg/L	0.02	0.5
SOM01.2 SIMSVOL	Y8Z13	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.17	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y8Z16	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.11	µg/L	0.11	0.5
SOM01.2 SIMSVOL	Y8Z24	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.14	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y8Z25	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.35	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y8Z28	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.053	µg/L	0.02	0.5
SOM01.2 SIMSVOL	Y8Z29	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.072	µg/L	0.02	0.5
SOM01.2 SIMSVOL	Y8Z34	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.046	µg/L	0.02	0.5
SOM01.2 SIMSVOL	Y8Z57	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.43	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y8Z58	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.48	µg/L	0.14	0.5
SOM01.2 SIMSVOL	Y8Z59	1,4-Dioxane (p-dioxane)	J	>MDL<RL	0.13	µg/L	0.13	0.5
SOM01.2 TVOL	Y88B4	1,1-Dichloroethane	J	>MDL<RL	1.2	µg/L	0.079	2
SOM01.2 TVOL	Y88B4	cis-1,2-Dichloroethene	J	>MDL<RL	0.73	µg/L	0.1	2
SOM01.2 TVOL	Y88B6	Chloroform	J	>MDL<RL	0.41	µg/L	0.082	0.5
SOM01.2 TVOL	Y88B6	Methyl tert-butyl ether	J	>MDL<RL	0.25	µg/L	0.11	0.5
SOM01.2 TVOL	Y88B7	Chloroform	J	>MDL<RL	0.43	µg/L	0.082	0.5
SOM01.2 TVOL	Y88B7	Methyl tert-butyl ether	J	>MDL<RL	0.24	µg/L	0.11	0.5
SOM01.2 TVOL	Y88C0	Tetrachloroethene	J	>MDL<RL	0.46	µg/L	0.076	0.5
SOM01.2 TVOL	Y88C0	Trichloroethene	J	>MDL<RL	0.34	µg/L	0.067	0.5

TABLE C-2

Omega Chemical Groundwater Monitoring Detected Results between the Method Detection Limit and the Reporting Limit

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit	MDL	RL
SOM01.2 TVOL	Y88C1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	>MDL<RL	0.29	µg/L	0.08	0.5
SOM01.2 TVOL	Y88C1	Carbon tetrachloride	J	>MDL<RL	0.13	µg/L	0.061	0.5
SOM01.2 TVOL	Y88C1	Trichloroethene	J	>MDL<RL	0.27	µg/L	0.067	0.5
SOM01.2 TVOL	Y88C2	Benzene	J	>MDL<RL	0.22	µg/L	0.076	0.5
SOM01.2 TVOL	Y88C2	Carbon disulfide	J	>MDL<RL	0.35	µg/L	0.14	0.5
SOM01.2 TVOL	Y88C3	Tetrachloroethene	J	>MDL<RL	0.29	µg/L	0.076	0.5
SOM01.2 TVOL	Y88C3	Trichloroethene	J	>MDL<RL	0.098	µg/L	0.067	0.5
SOM01.2 TVOL	Y88C4	1,1-Dichloroethane	J	>MDL<RL	0.25	µg/L	0.079	0.5
SOM01.2 TVOL	Y88C4	Carbon tetrachloride	J	>MDL<RL	0.23	µg/L	0.061	0.5
SOM01.2 TVOL	Y88C4	Methylene chloride	J	>MDL<RL	0.18	µg/L	0.025	0.5
SOM01.2 TVOL	Y88C5	1,1,1-Trichloroethane	J	>MDL<RL	0.11	µg/L	0.062	0.5
SOM01.2 TVOL	Y88C5	Carbon tetrachloride	J	>MDL<RL	0.25	µg/L	0.061	0.5
SOM01.2 TVOL	Y88C5	Methyl tert-butyl ether	J	>MDL<RL	0.34	µg/L	0.11	0.5
SOM01.2 TVOL	Y88C6	1,1,1-Trichloroethane	J	>MDL<RL	0.44	µg/L	0.062	1
SOM01.2 TVOL	Y88C9	1,2-Dichloroethane	J	>MDL<RL	0.27	µg/L	0.13	0.5
SOM01.2 TVOL	Y88D0	1,2-Dichloroethane	J	>MDL<RL	0.25	µg/L	0.13	0.5
SOM01.2 TVOL	Y88D2	1,1,1-Trichloroethane	J	>MDL<RL	0.37	µg/L	0.062	1
SOM01.2 TVOL	Y88D3	1,1,1-Trichloroethane	J	>MDL<RL	0.17	µg/L	0.062	0.5
SOM01.2 TVOL	Y88D3	1,1-Dichloroethene	J	>MDL<RL	0.33	µg/L	0.075	0.5
SOM01.2 TVOL	Y88D4	1,1-Dichloroethene	J	>MDL<RL	0.36	µg/L	0.075	0.5
SOM01.2 TVOL	Y88D6	1,1-Dichloroethane	J	>MDL<RL	0.34	µg/L	0.079	0.5
SOM01.2 TVOL	Y88D9	Tetrachloroethene	J	>MDL<RL	0.35	µg/L	0.076	0.5
SOM01.2 TVOL	Y88E3	1,1,1-Trichloroethane	J	>MDL<RL	0.33	µg/L	0.062	0.5
SOM01.2 TVOL	Y88E3	Chloroethane	J	>MDL<RL	0.4	µg/L	0.076	0.5
SOM01.2 TVOL	Y88E4	Chloroform	J	>MDL<RL	0.37	µg/L	0.082	0.5
SOM01.2 TVOL	Y88E4	cis-1,2-Dichloroethene	J	>MDL<RL	0.38	µg/L	0.1	0.5
SOM01.2 TVOL	Y88E4	Trichlorofluoromethane (Freon 11)	J	>MDL<RL	0.31	µg/L	0.078	0.5
SOM01.2 TVOL	Y88E8	1,1-Dichloroethane	J	>MDL<RL	0.72	µg/L	0.079	1
SOM01.2 TVOL	Y88E8	Methyl tert-butyl ether	J	>MDL<RL	0.39	µg/L	0.11	1
SOM01.2 TVOL	Y88E9	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	>MDL<RL	0.49	µg/L	0.08	0.5
SOM01.2 TVOL	Y88E9	Chloroform	J	>MDL<RL	0.35	µg/L	0.082	0.5
SOM01.2 TVOL	Y88F1	Ethylbenzene	J	>MDL<RL	0.36	µg/L	0.075	0.5
SOM01.2 TVOL	Y88F4	1,1-Dichloroethane	J	>MDL<RL	0.82	µg/L	0.079	2

TABLE C-2

Omega Chemical Groundwater Monitoring Detected Results between the Method Detection Limit and the Reporting Limit

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit	MDL	RL
SOM01.2 TVOL	Y88F5	Methyl tert-butyl ether	J	>MDL<RL	0.25	µg/L	0.11	0.5
SOM01.2 TVOL	Y88F7	cis-1,2-Dichloroethene	J	>MDL<RL	0.33	µg/L	0.1	1
SOM01.2 TVOL	Y88F9	1,1-Dichloroethane	J	>MDL<RL	0.51	µg/L	0.079	1
SOM01.2 TVOL	Y88G0	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	>MDL<RL	0.21	µg/L	0.08	0.5
SOM01.2 TVOL	Y88G2	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	>MDL<RL	0.31	µg/L	0.08	0.5
SOM01.2 TVOL	Y88G3	cis-1,2-Dichloroethene	J	>MDL<RL	8.2	µg/L	0.1	10
SOM01.2 TVOL	Y88G4	cis-1,2-Dichloroethene	J	>MDL<RL	0.24	µg/L	0.1	0.5
SOM01.2 TVOL	Y88G5	cis-1,2-Dichloroethene	J	>MDL<RL	0.23	µg/L	0.1	0.5
SOM01.2 TVOL	Y88G6	1,1-Dichloroethane	J	>MDL<RL	1.4	µg/L	0.079	4
SOM01.2 TVOL	Y88G7	1,1-Dichloroethane	J	>MDL<RL	0.71	µg/L	0.079	2
SOM01.2 TVOL	Y88G8	cis-1,2-Dichloroethene	J	>MDL<RL	0.3	µg/L	0.1	0.5
SOM01.2 TVOL	Y88G8	Trichlorofluoromethane (Freon 11)	J	>MDL<RL	0.34	µg/L	0.078	0.5
SOM01.2 TVOL	Y88H0	1,1-Dichloroethane	J	>MDL<RL	0.49	µg/L	0.079	1
SOM01.2 TVOL	Y88H0	cis-1,2-Dichloroethene	J	>MDL<RL	0.6	µg/L	0.1	1
SOM01.2 TVOL	Y88H0	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.31	µg/L	0.064	1
SOM01.2 TVOL	Y88H0	Methyl tert-butyl ether	J	>MDL<RL	0.4	µg/L	0.11	1
SOM01.2 TVOL	Y88H0	Methylene chloride	J	>MDL<RL	0.77	µg/L	0.025	1
SOM01.2 TVOL	Y88H0	trans-1,2-Dichloroethene	J	>MDL<RL	0.3	µg/L	0.058	1
SOM01.2 TVOL	Y88H1	1,1-Dichloroethane	J	>MDL<RL	2.7	µg/L	0.079	5
SOM01.2 TVOL	Y88H1	trans-1,2-Dichloroethene	J	>MDL<RL	2.3	µg/L	0.058	5
SOM01.2 TVOL	Y88H2	1,1-Dichloroethane	J	>MDL<RL	3.2	µg/L	0.079	10
SOM01.2 TVOL	Y88H2	trans-1,2-Dichloroethene	J	>MDL<RL	4.5	µg/L	0.058	10
SOM01.2 TVOL	Y88H3	1,1-Dichloroethane	J	>MDL<RL	0.82	µg/L	0.079	2
SOM01.2 TVOL	Y88H3	Methylene chloride	J	>MDL<RL	1.4	µg/L	0.025	2
SOM01.2 TVOL	Y88H3	trans-1,2-Dichloroethene	J	>MDL<RL	0.67	µg/L	0.058	2
SOM01.2 TVOL	Y88H9	1,1-Dichloroethane	J	>MDL<RL	0.11	µg/L	0.079	0.5
SOM01.2 TVOL	Y88H9	1,2-Dichloroethane	J	>MDL<RL	0.23	µg/L	0.13	0.5
SOM01.2 TVOL	Y88H9	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.13	µg/L	0.064	0.5
SOM01.2 TVOL	Y88J0	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	>MDL<RL	0.32	µg/L	0.08	0.5
SOM01.2 TVOL	Y88J0	1,1-Dichloroethene	J	>MDL<RL	0.25	µg/L	0.075	0.5
SOM01.2 TVOL	Y88J0	Chloroform	J	>MDL<RL	0.47	µg/L	0.082	0.5
SOM01.2 TVOL	Y88J1	1,1-Dichloroethane	J	>MDL<RL	0.37	µg/L	0.079	1
SOM01.2 TVOL	Y88J1	Methylene chloride	J	>MDL<RL	0.77	µg/L	0.025	1

TABLE C-2

Omega Chemical Groundwater Monitoring Detected Results between the Method Detection Limit and the Reporting Limit

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit	MDL	RL
SOM01.2 TVOL	Y88J1	trans-1,2-Dichloroethene	J	>MDL<RL	0.32	µg/L	0.058	1
SOM01.2 TVOL	Y88J3	1,1,1-Trichloroethane	J	>MDL<RL	0.33	µg/L	0.062	1
SOM01.2 TVOL	Y88J3	Cyclohexane	J	>MDL<RL	0.52	µg/L	0.058	1
SOM01.2 TVOL	Y88J3	trans-1,2-Dichloroethene	J	>MDL<RL	0.44	µg/L	0.058	1
SOM01.2 TVOL	Y88J5	1,2-Dichloroethane	J	>MDL<RL	0.47	µg/L	0.13	0.5
SOM01.2 TVOL	Y88J6	cis-1,2-Dichloroethene	J	>MDL<RL	1.6	µg/L	0.1	2.5
SOM01.2 TVOL	Y88J7	cis-1,2-Dichloroethene	J	>MDL<RL	0.11	µg/L	0.1	0.5
SOM01.2 TVOL	Y88J8	1,1-Dichloroethane	J	>MDL<RL	0.58	µg/L	0.079	2
SOM01.2 TVOL	Y88J8	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.53	µg/L	0.064	2
SOM01.2 TVOL	Y88J8	Methyl tert-butyl ether	J	>MDL<RL	0.97	µg/L	0.11	2
SOM01.2 TVOL	Y88J8	trans-1,2-Dichloroethene	J	>MDL<RL	0.41	µg/L	0.058	2
SOM01.2 TVOL	Y88J9	1,1-Dichloroethane	J	>MDL<RL	0.62	µg/L	0.079	2
SOM01.2 TVOL	Y88J9	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.58	µg/L	0.064	2
SOM01.2 TVOL	Y88J9	Methyl tert-butyl ether	J	>MDL<RL	0.94	µg/L	0.11	2
SOM01.2 TVOL	Y88J9	trans-1,2-Dichloroethene	J	>MDL<RL	0.44	µg/L	0.058	2
SOM01.2 TVOL	Y88K0	1,1-Dichloroethane	J	>MDL<RL	0.91	µg/L	0.079	1
SOM01.2 TVOL	Y88K0	Methyl tert-butyl ether	J	>MDL<RL	0.39	µg/L	0.11	1
SOM01.2 TVOL	Y88K0	trans-1,2-Dichloroethene	J	>MDL<RL	0.77	µg/L	0.058	1
SOM01.2 TVOL	Y88K1	1,1-Dichloroethane	J	>MDL<RL	0.86	µg/L	0.079	1
SOM01.2 TVOL	Y88K1	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.5	µg/L	0.064	1
SOM01.2 TVOL	Y88K1	Methyl tert-butyl ether	J	>MDL<RL	0.55	µg/L	0.11	1
SOM01.2 TVOL	Y88K1	trans-1,2-Dichloroethene	J	>MDL<RL	0.62	µg/L	0.058	1
SOM01.2 TVOL	Y8HG1	Tetrachloroethene	J	>MDL<RL	0.46	µg/L	0.13	0.5
SOM01.2 TVOL	Y8HG1	Trichloroethene	J	>MDL<RL	0.37	µg/L	0.11	0.5
SOM01.2 TVOL	Y8HG2	Chloroform	J	>MDL<RL	0.22	µg/L	0.16	0.5
SOM01.2 TVOL	Y8HG2	Trichloroethene	J	>MDL<RL	0.35	µg/L	0.11	0.5
SOM01.2 TVOL	Y8HG3	1,1,2-Trichloroethane	J	>MDL<RL	0.38	µg/L	0.16	0.5
SOM01.2 TVOL	Y8HG4	cis-1,2-Dichloroethene	J	>MDL<RL	0.22	µg/L	0.15	0.5
SOM01.2 TVOL	Y8HG4	Methyl tert-butyl ether	J	>MDL<RL	0.34	µg/L	0.23	0.5
SOM01.2 TVOL	Y8HG6	cis-1,2-Dichloroethene	J	>MDL<RL	0.2	µg/L	0.15	0.5
SOM01.2 TVOL	Y8HG6	Methyl tert-butyl ether	J	>MDL<RL	0.3	µg/L	0.23	0.5
SOM01.2 TVOL	Y8HG7	1,1-Dichloroethane	J	>MDL<RL	0.29	µg/L	0.15	0.5
SOM01.2 TVOL	Y8HG7	cis-1,2-Dichloroethene	J	>MDL<RL	0.48	µg/L	0.15	0.5

TABLE C-2

Omega Chemical Groundwater Monitoring Detected Results between the Method Detection Limit and the Reporting Limit

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit	MDL	RL
SOM01.2 TVOL	Y8HG7	Methyl tert-butyl ether	J	>MDL<RL	0.39	µg/L	0.23	0.5
SOM01.2 TVOL	Y8HG8	1,1,2-Trichloroethane	J	>MDL<RL	0.26	µg/L	0.16	0.5
SOM01.2 TVOL	Y8HG8	Methyl tert-butyl ether	J	>MDL<RL	0.42	µg/L	0.23	0.5
SOM01.2 TVOL	Y8HG9	Chloroform	J	>MDL<RL	0.35	µg/L	0.16	0.5
SOM01.2 TVOL	Y8HH0	Chloroform	J	>MDL<RL	0.34	µg/L	0.16	0.5
SOM01.2 TVOL	Y8HH1	1,1-Dichloroethane	J	>MDL<RL	0.4	µg/L	0.15	0.5
SOM01.2 TVOL	Y8HH3	1,1,2-Trichloroethane	J	>MDL<RL	0.35	µg/L	0.16	0.5
SOM01.2 TVOL	Y8HH5	cis-1,2-Dichloroethene	J	>MDL<RL	0.29	µg/L	0.15	0.5
SOM01.2 TVOL	Y8HH8	Trichlorofluoromethane (Freon 11)	J	>MDL<RL	0.32	µg/L	0.13	0.5
SOM01.2 TVOL	Y8HJ5	Trichloroethene	J	>MDL<RL	0.4	µg/L	0.11	0.5
SOM01.2 TVOL	Y8HJ8	Chloroform	J	>MDL<RL	0.46	µg/L	0.16	0.5
SOM01.2 TVOL	Y8HJ9	1,1-Dichloroethane	J	>MDL<RL	0.36	µg/L	0.15	0.5
SOM01.2 TVOL	Y8HJ9	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.24	µg/L	0.086	0.5
SOM01.2 TVOL	Y8HJ9	Methyl tert-butyl ether	J	>MDL<RL	0.32	µg/L	0.23	0.5
SOM01.2 TVOL	Y8HK0	Isopropylbenzene	J	>MDL<RL	0.3	µg/L	0.12	0.5
SOM01.2 TVOL	Y8HK1	1,1-Dichloroethane	J	>MDL<RL	0.24	µg/L	0.15	0.5
SOM01.2 TVOL	Y8HK1	1,1-Dichloroethene	J	>MDL<RL	0.41	µg/L	0.14	0.5
SOM01.2 TVOL	Y8HK1	cis-1,2-Dichloroethene	J	>MDL<RL	0.29	µg/L	0.15	0.5
SOM01.2 TVOL	Y8HK3	1,1-Dichloroethene	J	>MDL<RL	0.31	µg/L	0.14	0.5
SOM01.2 TVOL	Y8HK3	Trichloroethene	J	>MDL<RL	0.38	µg/L	0.11	0.5
SOM01.2 TVOL	Y8HK4	Trichloroethene	J	>MDL<RL	0.38	µg/L	0.11	0.5
SOM01.2 TVOL	Y8HK7	Tetrachloroethene	J	>MDL<RL	0.28	µg/L	0.13	0.5
SOM01.2 TVOL	Y8HK8	1,1-Dichloroethane	J	>MDL<RL	0.27	µg/L	0.15	0.5
SOM01.2 TVOL	Y8HK8	Carbon tetrachloride	J	>MDL<RL	0.28	µg/L	0.13	0.5
SOM01.2 TVOL	Y8HK8	Methyl tert-butyl ether	J	>MDL<RL	0.31	µg/L	0.23	0.5
SOM01.2 TVOL	Y8HK9	1,1,1-Trichloroethane	J	>MDL<RL	0.33	µg/L	0.15	0.5
SOM01.2 TVOL	Y8HK9	Carbon tetrachloride	J	>MDL<RL	0.26	µg/L	0.13	0.5
SOM01.2 TVOL	Y8HK9	Methyl tert-butyl ether	J	>MDL<RL	0.37	µg/L	0.23	0.5
SOM01.2 TVOL	Y8HL0	Methyl tert-butyl ether	J	>MDL<RL	0.38	µg/L	0.23	0.5
SOM01.2 TVOL	Y8HL5	Tetrachloroethene	J	>MDL<RL	0.27	µg/L	0.13	0.5
SOM01.2 TVOL	Y8HL6	Tetrachloroethene	J	>MDL<RL	0.31	µg/L	0.13	0.5
SOM01.2 TVOL	Y8HL8	Methyl tert-butyl ether	J	>MDL<RL	0.26	µg/L	0.23	0.5
SOM01.2 TVOL	Y8HM4	1,1,2-Trichloroethane	J	>MDL<RL	0.22	µg/L	0.16	0.5

TABLE C-2

Omega Chemical Groundwater Monitoring Detected Results between the Method Detection Limit and the Reporting Limit

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit	MDL	RL
SOM01.2 TVOL	Y8HM5	1,1,2-Trichloroethane	J	>MDL<RL	0.26	µg/L	0.16	0.5
SOM01.2 TVOL	Y8HM5	Methyl tert-butyl ether	J	>MDL<RL	0.47	µg/L	0.23	0.5
SOM01.2 TVOL	Y8HM6	Tetrachloroethene	J	>MDL<RL	0.34	µg/L	0.13	0.5
SOM01.2 TVOL	Y8HM8	Methyl tert-butyl ether	J	>MDL<RL	0.36	µg/L	0.23	0.5
SOM01.2 TVOL	Y8HM9	Benzene	J	>MDL<RL	0.22	µg/L	0.12	0.5
SOM01.2 TVOL	Y8HN1	Carbon tetrachloride	J	>MDL<RL	0.24	µg/L	0.13	0.5
SOM01.2 TVOL	Y8HN2	1,1-Dichloroethane	J	>MDL<RL	0.21	µg/L	0.15	0.5
SOM01.2 TVOL	Y8HN2	Carbon tetrachloride	J	>MDL<RL	0.21	µg/L	0.13	0.5
SOM01.2 TVOL	Y8HN4	Tetrachloroethene	J	>MDL<RL	0.25	µg/L	0.13	0.5
SOM01.2 TVOL	Y8HN5	Chloroform	J	>MDL<RL	0.39	µg/L	0.16	0.5
SOM01.2 TVOL	Y8HN5	Methyl tert-butyl ether	J	>MDL<RL	0.23	µg/L	0.23	0.5
SOM01.2 TVOL	Y8HN6	1,1,2-Trichloroethane	J	>MDL<RL	0.26	µg/L	0.16	0.5
SOM01.2 TVOL	Y8HP1	Methyl tert-butyl ether	J	>MDL<RL	0.42	µg/L	0.23	0.5
SOM01.2 TVOL	Y8HP2	Chloroform	J	>MDL<RL	0.36	µg/L	0.16	0.5
SOM01.2 TVOL	Y8YY5	Acetone	J	>MDL<RL	1.9	µg/L	2.2	5
SOM01.2 TVOL	Y8YY7	Acetone	J	>MDL<RL	1.1	µg/L	2.2	5
SOM01.2 TVOL	Y8YY8	1,1-Dichloroethane	J	>MDL<RL	0.33	µg/L	0.079	1
SOM01.2 TVOL	Y8YY8	cis-1,2-Dichloroethene	J	>MDL<RL	0.4	µg/L	0.1	1
SOM01.2 TVOL	Y8YY8	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.54	µg/L	0.064	1
SOM01.2 TVOL	Y8YY8	Methyl tert-butyl ether	J	>MDL<RL	0.37	µg/L	0.11	1
SOM01.2 TVOL	Y8YZ0	1,2-Dichloroethane	J	>MDL<RL	0.43	µg/L	0.13	0.5
SOM01.2 TVOL	Y8YZ0	Methyl tert-butyl ether	J	>MDL<RL	0.21	µg/L	0.11	0.5
SOM01.2 TVOL	Y8YZ1	1,1-Dichloroethane	J	>MDL<RL	2.9	µg/L	0.079	10
SOM01.2 TVOL	Y8YZ1	1,2-Dichloroethane	J	>MDL<RL	9.2	µg/L	0.13	10
SOM01.2 TVOL	Y8YZ1	trans-1,2-Dichloroethene	J	>MDL<RL	3.1	µg/L	0.058	10
SOM01.2 TVOL	Y8YZ2	1,1-Dichloroethane	J	>MDL<RL	0.63	µg/L	0.079	2.5
SOM01.2 TVOL	Y8YZ2	Bromodichloromethane	J	>MDL<RL	0.74	µg/L	0.25	2.5
SOM01.2 TVOL	Y8YZ2	trans-1,2-Dichloroethene	J	>MDL<RL	1.7	µg/L	0.058	2.5
SOM01.2 TVOL	Y8YZ3	1,1-Dichloroethane	J	>MDL<RL	0.22	µg/L	0.079	1
SOM01.2 TVOL	Y8YZ3	cis-1,2-Dichloroethene	J	>MDL<RL	0.35	µg/L	0.1	1
SOM01.2 TVOL	Y8YZ3	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.27	µg/L	0.064	1
SOM01.2 TVOL	Y8YZ3	Methyl tert-butyl ether	J	>MDL<RL	0.4	µg/L	0.11	1
SOM01.2 TVOL	Y8YZ4	Acetone	J	>MDL<RL	1.4	µg/L	2.2	5

TABLE C-2

Omega Chemical Groundwater Monitoring Detected Results between the Method Detection Limit and the Reporting Limit

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit	MDL	RL
SOM01.2 TVOL	Y8YZ6	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	>MDL<RL	0.16	µg/L	0.08	0.5
SOM01.2 TVOL	Y8YZ7	1,1-Dichloroethane	J	>MDL<RL	0.37	µg/L	0.079	1
SOM01.2 TVOL	Y8YZ7	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.31	µg/L	0.064	1
SOM01.2 TVOL	Y8YZ7	trans-1,2-Dichloroethene	J	>MDL<RL	0.27	µg/L	0.058	1
SOM01.2 TVOL	Y8YZ8	1,1-Dichloroethane	J	>MDL<RL	1	µg/L	0.079	2.5
SOM01.2 TVOL	Y8YZ8	trans-1,2-Dichloroethene	J	>MDL<RL	0.99	µg/L	0.058	2.5
SOM01.2 TVOL	Y8YZ9	cis-1,2-Dichloroethene	J	>MDL<RL	0.13	µg/L	0.1	0.5
SOM01.2 TVOL	Y8YZ9	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.14	µg/L	0.064	0.5
SOM01.2 TVOL	Y8YZ9	Methyl tert-butyl ether	J	>MDL<RL	0.21	µg/L	0.11	0.5
SOM01.2 TVOL	Y8Z00	cis-1,2-Dichloroethene	J	>MDL<RL	0.15	µg/L	0.1	0.5
SOM01.2 TVOL	Y8Z00	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.14	µg/L	0.064	0.5
SOM01.2 TVOL	Y8Z00	Methyl tert-butyl ether	J	>MDL<RL	0.21	µg/L	0.11	0.5
SOM01.2 TVOL	Y8Z01	1,2-Dichloroethane	J	>MDL<RL	0.38	µg/L	0.13	0.5
SOM01.2 TVOL	Y8Z01	Methyl tert-butyl ether	J	>MDL<RL	0.2	µg/L	0.11	0.5
SOM01.2 TVOL	Y8Z03	trans-1,2-Dichloroethene	J	>MDL<RL	0.39	µg/L	0.058	1
SOM01.2 TVOL	Y8Z04	Chloroform	J	>MDL<RL	0.25	µg/L	0.082	0.5
SOM01.2 TVOL	Y8Z04	Methyl tert-butyl ether	J	>MDL<RL	0.16	µg/L	0.11	0.5
SOM01.2 TVOL	Y8Z04	Trichloroethene	J	>MDL<RL	0.34	µg/L	0.067	0.5
SOM01.2 TVOL	Y8Z05	Chloroform	J	>MDL<RL	3	µg/L	0.082	5
SOM01.2 TVOL	Y8Z07	Carbon tetrachloride	J	>MDL<RL	0.26	µg/L	0.061	0.5
SOM01.2 TVOL	Y8Z07	Methyl tert-butyl ether	J	>MDL<RL	0.13	µg/L	0.11	0.5
SOM01.2 TVOL	Y8Z08	1,1-Dichloroethane	J	>MDL<RL	0.25	µg/L	0.079	1
SOM01.2 TVOL	Y8Z08	1,2-Dichloroethane	J	>MDL<RL	0.79	µg/L	0.13	1
SOM01.2 TVOL	Y8Z08	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.22	µg/L	0.064	1
SOM01.2 TVOL	Y8Z08	Methyl tert-butyl ether	J	>MDL<RL	0.36	µg/L	0.11	1
SOM01.2 TVOL	Y8Z09	1,1-Dichloroethane	J	>MDL<RL	1.5	µg/L	0.079	2.5
SOM01.2 TVOL	Y8Z09	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	1.2	µg/L	0.064	2.5
SOM01.2 TVOL	Y8Z09	Methyl tert-butyl ether	J	>MDL<RL	0.73	µg/L	0.11	2.5
SOM01.2 TVOL	Y8Z09	trans-1,2-Dichloroethene	J	>MDL<RL	0.89	µg/L	0.058	2.5
SOM01.2 TVOL	Y8Z10	1,1-Dichloroethane	J	>MDL<RL	1.7	µg/L	0.079	2.5
SOM01.2 TVOL	Y8Z10	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	1.2	µg/L	0.064	2.5
SOM01.2 TVOL	Y8Z10	Methyl tert-butyl ether	J	>MDL<RL	0.92	µg/L	0.11	2.5
SOM01.2 TVOL	Y8Z10	trans-1,2-Dichloroethene	J	>MDL<RL	1	µg/L	0.058	2.5

TABLE C-2

Omega Chemical Groundwater Monitoring Detected Results between the Method Detection Limit and the Reporting Limit

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit	MDL	RL
SOM01.2 TVOL	Y8Z11	1,1-Dichloroethane	J	>MDL<RL	1.3	µg/L	0.079	2.5
SOM01.2 TVOL	Y8Z11	trans-1,2-Dichloroethene	J	>MDL<RL	1	µg/L	0.058	2.5
SOM01.2 TVOL	Y8Z13	Carbon tetrachloride	J	>MDL<RL	0.14	µg/L	0.061	0.5
SOM01.2 TVOL	Y8Z14	1,1-Dichloroethane	J	>MDL<RL	0.69	µg/L	0.079	2
SOM01.2 TVOL	Y8Z14	trans-1,2-Dichloroethene	J	>MDL<RL	0.55	µg/L	0.058	2
SOM01.2 TVOL	Y8Z15	1,1-Dichloroethane	J	>MDL<RL	0.44	µg/L	0.079	1
SOM01.2 TVOL	Y8Z15	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.31	µg/L	0.064	1
SOM01.2 TVOL	Y8Z15	trans-1,2-Dichloroethene	J	>MDL<RL	0.37	µg/L	0.058	1
SOM01.2 TVOL	Y8Z16	1,1-Dichloroethene	J	>MDL<RL	0.13	µg/L	0.075	0.5
SOM01.2 TVOL	Y8Z17	1,1-Dichloroethane	J	>MDL<RL	0.35	µg/L	0.079	1
SOM01.2 TVOL	Y8Z17	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.21	µg/L	0.064	1
SOM01.2 TVOL	Y8Z17	trans-1,2-Dichloroethene	J	>MDL<RL	0.33	µg/L	0.058	1
SOM01.2 TVOL	Y8Z19	1,1-Dichloroethene	J	>MDL<RL	0.12	µg/L	0.075	0.5
SOM01.2 TVOL	Y8Z19	Trichloroethene	J	>MDL<RL	0.11	µg/L	0.067	0.5
SOM01.2 TVOL	Y8Z20	1,1-Dichloroethene	J	>MDL<RL	0.26	µg/L	0.075	0.5
SOM01.2 TVOL	Y8Z20	Trichlorofluoromethane (Freon 11)	J	>MDL<RL	0.19	µg/L	0.078	0.5
SOM01.2 TVOL	Y8Z21	1,1-Dichloroethene	J	>MDL<RL	0.25	µg/L	0.075	0.5
SOM01.2 TVOL	Y8Z21	Trichlorofluoromethane (Freon 11)	J	>MDL<RL	0.19	µg/L	0.078	0.5
SOM01.2 TVOL	Y8Z22	1,1-Dichloroethane	J	>MDL<RL	1.5	µg/L	0.079	2.5
SOM01.2 TVOL	Y8Z22	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.84	µg/L	0.064	2.5
SOM01.2 TVOL	Y8Z22	Methyl tert-butyl ether	J	>MDL<RL	0.94	µg/L	0.11	2.5
SOM01.2 TVOL	Y8Z22	trans-1,2-Dichloroethene	J	>MDL<RL	1.1	µg/L	0.058	2.5
SOM01.2 TVOL	Y8Z23	1,1-Dichloroethane	J	>MDL<RL	1.2	µg/L	0.079	2.5
SOM01.2 TVOL	Y8Z23	Methyl tert-butyl ether	J	>MDL<RL	0.76	µg/L	0.11	2.5
SOM01.2 TVOL	Y8Z23	trans-1,2-Dichloroethene	J	>MDL<RL	0.74	µg/L	0.058	2.5
SOM01.2 TVOL	Y8Z24	Chloroform	J	>MDL<RL	0.28	µg/L	0.082	0.5
SOM01.2 TVOL	Y8Z25	Methyl tert-butyl ether	J	>MDL<RL	0.13	µg/L	0.11	0.5
SOM01.2 TVOL	Y8Z25	Toluene	J	>MDL<RL	0.1	µg/L	0.075	0.5
SOM01.2 TVOL	Y8Z28	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	>MDL<RL	0.17	µg/L	0.08	0.5
SOM01.2 TVOL	Y8Z28	Carbon disulfide	J	>MDL<RL	0.38	µg/L	0.14	0.5
SOM01.2 TVOL	Y8Z29	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	>MDL<RL	0.39	µg/L	0.08	0.5
SOM01.2 TVOL	Y8Z29	Carbon tetrachloride	J	>MDL<RL	0.17	µg/L	0.061	0.5
SOM01.2 TVOL	Y8Z29	Chloroform	J	>MDL<RL	0.27	µg/L	0.082	0.5

TABLE C-2

Omega Chemical Groundwater Monitoring Detected Results between the Method Detection Limit and the Reporting Limit

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit	MDL	RL
SOM01.2 TVOL	Y8Z29	Trichloroethene	J	>MDL<RL	0.35	µg/L	0.067	0.5
SOM01.2 TVOL	Y8Z30	1,1-Dichloroethane	J	>MDL<RL	1.8	µg/L	0.079	2.5
SOM01.2 TVOL	Y8Z30	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.59	µg/L	0.064	2.5
SOM01.2 TVOL	Y8Z30	trans-1,2-Dichloroethene	J	>MDL<RL	1.3	µg/L	0.058	2.5
SOM01.2 TVOL	Y8Z31	1,1-Dichloroethene	J	>MDL<RL	0.15	µg/L	0.075	0.5
SOM01.2 TVOL	Y8Z31	Acetone	J	>MDL<RL	1.1	µg/L	2.2	5
SOM01.2 TVOL	Y8Z32	1,1-Dichloroethene	J	>MDL<RL	0.14	µg/L	0.075	0.5
SOM01.2 TVOL	Y8Z34	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	>MDL<RL	0.35	µg/L	0.08	0.5
SOM01.2 TVOL	Y8Z34	cis-1,2-Dichloroethene	J	>MDL<RL	0.18	µg/L	0.1	0.5
SOM01.2 TVOL	Y8Z35	1,1-Dichloroethane	J	>MDL<RL	0.28	µg/L	0.079	0.5
SOM01.2 TVOL	Y8Z35	Carbon tetrachloride	J	>MDL<RL	0.33	µg/L	0.061	0.5
SOM01.2 TVOL	Y8Z35	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.2	µg/L	0.064	0.5
SOM01.2 TVOL	Y8Z35	Methyl tert-butyl ether	J	>MDL<RL	0.28	µg/L	0.11	0.5
SOM01.2 TVOL	Y8Z35	trans-1,2-Dichloroethene	J	>MDL<RL	0.1	µg/L	0.058	0.5
SOM01.2 TVOL	Y8Z36	Carbon tetrachloride	J	>MDL<RL	0.25	µg/L	0.061	1
SOM01.2 TVOL	Y8Z36	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.33	µg/L	0.064	1
SOM01.2 TVOL	Y8Z36	Methyl tert-butyl ether	J	>MDL<RL	0.38	µg/L	0.11	1
SOM01.2 TVOL	Y8Z36	trans-1,2-Dichloroethene	J	>MDL<RL	0.27	µg/L	0.058	1
SOM01.2 TVOL	Y8Z37	Carbon tetrachloride	J	>MDL<RL	0.27	µg/L	0.061	1
SOM01.2 TVOL	Y8Z37	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.28	µg/L	0.064	1
SOM01.2 TVOL	Y8Z37	Methyl tert-butyl ether	J	>MDL<RL	0.39	µg/L	0.11	1
SOM01.2 TVOL	Y8Z37	trans-1,2-Dichloroethene	J	>MDL<RL	0.23	µg/L	0.058	1
SOM01.2 TVOL	Y8Z38	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.26	µg/L	0.064	1
SOM01.2 TVOL	Y8Z38	Methyl tert-butyl ether	J	>MDL<RL	0.35	µg/L	0.11	1
SOM01.2 TVOL	Y8Z38	trans-1,2-Dichloroethene	J	>MDL<RL	0.24	µg/L	0.058	1
SOM01.2 TVOL	Y8Z40	1,1-Dichloroethane	J	>MDL<RL	0.28	µg/L	0.079	1
SOM01.2 TVOL	Y8Z40	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.2	µg/L	0.064	1
SOM01.2 TVOL	Y8Z40	Methyl tert-butyl ether	J	>MDL<RL	0.28	µg/L	0.11	1
SOM01.2 TVOL	Y8Z40	trans-1,2-Dichloroethene	J	>MDL<RL	0.24	µg/L	0.058	1
SOM01.2 TVOL	Y8Z41	1,2-Dichloroethane	J	>MDL<RL	0.4	µg/L	0.13	0.5
SOM01.2 TVOL	Y8Z41	1,2-Dichloropropane	J	>MDL<RL	0.11	µg/L	0.1	0.5
SOM01.2 TVOL	Y8Z41	Benzene	J	>MDL<RL	0.15	µg/L	0.076	0.5
SOM01.2 TVOL	Y8Z41	trans-1,2-Dichloroethene	J	>MDL<RL	0.18	µg/L	0.058	0.5

TABLE C-2

Omega Chemical Groundwater Monitoring Detected Results between the Method Detection Limit and the Reporting Limit

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit	MDL	RL
SOM01.2 TVOL	Y8Z41	Vinyl chloride	J	>MDL<RL	0.22	µg/L	0.066	0.5
SOM01.2 TVOL	Y8Z42	1,2-Dichloroethane	J	>MDL<RL	0.33	µg/L	0.13	0.5
SOM01.2 TVOL	Y8Z42	Benzene	J	>MDL<RL	0.13	µg/L	0.076	0.5
SOM01.2 TVOL	Y8Z42	trans-1,2-Dichloroethene	J	>MDL<RL	0.12	µg/L	0.058	0.5
SOM01.2 TVOL	Y8Z42	Vinyl chloride	J	>MDL<RL	0.17	µg/L	0.066	0.5
SOM01.2 TVOL	Y8Z43	Benzene	J	>MDL<RL	0.29	µg/L	0.076	1
SOM01.2 TVOL	Y8Z43	Cyclohexane	J	>MDL<RL	0.74	µg/L	0.058	1
SOM01.2 TVOL	Y8Z43	Methyl tert-butyl ether	J	>MDL<RL	0.22	µg/L	0.11	1
SOM01.2 TVOL	Y8Z44	Benzene	J	>MDL<RL	0.25	µg/L	0.076	1
SOM01.2 TVOL	Y8Z44	Methyl tert-butyl ether	J	>MDL<RL	0.37	µg/L	0.11	1
SOM01.2 TVOL	Y8Z44	Vinyl chloride	J	>MDL<RL	0.68	µg/L	0.066	1
SOM01.2 TVOL	Y8Z45	Benzene	J	>MDL<RL	0.25	µg/L	0.076	1
SOM01.2 TVOL	Y8Z45	Methyl tert-butyl ether	J	>MDL<RL	0.37	µg/L	0.11	1
SOM01.2 TVOL	Y8Z45	Vinyl chloride	J	>MDL<RL	0.62	µg/L	0.066	1
SOM01.2 TVOL	Y8Z48	1,1-Dichloroethane	J	>MDL<RL	0.17	µg/L	0.079	0.5
SOM01.2 TVOL	Y8Z48	Carbon tetrachloride	J	>MDL<RL	0.42	µg/L	0.061	0.5
SOM01.2 TVOL	Y8Z48	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.14	µg/L	0.064	0.5
SOM01.2 TVOL	Y8Z48	Methyl tert-butyl ether	J	>MDL<RL	0.2	µg/L	0.11	0.5
SOM01.2 TVOL	Y8Z49	1,1-Dichloroethane	J	>MDL<RL	0.15	µg/L	0.079	0.5
SOM01.2 TVOL	Y8Z49	1,1-Dichloroethene	J	>MDL<RL	0.26	µg/L	0.075	0.5
SOM01.2 TVOL	Y8Z49	Acetone	J	>MDL<RL	1.3	µg/L	2.2	5
SOM01.2 TVOL	Y8Z49	cis-1,2-Dichloroethene	J	>MDL<RL	0.32	µg/L	0.1	0.5
SOM01.2 TVOL	Y8Z50	Carbon tetrachloride	J	>MDL<RL	0.11	µg/L	0.061	0.5
SOM01.2 TVOL	Y8Z50	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.16	µg/L	0.064	0.5
SOM01.2 TVOL	Y8Z51	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	>MDL<RL	0.26	µg/L	0.08	0.5
SOM01.2 TVOL	Y8Z51	1,1-Dichloroethene	J	>MDL<RL	0.16	µg/L	0.075	0.5
SOM01.2 TVOL	Y8Z51	Carbon tetrachloride	J	>MDL<RL	0.12	µg/L	0.061	0.5
SOM01.2 TVOL	Y8Z51	Trichlorofluoromethane (Freon 11)	J	>MDL<RL	0.12	µg/L	0.078	0.5
SOM01.2 TVOL	Y8Z52	Carbon tetrachloride	J	>MDL<RL	0.26	µg/L	0.061	1
SOM01.2 TVOL	Y8Z52	Dichlorodifluoromethane (Freon 12)	J	>MDL<RL	0.25	µg/L	0.064	1
SOM01.2 TVOL	Y8Z52	Methyl tert-butyl ether	J	>MDL<RL	0.34	µg/L	0.11	1
SOM01.2 TVOL	Y8Z53	1,2-Dichloroethane	J	>MDL<RL	0.41	µg/L	0.13	0.5
SOM01.2 TVOL	Y8Z54	1,2-Dichloropropane	J	>MDL<RL	0.49	µg/L	0.1	0.5

TABLE C-2

Omega Chemical Groundwater Monitoring Detected Results between the Method Detection Limit and the Reporting Limit

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit	MDL	RL
SOM01.2 TVOL	Y8Z54	Carbon tetrachloride	J	>MDL<RL	0.15	µg/L	0.061	0.5
SOM01.2 TVOL	Y8Z55	Carbon tetrachloride	J	>MDL<RL	0.12	µg/L	0.061	0.5
SOM01.2 TVOL	Y8Z55	Methyl tert-butyl ether	J	>MDL<RL	0.13	µg/L	0.11	0.5
SOM01.2 TVOL	Y8Z56	1,1-Dichloroethene	J	>MDL<RL	21	µg/L	0.075	1
SOM01.2 TVOL	Y8Z56	Methyl tert-butyl ether	J	>MDL<RL	0.17	µg/L	0.11	0.5
SOM01.2 TVOL	Y8Z57	1,2-Dichloroethane	J	>MDL<RL	1.2	µg/L	0.13	2.5
SOM01.2 TVOL	Y8Z57	Cyclohexane	J	>MDL<RL	0.58	µg/L	0.058	2.5
SOM01.2 TVOL	Y8Z58	cis-1,2-Dichloroethene	J	>MDL<RL	0.13	µg/L	0.1	0.5
SOM01.2 TVOL	Y8Z61	Cyclohexane	J	>MDL<RL	0.58	µg/L	0.058	2.5
SOM01.2 TVOL	Y8Z61	Methylene chloride	J	>MDL<RL	1.9	µg/L	0.025	2.5
SOM01.2 TVOL	Y8Z63	1,1-Dichloroethene	J	>MDL<RL	0.41	µg/L	0.075	0.5
SOM01.2 TVOL	Y8Z63	1,2,4-Trichlorobenzene	J	>MDL<RL	0.16	µg/L	0.12	0.5
SOM01.2 TVOL	Y8Z63	Acetone	J	>MDL<RL	1.8	µg/L	2.2	5
SOM01.2 TVOL	Y8Z63	Methyl tert-butyl ether	J	>MDL<RL	0.13	µg/L	0.11	0.5
SOM01.2 TVOL	Y9LP7	Tetrachloroethene	J	>MDL<RL	0.074	µg/L	0.028	0.5
SOM01.2 TVOL	Y9LP8	Carbon tetrachloride	J	>MDL<RL	0.044	µg/L	0.033	0.5
SOM01.2 TVOL	Y9LP8	Tetrachloroethene	J	>MDL<RL	0.42	µg/L	0.028	0.5
SOM01.2 TVOL	Y9LP8	Trichloroethene	J	>MDL<RL	0.39	µg/L	0.049	0.5
SOM01.2 TVOL	Y9LP9	Carbon disulfide	J	>MDL<RL	0.35	µg/L	0.09	0.5
SOM01.2 TVOL	Y9LP9	Carbon tetrachloride	J	>MDL<RL	0.066	µg/L	0.033	0.5
SOM01.2 TVOL	Y9LP9	Trichloroethene	J	>MDL<RL	0.054	µg/L	0.049	0.5
SOM01.2 TVOL	Y9LQ0	Carbon disulfide	J	>MDL<RL	1.5	µg/L	0.9	5
SOM01.2 TVOL	Y9LQ0	Carbon tetrachloride	J	>MDL<RL	0.42	µg/L	0.33	5
SOM01.2 TVOL	Y9LQ0	cis-1,2-Dichloroethene	J	>MDL<RL	1	µg/L	0.9	5
SOM01.2 TVOL	Y9LQ1	1,2-Dichloroethane	J	>MDL<RL	1.9	µg/L	0.75	4.2
SOM01.2 TVOL	Y9LQ1	cis-1,2-Dichloroethene	J	>MDL<RL	3.7	µg/L	0.75	4.2
SOM01.2 TVOL	Y9LQ2	1,1-Dichloroethane	J	>MDL<RL	0.67	µg/L	0.4	5
SOM01.2 TVOL	Y9LQ2	1,2-Dichloroethane	J	>MDL<RL	4.1	µg/L	0.9	5
SOM01.2 TVOL	Y9LQ3	1,2-Dichloroethane	J	>MDL<RL	2.1	µg/L	0.9	5
SOM01.2 TVOL	Y9LQ3	cis-1,2-Dichloroethene	J	>MDL<RL	3	µg/L	0.9	5
SOM01.2 TVOL	Y9LQ4	1,1-Dichloroethane	J	>MDL<RL	1.7	µg/L	0.4	5
SOM01.2 TVOL	Y9LQ4	trans-1,2-Dichloroethene	J	>MDL<RL	1.3	µg/L	0.5	5
SOM01.2 TVOL	Y9LQ6	Trichloroethene	J	>MDL<RL	1.5	µg/L	0.25	2.5

TABLE C-2

Omega Chemical Groundwater Monitoring Detected Results between the Method Detection Limit and the Reporting Limit

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit	MDL	RL
SOM01.2 TVOL	Y9LQ7	Trichloroethene	J	>MDL<RL	1.6	µg/L	0.25	2.5
SOM01.2 TVOL	Y9LQ8	1,2-Dichloroethane	J	>MDL<RL	1.5	µg/L	0.45	2.5
SOM01.2 TVOL	Y9LQ9	1,2-Dichloroethane	J	>MDL<RL	2.5	µg/L	0.75	4.2
SOM01.2 TVOL	Y9LQ9	cis-1,2-Dichloroethene	J	>MDL<RL	2.6	µg/L	0.75	4.2
SOM01.2 TVOL	Y9LR1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	>MDL<RL	0.27	µg/L	0.21	0.5
SOM01.2 TVOL	Y9LR1	Toluene	U	>MDL<RL	0.5	µg/L	0.05	0.5
SOM01.2 TVOL	Y9LR2	cis-1,2-Dichloroethene	J	>MDL<RL	0.16	µg/L	0.09	0.5
SOM01.2 TVOL	Y9LR2	Tetrachloroethene	J	>MDL<RL	0.46	µg/L	0.028	0.5
SOM01.2 TVOL	Y9LR3	cis-1,2-Dichloroethene	J	>MDL<RL	2.9	µg/L	0.9	5
SOM01.2 TVOL	Y9LR4	1,1-Dichloroethane	J	>MDL<RL	0.31	µg/L	0.2	2.5
SOM01.2 TVOL	Y9LR4	Carbon tetrachloride	J	>MDL<RL	0.19	µg/L	0.17	2.5
SOM01.2 TVOL	Y9LR4	cis-1,2-Dichloroethene	J	>MDL<RL	1.2	µg/L	0.45	2.5
SOM01.2 TVOL	Y9LR5	1,2-Dichloroethane	J	>MDL<RL	0.67	µg/L	0.32	1.8
SOM01.2 TVOL	Y9LR6	Carbon tetrachloride	J	>MDL<RL	0.12	µg/L	0.033	0.5
SOM01.2 TVOL	Y9LR6	cis-1,2-Dichloroethene	J	>MDL<RL	0.15	µg/L	0.09	0.5
SOM01.2 TVOL	Y9LR7	1,1,1-Trichloroethane	J	>MDL<RL	0.43	µg/L	0.3	5
SOM01.2 TVOL	Y9LR7	Methylene chloride	J	>MDL<RL	2.2	µg/L	2.1	5
SOM01.2 TVOL	Y9LR8	1,1,1-Trichloroethane	J	>MDL<RL	0.39	µg/L	0.3	5
SOM01.2 TVOL	Y9LR9	Methylene chloride	J	>MDL<RL	2.4	µg/L	1.1	2.5
SOM01.2 TVOL	Y9LS0	1,2-Dichloroethane	J	>MDL<RL	3.7	µg/L	0.9	5
SOM01.2 TVOL	Y9LS1	1,1-Dichloroethane	J	>MDL<RL	1.1	µg/L	0.4	5
SOM01.2 TVOL	Y9LS2	Methylene chloride	J	>MDL<RL	0.34	µg/L	0.21	0.5
SOM01.2 TVOL	Y9LS2	Tetrachloroethene	J	>MDL<RL	0.42	µg/L	0.028	0.5
SOM01.2 TVOL	Y9LS3	1,1-Dichloroethane	J	>MDL<RL	1.2	µg/L	0.33	4.2
SOM01.2 TVOL	Y9LS4	1,1,1-Trichloroethane	J	>MDL<RL	0.035	µg/L	0.03	0.5
SOM01.2 TVOL	Y9LS4	Benzene	J	>MDL<RL	0.054	µg/L	0.037	0.5
SOM01.2 TVOL	Y9LS4	Bromodichloromethane	J	>MDL<RL	0.12	µg/L	0.037	0.5
SOM01.2 TVOL	Y9LS4	Trichlorofluoromethane (Freon 11)	J	>MDL<RL	0.14	µg/L	0.06	0.5
SOM01.2 TVOL	Y9LS5	Tetrachloroethene	J	>MDL<RL	0.031	µg/L	0.028	0.5
SOM01.2 TVOL	Y9LS6	Acetone	J	>MDL<RL	2.8	µg/L	2.7	5
SOM01.2 TVOL	Y9LS7	1,2-Dichloroethane	J	>MDL<RL	4.6	µg/L	0.9	5
SOM01.2 TVOL	Y9LS7	Methyl tert-butyl ether	J	>MDL<RL	0.87	µg/L	0.4	5
SOM01.2 TVOL	Y9LS7	Methylene chloride	J	>MDL<RL	2.5	µg/L	2.1	5

TABLE C-2

Omega Chemical Groundwater Monitoring Detected Results between the Method Detection Limit and the Reporting Limit

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit	MDL	RL
SOM01.2 TVOL	Y9LS8	1,2-Dichloroethane	J	>MDL<RL	3.6	µg/L	0.75	4.2
SOM01.2 TVOL	Y9LS9	Methylene chloride	J	>MDL<RL	1.8	µg/L	1.7	4.2
SOM01.2 TVOL	Y9LT0	cis-1,2-Dichloroethene	J	>MDL<RL	0.68	µg/L	0.45	2.5
SOM01.2 TVOL	Y9LT0	Methylene chloride	J	>MDL<RL	1.8	µg/L	1.1	2.5
SOM01.2 TVOL	Y9LT0	Trichlorofluoromethane (Freon 11)	J	>MDL<RL	0.75	µg/L	0.3	2.5
SOM01.2 TVOL	Y9LT1	Chloroform	J	>MDL<RL	0.86	µg/L	0.4	5
SOM01.2 TVOL	Y9LT2	Tetrachloroethene	J	>MDL<RL	0.063	µg/L	0.028	0.5
SOM01.2 TVOL	Y9LT2	Trichloroethene	J	>MDL<RL	0.19	µg/L	0.049	0.5
SOM01.2 TVOL	Y9LT3	1,2-Dichloroethane	J	>MDL<RL	0.14	µg/L	0.12	0.65
SOM01.2 TVOL	Y9LT3	Methyl tert-butyl ether	J	>MDL<RL	0.12	µg/L	0.052	0.65
SOM01.2 TVOL	Y9LT4	Methyl tert-butyl ether	J	>MDL<RL	0.25	µg/L	0.2	2.5
SOM01.2 TVOL	Y9LT5	Methylene chloride	J	>MDL<RL	1.6	µg/L	1.1	2.5
SOM01.2 TVOL	Y9LT7	Tetrachloroethene	J	>MDL<RL	1.7	µg/L	0.28	5
SOM01.2 TVOL	Y9LT8	Tetrachloroethene	J	>MDL<RL	4.8	µg/L	0.28	5
SOM01.2 TVOL	Y9LT9	cis-1,2-Dichloroethene	J	>MDL<RL	0.75	µg/L	0.75	4.2
SOM01.2 TVOL	Y9LW3	cis-1,2-Dichloroethene	J	>MDL<RL	0.14	µg/L	0.09	0.5
SOM01.2 TVOL	Y9LW4	Chloroform	J	>MDL<RL	0.18	µg/L	0.04	0.5
SOM01.2 TVOL	Y9LW4	Trichloroethene	J	>MDL<RL	0.24	µg/L	0.049	0.5
SOM01.2 TVOL	Y9LW5	Benzene	J	>MDL<RL	0.13	µg/L	0.037	0.5
SOM01.2 TVOL	Y9LW5	Tetrachloroethene	J	>MDL<RL	0.25	µg/L	0.028	0.5
SOM01.2 TVOL	Y9LW6	Benzene	J	>MDL<RL	0.11	µg/L	0.037	0.5
SOM01.2 TVOL	Y9LW7	Benzene	J	>MDL<RL	0.21	µg/L	0.037	0.5
SOM01.2 TVOL	Y9LW7	Methyl tert-butyl ether	J	>MDL<RL	0.19	µg/L	0.04	0.5
SOM01.2 TVOL	Y9LW8	Benzene	J	>MDL<RL	0.48	µg/L	0.037	0.5
SOM01.2 TVOL	Y9LW8	N-HEXANE	J	>MDL<RL	0.44	µg/L	0.1	0.5
SOM01.2 TVOL	Y9LW9	Benzene	J	>MDL<RL	0.055	µg/L	0.037	0.5
SOM01.2 TVOL	Y9LW9	Carbon tetrachloride	J	>MDL<RL	0.071	µg/L	0.033	0.5
SOM01.2 TVOL	Y9LW9	Methyl tert-butyl ether	J	>MDL<RL	0.11	µg/L	0.04	0.5
SOM01.2 TVOL	Y9LX0	1,1,1-Trichloroethane	J	>MDL<RL	0.038	µg/L	0.03	0.5
SOM01.2 TVOL	Y9LX0	Carbon tetrachloride	J	>MDL<RL	0.073	µg/L	0.033	0.5
SOM01.2 TVOL	Y9LX0	Methyl tert-butyl ether	J	>MDL<RL	0.11	µg/L	0.04	0.5
SOM01.2 TVOL	Y9LX1	1,1-Dichloroethane	J	>MDL<RL	0.077	µg/L	0.04	0.5
SOM01.2 TVOL	Y9LX1	1,1-Dichloroethene	J	>MDL<RL	0.26	µg/L	0.07	0.5

TABLE C-2

Omega Chemical Groundwater Monitoring Detected Results between the Method Detection Limit and the Reporting Limit

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit	MDL	RL
SOM01.2 TVOL	Y9LX1	Methyl tert-butyl ether	J	>MDL<RL	0.11	µg/L	0.04	0.5
SOM01.2 TVOL	Y9LX1	Tetrachloroethene	J	>MDL<RL	0.33	µg/L	0.028	0.5
SOM01.2 TVOL	Y9LX1	Trichloroethene	J	>MDL<RL	0.14	µg/L	0.049	0.5
SOM01.2 TVOL	Y9LX3	1,1,1-Trichloroethane	J	>MDL<RL	0.05	µg/L	0.03	0.5
SOM01.2 TVOL	Y9LX3	1,2-Dichloroethane	J	>MDL<RL	0.3	µg/L	0.09	0.5
SOM01.2 TVOL	Y9LX3	Carbon tetrachloride	J	>MDL<RL	0.12	µg/L	0.033	0.5
SOM01.2 TVOL	Y9LX4	1,1,1-Trichloroethane	J	>MDL<RL	0.078	µg/L	0.03	0.5
SOM01.2 TVOL	Y9LX4	Benzene	J	>MDL<RL	0.077	µg/L	0.037	0.5
SOM01.2 TVOL	Y9LX4	Carbon tetrachloride	J	>MDL<RL	0.066	µg/L	0.033	0.5
SOM01.2 TVOL	Y9LX4	Methyl tert-butyl ether	J	>MDL<RL	0.26	µg/L	0.04	0.5
SOM01.2 TVOL	Y9LX5	Methyl tert-butyl ether	J	>MDL<RL	0.11	µg/L	0.04	0.5
SOM01.2 TVOL	Y9LX6	Methyl tert-butyl ether	J	>MDL<RL	0.088	µg/L	0.04	0.5
SOM01.2 TVOL	Y9LX7	Trichloroethene	J	>MDL<RL	0.08	µg/L	0.049	0.5
SOM01.2 TVOL	Y9LX7	Trichlorofluoromethane (Freon 11)	J	>MDL<RL	0.082	µg/L	0.06	0.5
SOM01.2 TVOL	Y9LX8	Tetrachloroethene	J	>MDL<RL	0.098	µg/L	0.028	0.5
SOM01.2 TVOL	Y9LX8	Trichloroethene	J	>MDL<RL	0.11	µg/L	0.049	0.5
SOM01.2 TVOL	Y9LX8	Trichlorofluoromethane (Freon 11)	J	>MDL<RL	0.063	µg/L	0.06	0.5

Notes:

>MDL<RL = Detected result between the method detection limit and the reporting limit

µg/L = micrograms per liter

DV = Data Validation

MDL = Method detection limit

RL = Reporting limit

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
E218.6	Y8YY8	Chromium(VI)	J	>ICLinearRange	5.16	µg/L
E218.6	Y8YZ0	Chromium(VI)	J	>ICLinearRange	6.08	µg/L
E218.6	Y8YZ3	Chromium(VI)	J	>ICLinearRange	5.32	µg/L
E218.6	Y8Z01	Chromium(VI)	J	>ICLinearRange	5.93	µg/L
E218.6	Y8Z03	Chromium(VI)	J	>ICLinearRange	263	µg/L
E218.6	Y8Z08	Chromium(VI)	J	>ICLinearRange	5.62	µg/L
E218.6	Y8Z20	Chromium(VI)	J	MS<LCL, SD<LCL	0.198	µg/L
E218.6	Y8Z23	Chromium(VI)	J	>ICLinearRange	10.5	µg/L
E218.6	Y8Z43	Chromium(VI)	UJ	MS<LCL, SD<LCL	0.25	µg/L
E218.6	Y8Z48	Chromium(VI)	J	>ICLinearRange	10.3	µg/L
E218.6	Y8Z58	Chromium(VI)	R	MS<LCL, SD<LCL	0.05	µg/L
E218.6	Y8Z61	Chromium(VI)	J	SD<LCL	3.26	µg/L
E218.6	Y9LP8	Chromium(VI)	J	>ICLinearRange	6.51	µg/L
E218.6	Y9LQ0	Chromium(VI)	J-	MS<LCL, SD<LCL	8.23	µg/L
E218.6	Y9LQ1	Chromium(VI)	J-	MS<LCL, SD<LCL	8.62	µg/L
E218.6	Y9LQ2	Chromium(VI)	J-	MS<LCL, SD<LCL	25.6	µg/L
E218.6	Y9LQ4	Chromium(VI)	J-	MS<LCL, SD<LCL	42.7	µg/L
E218.6	Y9LQ5	Chromium(VI)	J-	MS<LCL, SD<LCL	7.3	µg/L
E218.6	Y9LQ6	Chromium(VI)	J-	MS<LCL, SD<LCL	7.75	µg/L
E218.6	Y9LQ7	Chromium(VI)	J-	MS<LCL, SD<LCL	7.85	µg/L
E218.6	Y9LQ8	Chromium(VI)	J-	MS<LCL, SD<LCL	6.09	µg/L
E218.6	Y9LQ9	Chromium(VI)	J-	MS<LCL, SD<LCL	8.39	µg/L
E218.6	Y9LR0	Chromium(VI)	J-	MS<LCL, SD<LCL	7.18	µg/L
E218.6	Y9LR1	Chromium(VI)	J-	MS<LCL, SD<LCL	4.06	µg/L
E218.6	Y9LR3	Chromium(VI)	J-	MS<LCL, SD<LCL	9.57	µg/L
E218.6	Y9LR4	Chromium(VI)	J-	MS<LCL, SD<LCL	8.29	µg/L
E218.6	Y9LR5	Chromium(VI)	J-	MS<LCL, SD<LCL	8.48	µg/L
E218.6	Y9LR6	Chromium(VI)	J-	MS<LCL, SD<LCL	7.64	µg/L
E218.6	Y9LR7	Chromium(VI)	J-	MS<LCL, SD<LCL	17.7	µg/L
E218.6	Y9LR8	Chromium(VI)	J-	MS<LCL, SD<LCL	18.1	µg/L
E218.6	Y9LR9	Chromium(VI)	J+	>ICLinearRange, CCV>UCL, LCS>UCL, LCSD>UCL	6.29	µg/L
E218.6	Y9LS0	Chromium(VI)	J+	CCV>UCL, LCS>UCL, LCSD>UCL	72.1	µg/L
E218.6	Y9LS1	Chromium(VI)	J+	CCV>UCL, LCS>UCL, LCSD>UCL	63.7	µg/L
E218.6	Y9LS2	Chromium(VI)	J+	CCV>UCL, LCS>UCL, LCSD>UCL	3.13	µg/L

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
E218.6	Y9LS3	Chromium(VI)	J+	>ICLinearRange, CCV>UCL, LCS>UCL, LCSD>UCL	10.3	µg/L
E218.6	Y9LS4	Chromium(VI)	J+	CCV>UCL, LCS>UCL, LCSD>UCL	4.91	µg/L
E218.6	Y9LS5	Chromium(VI)	J-	ICVS>UCL, MS<LCL, SD<LCL	7.9	µg/L
E218.6	Y9LS6	Chromium(VI)	UJ	ICVS>UCL, MS<LCL, SD<LCL	0.419	µg/L
E218.6	Y9LS7	Chromium(VI)	J-	ICVS>UCL, MS<LCL, SD<LCL	22.6	µg/L
E218.6	Y9LS8	Chromium(VI)	J-	ICVS>UCL, MS<LCL, SD<LCL	12.4	µg/L
E218.6	Y9LS9	Chromium(VI)	J-	ICVS>UCL, MS<LCL, SD<LCL	12.6	µg/L
E218.6	Y9LT0	Chromium(VI)	J-	ICVS>UCL, MS<LCL, SD<LCL	6.32	µg/L
E218.6	Y9LT1	Chromium(VI)	J-	ICVS>UCL, MS<LCL, SD<LCL	12.2	µg/L
E218.6	Y9LT3	Chromium(VI)	J+	ICVS>UCL, LCS>UCL, LCSD>UCL	3.68	µg/L
E218.6	Y9LT4	Chromium(VI)	J+	ICVS>UCL, LCS>UCL, LCSD>UCL	4.73	µg/L
E218.6	Y9LT5	Chromium(VI)	J+	>ICLinearRange, ICVS>UCL, LCS>UCL, LCSD>UCL	5.86	µg/L
E218.6	Y9LT6	Chromium(VI)	J+	>ICLinearRange, ICVS>UCL, LCS>UCL, LCSD>UCL	6.01	µg/L
E218.6	Y9LT7	Chromium(VI)	J+	>ICLinearRange, ICVS>UCL, LCS>UCL, LCSD>UCL	6.82	µg/L
E218.6	Y9LT8	Chromium(VI)	J+	ICVS>UCL, LCS>UCL, LCSD>UCL	1.74	µg/L
E218.6	Y9LT9	Chromium(VI)	J+	LCS>UCL, LCSD>UCL	7.45	µg/L
E218.6	Y9LW0	Chromium(VI)	J+	LCS>UCL, LCSD>UCL	7.18	µg/L
E218.6	Y9LW1	Chromium(VI)	J+	>ICLinearRange, LCS>UCL, LCSD>UCL	26.3	µg/L
E218.6	Y9LW2	Chromium(VI)	J+	>ICLinearRange, LCS>UCL, LCSD>UCL	11.7	µg/L
E218.6	Y9LW3	Chromium(VI)	J+	LCS>UCL, LCSD>UCL	1.01	µg/L
E218.6	Y9LW4	Chromium(VI)	J+	IC>RSD&R2, LCS>UCL	4.5	µg/L
E218.6	Y9LW5	Chromium(VI)	UJ	IC>RSD&R2	0.5	µg/L
E218.6	Y9LW6	Chromium(VI)	UJ	IC>RSD&R2	0.235	µg/L
E218.6	Y9LW7	Chromium(VI)	UJ	IC>RSD&R2	0.5	µg/L
E218.6	Y9LW8	Chromium(VI)	UJ	IC>RSD&R2	0.5	µg/L
E218.6	Y9LW9	Chromium(VI)	J+	IC>RSD&R2, LCS>UCL	4.44	µg/L
E218.6	Y9LX0	Chromium(VI)	J+	IC>RSD&R2, LCS>UCL	3.8	µg/L
E218.6	Y9LX1	Chromium(VI)	J-	IC>RSD&R2, CCV<LCL, LCS<LCL, LCSD<LCL	2.57	µg/L
E218.6	Y9LX2	Chromium(VI)	UJ	LCS<LCL, LCSD<LCL, MS<LCL, SD<LCL	0.5	µg/L
E218.6	Y9LX3	Chromium(VI)	J-	LCS<LCL, LCSD<LCL, MS<LCL, SD<LCL	3.92	µg/L
E218.6	Y9LX4	Chromium(VI)	J-	>ICLinearRange, LCS<LCL, LCSD<LCL, MS<LCL, SD<LCL	5.07	µg/L

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
E218.6	Y9LX5	Chromium(VI)	UJ	LCS<LCL, LCSD<LCL, MS<LCL, SD<LCL	0.5	µg/L
E218.6	Y9LX6	Chromium(VI)	J-	>ICLinearRange, LCS<LCL, LCSD<LCL, MS<LCL, SD<LCL	6.96	µg/L
E218.6	Y9LX7	Chromium(VI)	J-	LCS<LCL, LCSD<LCL, MS<LCL, SD<LCL	3.43	µg/L
E218.6	Y9LX8	Chromium(VI)	J-	LCS<LCL, LCSD<LCL, MS<LCL, SD<LCL	3.67	µg/L
SOM01.2 SIMSVOL	Y8HG1	1,4-Dioxane (p-dioxane)	UJ	HT>UCL	0.5	µg/L
SOM01.2 SIMSVOL	Y8HH9	1,4-Dioxane (p-dioxane)	UJ	HT>UCL	0.5	µg/L
SOM01.2 SIMSVOL	Y8Z61	1,4-Dioxane (p-dioxane)	U	FB<RL	0.5	µg/L
SOM01.2 SIMSVOL	Y8Z62	1,4-Dioxane (p-dioxane)	U	FB<RL	0.5	µg/L
SOM01.2 SIMVOL	Y8HG1	1,2-Dibromo-3-chloropropane	UJ	HT>UCL	0.05	µg/L
SOM01.2 SIMVOL	Y8HG1	1,2-Dibromoethane	UJ	SUR<LCL	0.05	µg/L
SOM01.2 SIMVOL	Y8HH9	1,2-Dibromo-3-chloropropane	UJ	HT>UCL	0.05	µg/L
SOM01.2 SIMVOL	Y8HH9	1,2-Dibromoethane	UJ	SUR<LCL	0.05	µg/L
SOM01.2 TVOL	Y88B6	1,1,1-Trichloroethane	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88B6	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	SUR<LCL	38	µg/L
SOM01.2 TVOL	Y88B6	1,1-Dichloroethene	J	SUR>UCL	10	µg/L
SOM01.2 TVOL	Y88B6	1,2-Dibromoethane	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88B6	1,2-Dichloroethane	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88B6	Carbon tetrachloride	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88B6	Methyl acetate	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88B6	Methylene chloride	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88B6	Trichlorofluoromethane (Freon 11)	J	SUR<LCL	23	µg/L
SOM01.2 TVOL	Y88B7	1,1-Dichloroethene	J	SUR>UCL	11	µg/L
SOM01.2 TVOL	Y88B9	Acetone	R	RRF<LCL	5	µg/L
SOM01.2 TVOL	Y88C0	Acetone	R	RRF<LCL	5	µg/L
SOM01.2 TVOL	Y88C1	Acetone	R	RRF<LCL	5	µg/L
SOM01.2 TVOL	Y88C1	Chloroform	U	FB>RL	0.5	µg/L
SOM01.2 TVOL	Y88C2	Acetone	R	RRF<LCL	5	µg/L
SOM01.2 TVOL	Y88C3	Acetone	R	RRF<LCL	5	µg/L
SOM01.2 TVOL	Y88C4	1,1-Dichloroethene	J	Sur>UCL	12	µg/L
SOM01.2 TVOL	Y88C4	Acetone	R	RRF<LCL	5	µg/L
SOM01.2 TVOL	Y88C4	Chloroform	U	FB>RL	0.73	µg/L
SOM01.2 TVOL	Y88C4	cis-1,2-Dichloroethene	J	Sur>UCL	2.6	µg/L
SOM01.2 TVOL	Y88C5	Acetone	R	RRF<LCL	5	µg/L
SOM01.2 TVOL	Y88C5	cis-1,2-Dichloroethene	J	Sur>UCL	6.7	µg/L

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
SOM01.2 TVOL	Y88C5	trans-1,2-Dichloroethene	J	Sur>UCL	0.23	µg/L
SOM01.2 TVOL	Y88C6	Acetone	R	RRF<LCL	10	µg/L
SOM01.2 TVOL	Y88C6	cis-1,2-Dichloroethene	J	Sur>UCL	17	µg/L
SOM01.2 TVOL	Y88C6	trans-1,2-Dichloroethene	J	Sur>UCL	0.32	µg/L
SOM01.2 TVOL	Y88C8	1,2-Dichloroethane	J	Sur>UCL	0.29	µg/L
SOM01.2 TVOL	Y88C8	Acetone	R	RRF<LCL	5	µg/L
SOM01.2 TVOL	Y88C8	cis-1,2-Dichloroethene	J	Sur>UCL	6.6	µg/L
SOM01.2 TVOL	Y88C8	trans-1,2-Dichloroethene	J	Sur>UCL	0.22	µg/L
SOM01.2 TVOL	Y88C9	Acetone	R	RRF<LCL	5	µg/L
SOM01.2 TVOL	Y88C9	cis-1,2-Dichloroethene	J	Sur>UCL	6.7	µg/L
SOM01.2 TVOL	Y88C9	trans-1,2-Dichloroethene	J	Sur>UCL	0.23	µg/L
SOM01.2 TVOL	Y88D0	1,1-Dichloroethene	J	Sur>UCL	16	µg/L
SOM01.2 TVOL	Y88D0	Acetone	R	RRF<LCL	5	µg/L
SOM01.2 TVOL	Y88D0	cis-1,2-Dichloroethene	J	Sur>UCL	5.3	µg/L
SOM01.2 TVOL	Y88D1	Acetone	R	RRF<LCL	10	µg/L
SOM01.2 TVOL	Y88D1	trans-1,2-Dichloroethene	J	Sur>UCL	1.1	µg/L
SOM01.2 TVOL	Y88D2	Acetone	R	RRF<LCL	10	µg/L
SOM01.2 TVOL	Y88D2	cis-1,2-Dichloroethene	J	Sur>UCL	27	µg/L
SOM01.2 TVOL	Y88D2	trans-1,2-Dichloroethene	J	Sur>UCL	0.42	µg/L
SOM01.2 TVOL	Y88D3	Acetone	R	RRF<LCL	5	µg/L
SOM01.2 TVOL	Y88D3	Chloroform	U	FB>RL	3	µg/L
SOM01.2 TVOL	Y88D4	Acetone	R	RRF<LCL	5	µg/L
SOM01.2 TVOL	Y88D4	Chloroform	U	FB>RL	0.55	µg/L
SOM01.2 TVOL	Y88D6	1,2,3-Trichlorobenzene	UJ	CCV>LCL	0.5	µg/L
SOM01.2 TVOL	Y88D7	1,1-Dichloroethene	J	SUR>UCL	13	µg/L
SOM01.2 TVOL	Y88D7	1,2,3-Trichlorobenzene	UJ	CCV>LCL	0.5	µg/L
SOM01.2 TVOL	Y88D7	cis-1,2-Dichloroethene	J	SUR>UCL	4.2	µg/L
SOM01.2 TVOL	Y88D8	1,1-Dichloroethene	J	SUR>UCL	26	µg/L
SOM01.2 TVOL	Y88D8	1,2,3-Trichlorobenzene	UJ	CCV>LCL	0.5	µg/L
SOM01.2 TVOL	Y88D8	cis-1,2-Dichloroethene	J	SUR>UCL	8.4	µg/L
SOM01.2 TVOL	Y88D9	1,2,3-Trichlorobenzene	UJ	CCV>LCL	0.5	µg/L
SOM01.2 TVOL	Y88E0	1,1-Dichloroethene	J	SUR>UCL	16	µg/L
SOM01.2 TVOL	Y88E0	1,2,3-Trichlorobenzene	UJ	CCV>LCL	0.5	µg/L
SOM01.2 TVOL	Y88E0	cis-1,2-Dichloroethene	J	SUR>UCL	0.78	µg/L
SOM01.2 TVOL	Y88E1	1,1-Dichloroethene	J	SUR>UCL	16	µg/L

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
SOM01.2 TVOL	Y88E1	1,2,3-Trichlorobenzene	UJ	CCV>LCL	0.5	µg/L
SOM01.2 TVOL	Y88E1	cis-1,2-Dichloroethene	J	SUR>UCL	0.71	µg/L
SOM01.2 TVOL	Y88E3	1,1-Dichloroethene	J	SUR>UCL	45	µg/L
SOM01.2 TVOL	Y88E3	cis-1,2-Dichloroethene	J	SUR>UCL	23	µg/L
SOM01.2 TVOL	Y88E5	1,2,3-Trichlorobenzene	UJ	CCV>LCL	0.5	µg/L
SOM01.2 TVOL	Y88E6	1,2,3-Trichlorobenzene	UJ	CCV>LCL	0.5	µg/L
SOM01.2 TVOL	Y88E9	1,2,3-Trichlorobenzene	UJ	CCV>LCL	0.5	µg/L
SOM01.2 TVOL	Y88F1	Chloromethane	J	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88F5	1,1-Dichloroethene	J	SUR>UCL	17	µg/L
SOM01.2 TVOL	Y88F6	1,1-Dichloroethene	J	SUR>UCL	12	µg/L
SOM01.2 TVOL	Y88G1	Vinyl chloride	UJ	SUR<LCL	1	µg/L
SOM01.2 TVOL	Y88H0	1,1-Dichloroethene	J	SUR>UCL	78	µg/L
SOM01.2 TVOL	Y88H1	1,1-Dichloroethene	J	SUR>UCL	190	µg/L
SOM01.2 TVOL	Y88H1	cis-1,2-Dichloroethene	J	SUR>UCL	19	µg/L
SOM01.2 TVOL	Y88H2	1,1-Dichloroethene	J	SUR>UCL	280	µg/L
SOM01.2 TVOL	Y88H2	cis-1,2-Dichloroethene	J	SUR>UCL	88	µg/L
SOM01.2 TVOL	Y88H3	1,1-Dichloroethene	J	SUR>UCL	71	µg/L
SOM01.2 TVOL	Y88H3	cis-1,2-Dichloroethene	J	SUR>UCL	8.7	µg/L
SOM01.2 TVOL	Y88H4	1,1,1-Trichloroethane	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88H4	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88H4	1,2-Dibromoethane	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88H4	1,2-Dichloroethane	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88H4	Carbon tetrachloride	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88H4	Methyl acetate	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88H4	Methyl tert-butyl ether	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88H4	Methylene chloride	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88H4	Trichlorofluoromethane (Freon 11)	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88H7	1,1,1-Trichloroethane	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88H7	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88H7	1,2-Dibromoethane	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88H7	1,2-Dichloroethane	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88H7	Carbon tetrachloride	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88H7	Methyl acetate	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88H7	Methyl tert-butyl ether	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88H7	Methylene chloride	UJ	SUR<LCL	0.5	µg/L

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
SOM01.2 TVOL	Y88H7	Trichloroethene	U	SB<RL	0.5	µg/L
SOM01.2 TVOL	Y88H7	Trichlorofluoromethane (Freon 11)	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y88H9	1,1-Dichloroethene	J	SUR>UCL	32	µg/L
SOM01.2 TVOL	Y88J0	Tetrachloroethene	U	SB<RL	0.5	µg/L
SOM01.2 TVOL	Y88J1	1,1-Dichloroethene	J	SUR>UCL	62	µg/L
SOM01.2 TVOL	Y88J1	cis-1,2-Dichloroethene	J	SUR>UCL	2.6	µg/L
SOM01.2 TVOL	Y88J2	Tetrachloroethene	U	SB<RL	0.5	µg/L
SOM01.2 TVOL	Y88J2	Trichloroethene	U	SB<RL	0.5	µg/L
SOM01.2 TVOL	Y88J3	1,1-Dichloroethene	J	SUR>UCL	74	µg/L
SOM01.2 TVOL	Y88J3	cis-1,2-Dichloroethene	J	SUR>UCL	25	µg/L
SOM01.2 TVOL	Y88J5	Trichloroethene	U	SB<RL	0.5	µg/L
SOM01.2 TVOL	Y88J6	1,1-Dichloroethene	J	SUR>UCL	270	µg/L
SOM01.2 TVOL	Y88J6	trans-1,2-Dichloroethene	UJ	SUR<LCL	2.5	µg/L
SOM01.2 TVOL	Y88J8	1,1-Dichloroethene	J	SUR>UCL	140	µg/L
SOM01.2 TVOL	Y88J8	cis-1,2-Dichloroethene	J	SUR>UCL	4.6	µg/L
SOM01.2 TVOL	Y88J9	1,1-Dichloroethene	J	SUR>UCL	150	µg/L
SOM01.2 TVOL	Y88J9	cis-1,2-Dichloroethene	J	SUR>UCL	4.9	µg/L
SOM01.2 TVOL	Y88K0	1,1-Dichloroethene	J	SUR>UCL	110	µg/L
SOM01.2 TVOL	Y88K0	cis-1,2-Dichloroethene	J	SUR>UCL	5.5	µg/L
SOM01.2 TVOL	Y88K1	1,1-Dichloroethene	J	SUR>UCL	120	µg/L
SOM01.2 TVOL	Y88K1	cis-1,2-Dichloroethene	J	SUR>UCL	9.5	µg/L
SOM01.2 TVOL	Y8HG3	1,1-Dichloroethane	J	SUR>UCL	1.1	µg/L
SOM01.2 TVOL	Y8HG3	Chloroform	J	SUR<LCL	48	µg/L
SOM01.2 TVOL	Y8HG7	1,1-Dichloroethene	J	SUR>UCL	80	µg/L
SOM01.2 TVOL	Y8HG8	1,1-Dichloroethene	J	SUR>UCL	120	µg/L
SOM01.2 TVOL	Y8HG8	cis-1,2-Dichloroethene	J	SUR>UCL	20	µg/L
SOM01.2 TVOL	Y8HG8	trans-1,2-Dichloroethene	J	SUR>UCL	0.88	µg/L
SOM01.2 TVOL	Y8HH1	1,1-Dichloroethene	J	SUR>UCL	100	µg/L
SOM01.2 TVOL	Y8HH1	cis-1,2-Dichloroethene	J	SUR>UCL	4	µg/L
SOM01.2 TVOL	Y8HH3	1,1-Dichloroethane	J	SUR>UCL	1.2	µg/L
SOM01.2 TVOL	Y8HH3	1,1-Dichloroethene	J	SUR>UCL	220	µg/L
SOM01.2 TVOL	Y8HH3	Chloroform	J	SUR<LCL	52	µg/L
SOM01.2 TVOL	Y8HH3	cis-1,2-Dichloroethene	J	SUR>UCL	10	µg/L
SOM01.2 TVOL	Y8HH3	trans-1,2-Dichloroethene	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HH4	1,1-Dichloroethane	J	SUR>UCL	1.2	µg/L

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
SOM01.2 TVOL	Y8HH4	1,1-Dichloroethene	J	SUR>UCL	180	µg/L
SOM01.2 TVOL	Y8HH4	Chloroform	J	SUR<LCL	39	µg/L
SOM01.2 TVOL	Y8HH4	cis-1,2-Dichloroethene	J	SUR>UCL	14	µg/L
SOM01.2 TVOL	Y8HH4	trans-1,2-Dichloroethene	J	SUR>UCL	0.75	µg/L
SOM01.2 TVOL	Y8HH6	1,1-Dichloroethane	J	SUR>UCL	0.82	µg/L
SOM01.2 TVOL	Y8HH6	1,1-Dichloroethene	J	SUR>UCL	120	µg/L
SOM01.2 TVOL	Y8HH6	Chloroform	J	SUR<LCL	34	µg/L
SOM01.2 TVOL	Y8HH6	cis-1,2-Dichloroethene	J	SUR>UCL	8.1	µg/L
SOM01.2 TVOL	Y8HH6	trans-1,2-Dichloroethene	J	SUR>UCL	0.86	µg/L
SOM01.2 TVOL	Y8HH7	1,1-Dichloroethene	J	SUR>UCL	88	µg/L
SOM01.2 TVOL	Y8HH7	cis-1,2-Dichloroethene	J	SUR>UCL	5.6	µg/L
SOM01.2 TVOL	Y8HH7	trans-1,2-Dichloroethene	J	SUR>UCL	0.78	µg/L
SOM01.2 TVOL	Y8HJ4	1,1-Dichloroethene	J	SUR>UCL	270	µg/L
SOM01.2 TVOL	Y8HK5	1,1,1-Trichloroethane	UJ	CCV<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HK5	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	UJ	CCV<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HK5	1,2-Dibromoethane	UJ	CCV<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HK5	1,2-Dichloroethane	UJ	CCV<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HK5	Carbon tetrachloride	UJ	CCV<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HK5	Methyl acetate	UJ	CCV<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HK5	Methyl tert-butyl ether	UJ	CCV<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HK5	Methylene chloride	UJ	CCV<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HK5	Trichlorofluoromethane (Freon 11)	UJ	CCV<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HK8	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	CCV<LCL	33	µg/L
SOM01.2 TVOL	Y8HK8	Trichloroethene	J	CCV>UCL	77	µg/L
SOM01.2 TVOL	Y8HK8	Trichlorofluoromethane (Freon 11)	J	CCV<LCL	21	µg/L
SOM01.2 TVOL	Y8HK9	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	CCV<LCL	69	µg/L
SOM01.2 TVOL	Y8HK9	Trichloroethene	J	CCV>UCL	150	µg/L
SOM01.2 TVOL	Y8HK9	Trichlorofluoromethane (Freon 11)	J	CCV<LCL	36	µg/L
SOM01.2 TVOL	Y8HL0	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	CCV<LCL	43	µg/L
SOM01.2 TVOL	Y8HL0	Trichloroethene	J	CCV>UCL	130	µg/L
SOM01.2 TVOL	Y8HL0	Trichlorofluoromethane (Freon 11)	J	CCV<LCL	25	µg/L
SOM01.2 TVOL	Y8HL1	1,1,1-Trichloroethane	UJ	CCV<LCL, Sur<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HL1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	UJ	CCV<LCL, Sur<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HL1	1,2-Dibromoethane	UJ	CCV<LCL, Sur<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HL1	1,2-Dichloroethane	UJ	CCV<LCL, Sur<LCL	0.5	µg/L

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
SOM01.2 TVOL	Y8HL1	Carbon tetrachloride	UJ	CCV<LCL, Sur<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HL1	Methyl acetate	UJ	CCV<LCL, Sur<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HL1	Methyl tert-butyl ether	UJ	CCV<LCL, Sur<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HL1	Methylene chloride	UJ	CCV<LCL, Sur<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HL1	Trichloroethene	J	CCV>UCL	16	µg/L
SOM01.2 TVOL	Y8HL1	Trichlorofluoromethane (Freon 11)	UJ	CCV<LCL, Sur<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HL2	Trichloroethene	J	CCV>UCL	41	µg/L
SOM01.2 TVOL	Y8HL3	Trichloroethene	J	CCV>UCL	50	µg/L
SOM01.2 TVOL	Y8HL5	Trichloroethene	J	CCV>UCL	28	µg/L
SOM01.2 TVOL	Y8HL6	Trichloroethene	J	CCV>UCL	28	µg/L
SOM01.2 TVOL	Y8HL7	Trichloroethene	J	CCV>UCL	23	µg/L
SOM01.2 TVOL	Y8HL8	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	CCV<LCL	24	µg/L
SOM01.2 TVOL	Y8HL8	Trichloroethene	J	CCV>UCL	130	µg/L
SOM01.2 TVOL	Y8HL9	Dichlorodifluoromethane (Freon 12)	J	Sur>UCL	2.2	µg/L
SOM01.2 TVOL	Y8HL9	Trichloroethene	J	CCV>UCL	240	µg/L
SOM01.2 TVOL	Y8HM0	1,1,1-Trichloroethane	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HM0	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	SUR<LCL	20	µg/L
SOM01.2 TVOL	Y8HM0	1,2-Dibromoethane	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HM0	1,2-Dichloroethane	J	SUR<LCL	1.9	µg/L
SOM01.2 TVOL	Y8HM0	Carbon tetrachloride	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HM0	Methyl acetate	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HM0	Methyl tert-butyl ether	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HM0	Methylene chloride	UJ	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HM0	Trichloroethene	J	CCV<LCL	65	µg/L
SOM01.2 TVOL	Y8HM0	Trichlorofluoromethane (Freon 11)	J	SUR<LCL	9.1	µg/L
SOM01.2 TVOL	Y8HM4	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	SUR<LCL	220	µg/L
SOM01.2 TVOL	Y8HM4	1,1-Dichloroethane	J	SUR>UCL	1.2	µg/L
SOM01.2 TVOL	Y8HM4	1,1-Dichloroethene	J	SUR>UCL	240	µg/L
SOM01.2 TVOL	Y8HM4	Chloroform	J	SUR>UCL	52	µg/L
SOM01.2 TVOL	Y8HM4	cis-1,2-Dichloroethene	J	SUR>UCL	11	µg/L
SOM01.2 TVOL	Y8HM4	Trichloroethene	J	CCV<LCL	330	µg/L
SOM01.2 TVOL	Y8HM4	Trichlorofluoromethane (Freon 11)	J	SUR<LCL	110	µg/L
SOM01.2 TVOL	Y8HM5	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	SUR<LCL	23	µg/L
SOM01.2 TVOL	Y8HM5	1,1-Dichloroethane	J	SUR>UCL	1.1	µg/L
SOM01.2 TVOL	Y8HM5	Chloroform	J	SUR>UCL	39	µg/L

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
SOM01.2 TVOL	Y8HM8	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	SUR<LCL	69	µg/L
SOM01.2 TVOL	Y8HM8	1,1-Dichloroethene	J	SUR>UCL	95	µg/L
SOM01.2 TVOL	Y8HM8	cis-1,2-Dichloroethene	J	SUR>UCL	15	µg/L
SOM01.2 TVOL	Y8HM8	Trichlorofluoromethane (Freon 11)	J	SUR<LCL	37	µg/L
SOM01.2 TVOL	Y8HM9	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	SUR<LCL	120	µg/L
SOM01.2 TVOL	Y8HM9	1,1-Dichloroethane	J	SUR>UCL	2.7	µg/L
SOM01.2 TVOL	Y8HM9	1,1-Dichloroethene	J	SUR>UCL	280	µg/L
SOM01.2 TVOL	Y8HM9	Chloroform	J	SUR>UCL	73	µg/L
SOM01.2 TVOL	Y8HM9	cis-1,2-Dichloroethene	J	SUR>UCL	28	µg/L
SOM01.2 TVOL	Y8HM9	Trichlorofluoromethane (Freon 11)	UJ	SUR<LCL	80	µg/L
SOM01.2 TVOL	Y8HN0	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	SUR<LCL	52	µg/L
SOM01.2 TVOL	Y8HN1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	SUR<LCL	48	µg/L
SOM01.2 TVOL	Y8HN1	Trichlorofluoromethane (Freon 11)	J	SUR<LCL	20	µg/L
SOM01.2 TVOL	Y8HN2	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	SUR<LCL	43	µg/L
SOM01.2 TVOL	Y8HN2	1,2-Dichloroethane	J	SUR<LCL	0.5	µg/L
SOM01.2 TVOL	Y8HN2	Trichlorofluoromethane (Freon 11)	J	SUR<LCL	22	µg/L
SOM01.2 TVOL	Y8HN8	Trichloroethene	J	CCV<LCL	8.5	µg/L
SOM01.2 TVOL	Y8HN9	Trichloroethene	J	CCV<LCL	8.4	µg/L
SOM01.2 TVOL	Y8HP1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	J	SUR<LCL	95	µg/L
SOM01.2 TVOL	Y8HP1	1,1-Dichloroethene	J	SUR>UCL	110	µg/L
SOM01.2 TVOL	Y8HP1	cis-1,2-Dichloroethene	J	SUR>UCL	8.2	µg/L
SOM01.2 TVOL	Y8HP1	Trichloroethene	J	CCV>UCL	250	µg/L
SOM01.2 TVOL	Y8HP1	Trichlorofluoromethane (Freon 11)	J	SUR<LCL	45	µg/L
SOM01.2 TVOL	Y8HP2	Trichloroethene	J	CCV>UCL	250	µg/L
SOM01.2 TVOL	Y8HP4	1,1-Dichloroethene	J	SUR>UCL	1.2	µg/L
SOM01.2 TVOL	Y8HP4	cis-1,2-Dichloroethene	J	Sur>UCL	0.68	µg/L
SOM01.2 TVOL	Y8HP6	1,1-Dichloroethene	J	Sur>UCL	7.2	µg/L
SOM01.2 TVOL	Y8HP6	cis-1,2-Dichloroethene	J	Sur>UCL	2.4	µg/L
SOM01.2 TVOL	Y8YY5	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8YY5	Tetrachloroethene	U	SB<RL	0.5	µg/L
SOM01.2 TVOL	Y8YY6	1,1-Dichloroethene	J	SUR>UCL	7.7	µg/L
SOM01.2 TVOL	Y8YY6	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8YY7	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8YY8	1,1-Dichloroethene	J	SUR>UCL	89	µg/L
SOM01.2 TVOL	Y8YY8	Isopropanol	R	IC RRF, RRF<LCL	50	µg/L

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
SOM01.2 TVOL	Y8YY8	trans-1,2-Dichloroethene	UJ	SUR<LCL	1	µg/L
SOM01.2 TVOL	Y8YZ0	1,1-Dichloroethene	J	SUR>UCL	21	µg/L
SOM01.2 TVOL	Y8YZ0	cis-1,2-Dichloroethene	J	SUR>UCL	0.51	µg/L
SOM01.2 TVOL	Y8YZ0	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8YZ1	1,1-Dichloroethene	J	SUR>UCL	210	µg/L
SOM01.2 TVOL	Y8YZ1	cis-1,2-Dichloroethene	J	SUR>UCL	50	µg/L
SOM01.2 TVOL	Y8YZ1	Isopropanol	R	IC RRF, RRF<LCL	500	µg/L
SOM01.2 TVOL	Y8YZ2	1,1-Dichloroethene	J	SUR>UCL	55	µg/L
SOM01.2 TVOL	Y8YZ2	cis-1,2-Dichloroethene	J	SUR>UCL	40	µg/L
SOM01.2 TVOL	Y8YZ2	Isopropanol	R	IC RRF, RRF<LCL	130	µg/L
SOM01.2 TVOL	Y8YZ3	1,1-Dichloroethene	J	SUR>UCL	57	µg/L
SOM01.2 TVOL	Y8YZ3	Isopropanol	R	IC RRF, RRF<LCL	50	µg/L
SOM01.2 TVOL	Y8YZ3	trans-1,2-Dichloroethene	UJ	SUR<LCL	1	µg/L
SOM01.2 TVOL	Y8YZ4	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8YZ6	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8YZ7	1,1-Dichloroethene	J	SUR>UCL	68	µg/L
SOM01.2 TVOL	Y8YZ7	cis-1,2-Dichloroethene	J	SUR>UCL	5.7	µg/L
SOM01.2 TVOL	Y8YZ7	Isopropanol	R	IC RRF, RRF<LCL	50	µg/L
SOM01.2 TVOL	Y8YZ8	1,1-Dichloroethene	J	SUR>UCL	120	µg/L
SOM01.2 TVOL	Y8YZ8	cis-1,2-Dichloroethene	J	SUR>UCL	13	µg/L
SOM01.2 TVOL	Y8YZ8	Isopropanol	R	IC RRF, RRF<LCL	130	µg/L
SOM01.2 TVOL	Y8YZ9	1,1-Dichloroethene	J	SUR>UCL	17	µg/L
SOM01.2 TVOL	Y8YZ9	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z00	1,1-Dichloroethene	J	SUR>UCL	17	µg/L
SOM01.2 TVOL	Y8Z00	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z01	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z03	1,1-Dichloroethene	J	SUR>UCL	48	µg/L
SOM01.2 TVOL	Y8Z03	cis-1,2-Dichloroethene	J	SUR>UCL	4.5	µg/L
SOM01.2 TVOL	Y8Z03	Isopropanol	R	IC RRF, RRF<LCL	50	µg/L
SOM01.2 TVOL	Y8Z04	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z05	Isopropanol	R	IC RRF, RRF<LCL	250	µg/L
SOM01.2 TVOL	Y8Z05	Tetrachloroethene	U	SB<RL	5	µg/L
SOM01.2 TVOL	Y8Z07	1,1-Dichloroethene	J	SUR>UCL	23	µg/L
SOM01.2 TVOL	Y8Z07	cis-1,2-Dichloroethene	J	SUR>UCL	1.1	µg/L
SOM01.2 TVOL	Y8Z07	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
SOM01.2 TVOL	Y8Z08	1,1-Dichloroethene	J	SUR>UCL	53	µg/L
SOM01.2 TVOL	Y8Z08	cis-1,2-Dichloroethene	J	SUR>UCL	3	µg/L
SOM01.2 TVOL	Y8Z08	Isopropanol	R	IC RRF, RRF<LCL	50	µg/L
SOM01.2 TVOL	Y8Z08	trans-1,2-Dichloroethene	UJ	SUR<LCL	1	µg/L
SOM01.2 TVOL	Y8Z09	1,1-Dichloroethene	J	SUR>UCL	240	µg/L
SOM01.2 TVOL	Y8Z09	cis-1,2-Dichloroethene	J	SUR>UCL	11	µg/L
SOM01.2 TVOL	Y8Z09	Isopropanol	R	IC RRF, RRF<LCL	130	µg/L
SOM01.2 TVOL	Y8Z10	1,1-Dichloroethene	J	SUR>UCL	260	µg/L
SOM01.2 TVOL	Y8Z10	cis-1,2-Dichloroethene	J	SUR>UCL	12	µg/L
SOM01.2 TVOL	Y8Z10	Isopropanol	R	IC RRF, RRF<LCL	130	µg/L
SOM01.2 TVOL	Y8Z11	1,1-Dichloroethene	J	SUR>UCL	150	µg/L
SOM01.2 TVOL	Y8Z11	cis-1,2-Dichloroethene	J	SUR>UCL	20	µg/L
SOM01.2 TVOL	Y8Z11	Isopropanol	R	IC RRF, RRF<LCL	130	µg/L
SOM01.2 TVOL	Y8Z13	cis-1,2-Dichloroethene	J	SUR>UCL	0.5	µg/L
SOM01.2 TVOL	Y8Z13	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z14	1,1-Dichloroethene	J	SUR>UCL	78	µg/L
SOM01.2 TVOL	Y8Z14	cis-1,2-Dichloroethene	J	SUR>UCL	8.9	µg/L
SOM01.2 TVOL	Y8Z14	Isopropanol	R	IC RRF, RRF<LCL	100	µg/L
SOM01.2 TVOL	Y8Z15	1,1-Dichloroethene	J	SUR>UCL	52	µg/L
SOM01.2 TVOL	Y8Z15	cis-1,2-Dichloroethene	J	SUR>UCL	4.1	µg/L
SOM01.2 TVOL	Y8Z15	Isopropanol	R	IC RRF, RRF<LCL	50	µg/L
SOM01.2 TVOL	Y8Z16	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z17	1,1-Dichloroethene	J	SUR>UCL	39	µg/L
SOM01.2 TVOL	Y8Z17	cis-1,2-Dichloroethene	J	SUR>UCL	4.1	µg/L
SOM01.2 TVOL	Y8Z17	Isopropanol	R	IC RRF, RRF<LCL	50	µg/L
SOM01.2 TVOL	Y8Z19	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z19	Tetrachloroethene	U	SB<RL	0.5	µg/L
SOM01.2 TVOL	Y8Z20	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z21	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z22	1,1-Dichloroethene	J	SUR>UCL	250	µg/L
SOM01.2 TVOL	Y8Z22	cis-1,2-Dichloroethene	J	SUR>UCL	13	µg/L
SOM01.2 TVOL	Y8Z22	Isopropanol	R	IC RRF, RRF<LCL	130	µg/L
SOM01.2 TVOL	Y8Z23	1,1-Dichloroethene	J	SUR>UCL	180	µg/L
SOM01.2 TVOL	Y8Z23	cis-1,2-Dichloroethene	J	SUR>UCL	10	µg/L
SOM01.2 TVOL	Y8Z23	Isopropanol	R	IC RRF, RRF<LCL	130	µg/L

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
SOM01.2 TVOL	Y8Z24	1,1-Dichloroethene	J	SUR>UCL	82	µg/L
SOM01.2 TVOL	Y8Z24	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z25	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z27	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z28	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z29	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z30	1,1-Dichloroethene	J	SUR>UCL	440	µg/L
SOM01.2 TVOL	Y8Z30	cis-1,2-Dichloroethene	UJ	SUR>UCL	2.5	µg/L
SOM01.2 TVOL	Y8Z30	Isopropanol	R	IC RRF, RRF<LCL	130	µg/L
SOM01.2 TVOL	Y8Z31	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z32	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z34	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z35	1,1-Dichloroethene	J	SUR>UCL	28	µg/L
SOM01.2 TVOL	Y8Z35	cis-1,2-Dichloroethene	J	SUR>UCL	4.2	µg/L
SOM01.2 TVOL	Y8Z35	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z36	1,1-Dichloroethene	J	SUR>UCL	62	µg/L
SOM01.2 TVOL	Y8Z36	cis-1,2-Dichloroethene	J	SUR>UCL	5.6	µg/L
SOM01.2 TVOL	Y8Z36	Isopropanol	R	IC RRF, RRF<LCL	50	µg/L
SOM01.2 TVOL	Y8Z37	1,1-Dichloroethene	J	SUR>UCL	60	µg/L
SOM01.2 TVOL	Y8Z37	cis-1,2-Dichloroethene	J	SUR>UCL	5.5	µg/L
SOM01.2 TVOL	Y8Z37	Isopropanol	R	IC RRF, RRF<LCL	50	µg/L
SOM01.2 TVOL	Y8Z38	1,1-Dichloroethene	J	SUR>UCL	69	µg/L
SOM01.2 TVOL	Y8Z38	cis-1,2-Dichloroethene	J	SUR>UCL	7.8	µg/L
SOM01.2 TVOL	Y8Z38	Isopropanol	R	IC RRF, RRF<LCL	50	µg/L
SOM01.2 TVOL	Y8Z40	1,1-Dichloroethene	J	SUR>UCL	47	µg/L
SOM01.2 TVOL	Y8Z40	cis-1,2-Dichloroethene	J	SUR>UCL	3.8	µg/L
SOM01.2 TVOL	Y8Z40	Isopropanol	R	IC RRF, RRF<LCL	50	µg/L
SOM01.2 TVOL	Y8Z41	1,1-Dichloroethene	J	SUR>UCL	36	µg/L
SOM01.2 TVOL	Y8Z41	cis-1,2-Dichloroethene	J	SUR>UCL	13	µg/L
SOM01.2 TVOL	Y8Z41	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z42	1,1-Dichloroethene	J	SUR>UCL	26	µg/L
SOM01.2 TVOL	Y8Z42	cis-1,2-Dichloroethene	J	SUR>UCL	10	µg/L
SOM01.2 TVOL	Y8Z42	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z43	Isopropanol	R	IC RRF, RRF<LCL	50	µg/L
SOM01.2 TVOL	Y8Z43	Tetrachloroethene	U	SB<RL	1	µg/L

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
SOM01.2 TVOL	Y8Z43	trans-1,2-Dichloroethene	J	Sur>UCL	1.3	µg/L
SOM01.2 TVOL	Y8Z44	Bromomethane	UJ	CCV<LCL	1	µg/L
SOM01.2 TVOL	Y8Z44	cis-1,2-Dichloroethene	J	Sur>UCL	23	µg/L
SOM01.2 TVOL	Y8Z44	Isopropanol	R	IC RRF, RRF<LCL	50	µg/L
SOM01.2 TVOL	Y8Z44	trans-1,2-Dichloroethene	J	Sur>UCL	0.73	µg/L
SOM01.2 TVOL	Y8Z45	Bromomethane	UJ	CCV<LCL	1	µg/L
SOM01.2 TVOL	Y8Z45	cis-1,2-Dichloroethene	J	Sur>UCL	23	µg/L
SOM01.2 TVOL	Y8Z45	Isopropanol	R	IC RRF, RRF<LCL	50	µg/L
SOM01.2 TVOL	Y8Z45	trans-1,2-Dichloroethene	J	Sur>UCL	0.76	µg/L
SOM01.2 TVOL	Y8Z47	Bromomethane	UJ	CCV<LCL	0.5	µg/L
SOM01.2 TVOL	Y8Z47	Chloroform	U	LB<RL, SB<RL	0.5	µg/L
SOM01.2 TVOL	Y8Z47	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z47	Tetrachloroethene	U	SB<RL	0.5	µg/L
SOM01.2 TVOL	Y8Z48	Bromomethane	UJ	CCV<LCL	0.5	µg/L
SOM01.2 TVOL	Y8Z48	cis-1,2-Dichloroethene	J	Sur>UCL	1.9	µg/L
SOM01.2 TVOL	Y8Z48	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z49	Bromomethane	UJ	CCV<LCL	0.5	µg/L
SOM01.2 TVOL	Y8Z49	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z50	1,1-Dichloroethene	J	Sur>UCL	19	µg/L
SOM01.2 TVOL	Y8Z50	Bromomethane	UJ	CCV<LCL	0.5	µg/L
SOM01.2 TVOL	Y8Z50	cis-1,2-Dichloroethene	J	Sur>UCL	8.4	µg/L
SOM01.2 TVOL	Y8Z50	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z51	Chloroform	U	LB<RL, SB<RL	0.5	µg/L
SOM01.2 TVOL	Y8Z51	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z52	1,1-Dichloroethene	J	Sur>UCL	120	µg/L
SOM01.2 TVOL	Y8Z52	Bromomethane	UJ	CCV<LCL	1	µg/L
SOM01.2 TVOL	Y8Z52	cis-1,2-Dichloroethene	J	Sur>UCL	77	µg/L
SOM01.2 TVOL	Y8Z52	Isopropanol	R	IC RRF, RRF<LCL	50	µg/L
SOM01.2 TVOL	Y8Z52	trans-1,2-Dichloroethene	J	Sur>UCL	0.38	µg/L
SOM01.2 TVOL	Y8Z53	1,1-Dichloroethene	J	Sur>UCL	21	µg/L
SOM01.2 TVOL	Y8Z53	cis-1,2-Dichloroethene	J	Sur>UCL	15	µg/L
SOM01.2 TVOL	Y8Z53	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z54	1,1-Dichloroethene	J	Sur>UCL	13	µg/L
SOM01.2 TVOL	Y8Z54	1,2-Dichloroethane	J	Sur>UCL	0.45	µg/L
SOM01.2 TVOL	Y8Z54	cis-1,2-Dichloroethene	J	Sur>UCL	5.4	µg/L

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
SOM01.2 TVOL	Y8Z54	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z55	cis-1,2-Dichloroethene	J	Sur>UCL	14	µg/L
SOM01.2 TVOL	Y8Z55	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z55	trans-1,2-Dichloroethene	J	Sur>UCL	0.32	µg/L
SOM01.2 TVOL	Y8Z56	Chloroform	U	LB<RL, SB<RL	0.5	µg/L
SOM01.2 TVOL	Y8Z56	cis-1,2-Dichloroethene	J	Sur>UCL	8.6	µg/L
SOM01.2 TVOL	Y8Z56	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z57	Chloroform	U	LB<RL, SB<RL	2.5	µg/L
SOM01.2 TVOL	Y8Z57	Isopropanol	R	IC RRF, RRF<LCL	130	µg/L
SOM01.2 TVOL	Y8Z58	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z59	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z59	Tetrachloroethene	U	SB<RL	0.5	µg/L
SOM01.2 TVOL	Y8Z61	Chloroform	U	LB<RL, SB<RL	2.5	µg/L
SOM01.2 TVOL	Y8Z61	Isopropanol	R	IC RRF, RRF<LCL	130	µg/L
SOM01.2 TVOL	Y8Z62	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y8Z62	Trichloroethene	U	SB<RL	0.5	µg/L
SOM01.2 TVOL	Y8Z63	1,2,3-Trichlorobenzene	U	LB<RL	0.5	µg/L
SOM01.2 TVOL	Y8Z63	Isopropanol	R	IC RRF, RRF<LCL	25	µg/L
SOM01.2 TVOL	Y91R0	Acetone	U	LB<RL, SB<RL	5	µg/L
SOM01.2 TVOL	Y91R0	Bromomethane	U	LB<RL, SB<RL	0.5	µg/L
SOM01.2 TVOL	Y91R1	Acetone	U	LB<RL, SB<RL	5	µg/L
SOM01.2 TVOL	Y91R3	Acetone	U	LB<RL, SB<RL	5	µg/L
SOM01.2 TVOL	Y91R3	Bromomethane	U	LB<RL, SB<RL	0.5	µg/L
SOM01.2 TVOL	Y91R3	Toluene	U	LB<RL, SB<RL	0.5	µg/L
SOM01.2 TVOL	Y9LQ1	1,1-Dichloroethene	J	SUR>UCL	130	µg/L
SOM01.2 TVOL	Y9LQ2	1,1-Dichloroethene	J	SUR>UCL	130	µg/L
SOM01.2 TVOL	Y9LQ2	cis-1,2-Dichloroethene	J	SUR>UCL	6.2	µg/L
SOM01.2 TVOL	Y9LQ3	1,1-Dichloroethene	J	SUR>UCL	140	µg/L
SOM01.2 TVOL	Y9LQ3	Chloroform	J	SUR>UCL	20	µg/L
SOM01.2 TVOL	Y9LQ4	1,1-Dichloroethene	J	SUR>UCL	290	µg/L
SOM01.2 TVOL	Y9LQ4	Chloroform	J	SUR>UCL	82	µg/L
SOM01.2 TVOL	Y9LQ4	cis-1,2-Dichloroethene	J	SUR>UCL	16	µg/L
SOM01.2 TVOL	Y9LQ8	1,1-Dichloroethene	J	SUR>UCL	23	µg/L
SOM01.2 TVOL	Y9LQ9	1,1-Dichloroethene	J	SUR>UCL	140	µg/L
SOM01.2 TVOL	Y9LR3	1,1-Dichloroethene	J	SUR>UCL	33	µg/L

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
SOM01.2 TVOL	Y9LR5	1,1-Dichloroethane	J	SUR>UCL	2.2	µg/L
SOM01.2 TVOL	Y9LR5	1,1-Dichloroethene	J	SUR>UCL	25	µg/L
SOM01.2 TVOL	Y9LR5	cis-1,2-Dichloroethene	J	SUR>UCL	4.6	µg/L
SOM01.2 TVOL	Y9LR7	1,1-Dichloroethene	J	Sur>UCL	260	µg/L
SOM01.2 TVOL	Y9LR7	Bromomethane	UJ	CCV<LCL	5	µg/L
SOM01.2 TVOL	Y9LR7	cis-1,2-Dichloroethene	J	Sur>UCL	74	µg/L
SOM01.2 TVOL	Y9LR7	Toluene	U	SB<RL	5	µg/L
SOM01.2 TVOL	Y9LR7	trans-1,2-Dichloroethene	J	Sur>UCL	1.1	µg/L
SOM01.2 TVOL	Y9LR8	1,1-Dichloroethene	J	Sur>UCL	300	µg/L
SOM01.2 TVOL	Y9LR8	Bromomethane	UJ	CCV<LCL	5	µg/L
SOM01.2 TVOL	Y9LR8	cis-1,2-Dichloroethene	J	Sur>UCL	79	µg/L
SOM01.2 TVOL	Y9LR8	trans-1,2-Dichloroethene	J	Sur>UCL	1.1	µg/L
SOM01.2 TVOL	Y9LR9	1,1-Dichloroethene	J	Sur>UCL	9.5	µg/L
SOM01.2 TVOL	Y9LR9	cis-1,2-Dichloroethene	J	Sur>UCL	0.74	µg/L
SOM01.2 TVOL	Y9LR9	Toluene	U	SB<RL	2.5	µg/L
SOM01.2 TVOL	Y9LR9	trans-1,2-Dichloroethene	U	Remove EXES	2.5	µg/L
SOM01.2 TVOL	Y9LS0	1,1-Dichloroethene	J	Sur>UCL	110	µg/L
SOM01.2 TVOL	Y9LS0	Bromomethane	UJ	CCV<LCL	5	µg/L
SOM01.2 TVOL	Y9LS0	cis-1,2-Dichloroethene	J	Sur>UCL	8.8	µg/L
SOM01.2 TVOL	Y9LS0	Toluene	U	SB<RL	5	µg/L
SOM01.2 TVOL	Y9LS0	trans-1,2-Dichloroethene	J	Sur>UCL	0.82	µg/L
SOM01.2 TVOL	Y9LS1	1,1-Dichloroethene	J	Sur>UCL	150	µg/L
SOM01.2 TVOL	Y9LS1	Bromomethane	UJ	CCV<LCL	5	µg/L
SOM01.2 TVOL	Y9LS1	cis-1,2-Dichloroethene	J	Sur>UCL	13	µg/L
SOM01.2 TVOL	Y9LS1	Toluene	U	SB<RL	5	µg/L
SOM01.2 TVOL	Y9LS1	trans-1,2-Dichloroethene	J	Sur>UCL	1.1	µg/L
SOM01.2 TVOL	Y9LS3	1,1-Dichloroethene	J	Sur>UCL	42	µg/L
SOM01.2 TVOL	Y9LS3	cis-1,2-Dichloroethene	J	Sur>UCL	2.8	µg/L
SOM01.2 TVOL	Y9LS4	1,1-Dichloroethane	J	Sur>UCL	4.6	µg/L
SOM01.2 TVOL	Y9LS4	1,1-Dichloroethene	J	Sur>UCL	12	µg/L
SOM01.2 TVOL	Y9LS4	Chloroform	J	Sur>UCL	8.9	µg/L
SOM01.2 TVOL	Y9LS4	cis-1,2-Dichloroethene	J	Sur>UCL	4	µg/L
SOM01.2 TVOL	Y9LS4	Toluene	U	SB<RL	0.5	µg/L
SOM01.2 TVOL	Y9LS5	Toluene	U	SB<RL	0.5	µg/L
SOM01.2 TVOL	Y9LS6	Toluene	U	SB<RL	0.5	µg/L

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
SOM01.2 TVOL	Y9LS7	1,1-Dichloroethene	J	Sur>UCL	200	µg/L
SOM01.2 TVOL	Y9LS7	Bromomethane	UJ	CCV<LCL	5	µg/L
SOM01.2 TVOL	Y9LS7	cis-1,2-Dichloroethene	J	Sur>UCL	9.6	µg/L
SOM01.2 TVOL	Y9LS7	Toluene	U	SB<RL	5	µg/L
SOM01.2 TVOL	Y9LS7	trans-1,2-Dichloroethene	J	Sur>UCL	1	µg/L
SOM01.2 TVOL	Y9LS8	1,1-Dichloroethene	J	Sur>UCL	84	µg/L
SOM01.2 TVOL	Y9LS8	Bromomethane	UJ	CCV<LCL	4.2	µg/L
SOM01.2 TVOL	Y9LS8	cis-1,2-Dichloroethene	J	Sur>UCL	6.3	µg/L
SOM01.2 TVOL	Y9LS8	Toluene	U	SB<RL	4.2	µg/L
SOM01.2 TVOL	Y9LS9	1,1-Dichloroethene	J	Sur>UCL	86	µg/L
SOM01.2 TVOL	Y9LS9	Bromomethane	UJ	CCV<LCL	4.2	µg/L
SOM01.2 TVOL	Y9LS9	cis-1,2-Dichloroethene	J	Sur>UCL	6.1	µg/L
SOM01.2 TVOL	Y9LS9	Toluene	U	SB<RL	4.2	µg/L
SOM01.2 TVOL	Y9LT1	Bromomethane	UJ	CCV<LCL	5	µg/L
SOM01.2 TVOL	Y9LT1	Toluene	U	SB<RL	5	µg/L
SOM01.2 TVOL	Y9LT3	1,1-Dichloroethane	U	Remove EXES	0.65	µg/L
SOM01.2 TVOL	Y9LT3	1,1-Dichloroethene	J	Sur>UCL	12	µg/L
SOM01.2 TVOL	Y9LT3	Bromochloromethane	U	Remove EXES	0.65	µg/L
SOM01.2 TVOL	Y9LT3	Bromoform	U	Remove EXES	0.65	µg/L
SOM01.2 TVOL	Y9LT3	Chloroform	U	Remove EXES	0.65	µg/L
SOM01.2 TVOL	Y9LT3	cis-1,2-Dichloroethene	U	Remove EXES	0.65	µg/L
SOM01.2 TVOL	Y9LT3	Dibromochloromethane	U	Remove EXES	0.65	µg/L
SOM01.2 TVOL	Y9LT3	trans-1,2-Dichloroethene	U	Remove EXES	0.65	µg/L
SOM01.2 TVOL	Y9LT4	1,1-Dichloroethene	J	Sur>UCL	34	µg/L
SOM01.2 TVOL	Y9LT4	cis-1,2-Dichloroethene	U	Remove EXES	2.5	µg/L
SOM01.2 TVOL	Y9LT4	trans-1,2-Dichloroethene	U	Remove EXES	2.5	µg/L
SOM01.2 TVOL	Y9LT6	1,1-Dichloroethene	J	Sur>UCL	46	µg/L
SOM01.2 TVOL	Y9LT9	Chloroform	J	Sur>UCL	3.6	µg/L
SOM01.2 TVOL	Y9LW1	1,1-Dichloroethene	J	Sur>UCL	100	µg/L
SOM01.2 TVOL	Y9LW1	Chloroform	J	Sur>UCL	27	µg/L
SOM01.2 TVOL	Y9LW1	cis-1,2-Dichloroethene	J	Sur>UCL	130	µg/L
SOM01.2 TVOL	Y9LW1	trans-1,2-Dichloroethene	J	Sur>UCL	3.3	µg/L
SOM01.2 TVOL	Y9LW2	1,1-Dichloroethane	J	Sur>UCL	1.4	µg/L
SOM01.2 TVOL	Y9LW2	1,1-Dichloroethene	J	Sur>UCL	120	µg/L
SOM01.2 TVOL	Y9LW2	Chloroform	J	Sur>UCL	31	µg/L

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
SOM01.2 TVOL	Y9LW2	cis-1,2-Dichloroethene	J	Sur>UCL	380	µg/L
SOM01.2 TVOL	Y9LW2	trans-1,2-Dichloroethene	J	Sur>UCL	5.6	µg/L
SOM01.2 TVOL	Y9LW5	1,1-Dichloroethene	J	Sur>UCL	59	µg/L
SOM01.2 TVOL	Y9LW5	cis-1,2-Dichloroethene	J	Sur>UCL	20	µg/L
SOM01.2 TVOL	Y9LW5	Cyclohexane	J	Sur>UCL	0.91	µg/L
SOM01.2 TVOL	Y9LW5	Methyl cyclohexane	J	Sur>UCL	0.41	µg/L
SOM01.2 TVOL	Y9LW5	trans-1,2-Dichloroethene	J	Sur>UCL	0.56	µg/L
SOM01.2 TVOL	Y9LW6	1,1-Dichloroethene	J	Sur>UCL	6.6	µg/L
SOM01.2 TVOL	Y9LW6	Acetone	U	SB<RL	5	µg/L
SOM01.2 TVOL	Y9LW6	cis-1,2-Dichloroethene	J	Sur>UCL	2.7	µg/L
SOM01.2 TVOL	Y9LW6	trans-1,2-Dichloroethene	J	Sur>UCL	0.14	µg/L
SOM01.2 TVOL	Y9LW7	1,1-Dichloroethene	J	Sur>UCL	83	µg/L
SOM01.2 TVOL	Y9LW7	cis-1,2-Dichloroethene	J	Sur>UCL	98	µg/L
SOM01.2 TVOL	Y9LW7	Cyclohexane	J	Sur>UCL	2.6	µg/L
SOM01.2 TVOL	Y9LW7	Methyl cyclohexane	J	Sur>UCL	0.94	µg/L
SOM01.2 TVOL	Y9LW7	trans-1,2-Dichloroethene	J	Sur>UCL	3.2	µg/L
SOM01.2 TVOL	Y9LW8	1,1-Dichloroethene	J	Sur>UCL	55	µg/L
SOM01.2 TVOL	Y9LW8	cis-1,2-Dichloroethene	J	Sur>UCL	15	µg/L
SOM01.2 TVOL	Y9LW8	Cyclohexane	J	Sur>UCL	8.9	µg/L
SOM01.2 TVOL	Y9LW8	Methyl cyclohexane	J	Sur>UCL	2.2	µg/L
SOM01.2 TVOL	Y9LW8	Methylene chloride	U	SB<RL	0.5	µg/L
SOM01.2 TVOL	Y9LW8	trans-1,2-Dichloroethene	J	Sur>UCL	2.3	µg/L
SOM01.2 TVOL	Y9LW9	1,1-Dichloroethane	J	Sur>UCL	8	µg/L
SOM01.2 TVOL	Y9LW9	1,1-Dichloroethene	J	Sur>UCL	40	µg/L
SOM01.2 TVOL	Y9LW9	Chloroform	J	Sur>UCL	1.9	µg/L
SOM01.2 TVOL	Y9LW9	cis-1,2-Dichloroethene	J	Sur>UCL	19	µg/L
SOM01.2 TVOL	Y9LW9	trans-1,2-Dichloroethene	J	Sur>UCL	0.16	µg/L
SOM01.2 TVOL	Y9LX0	1,1-Dichloroethane	J	Sur>UCL	8.5	µg/L
SOM01.2 TVOL	Y9LX0	1,1-Dichloroethene	J	Sur>UCL	36	µg/L
SOM01.2 TVOL	Y9LX0	Chloroform	J	Sur>UCL	2	µg/L
SOM01.2 TVOL	Y9LX0	cis-1,2-Dichloroethene	J	Sur>UCL	19	µg/L
SOM01.2 TVOL	Y9LX0	trans-1,2-Dichloroethene	J	Sur>UCL	0.18	µg/L
SOM01.2 TVOL	Y9LX2	1,1-Dichloroethene	J	Sur>UCL	18	µg/L
SOM01.2 TVOL	Y9LX2	cis-1,2-Dichloroethene	J	Sur>UCL	17	µg/L
SOM01.2 TVOL	Y9LX2	trans-1,2-Dichloroethene	J	Sur>UCL	0.081	µg/L

TABLE C-3

Omega Chemical Groundwater Monitoring Data Validation Flag, Reason and Result

Omega Chemical Superfund Site

Method	Sample Name	Analyte	DV Flag	DV Reason	Result	Unit
SOM01.2 TVOL	Y9LX3	1,1-Dichloroethene	J	Sur>UCL	14	µg/L
SOM01.2 TVOL	Y9LX3	cis-1,2-Dichloroethene	J	Sur>UCL	5.5	µg/L
SOM01.2 TVOL	Y9LX4	1,1-Dichloroethene	J	Sur>UCL	52	µg/L
SOM01.2 TVOL	Y9LX4	cis-1,2-Dichloroethene	J	Sur>UCL	20	µg/L
SOM01.2 TVOL	Y9LX4	Methylene chloride	U	SB<RL	0.5	µg/L
SOM01.2 TVOL	Y9LX4	Toluene	U	SB<RL	0.5	µg/L
SOM01.2 TVOL	Y9LX4	trans-1,2-Dichloroethene	J	Sur>UCL	0.34	µg/L
SOM01.2 TVOL	Y9LX5	Toluene	U	SB<RL	0.5	µg/L

Notes:

µg/L = micrograms per liter

>ICLinearRange = Detected result greater than the instrument calibration range

>MDL<RL = Detected result between the method detection limit and the reporting limit

CCV>LCL = Continuing calibration verification standard recovered less than the lower control limit

CCV>UCL = Continuing calibration verification standard recovered greater than the lower control limit

DV = Data Validation

FB>RL = Field blank detection greater than the reporting limit

HT>UCL = Holding time exceeded the upper control limit

IC RRF = Initial calibration relative response factor exceeded acceptance criteria

IC>RSD&R2 = Initial calibration relative standard deviation and R squared exceeded acceptance criteria

ICVS>UCL = Initial calibration verification standard recovery exceeded the upper control limit

LB<RL = Laboratory blank detection less than the reporting limit

LCS<LCL = Laboratory control sample recovery less than the lower control limit

LCS>UCL = Laboratory control sample recovery greater than the lower control limit

LCSD<LCL = Laboratory control sample duplicate recovery less than the lower control limit

LCSD>UCL Laboratory control sample duplicate recovery greater than the lower control limit

MS<LCL = Matrix spike recovery less than the lower control limit

Remove EXES = A validation flag applied by the EPA automated Electronic Data Exchange and Evaluation System was removed after higher level manual validation was performed.

RRF<LCL = Relative response factor acceptance criteria was exceeded

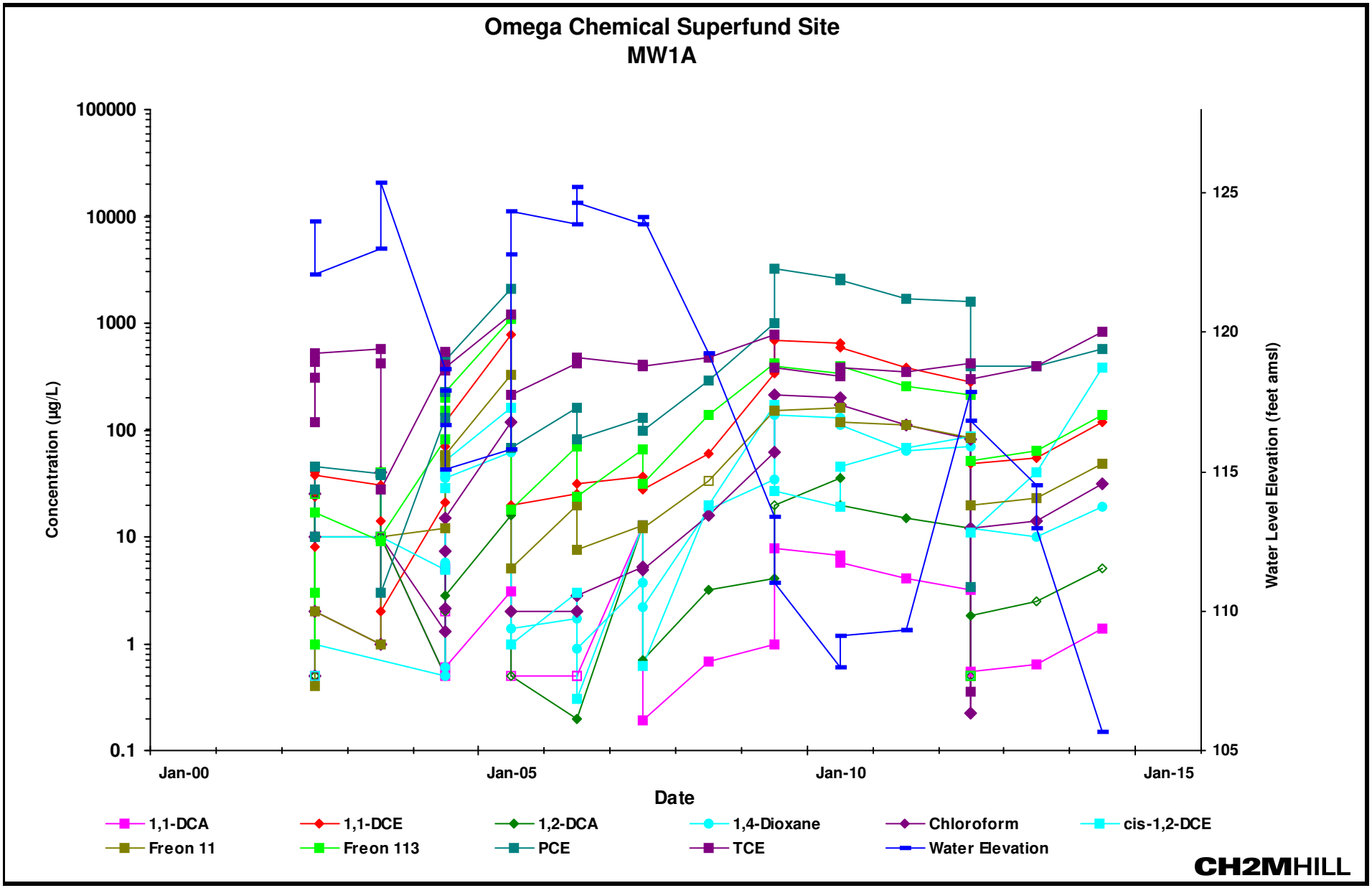
SB<RL = Storage blank detection less than the reporting limit

SD<LCL = Matrix spike duplicated recovery less than the lower control limit

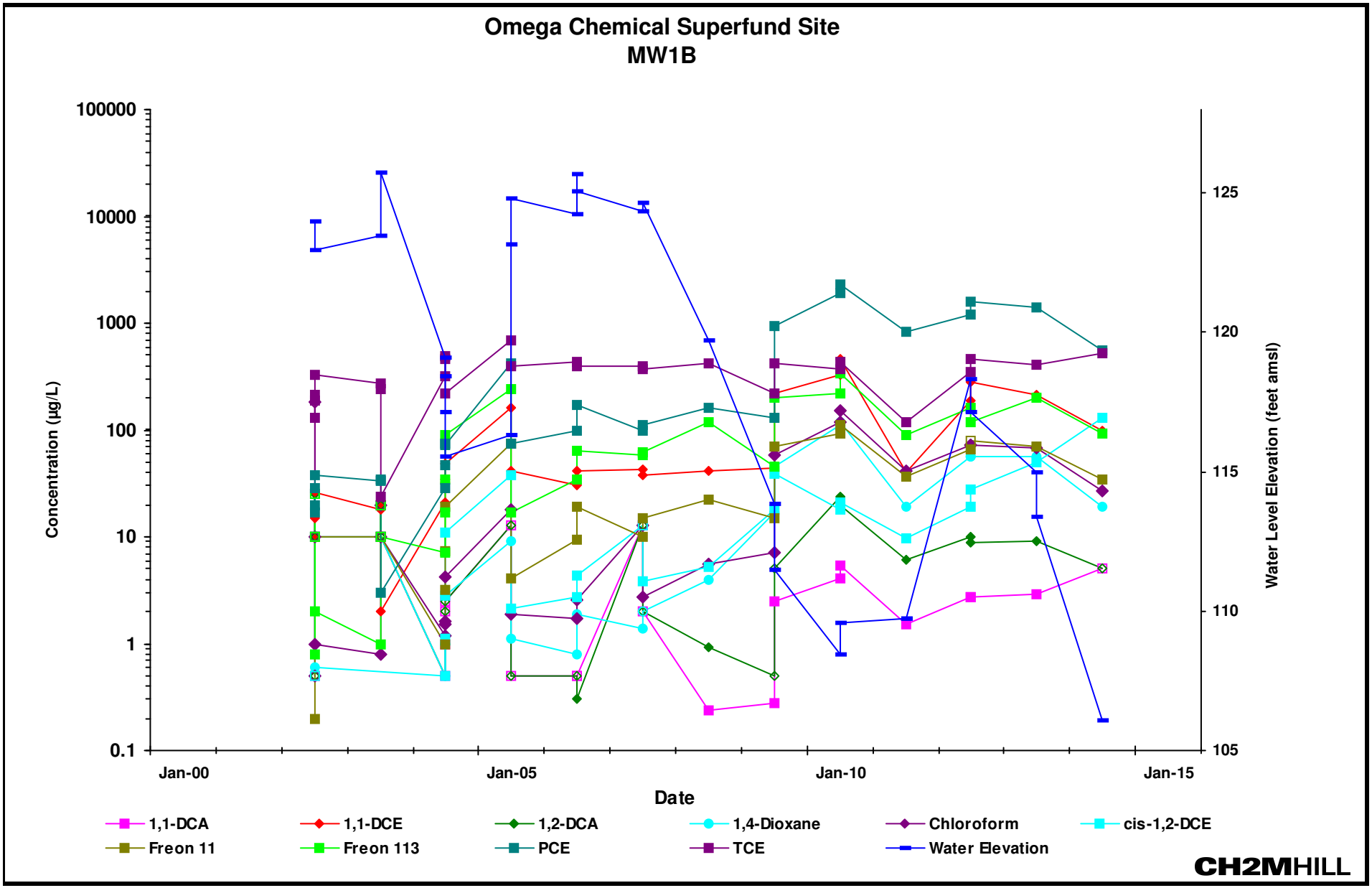
SUR<LCL = Surrogate recovery less than the lower control limit

SUR>UCL = Surrogate recovery greater than the upper control limit

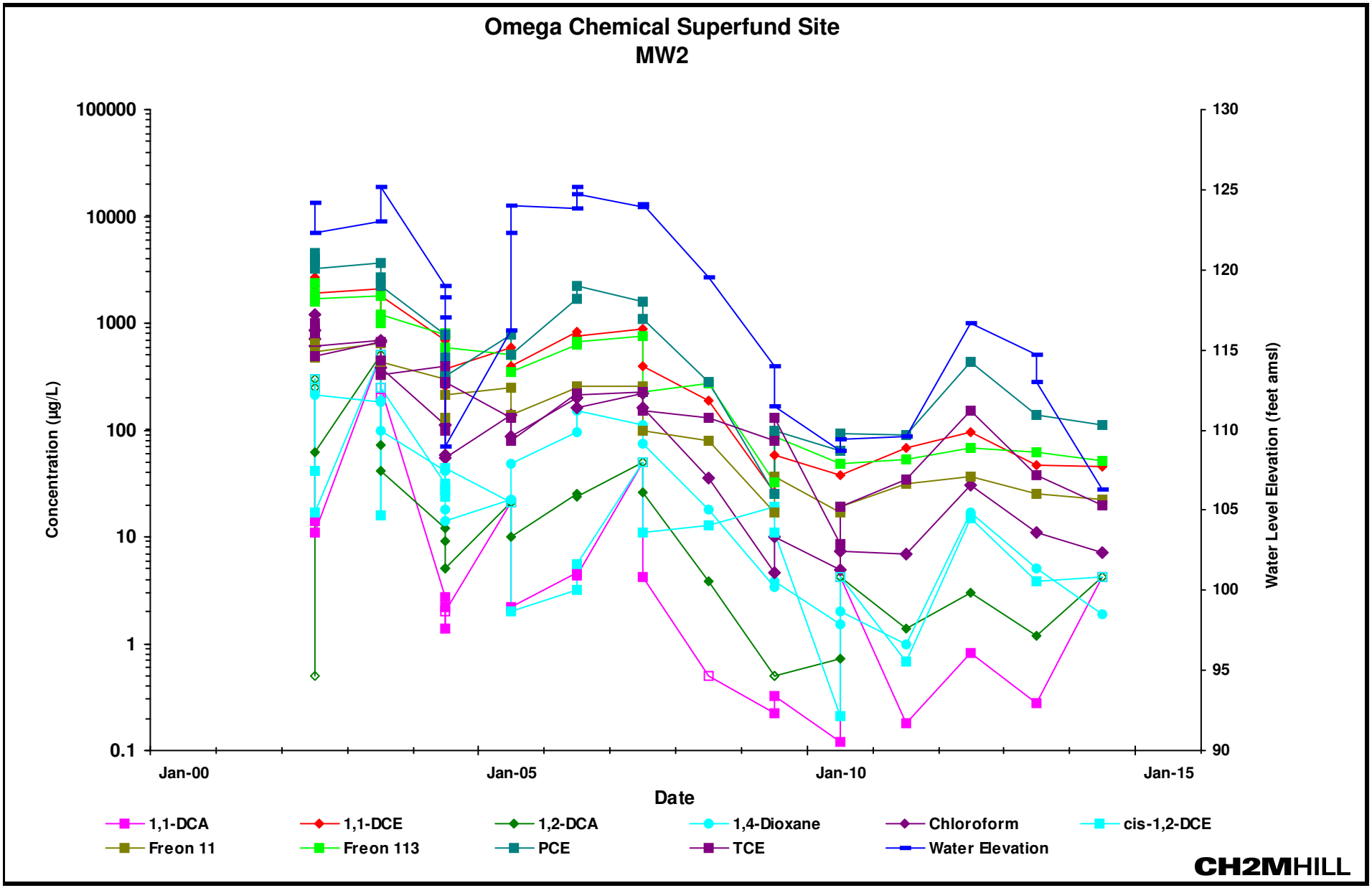
Appendix D
Volatile Organic Compound Time Series Charts



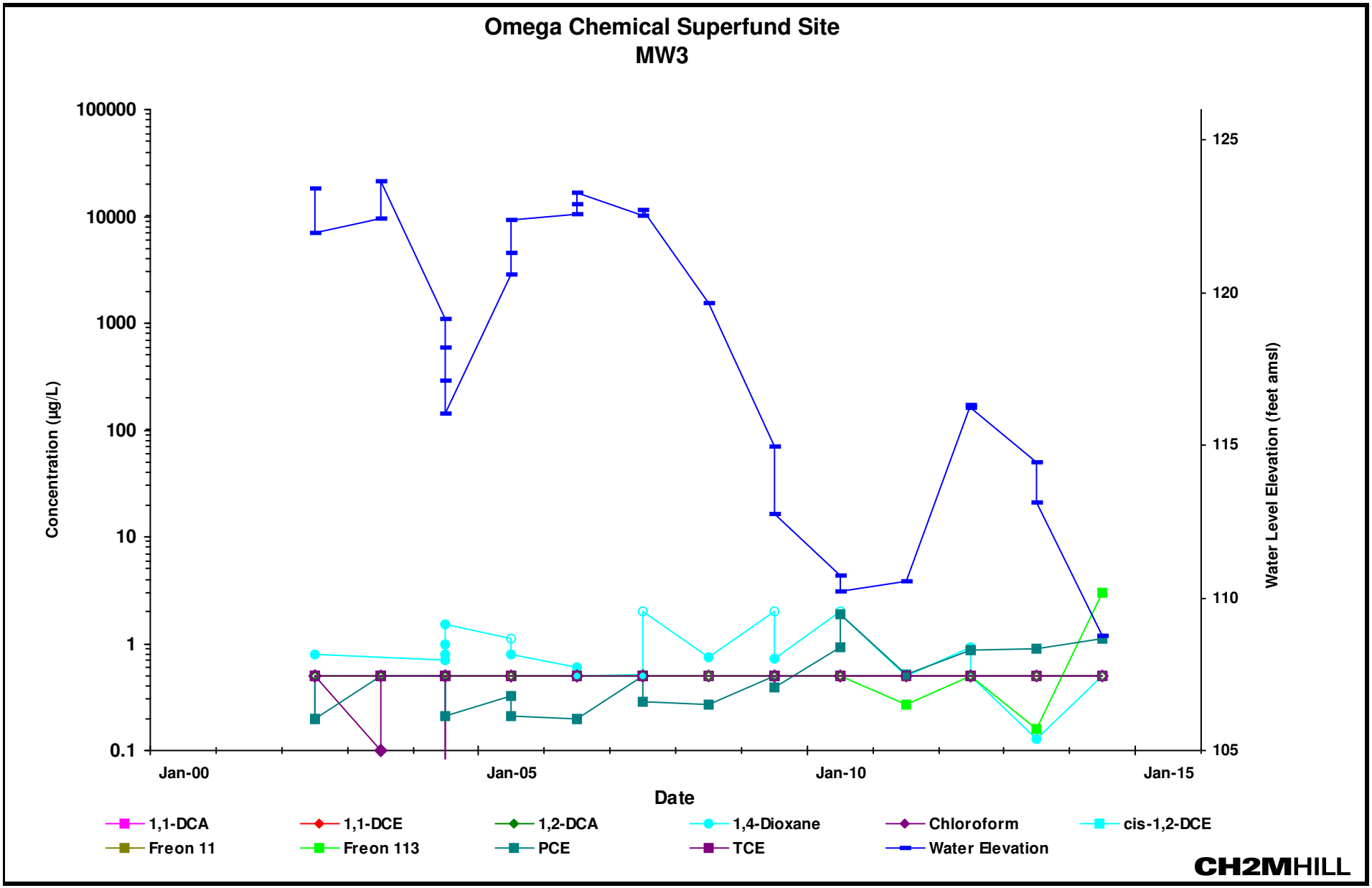
Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



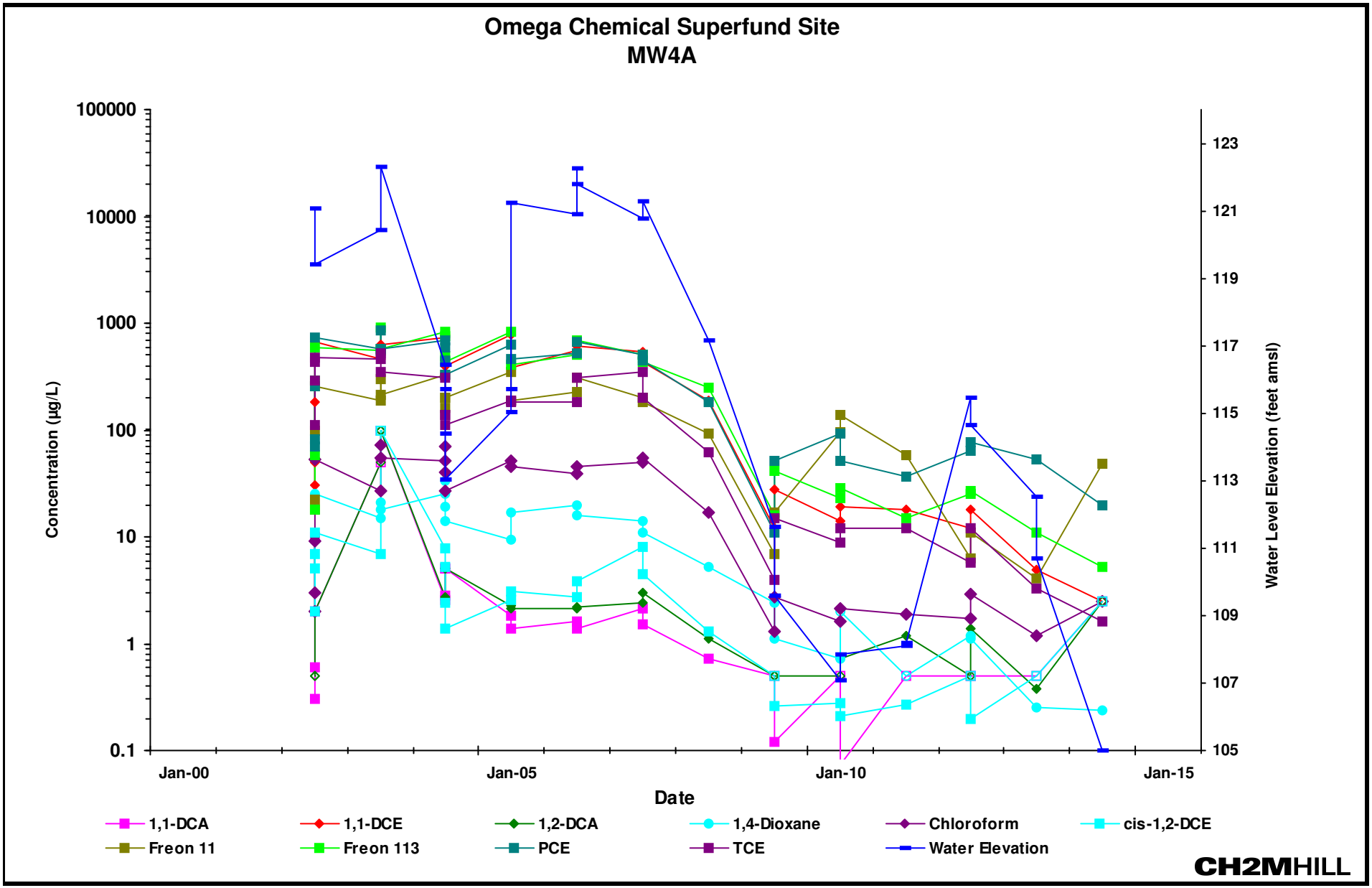
Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



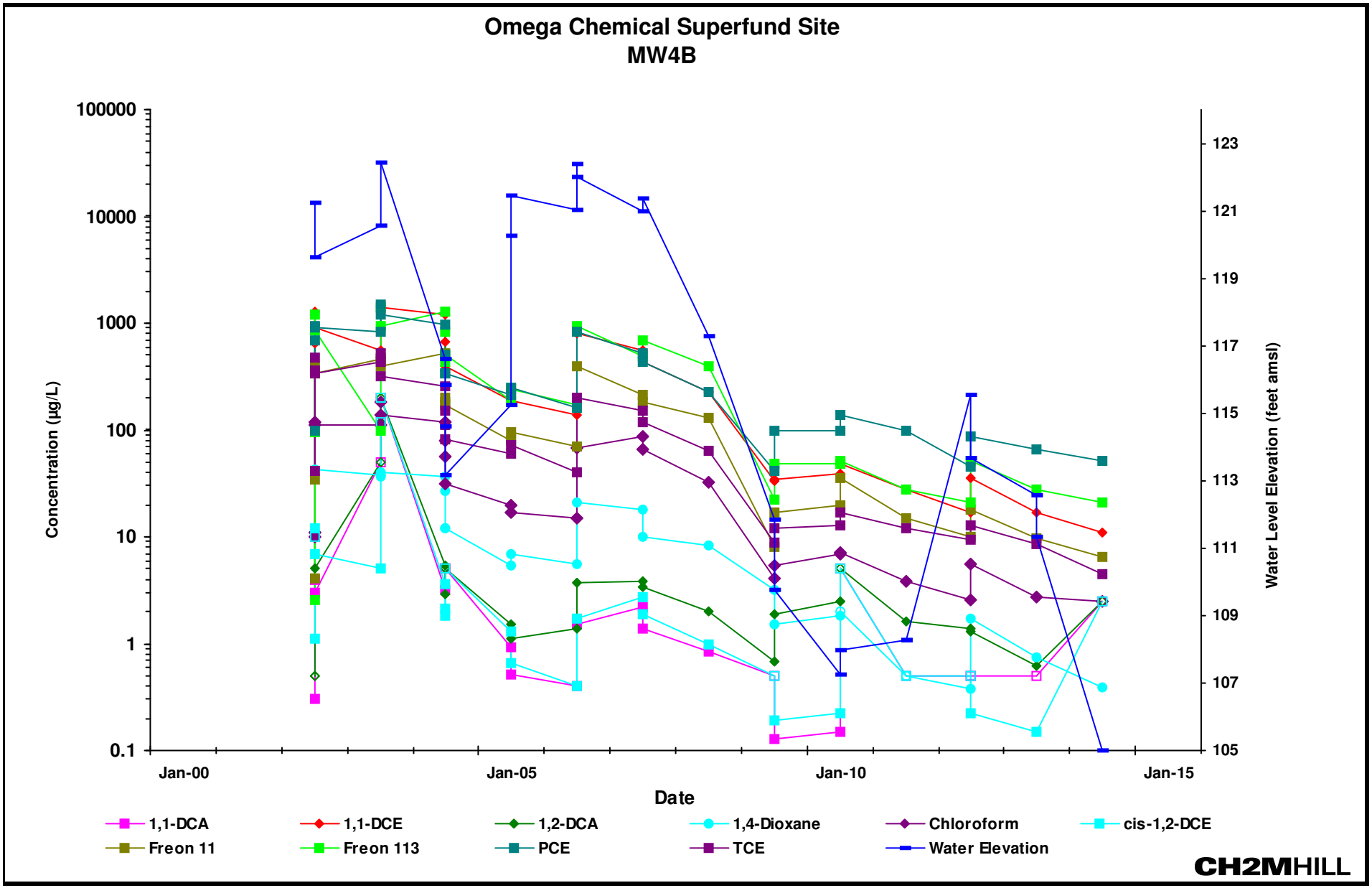
Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



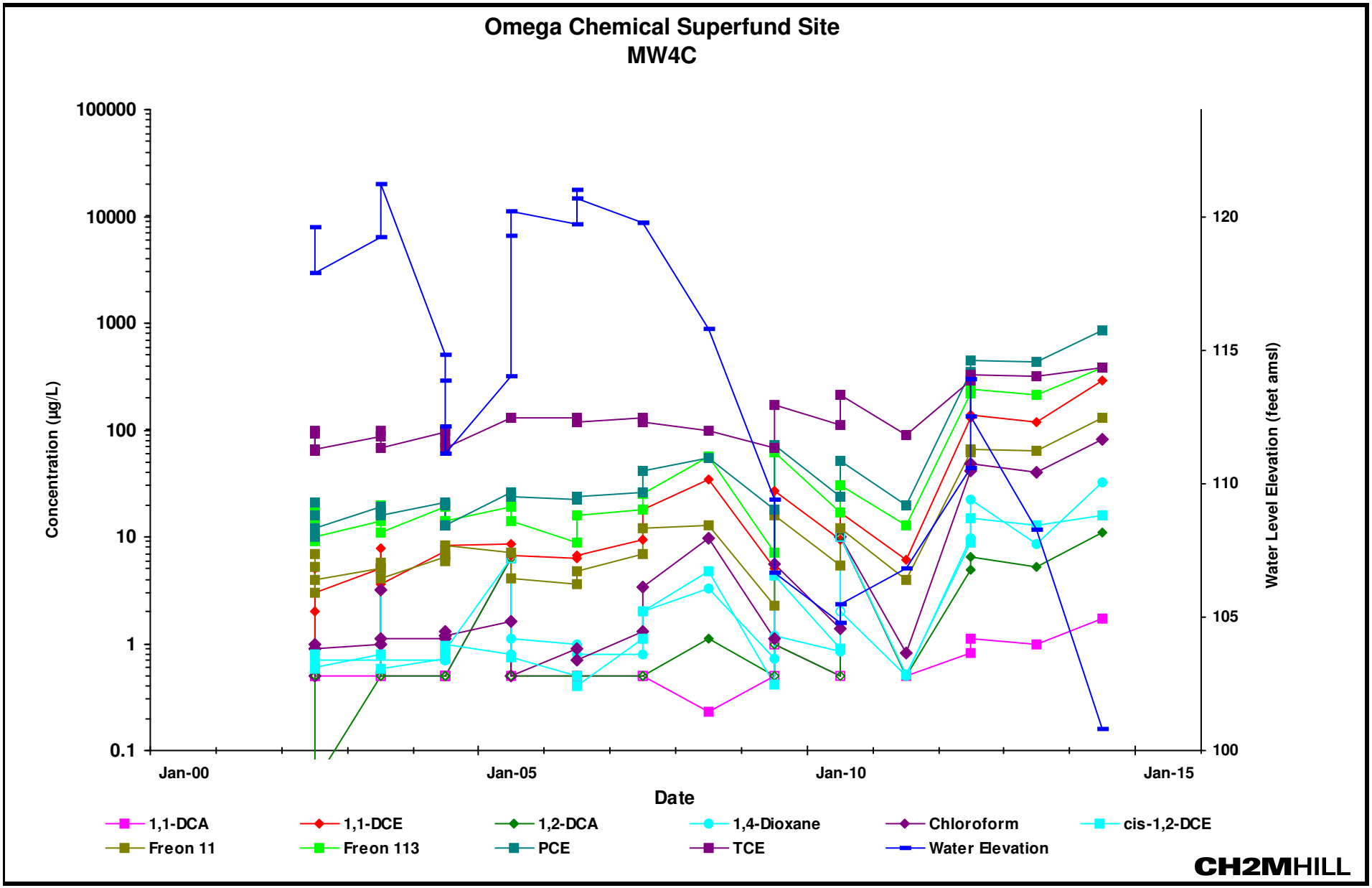
Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



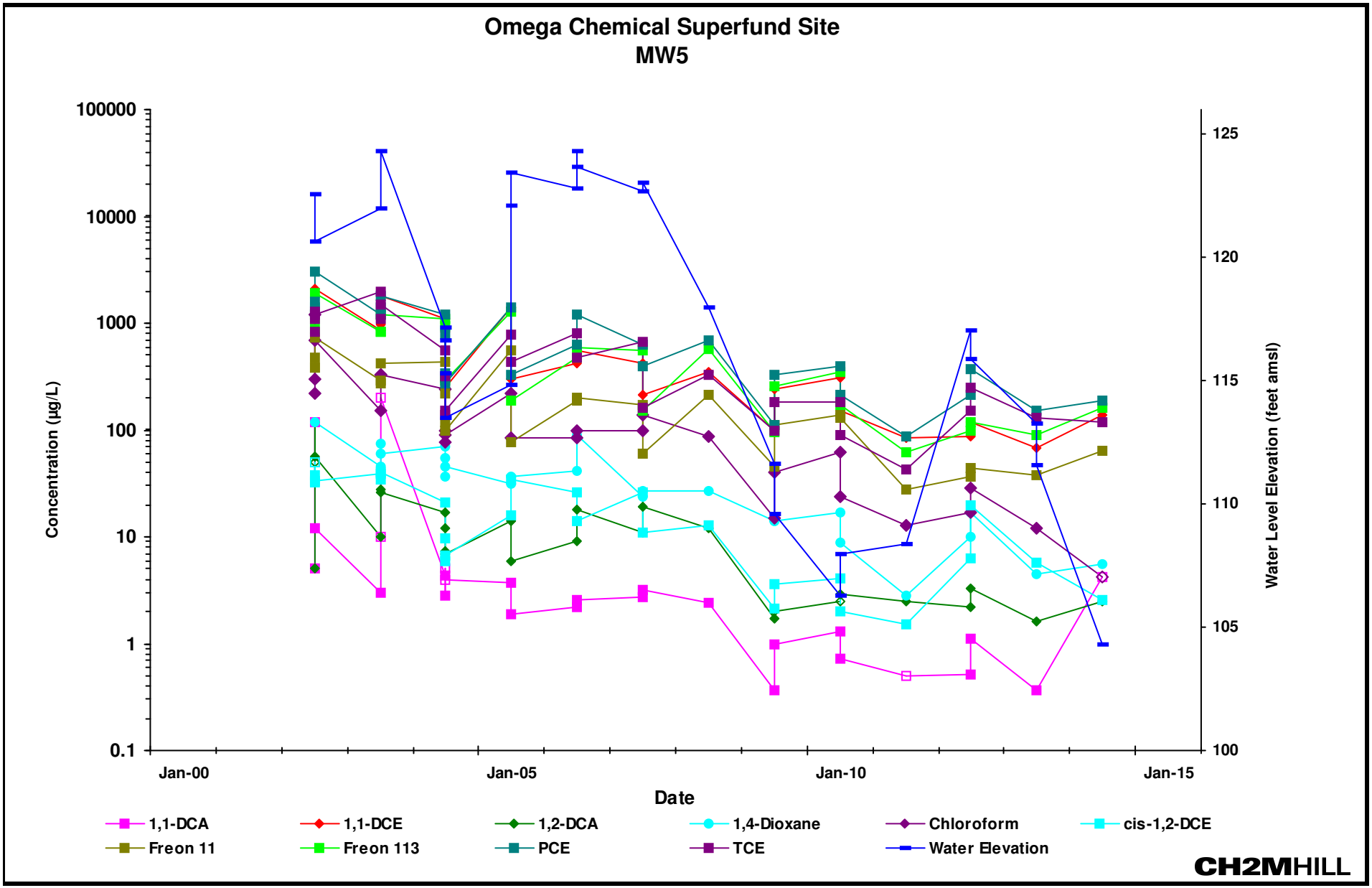
Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



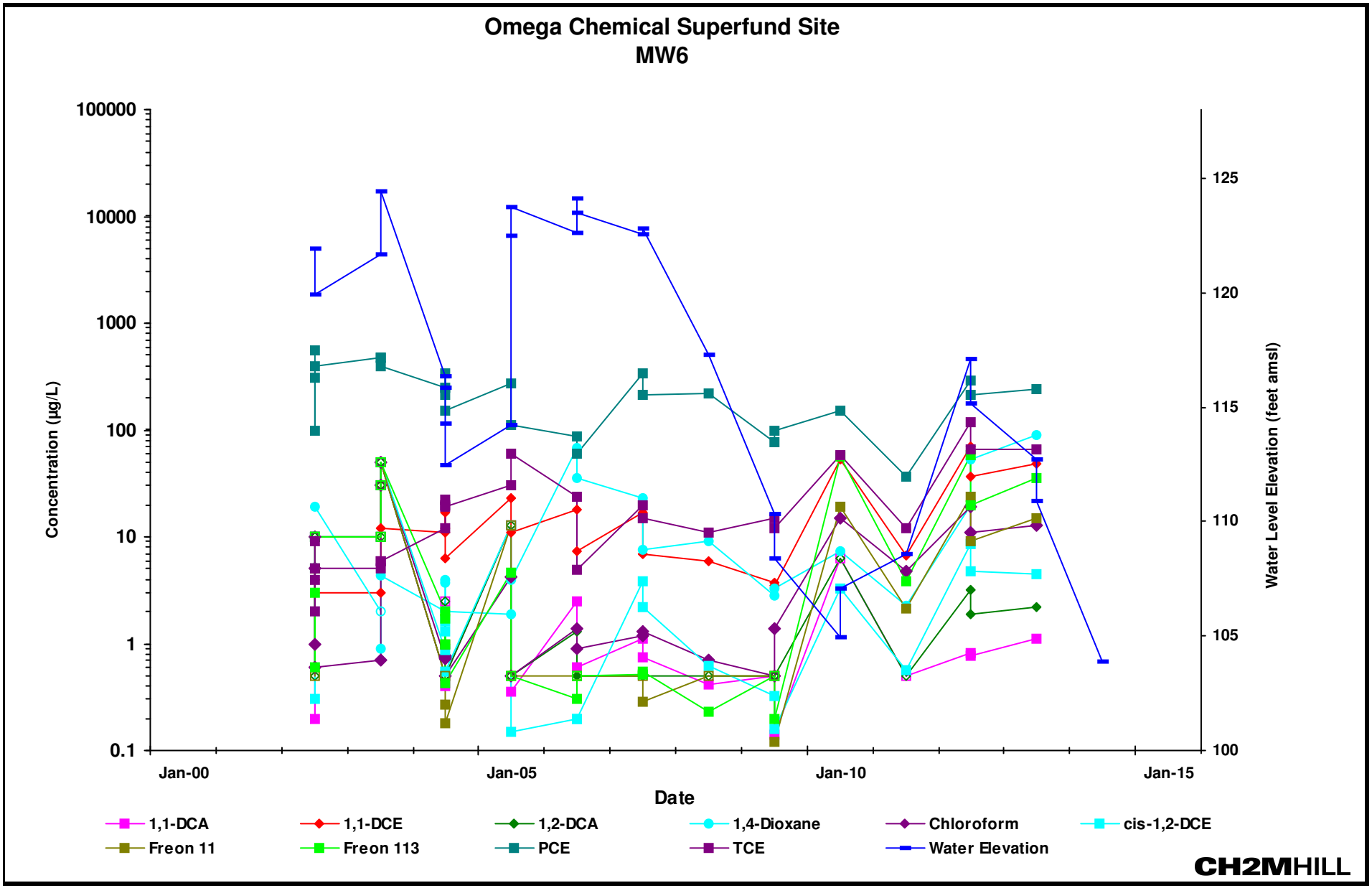
Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



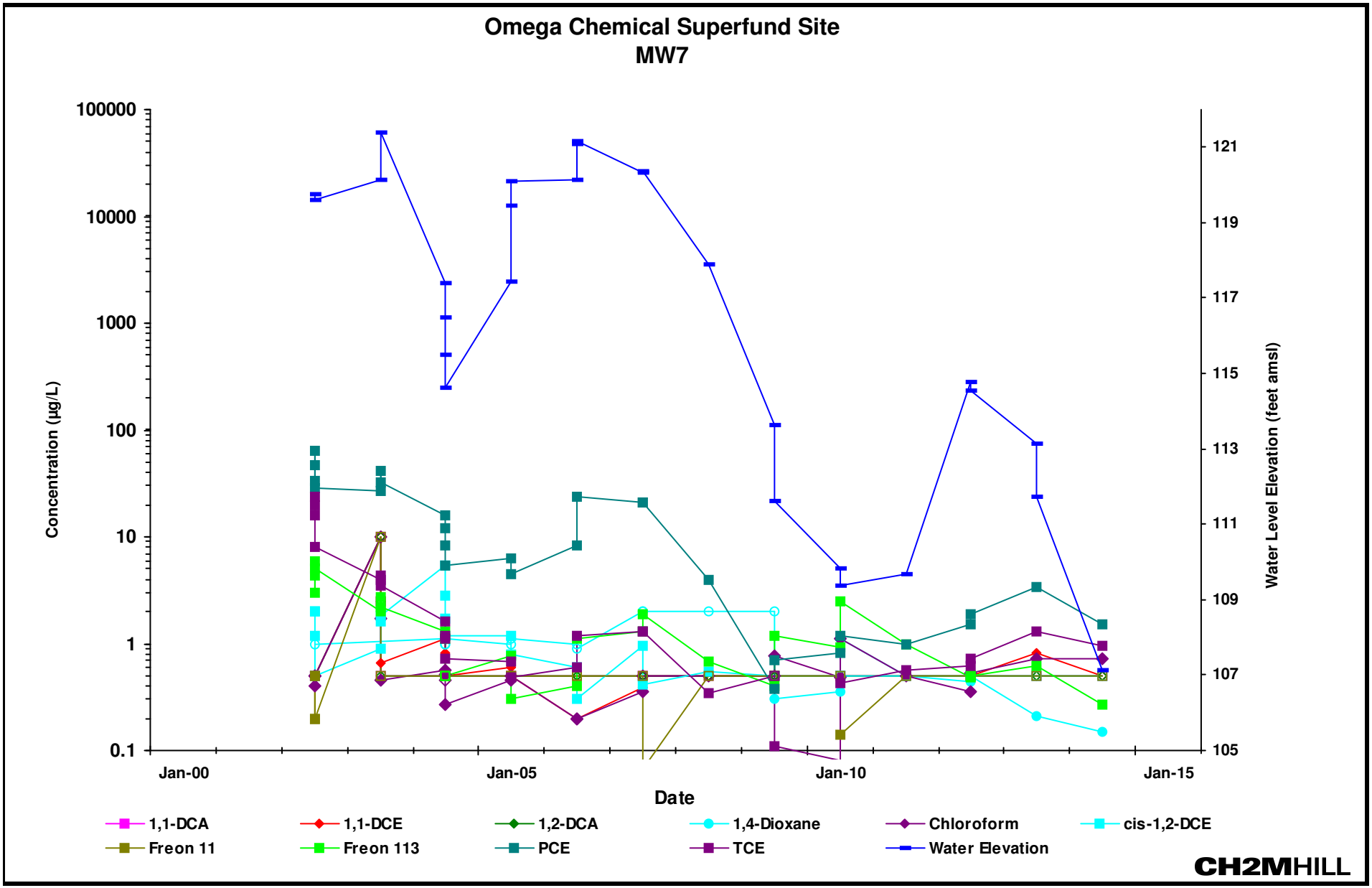
Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



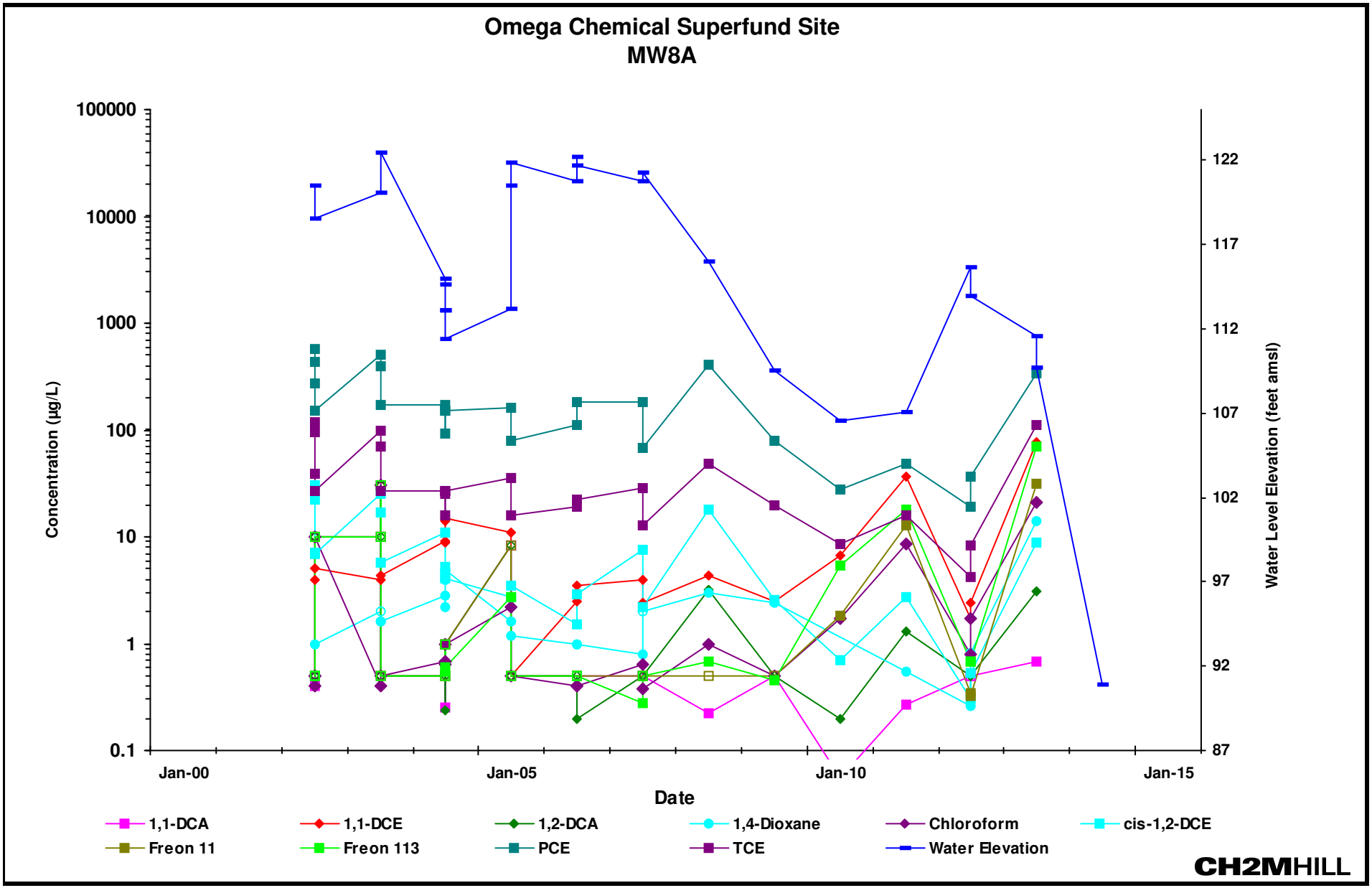
Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
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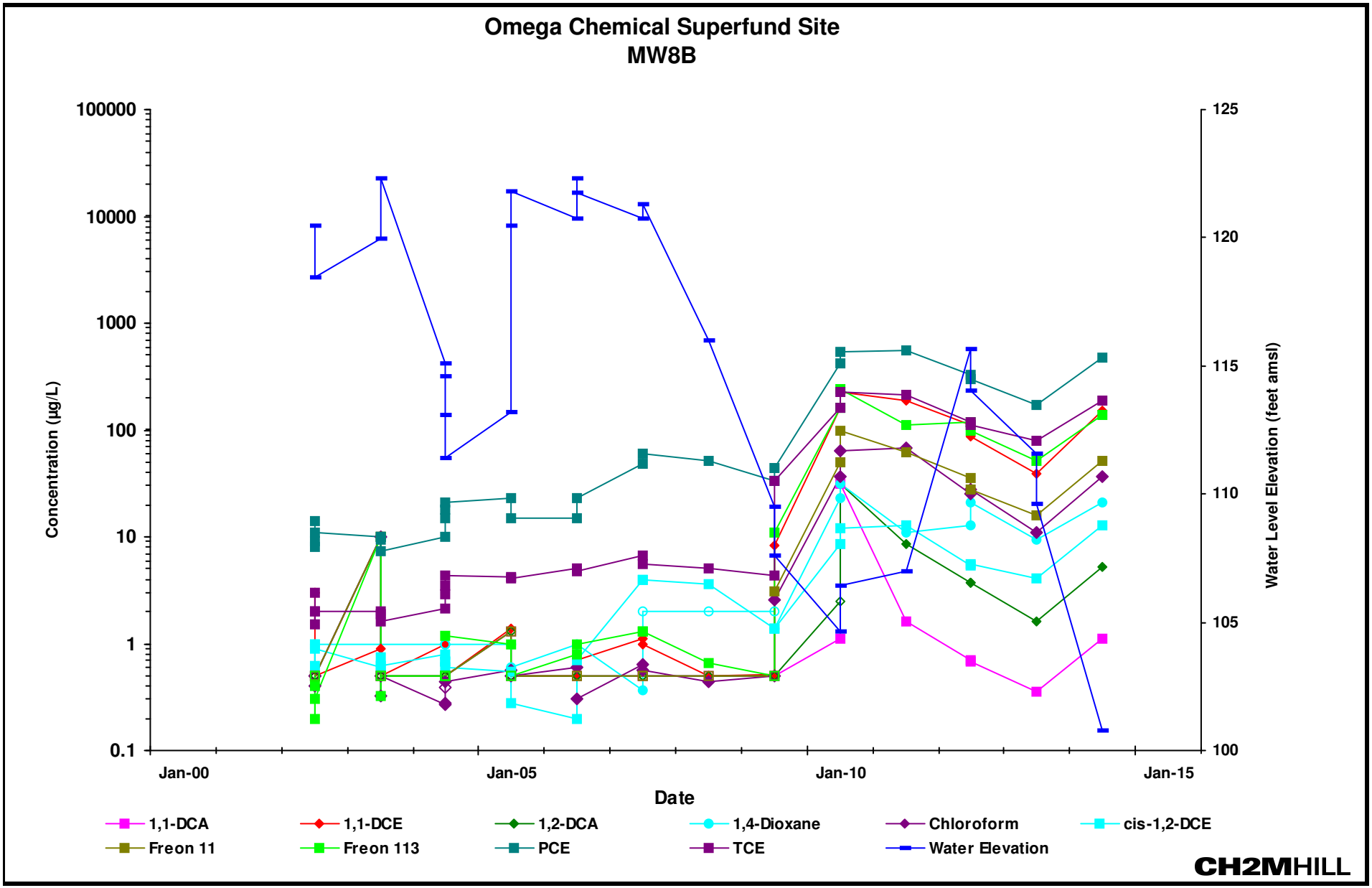

Notes:
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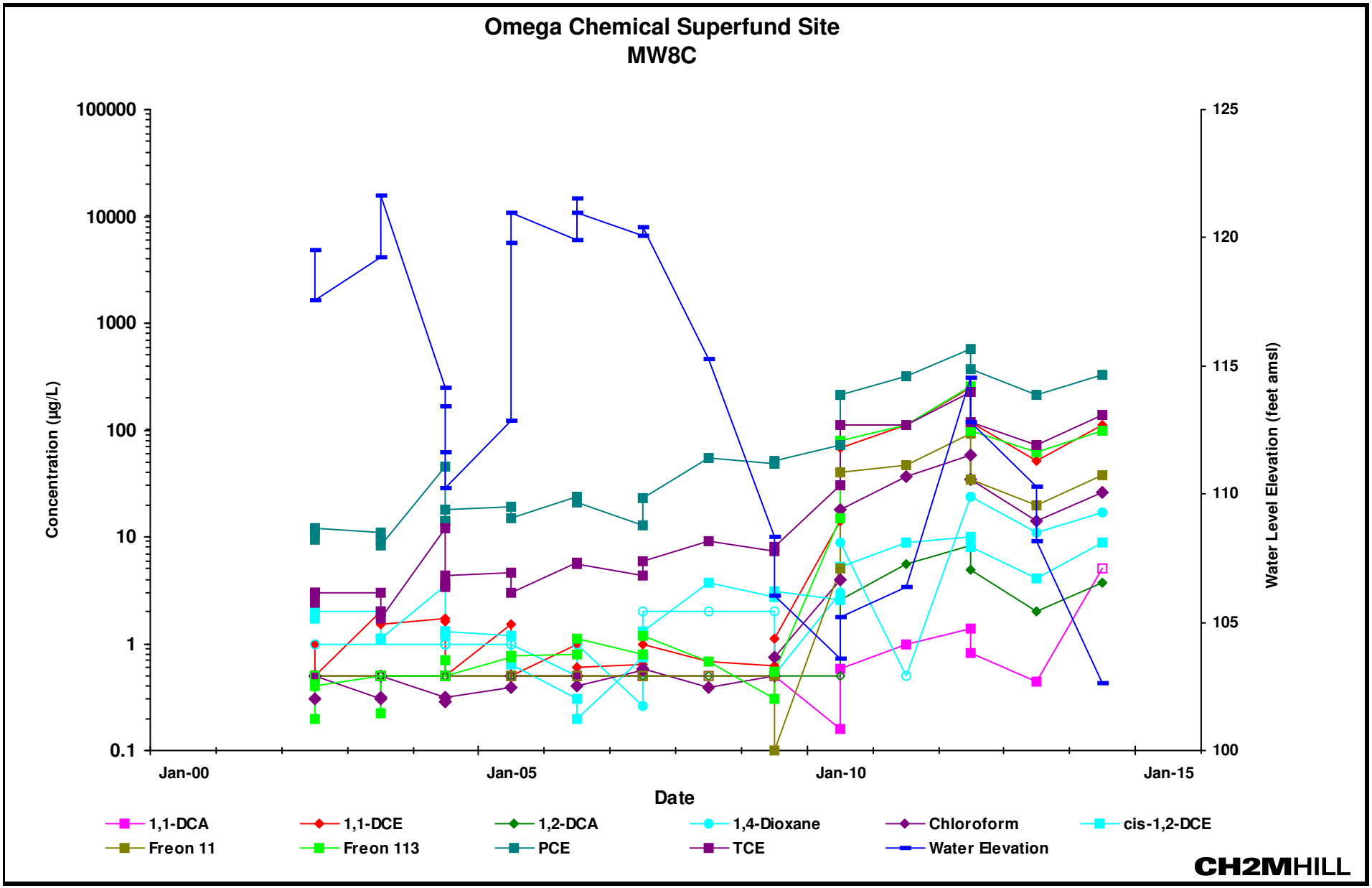

Notes:
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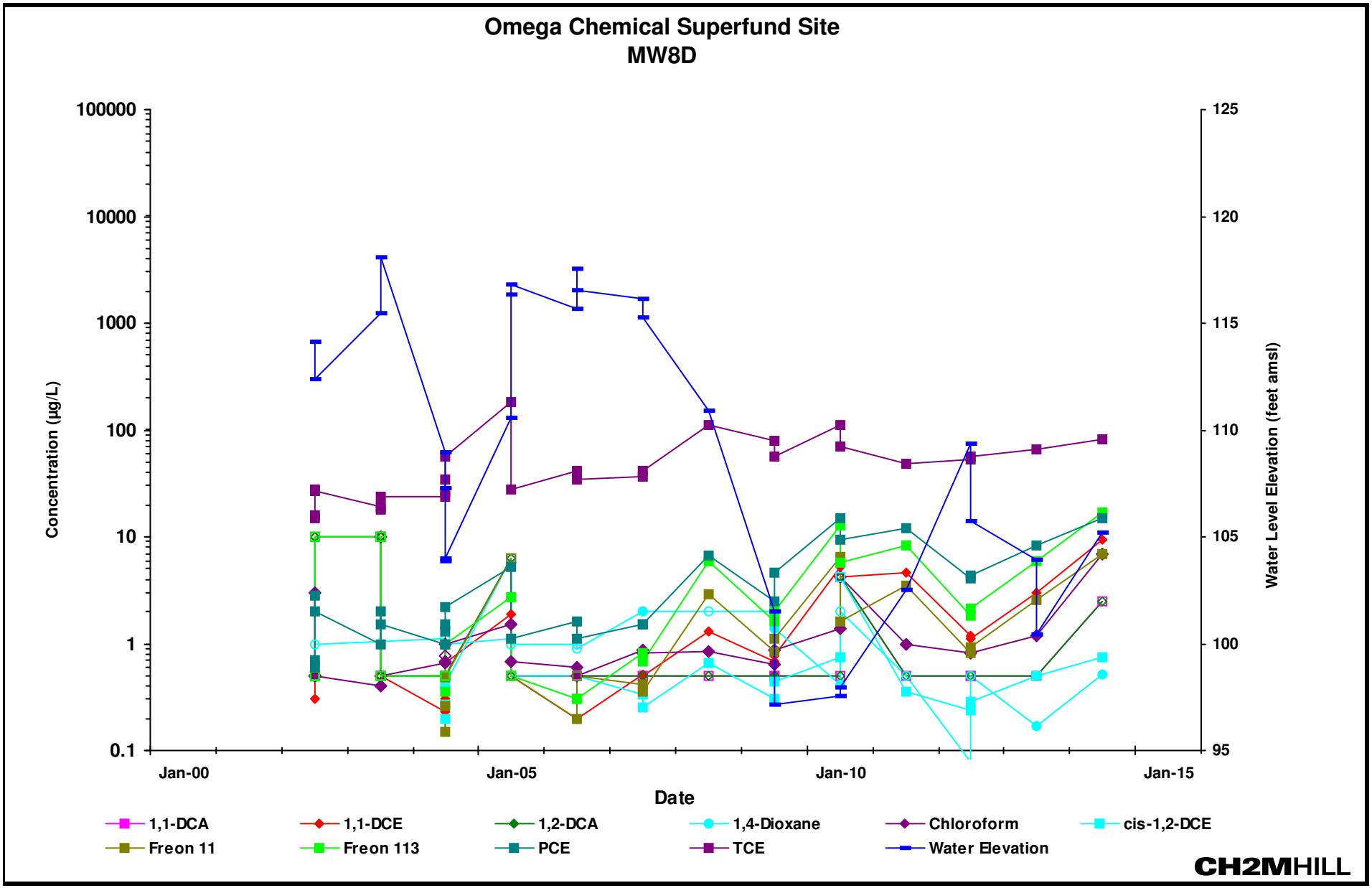

Notes:
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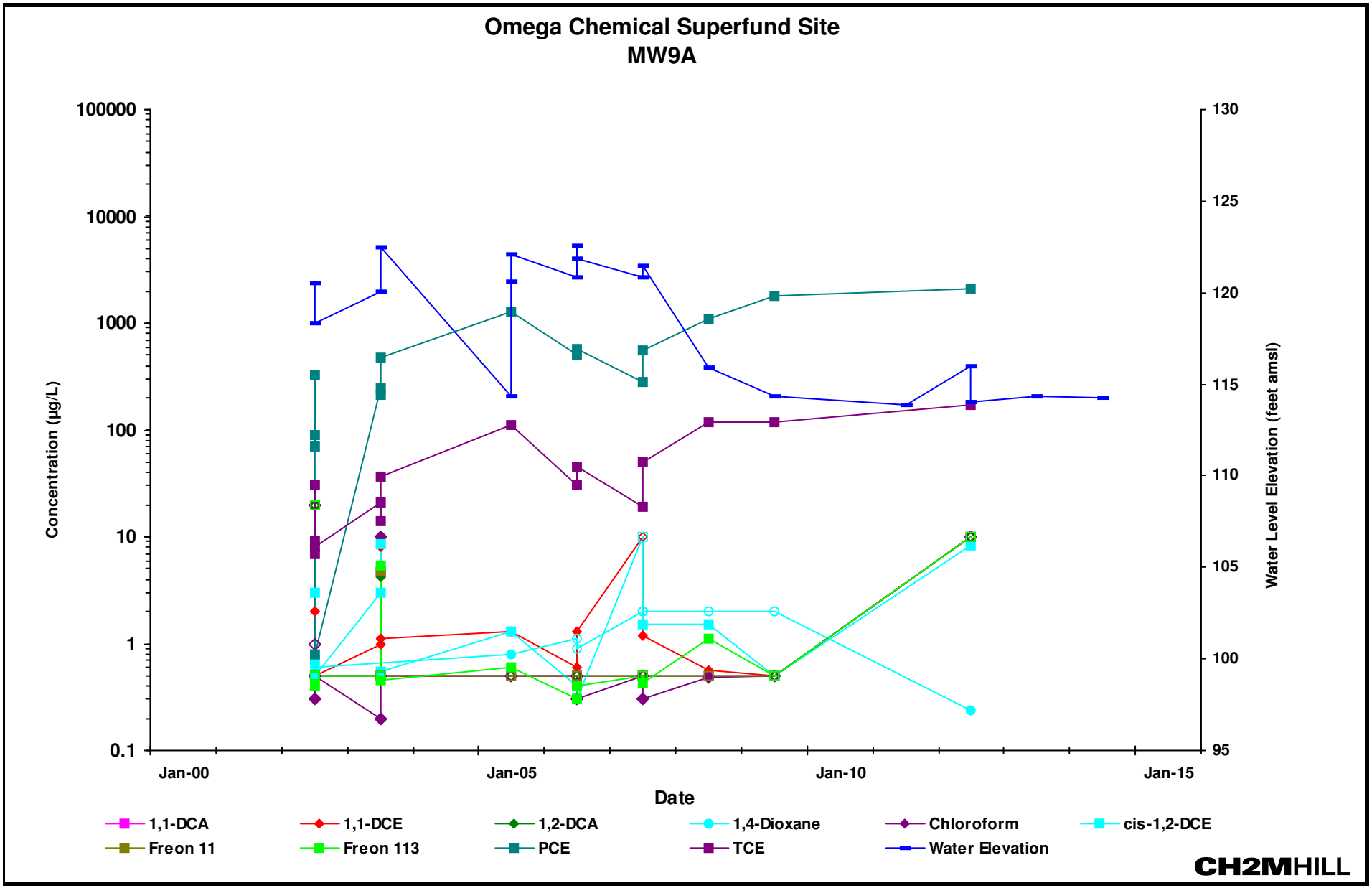

Notes:
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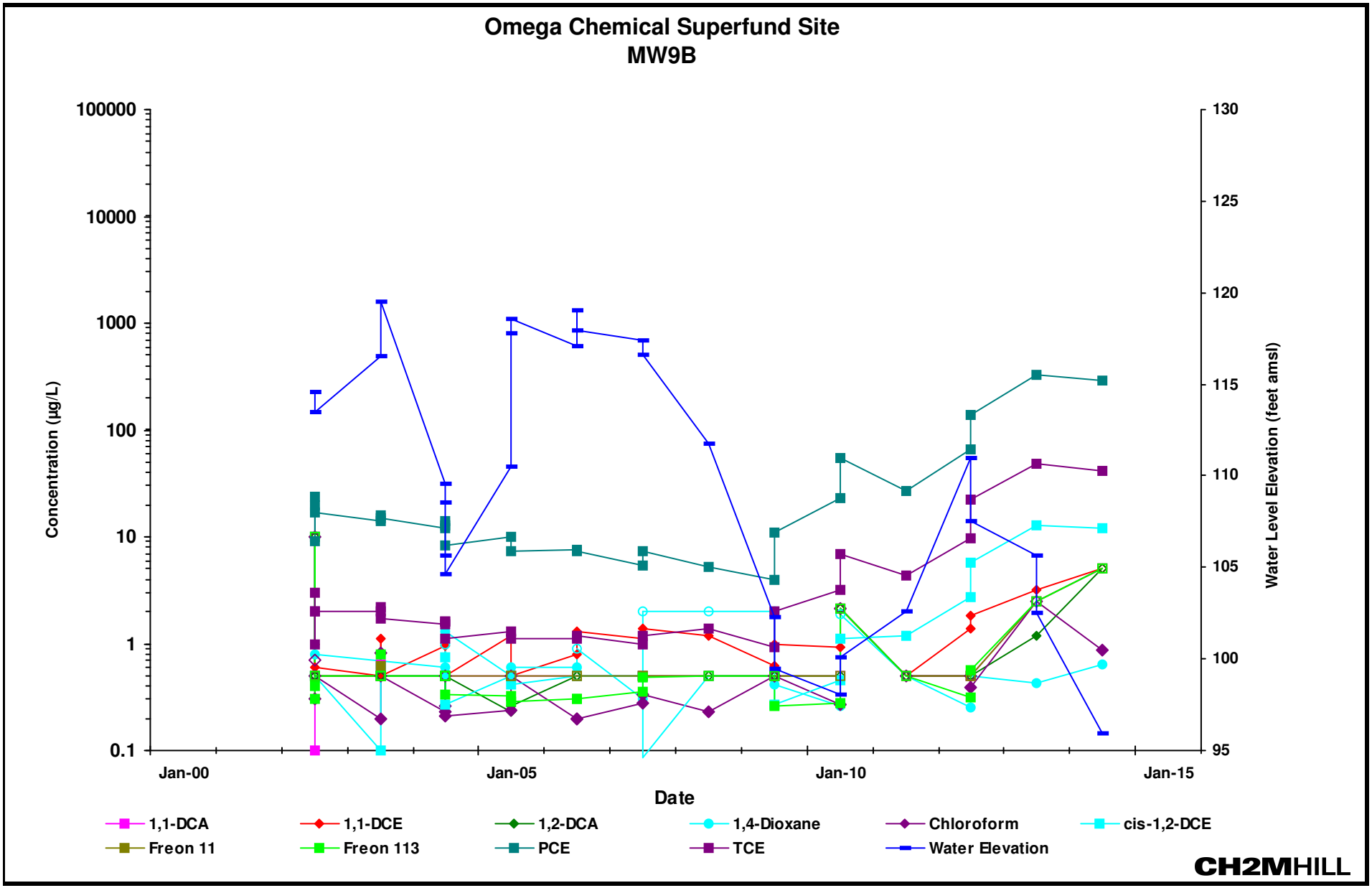

Notes:
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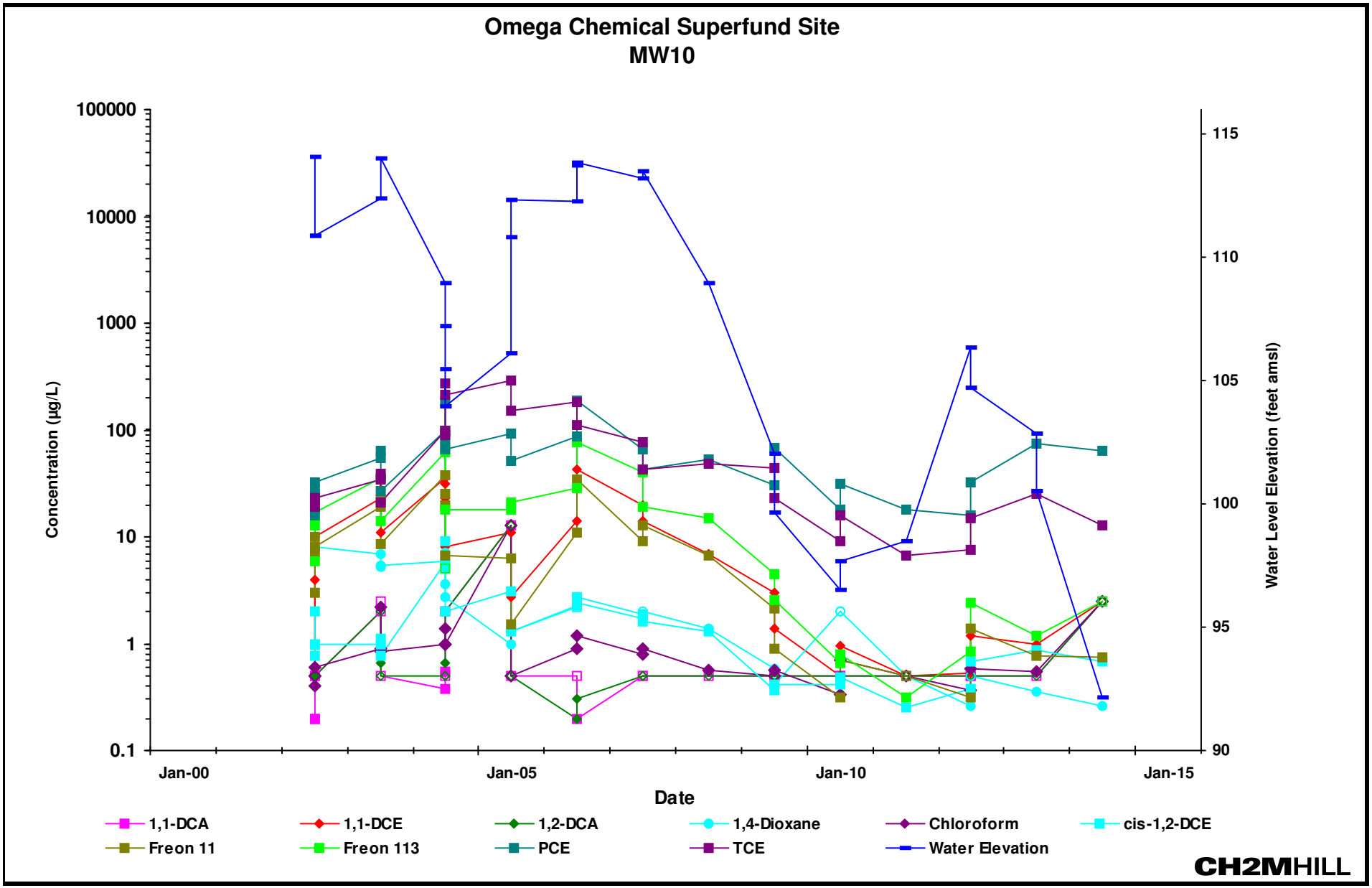

Notes:
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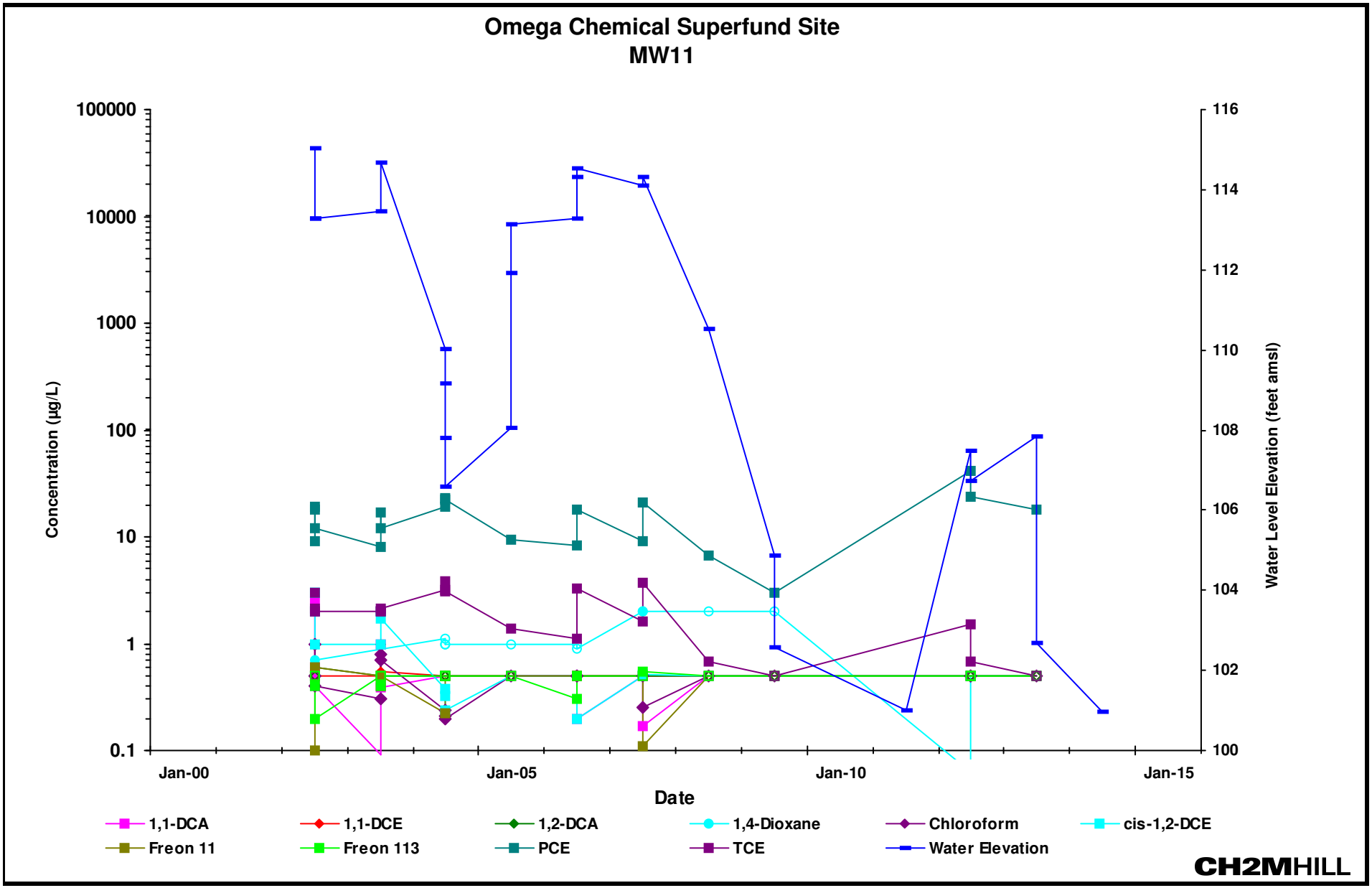

Notes:
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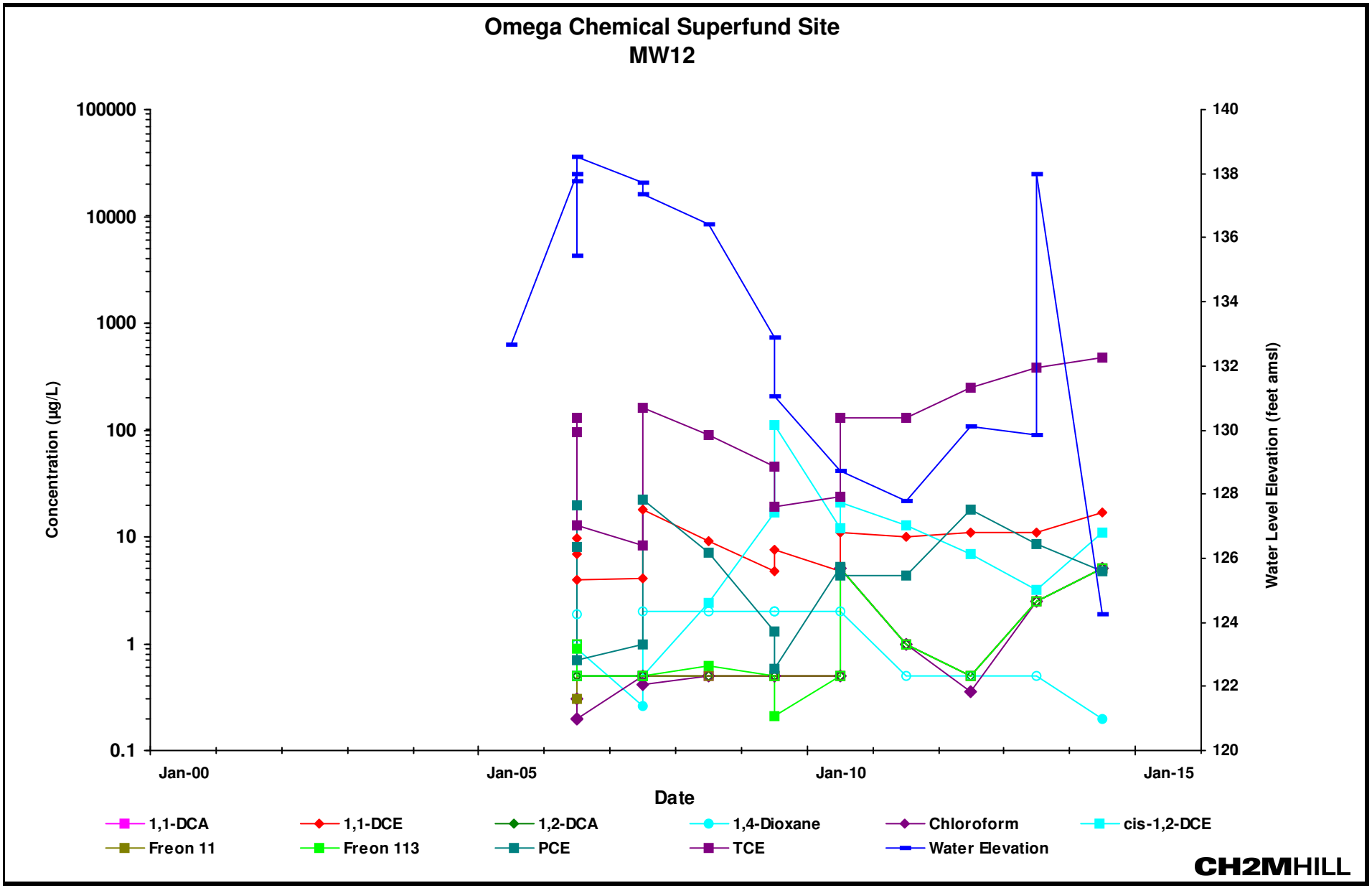

Notes:
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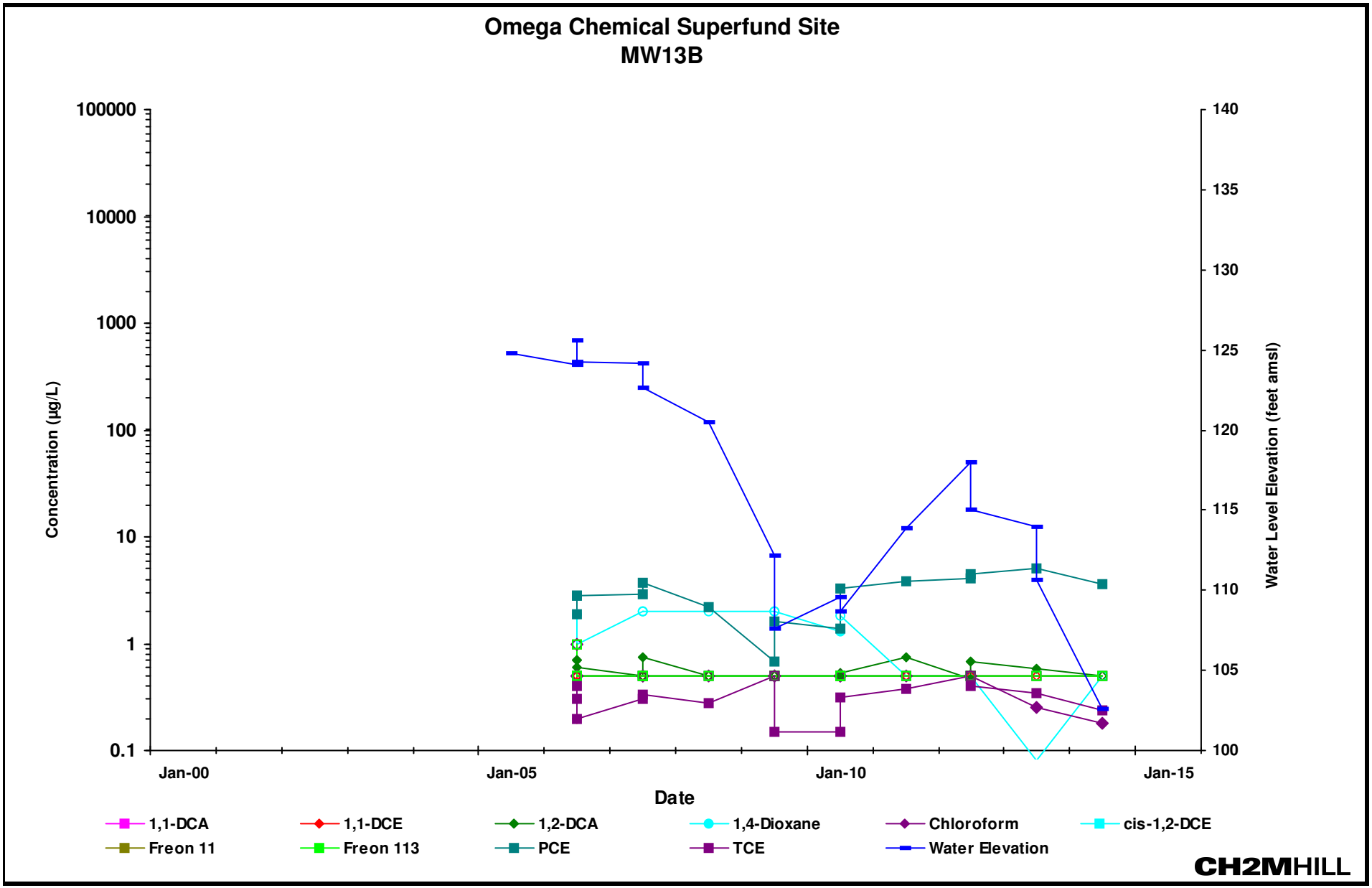

Notes:
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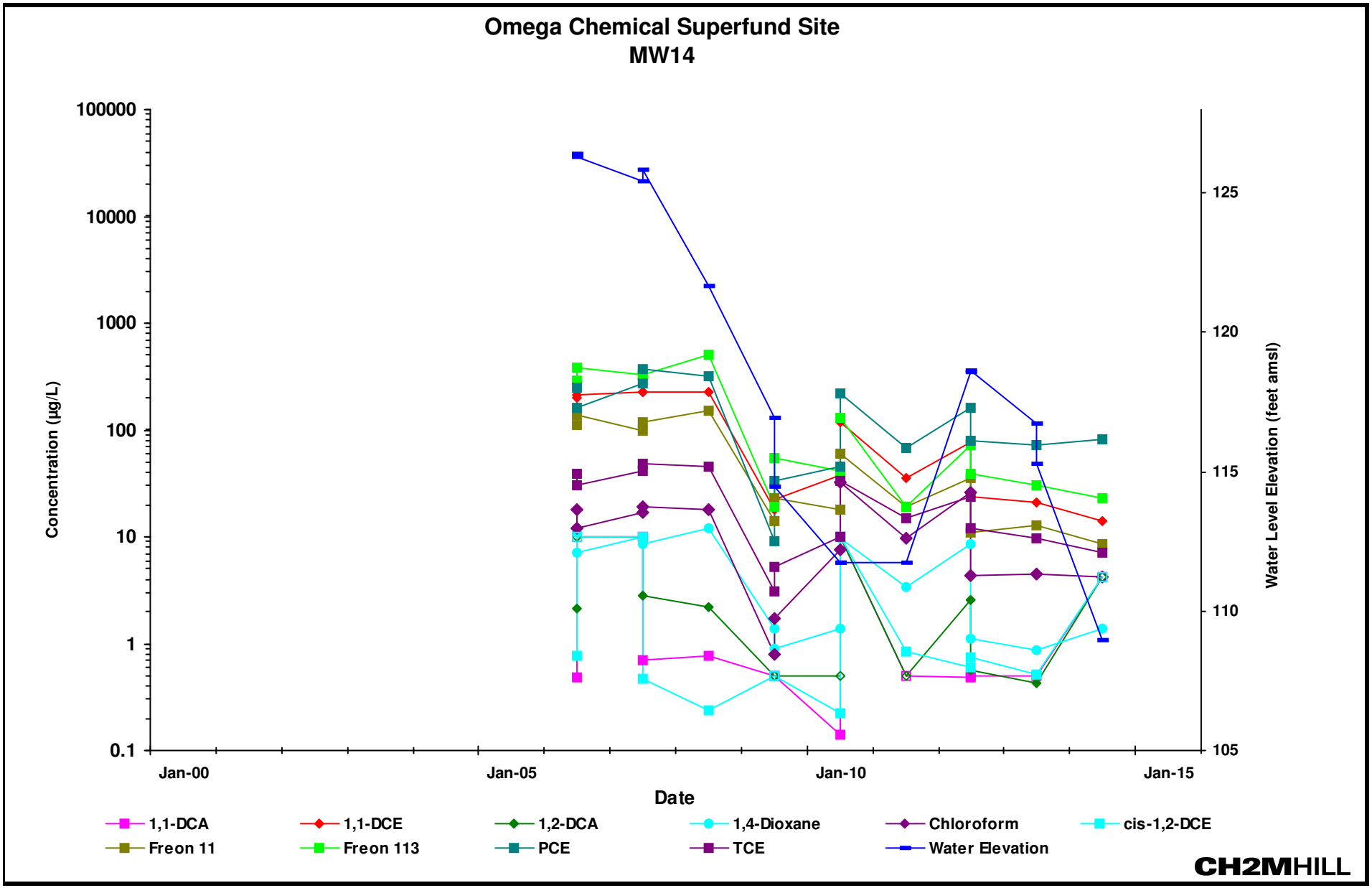

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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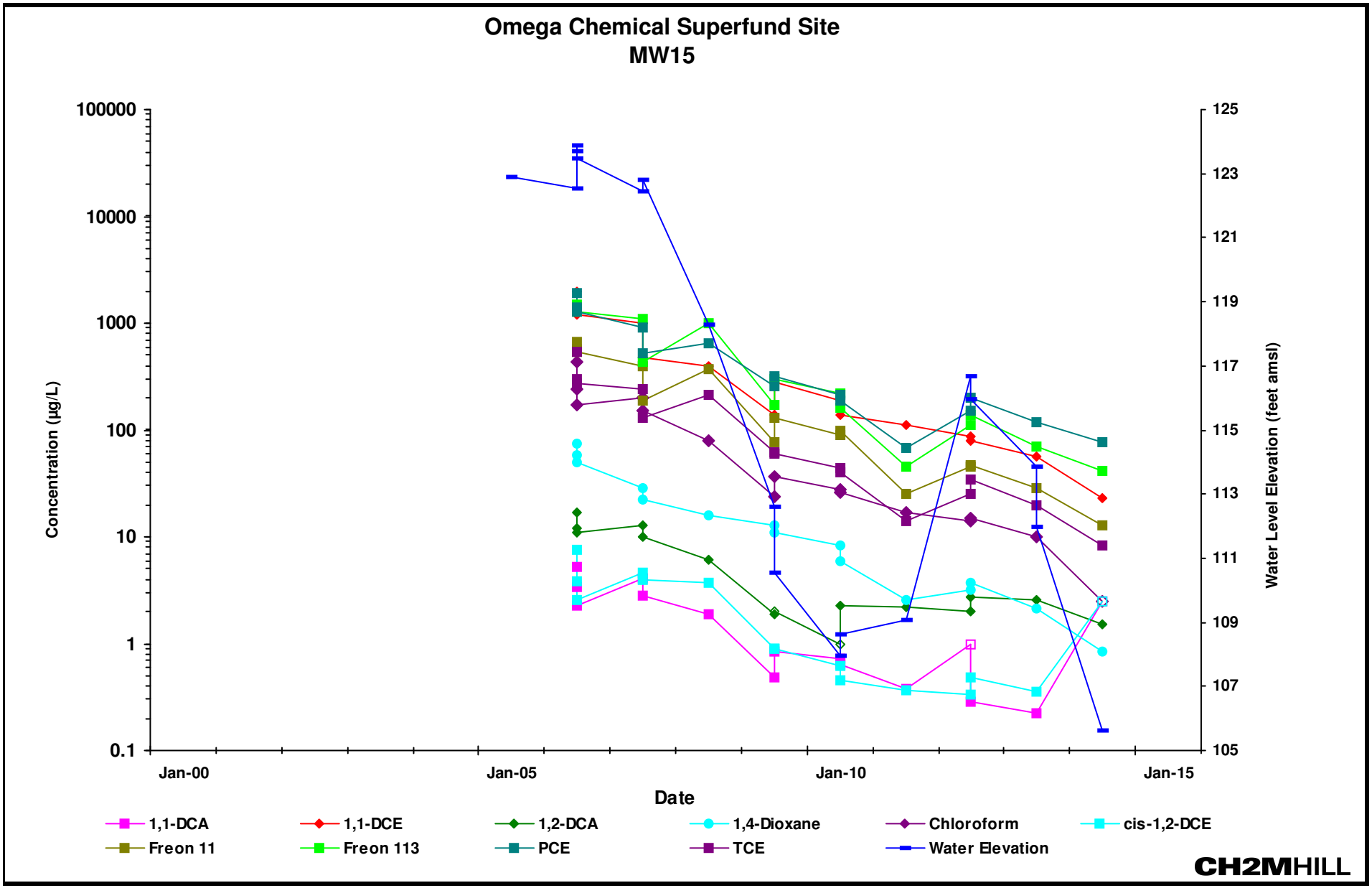

Notes:
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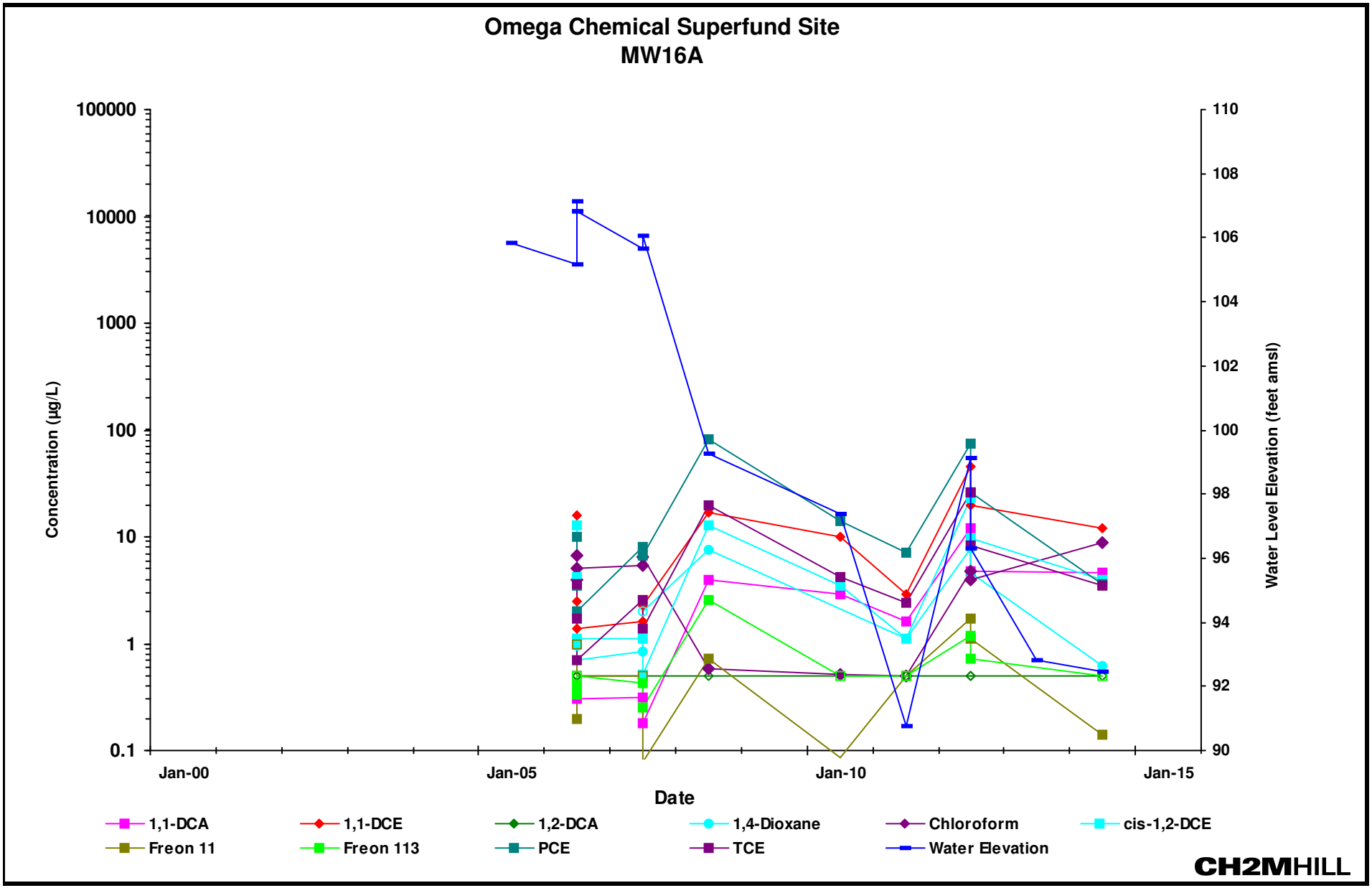

Notes:
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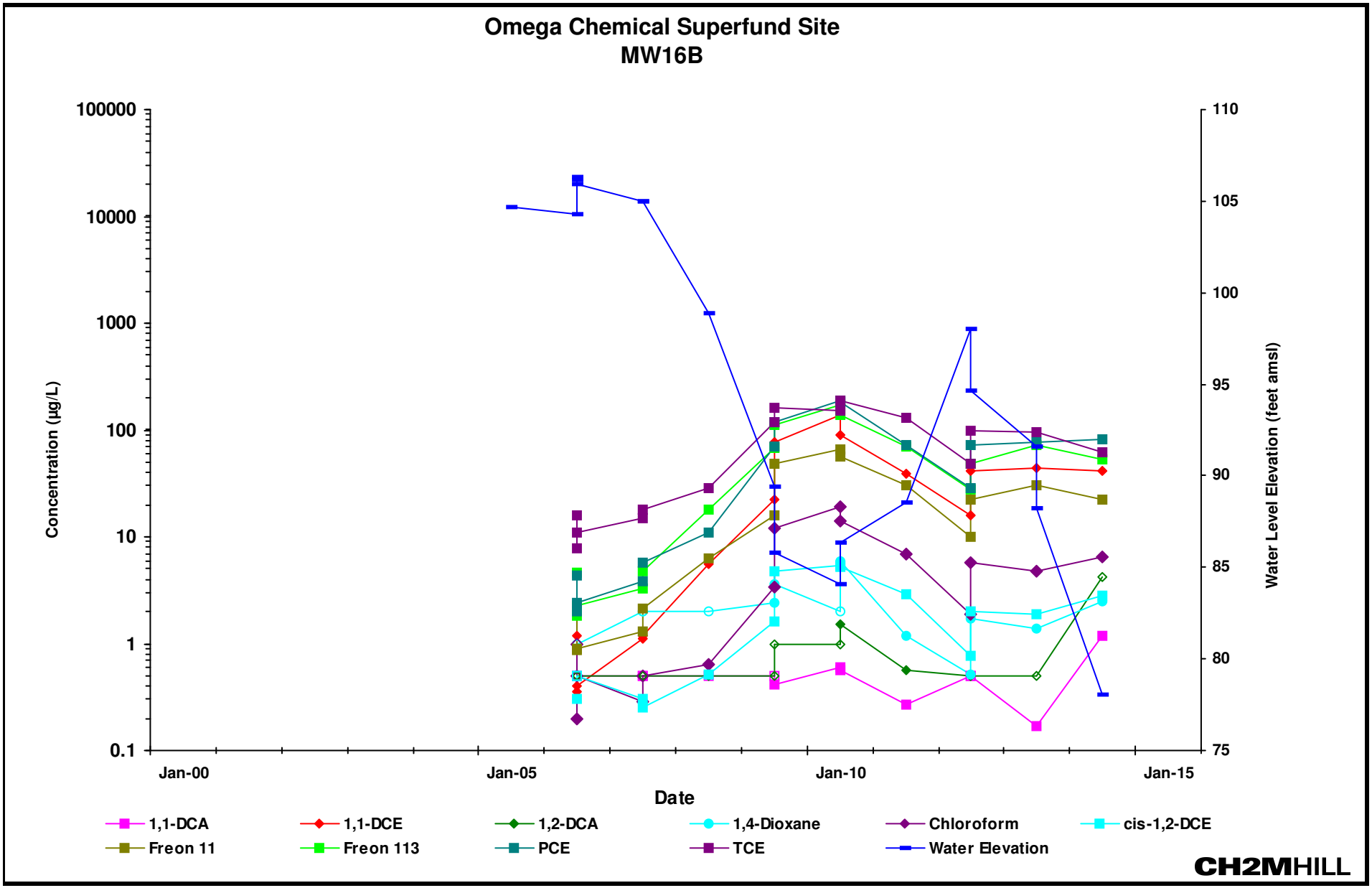

Notes:
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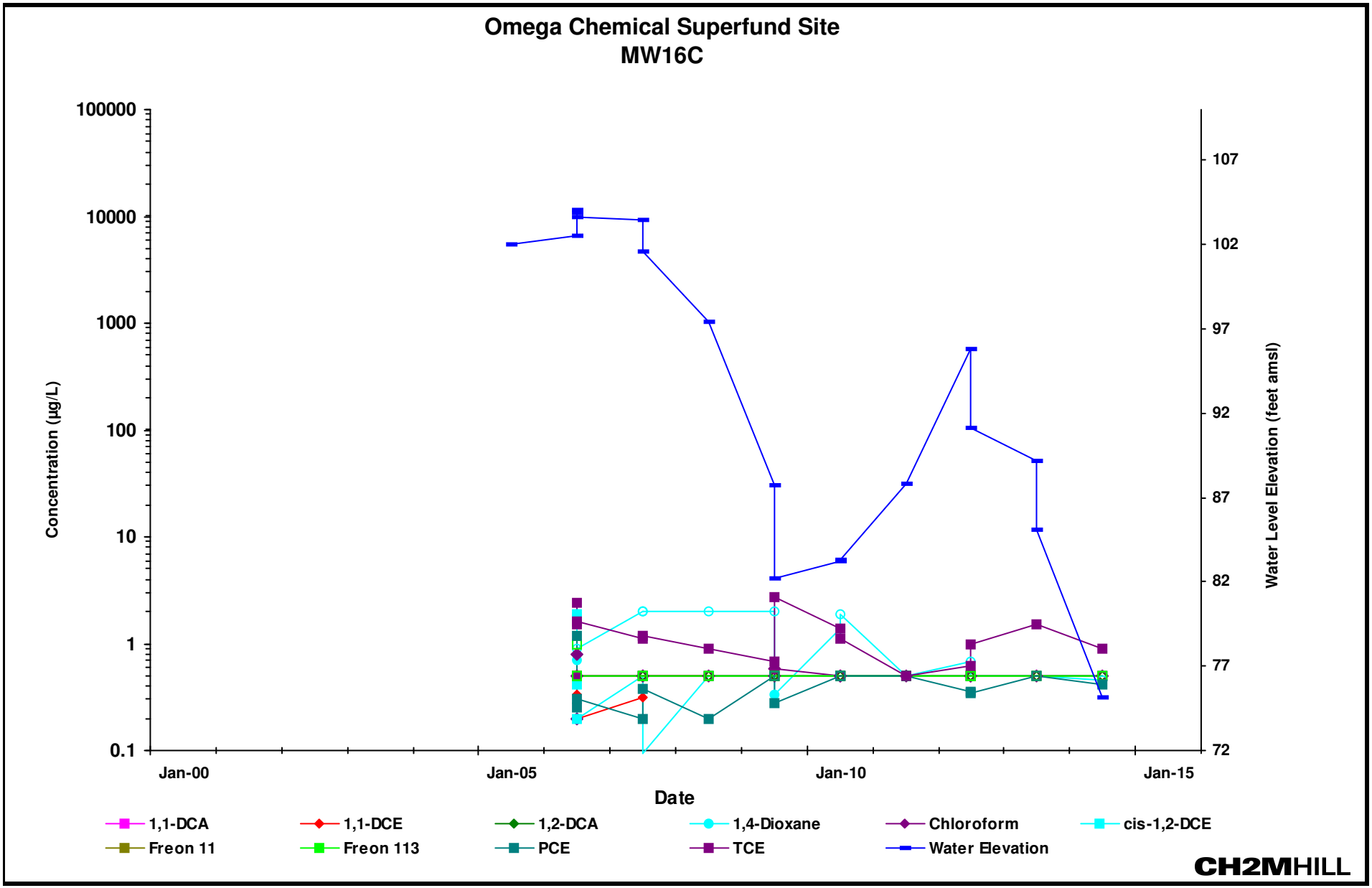

Notes:
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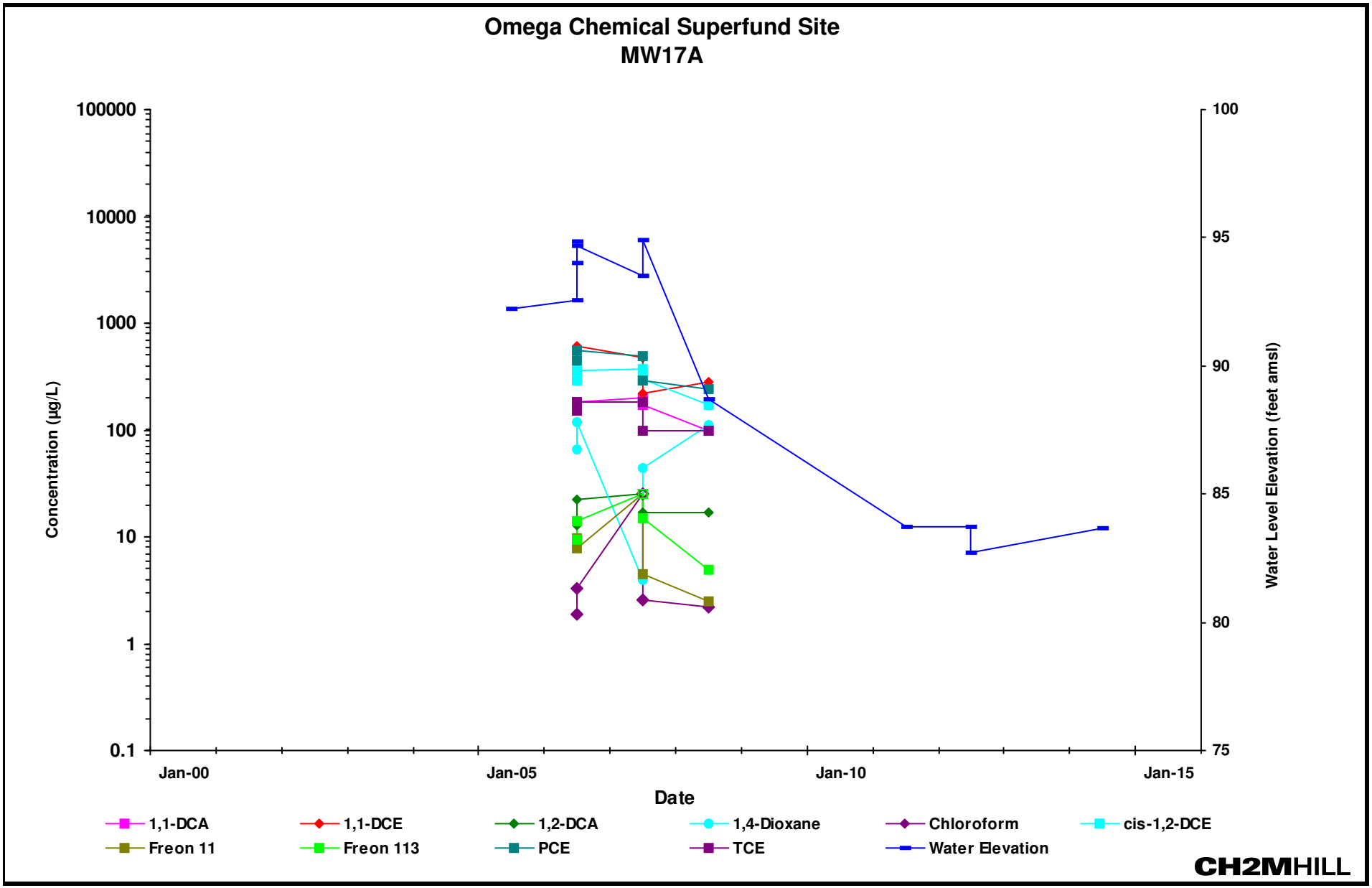

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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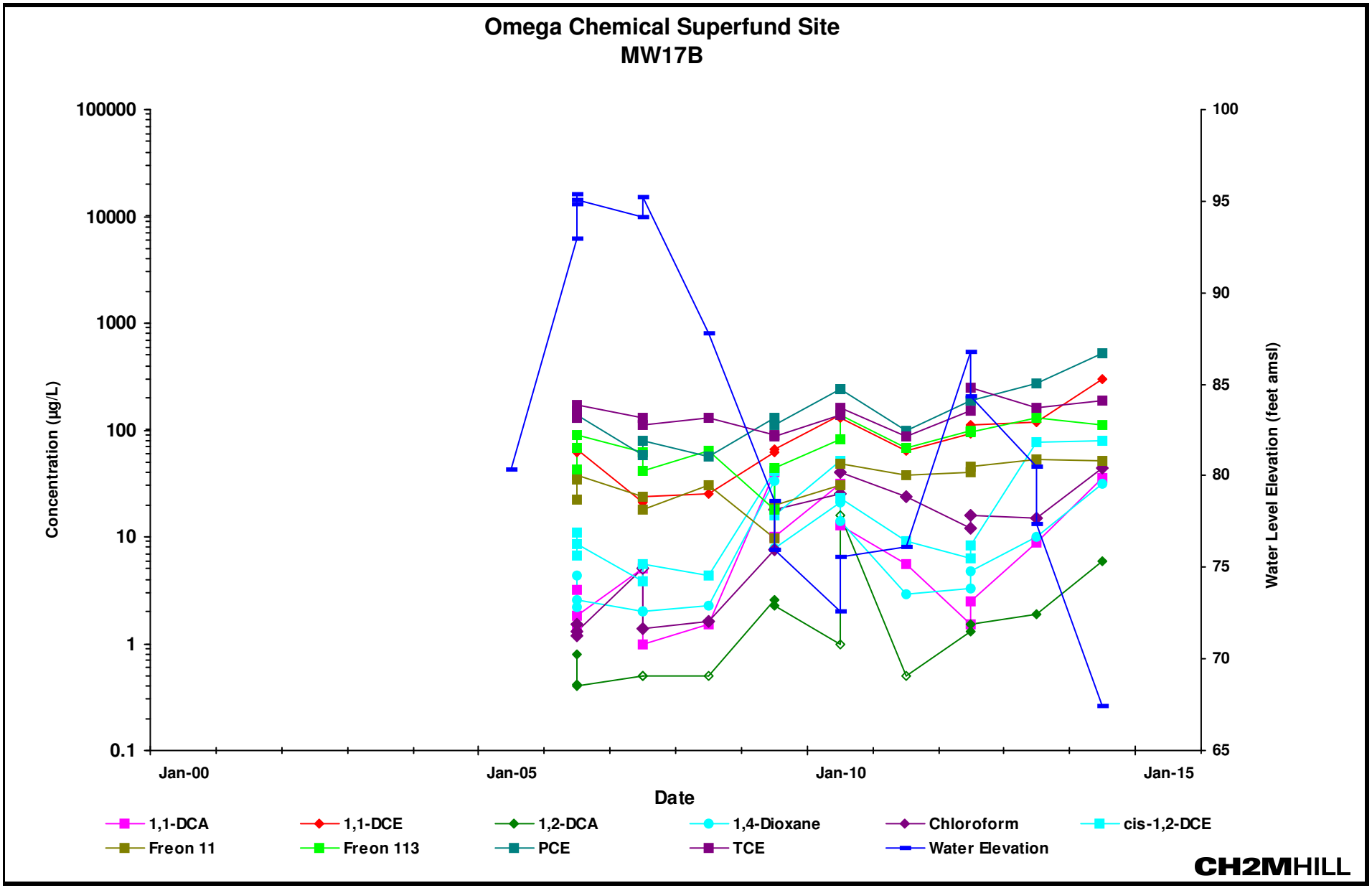

Notes:
1,1-DCA: 1,1-Dichloroethane **1,1-DCE: 1,1-Dichloroethene** **1,2-DCA: 1,2-Dichloroethane** **1,4-Dioxane: 1,4-Dioxane (p-dioxane)** **cis-1,2-DCE: cis-1,2-Dichloroethene**
Freon 11: Trichlorofluoromethane **Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane** **PCE: Tetrachloroethene** **TCE: Trichloroethene**
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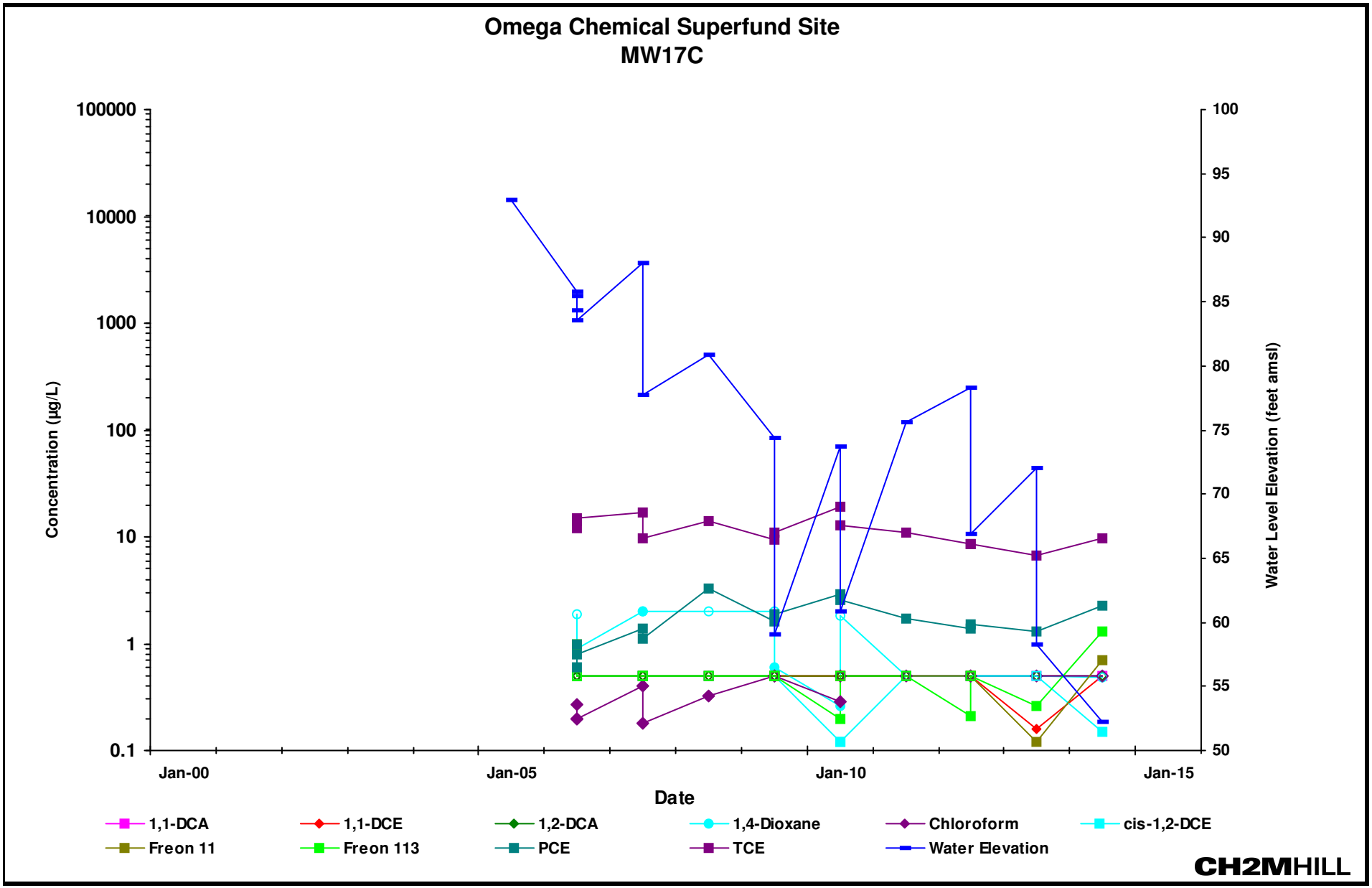

Notes:
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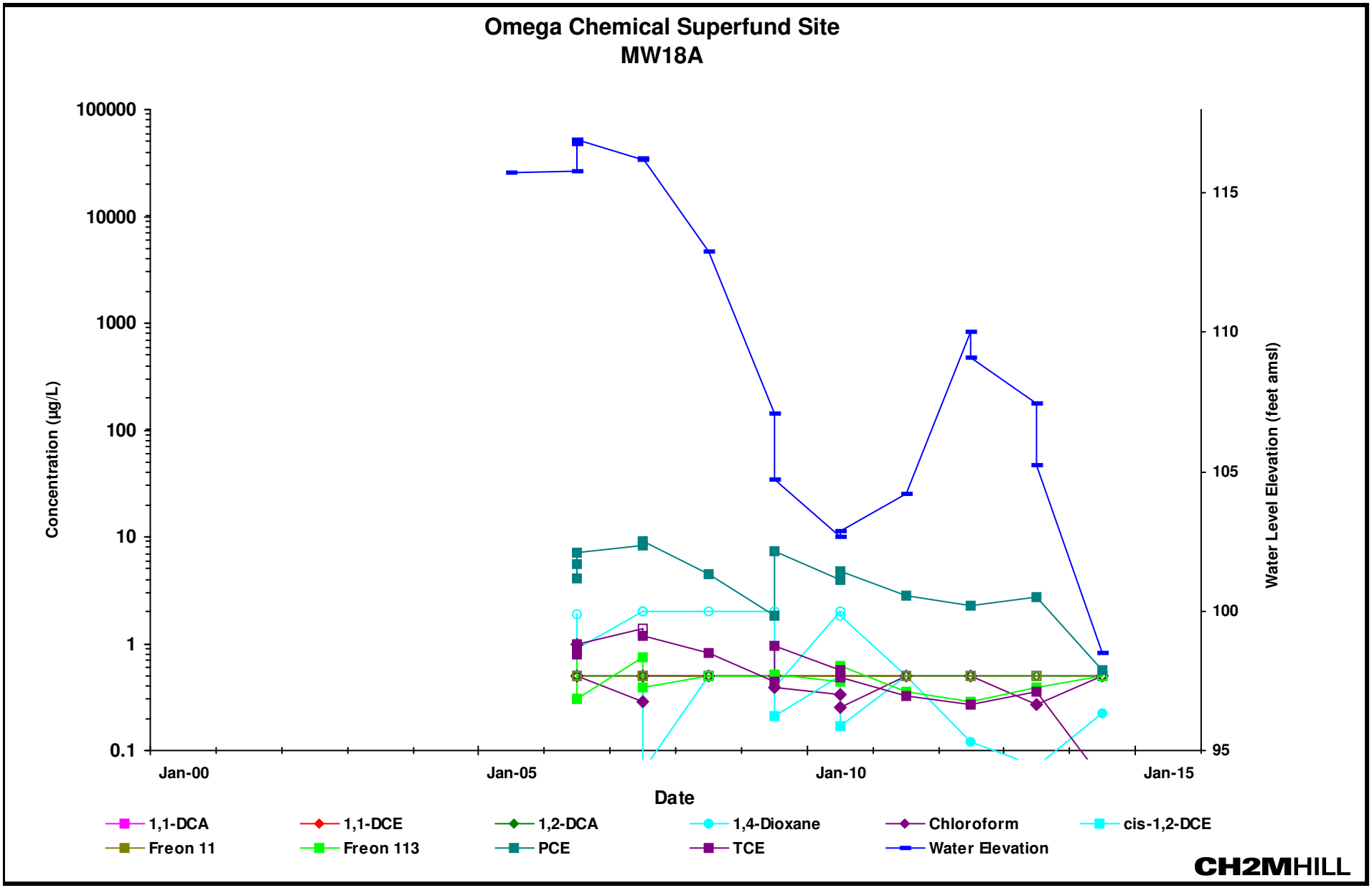

Notes:
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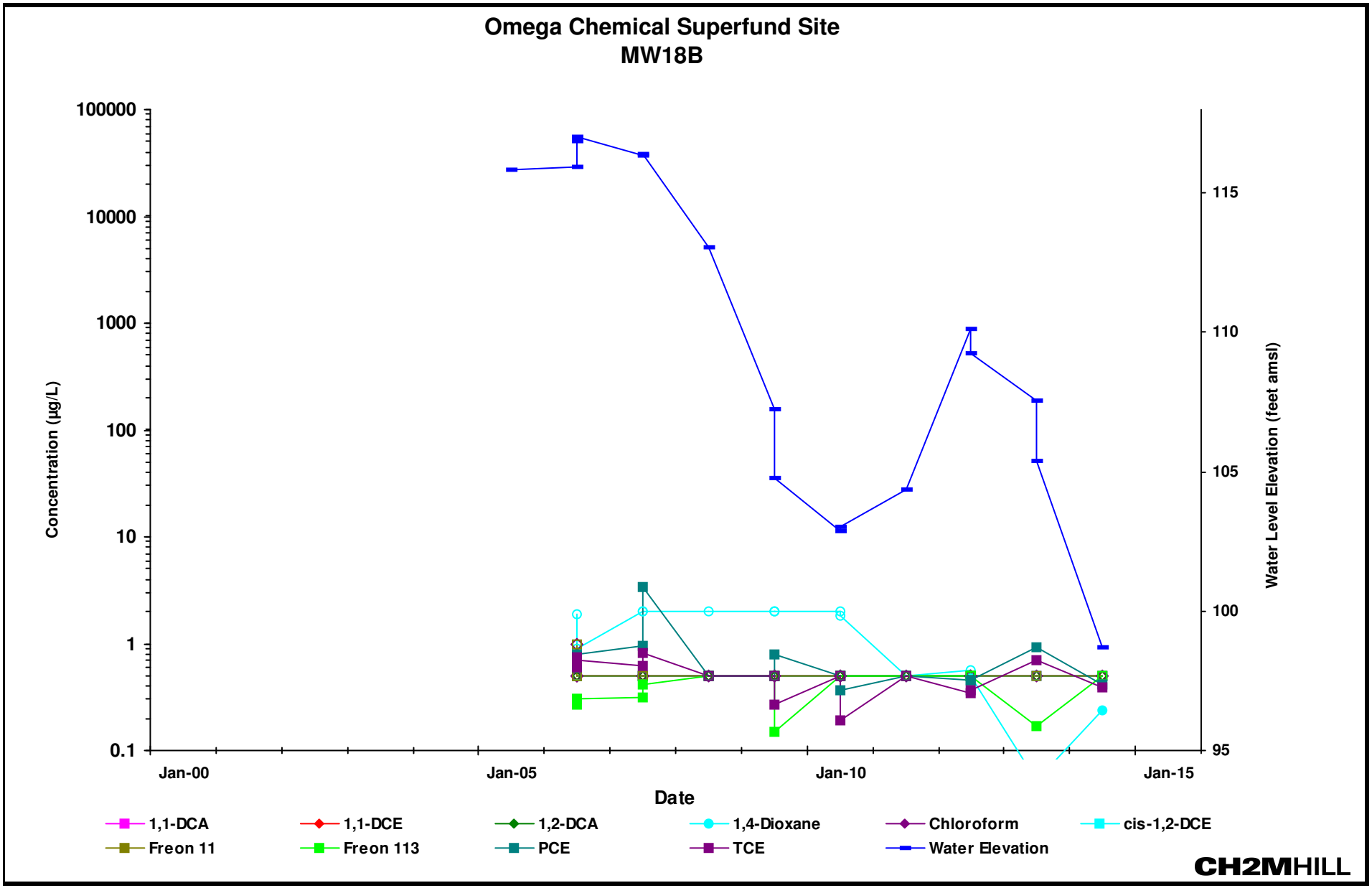

Notes:
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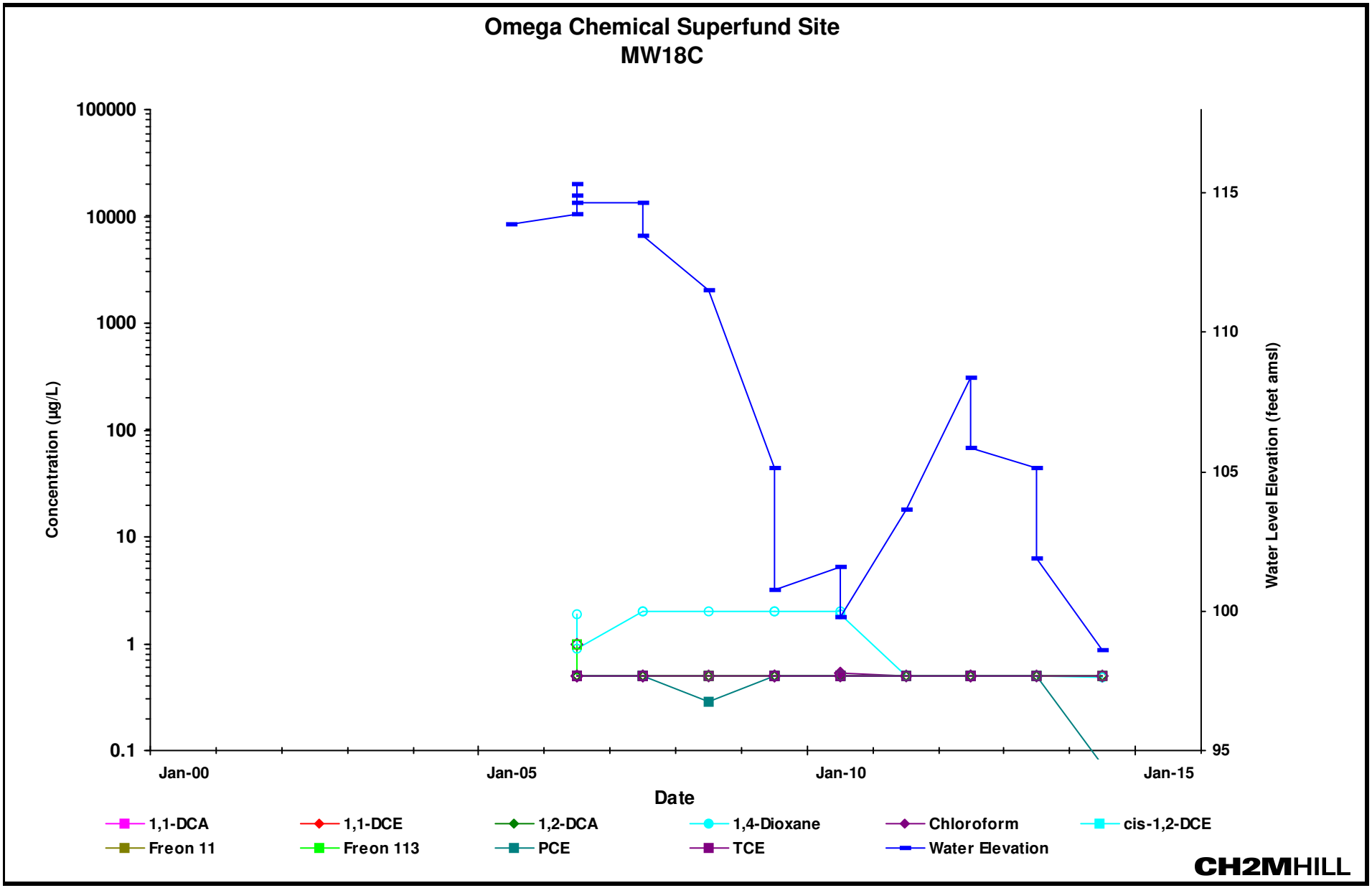

Notes:
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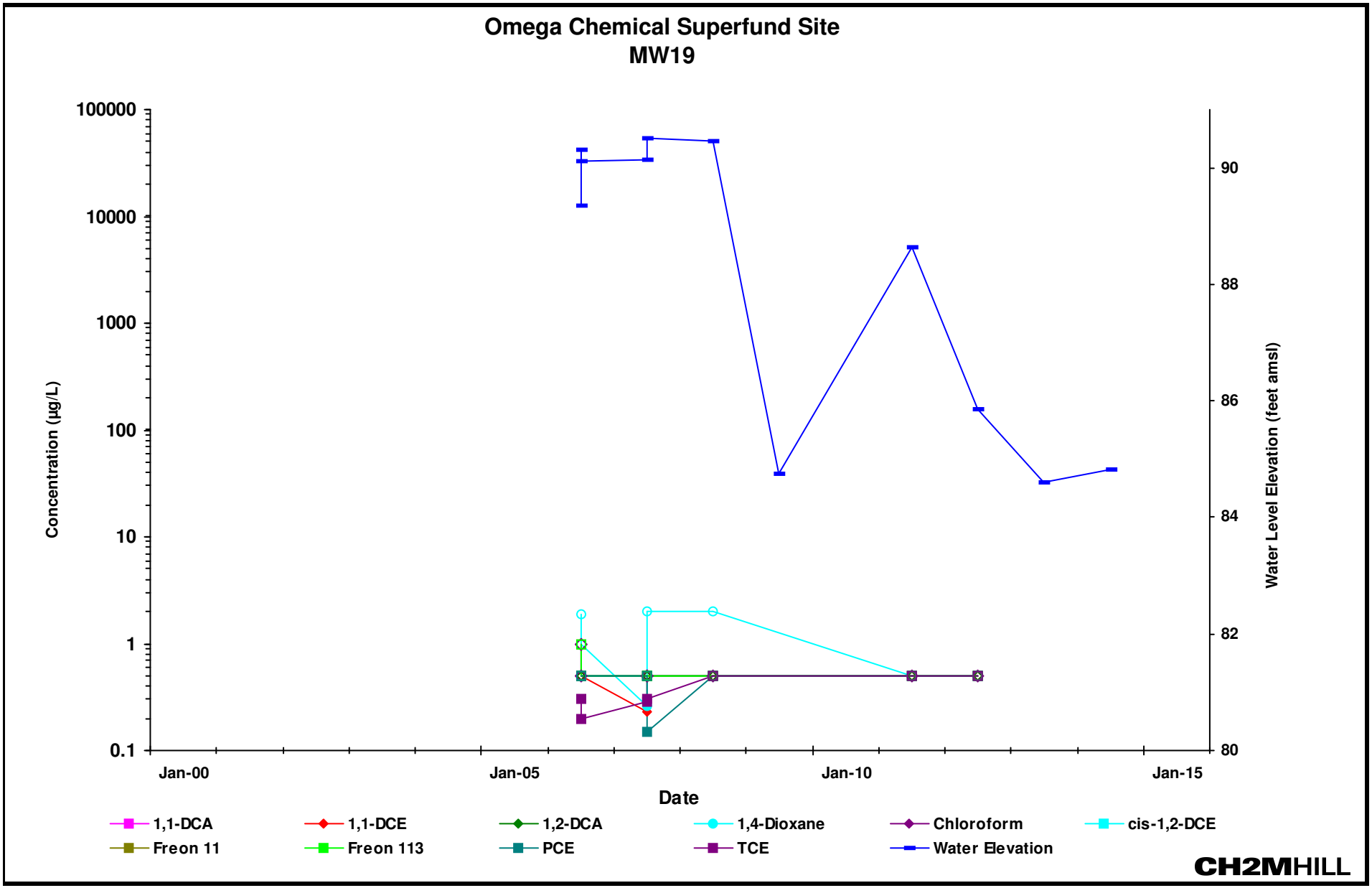

Notes:
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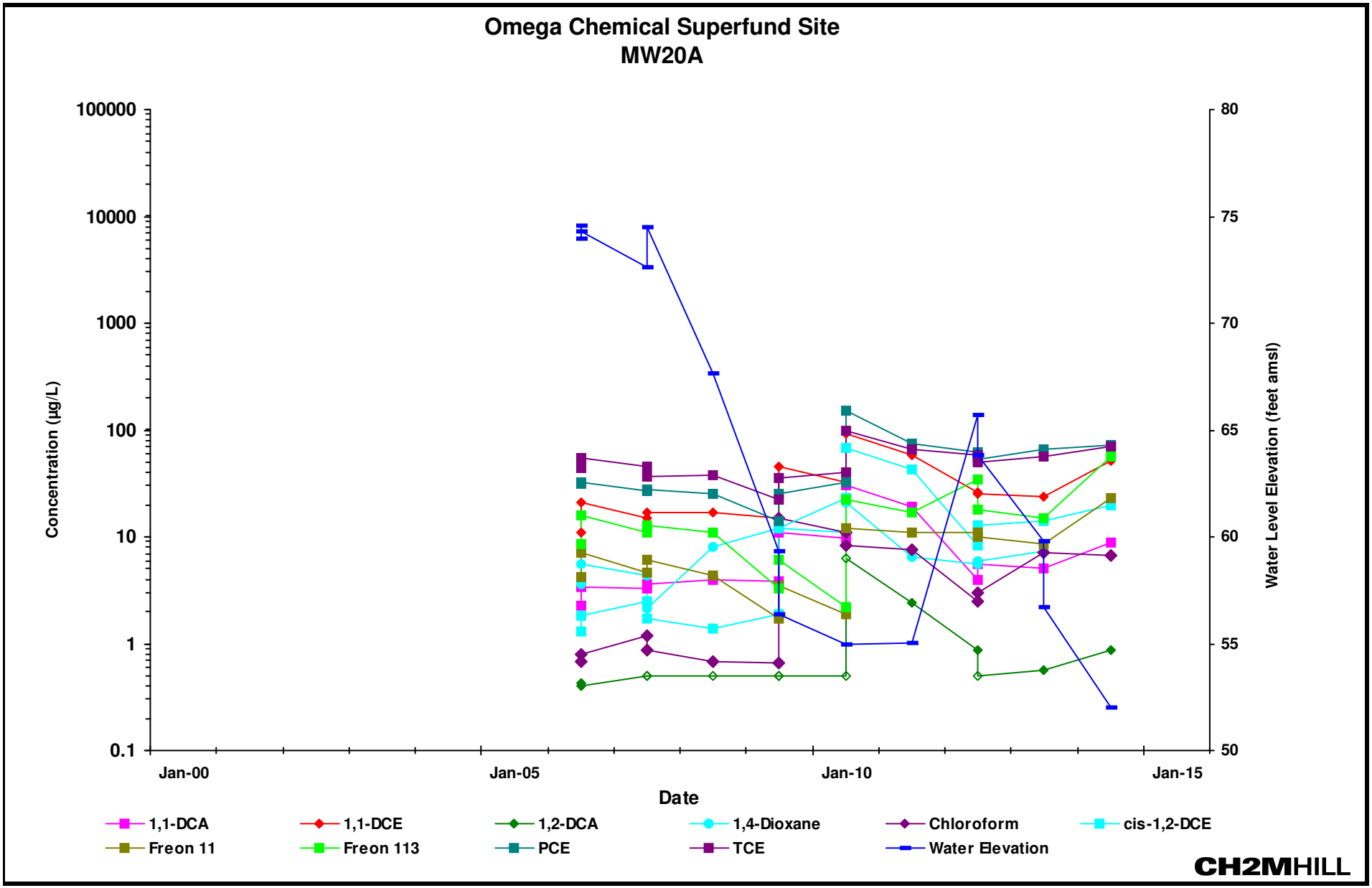

Notes:
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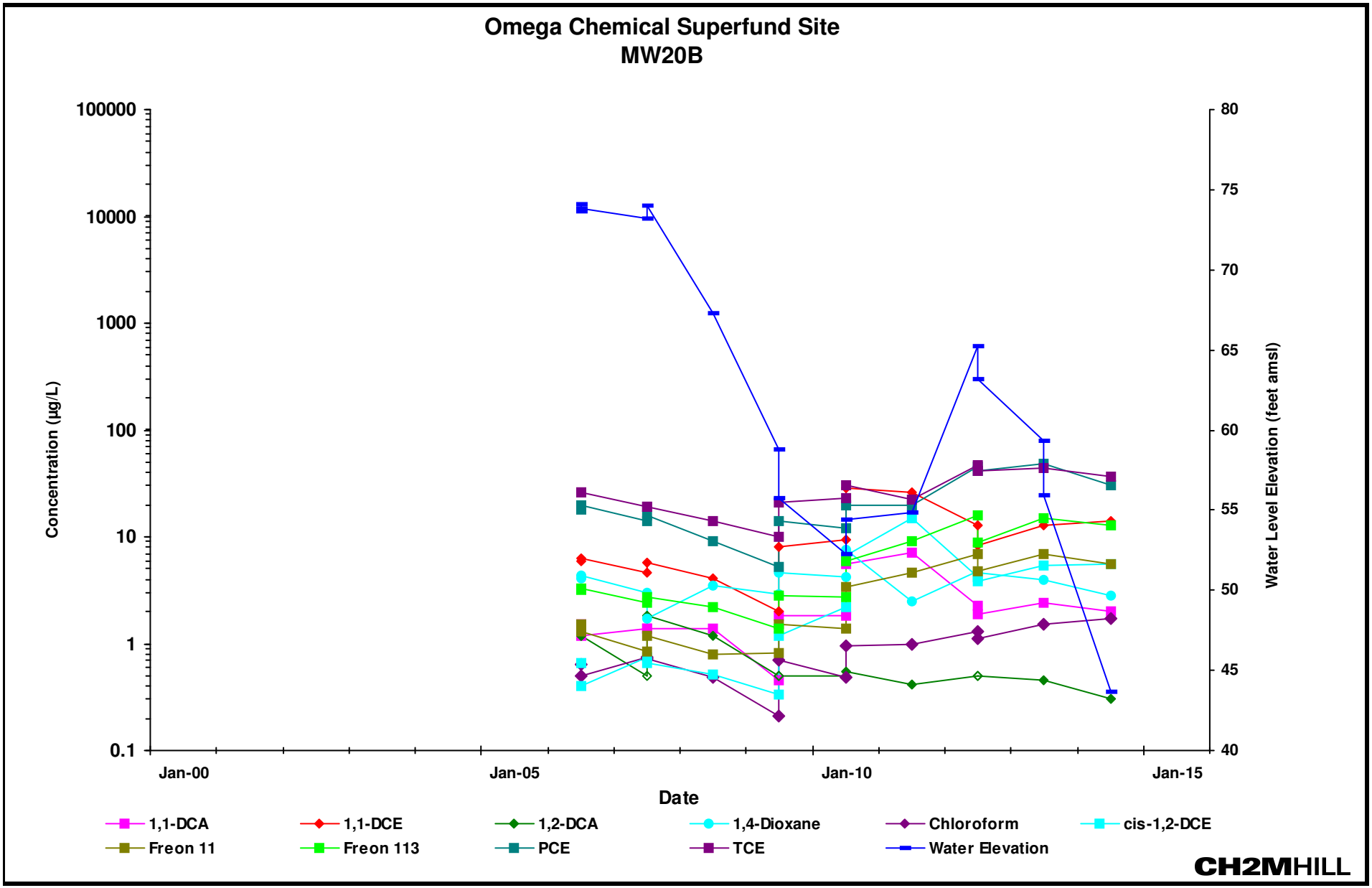

Notes:
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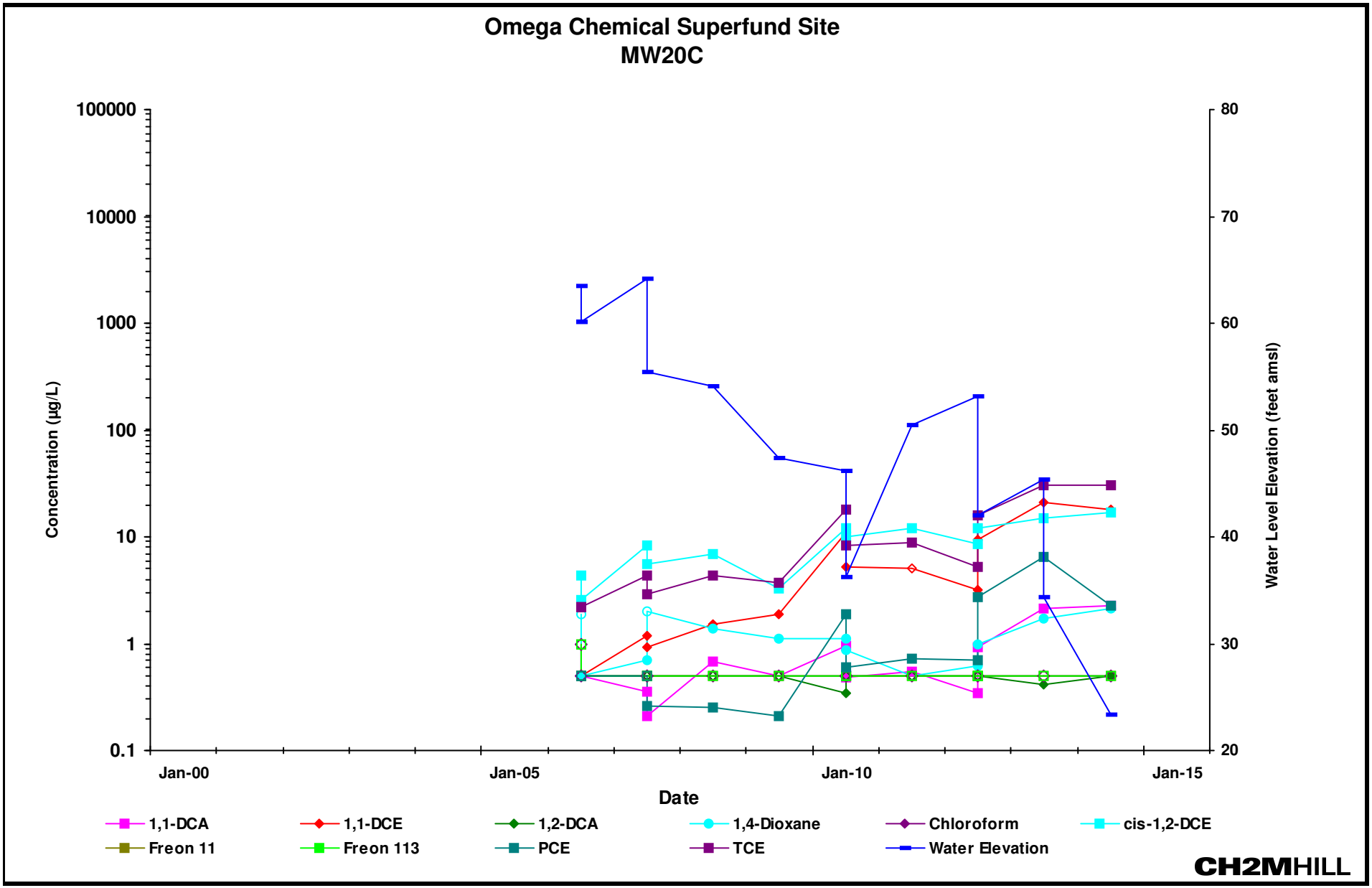

Notes:
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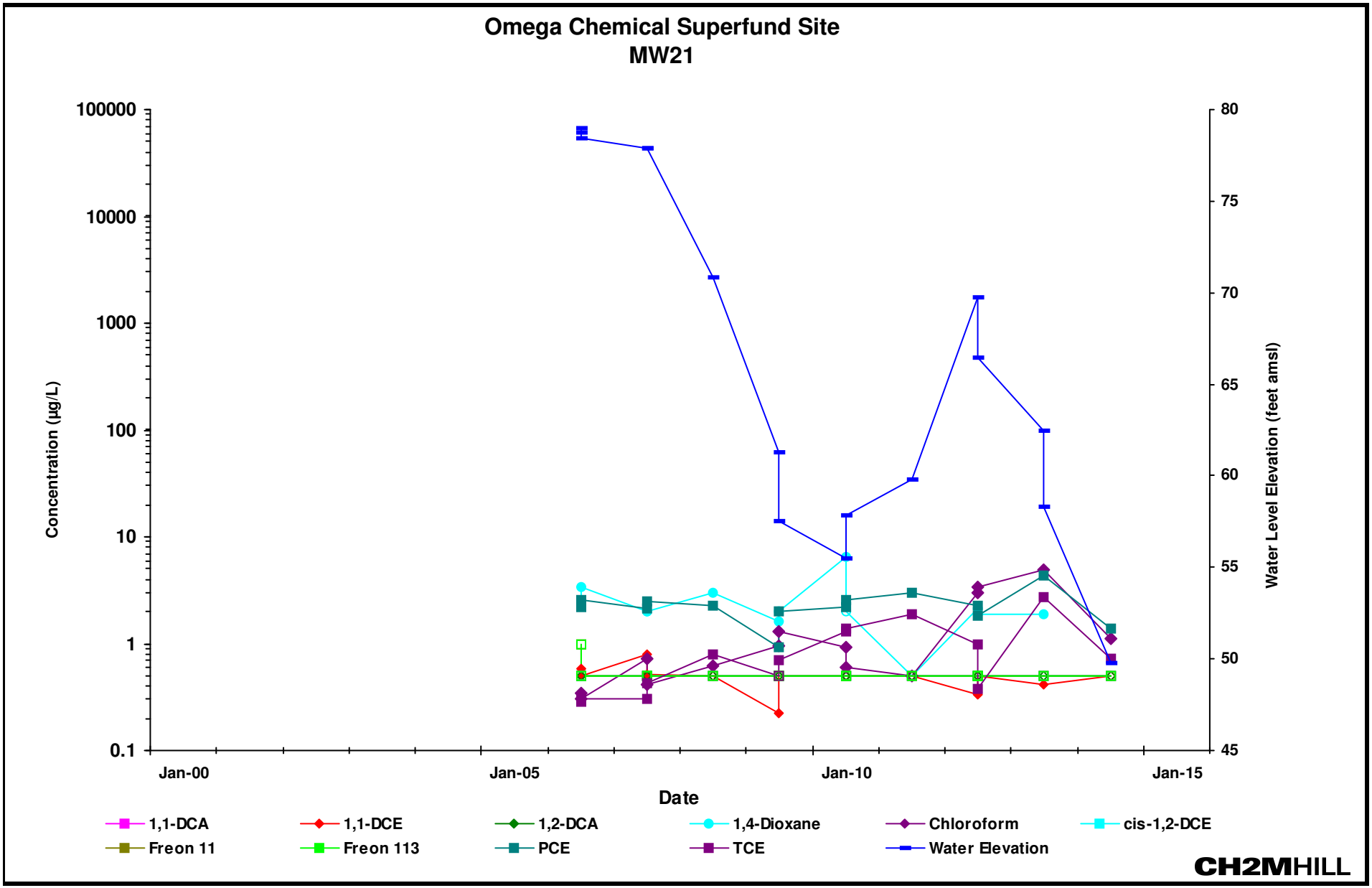

Notes:
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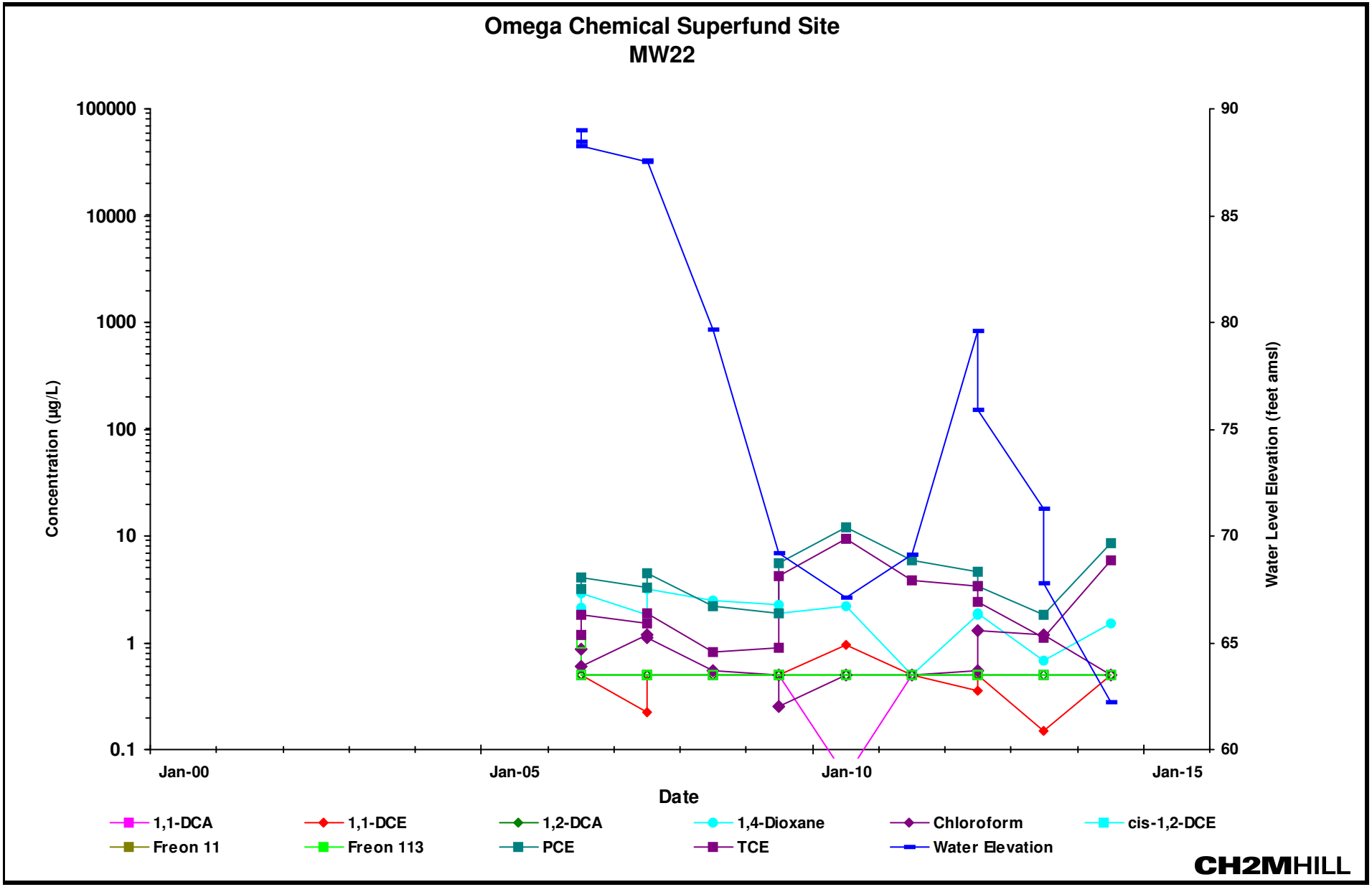

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Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
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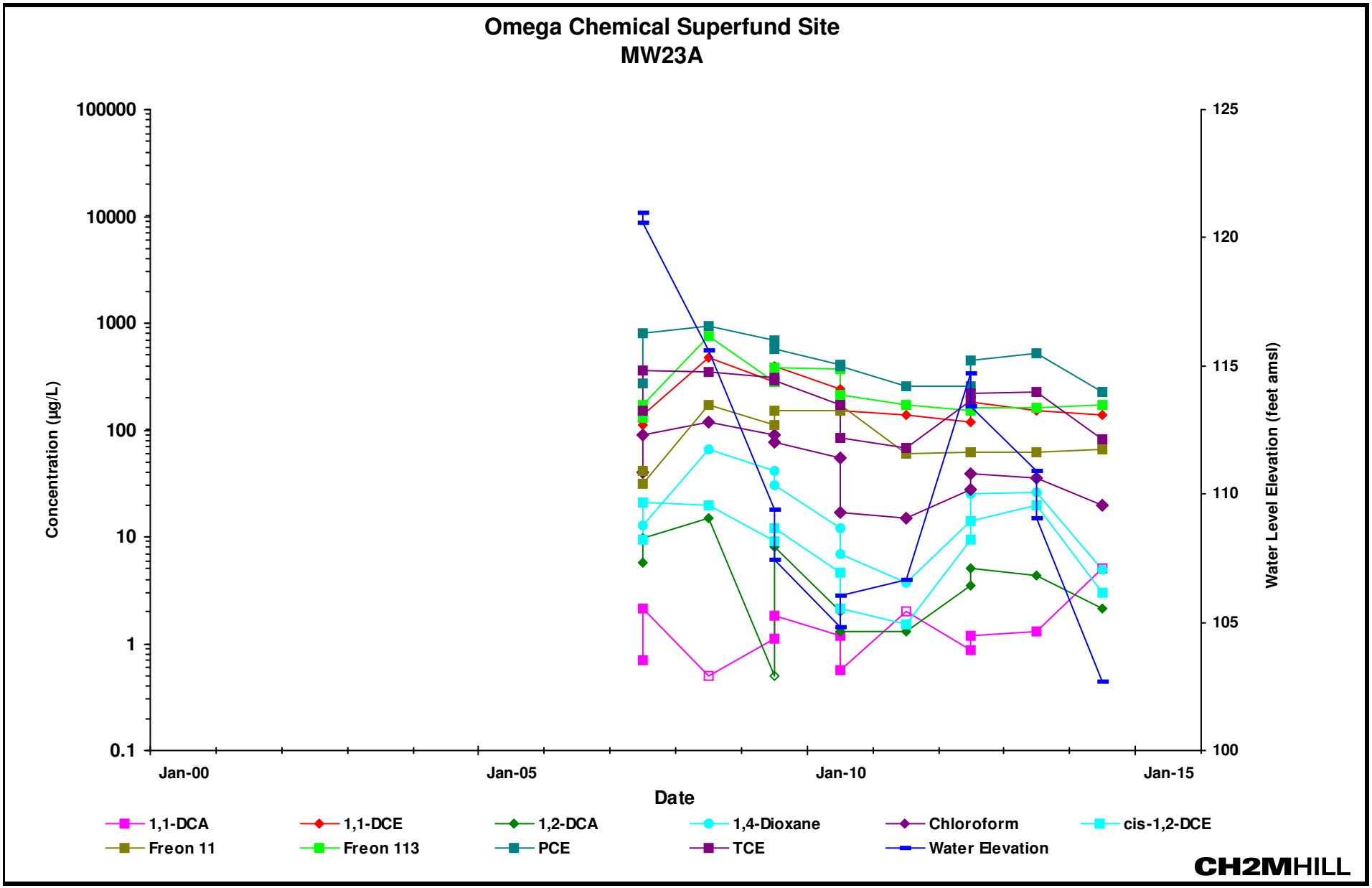
amsl: above mean sea level



Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
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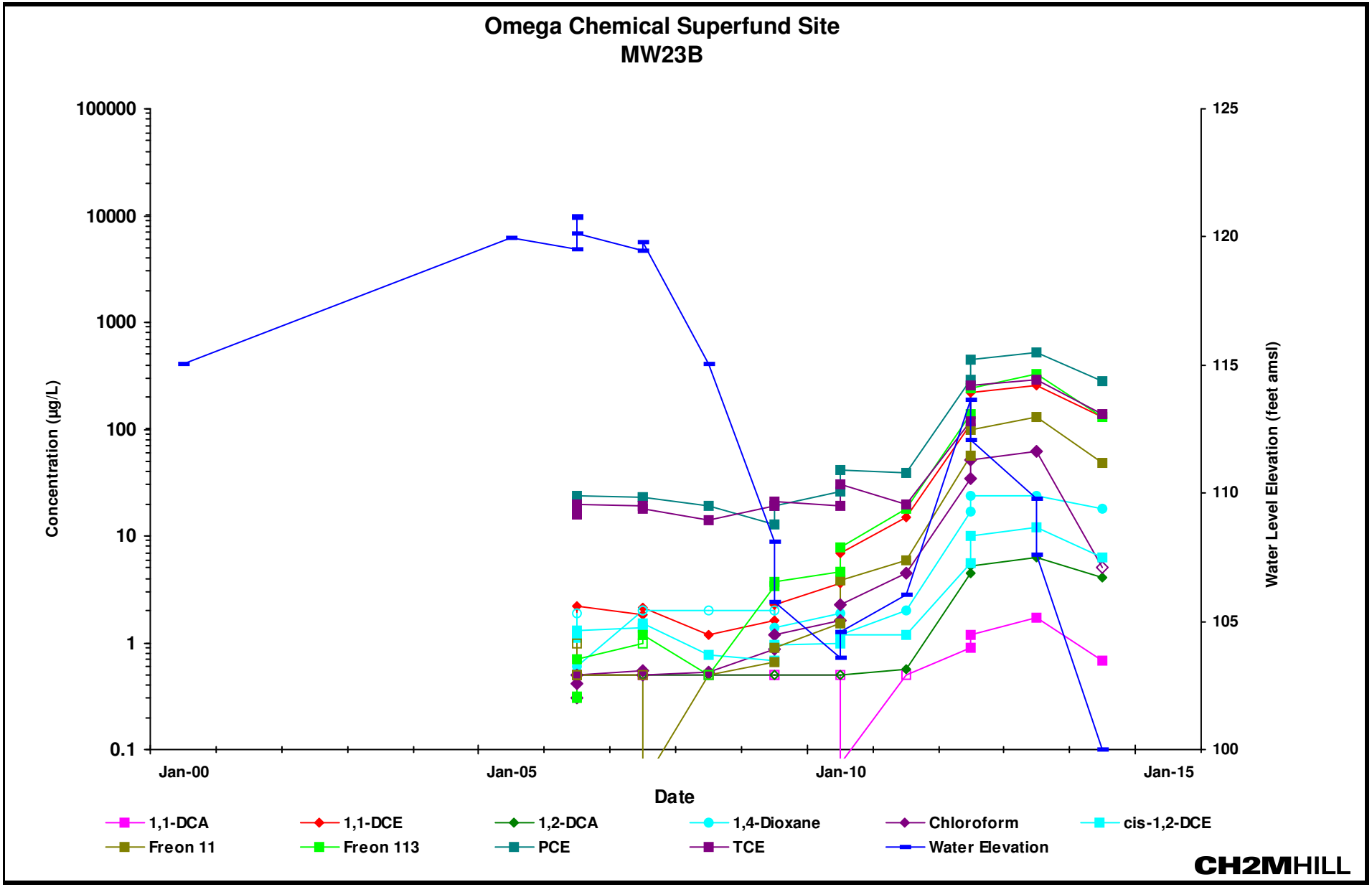

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
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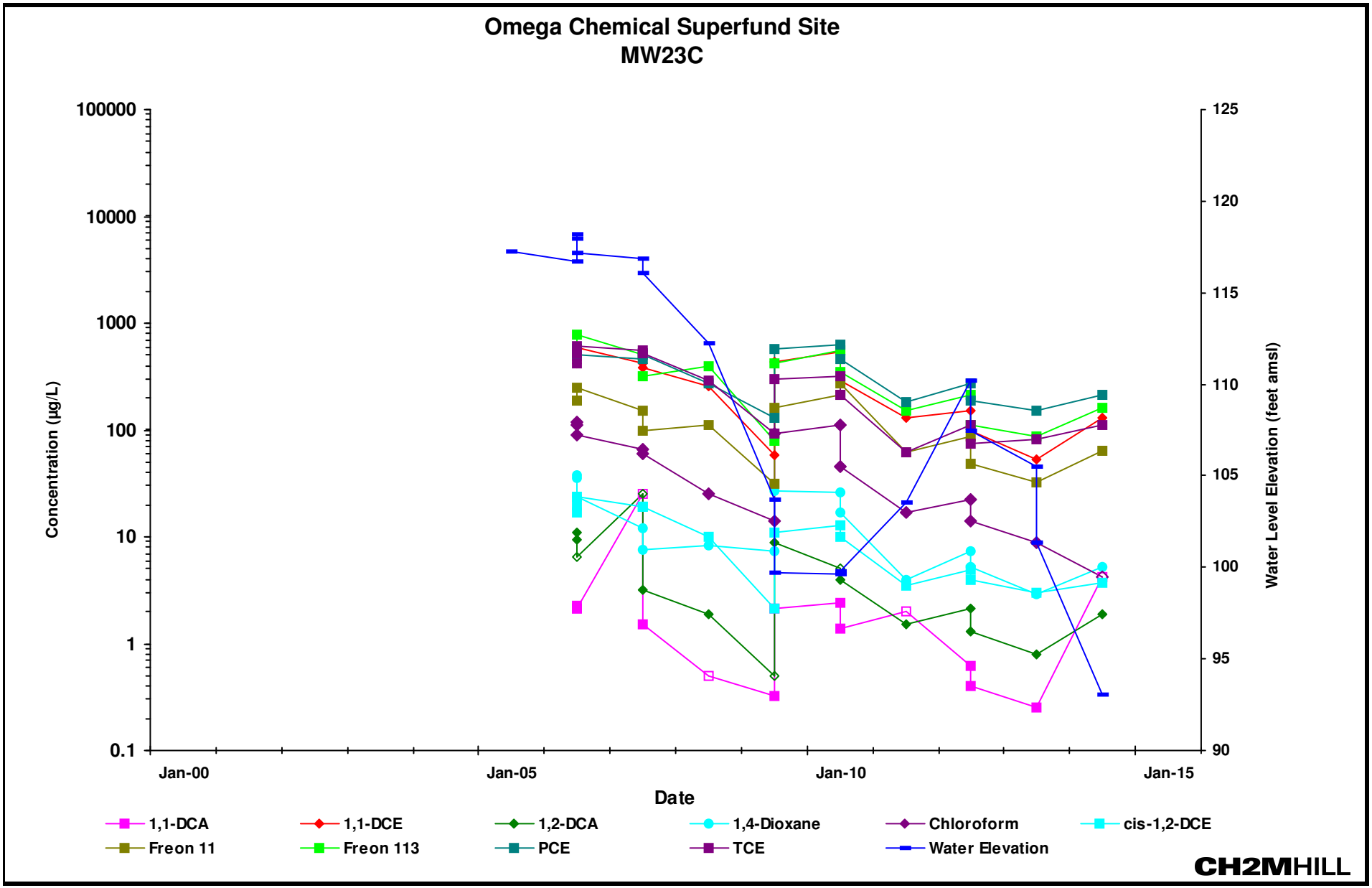

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
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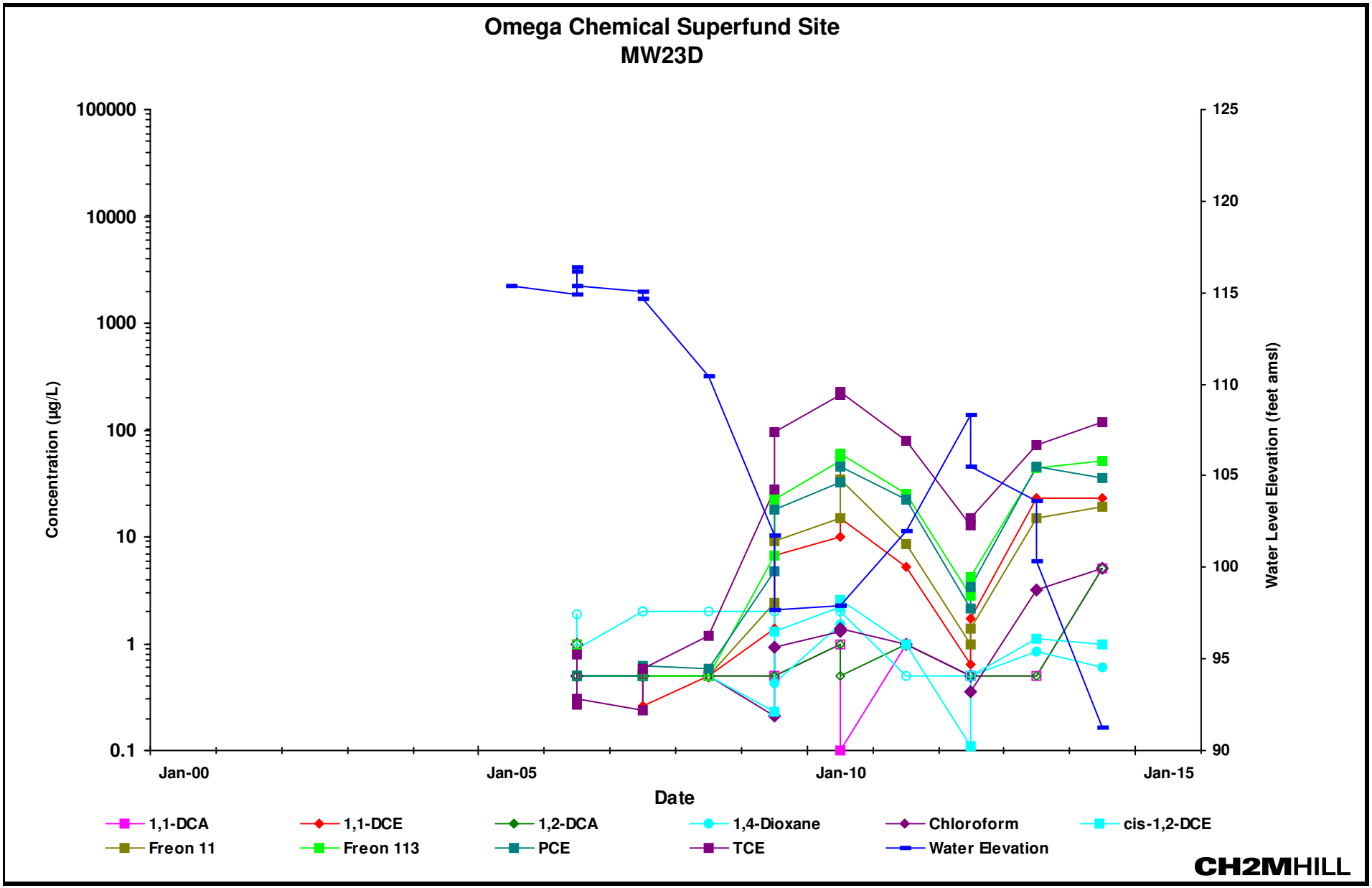

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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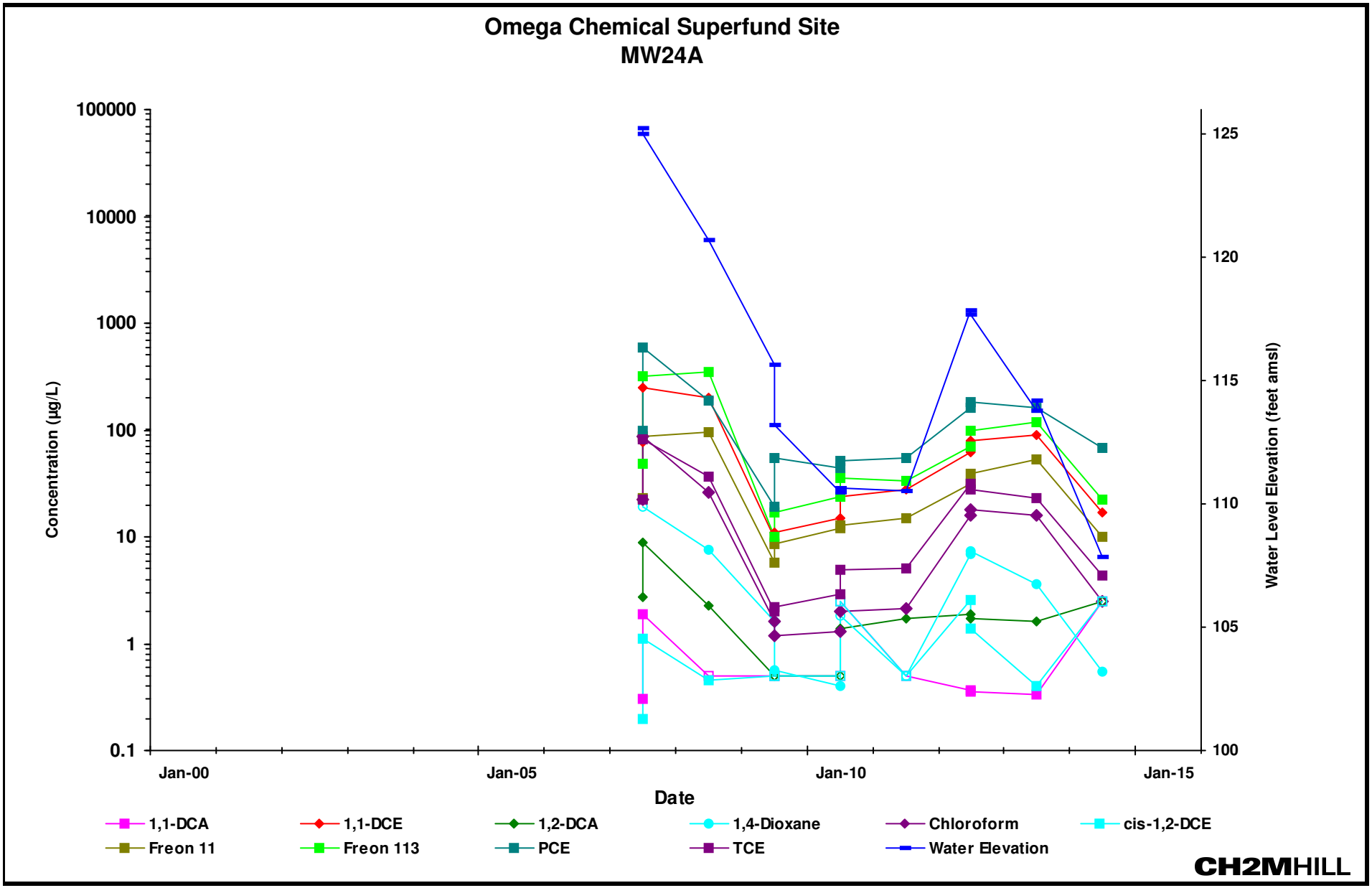

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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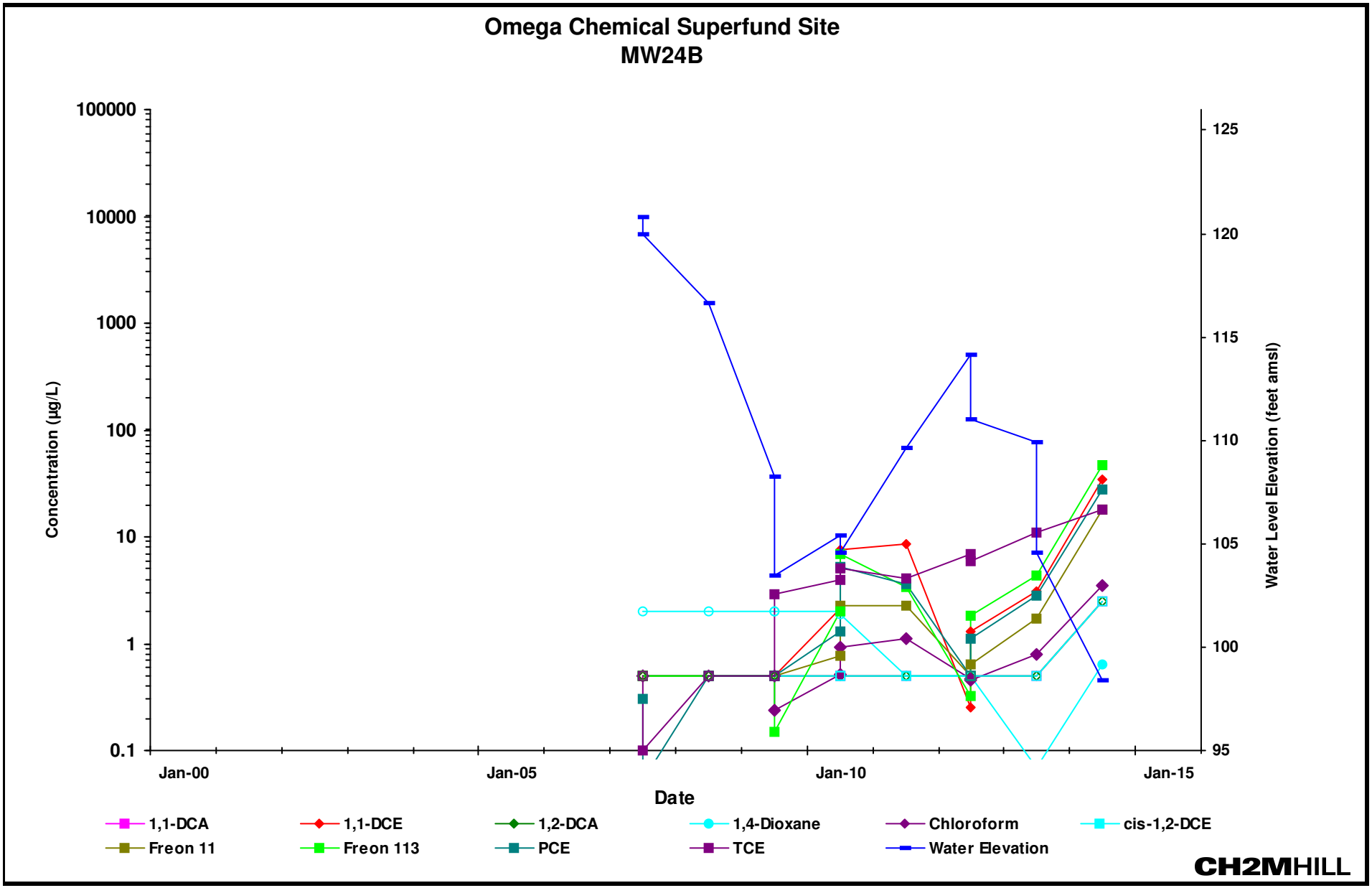

Notes:
1,1-DCA: 1,1-Dichloroethane **1,1-DCE: 1,1-Dichloroethene** **1,2-DCA: 1,2-Dichloroethane** **1,4-Dioxane: 1,4-Dioxane (p-dioxane)** **cis-1,2-DCE: cis-1,2-Dichloroethene**
Freon 11: Trichlorofluoromethane **Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane** **PCE: Tetrachloroethene** **TCE: Trichloroethene**
Open symbol indicates reporting limit for non-detected concentrations
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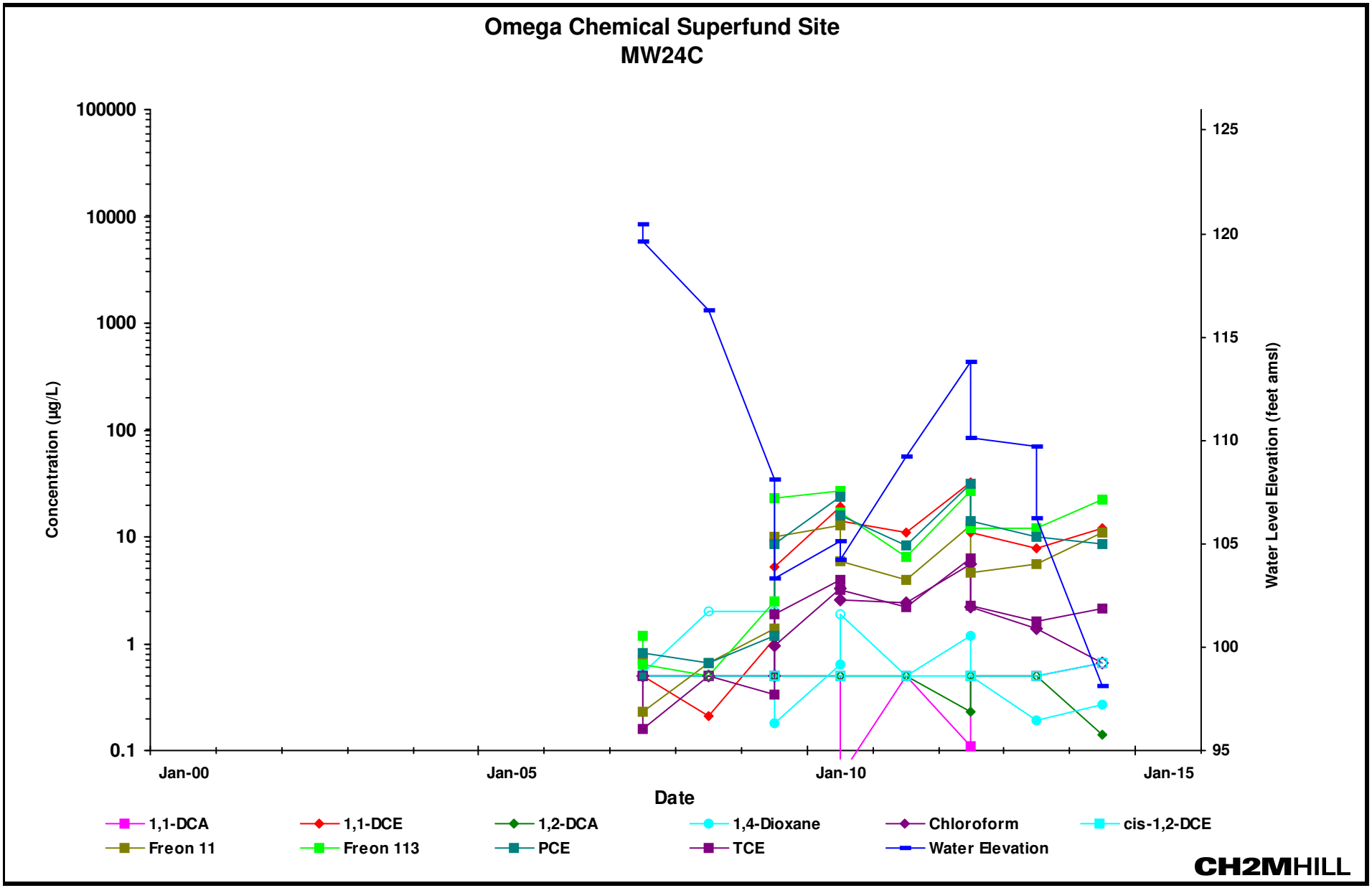

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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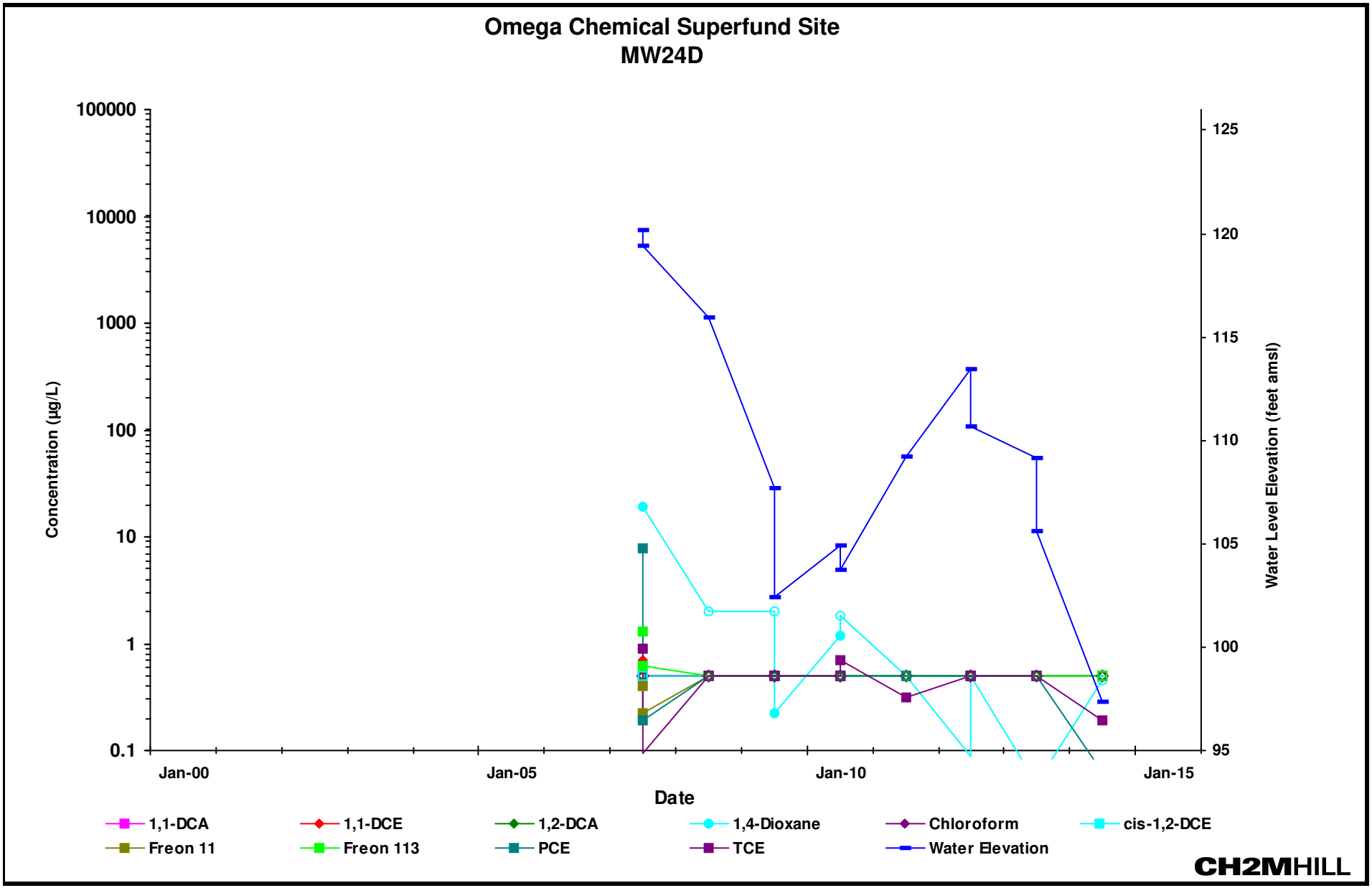

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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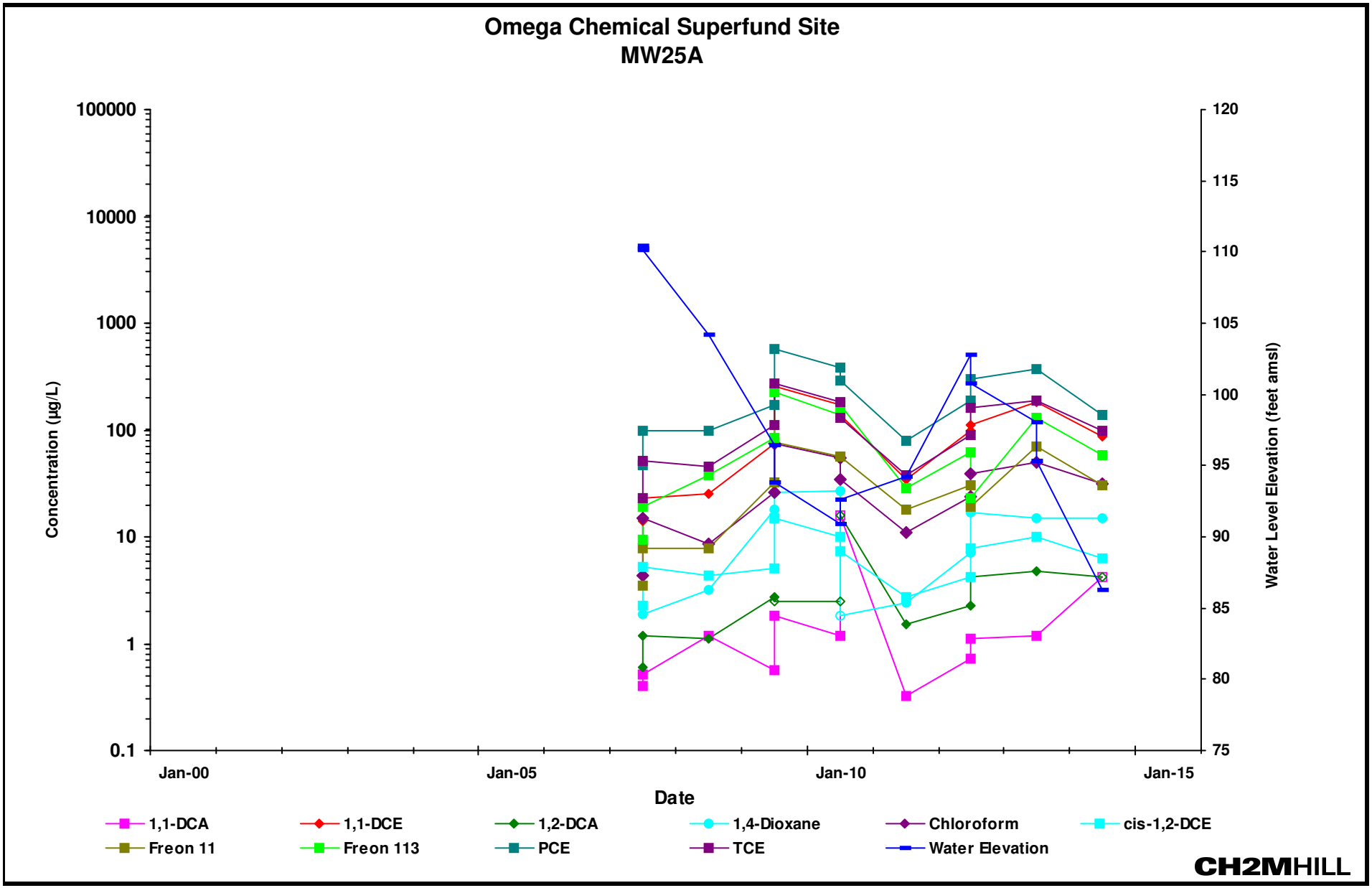

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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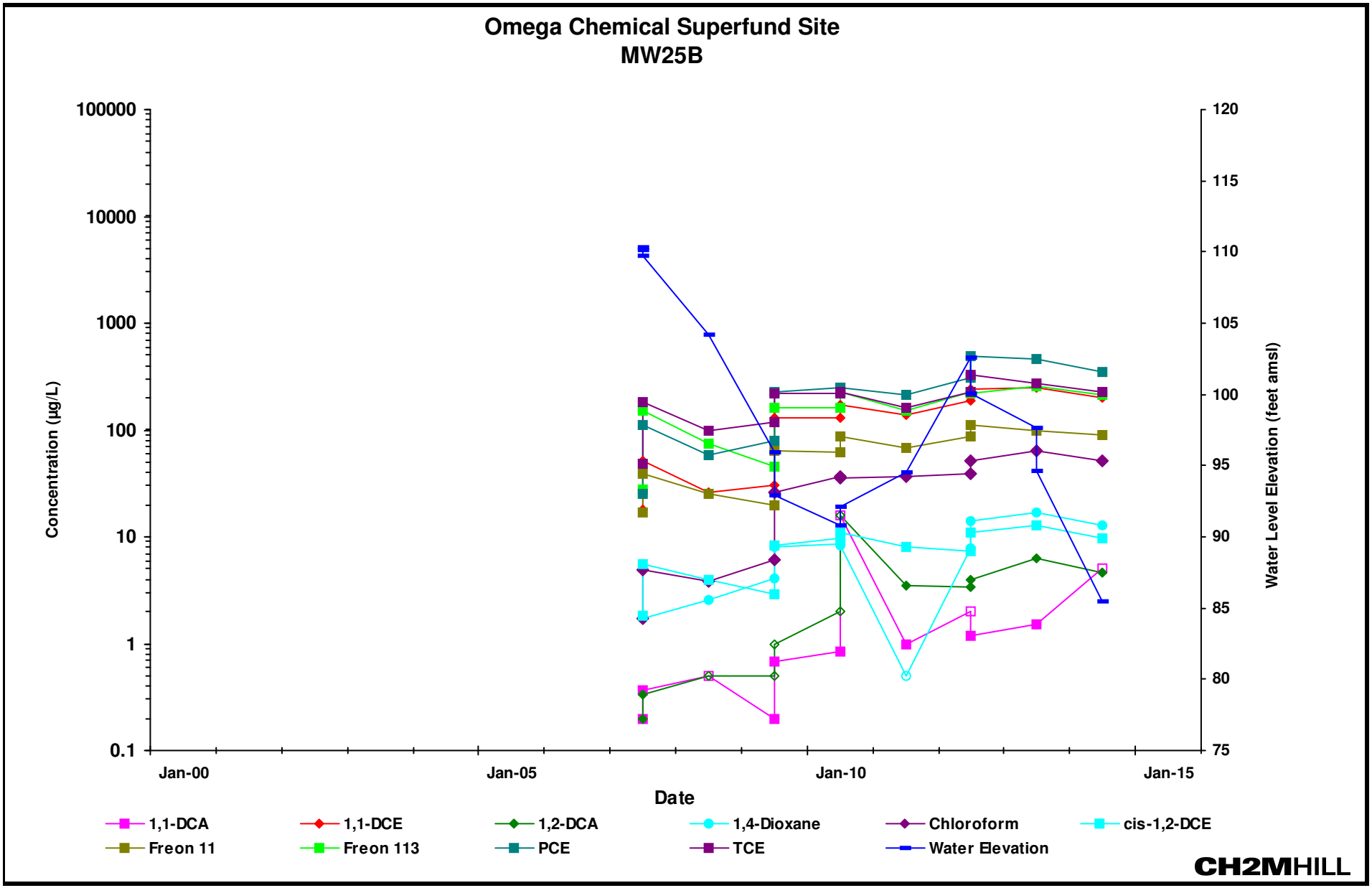

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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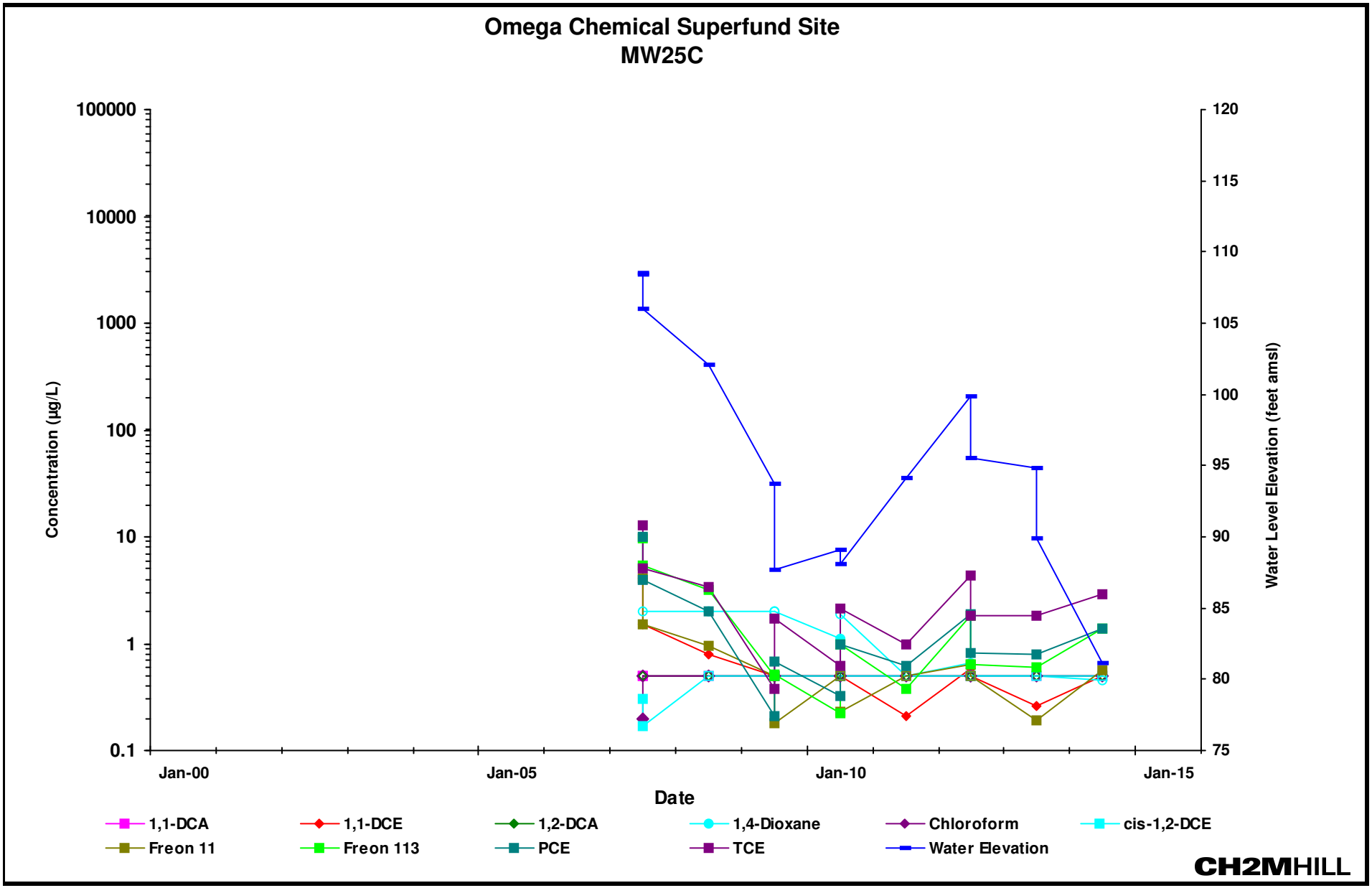

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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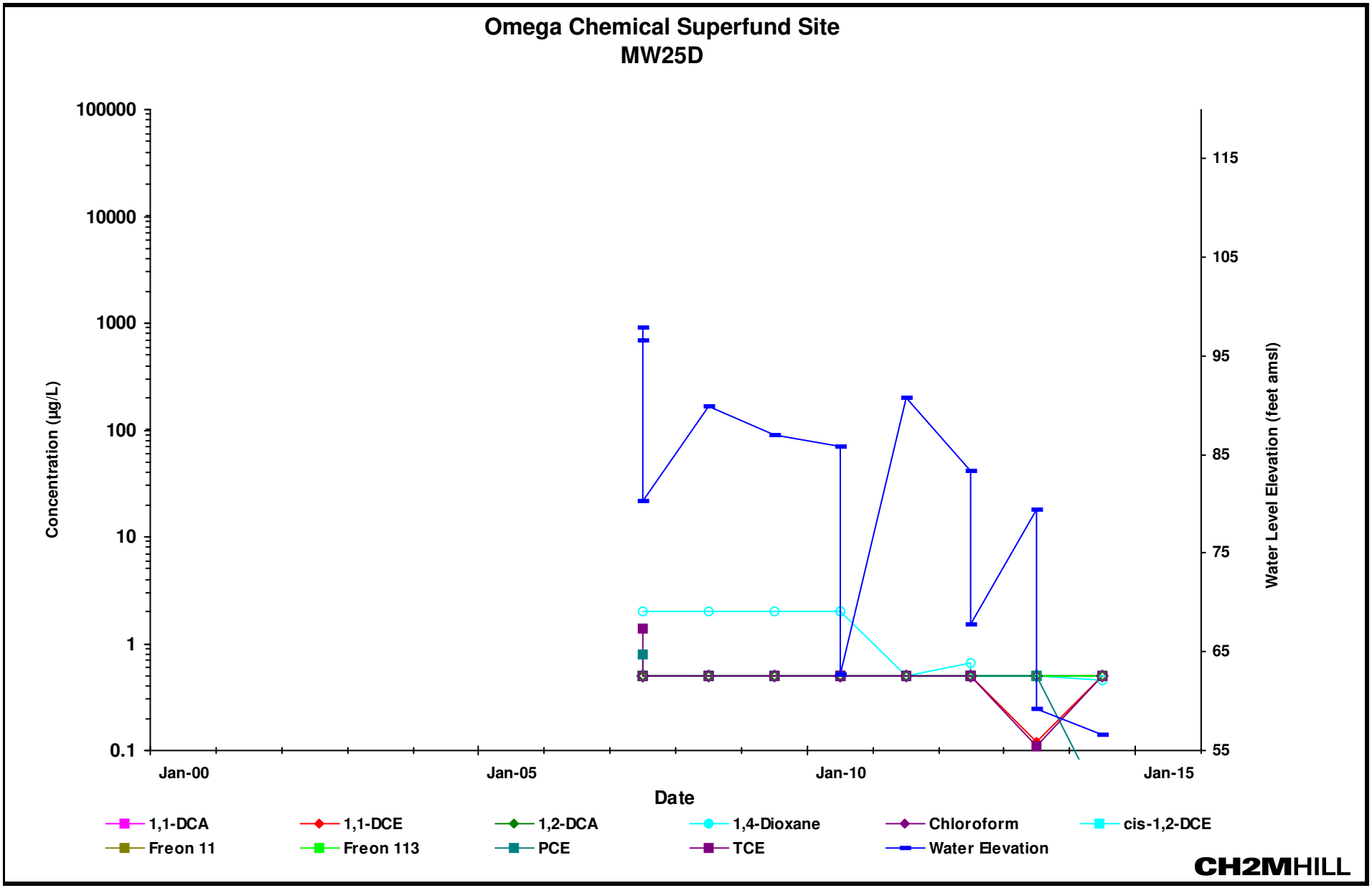

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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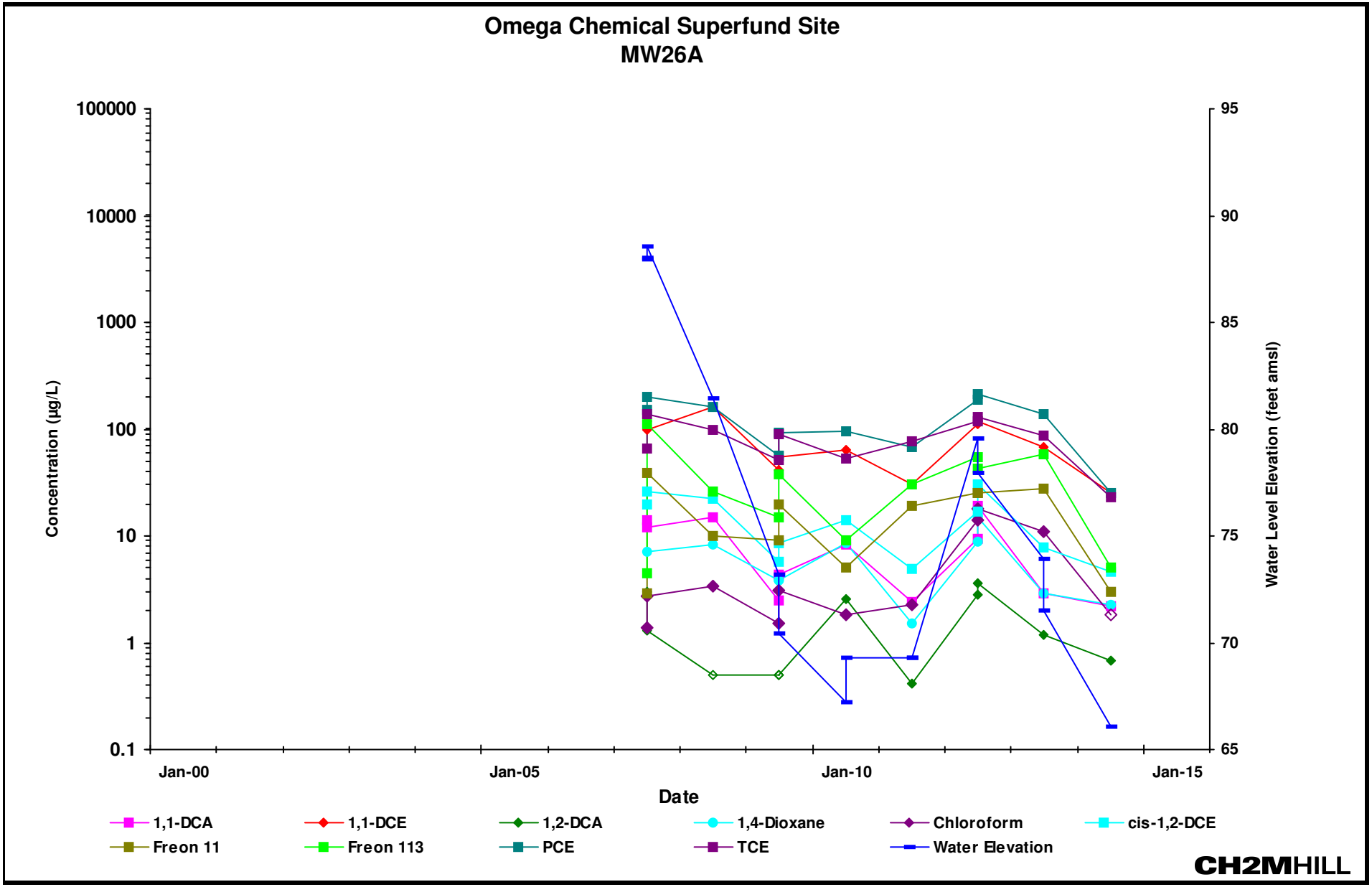

Notes:
1,1-DCA: 1,1-Dichloroethane **1,1-DCE: 1,1-Dichloroethene** **1,2-DCA: 1,2-Dichloroethane** **1,4-Dioxane: 1,4-Dioxane (p-dioxane)** **cis-1,2-DCE: cis-1,2-Dichloroethene**
Freon 11: Trichlorofluoromethane **Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane** **PCE: Tetrachloroethene** **TCE: Trichloroethene**
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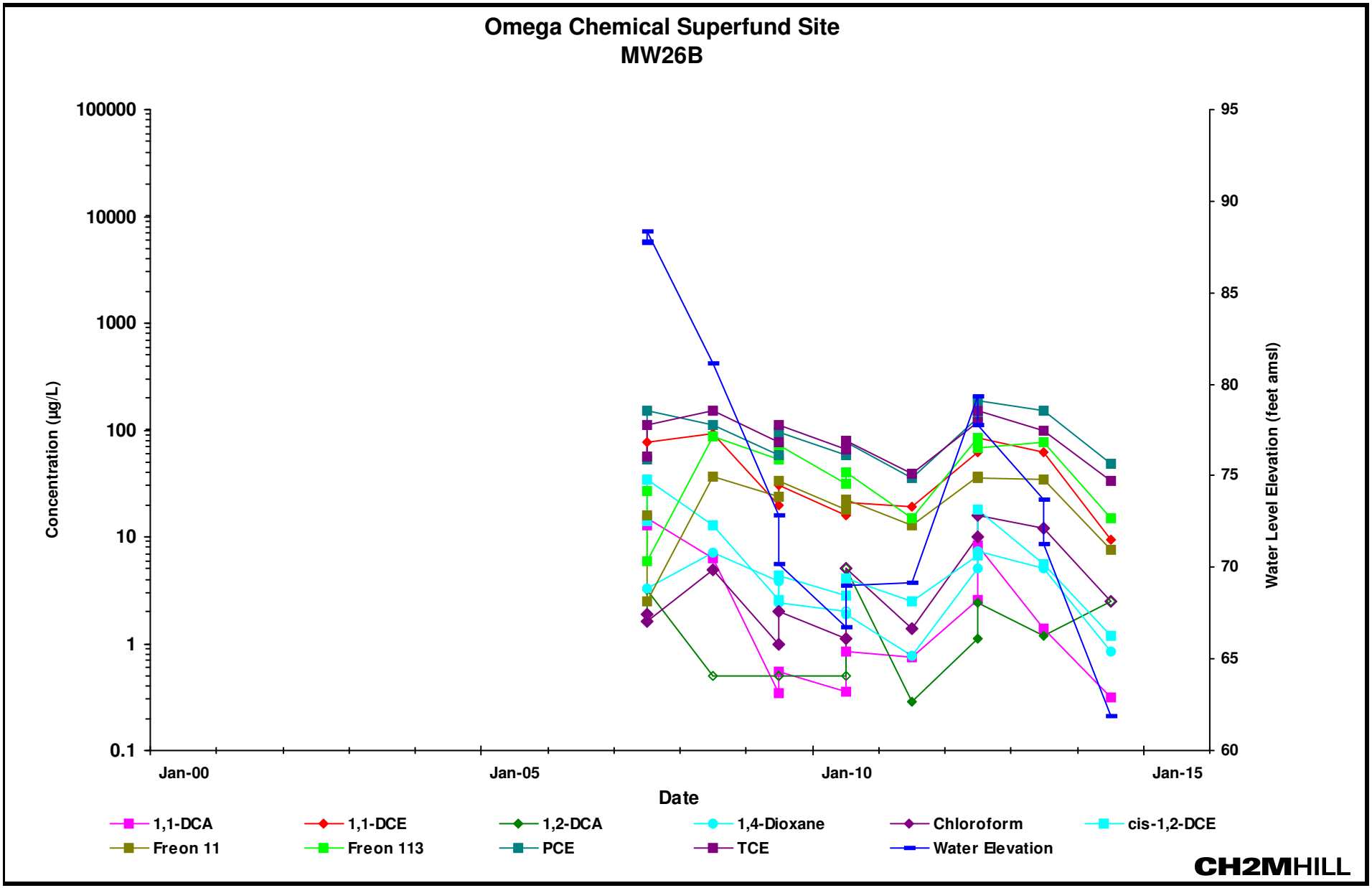

Notes:
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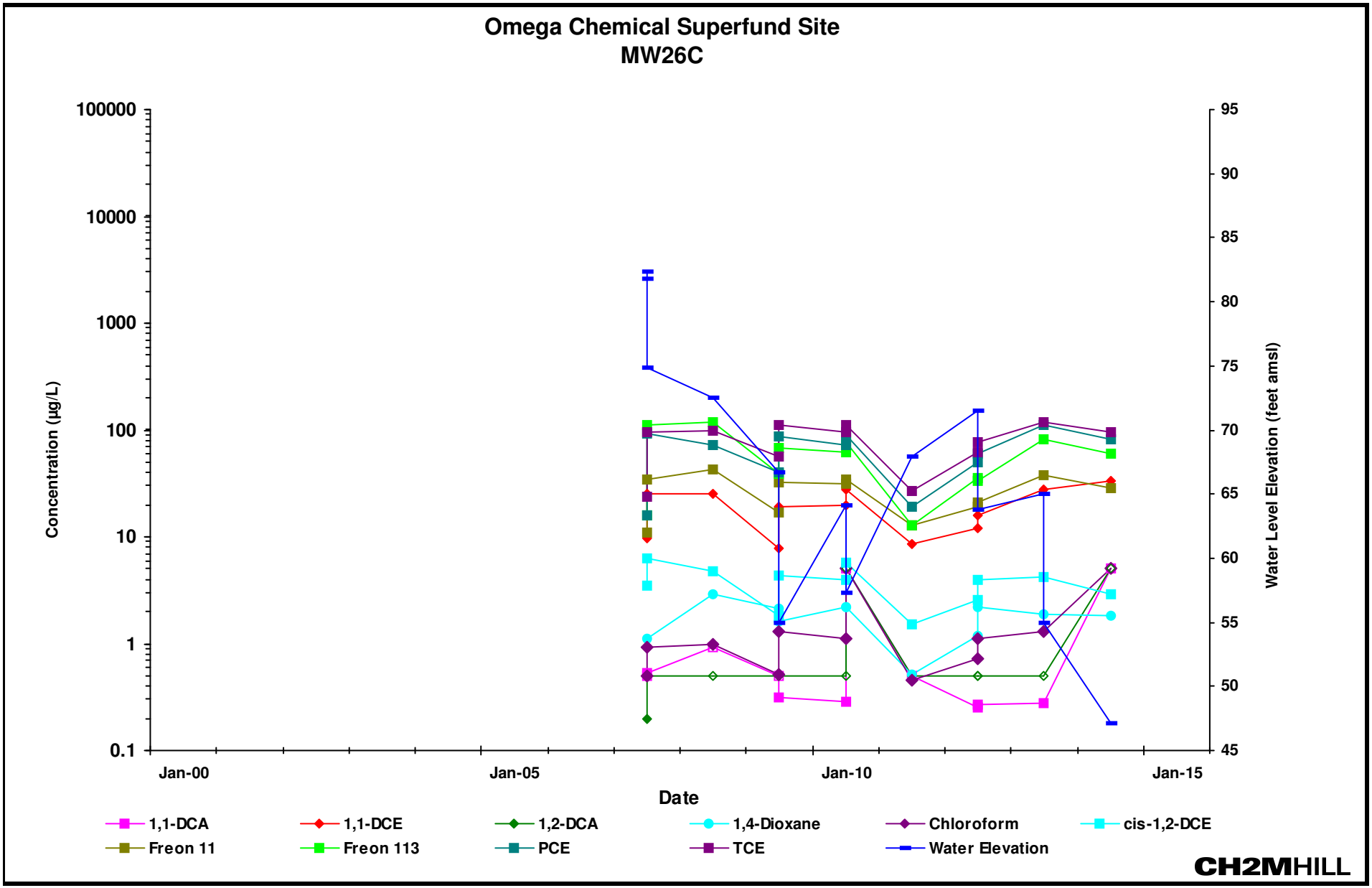

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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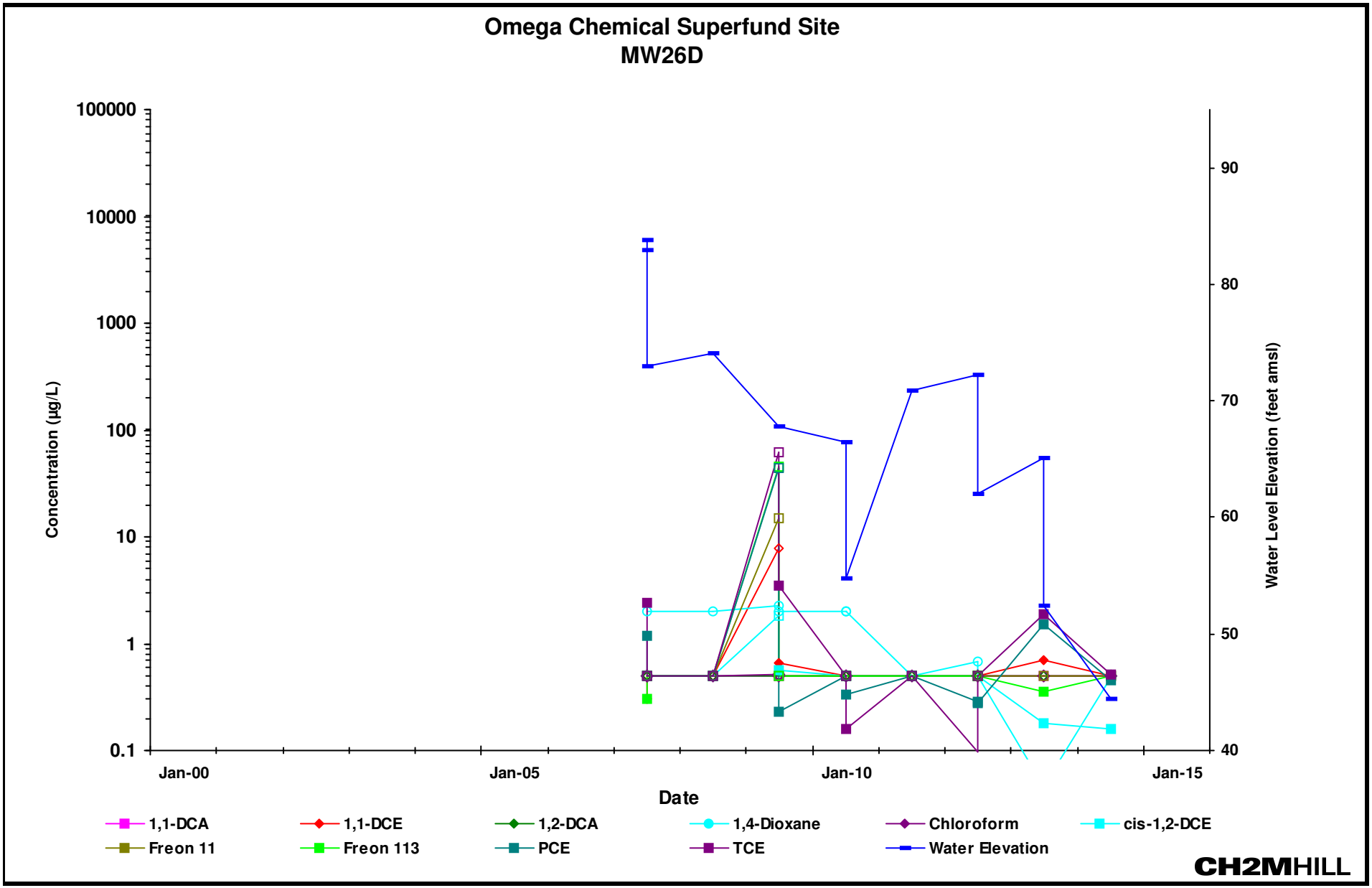

Notes:
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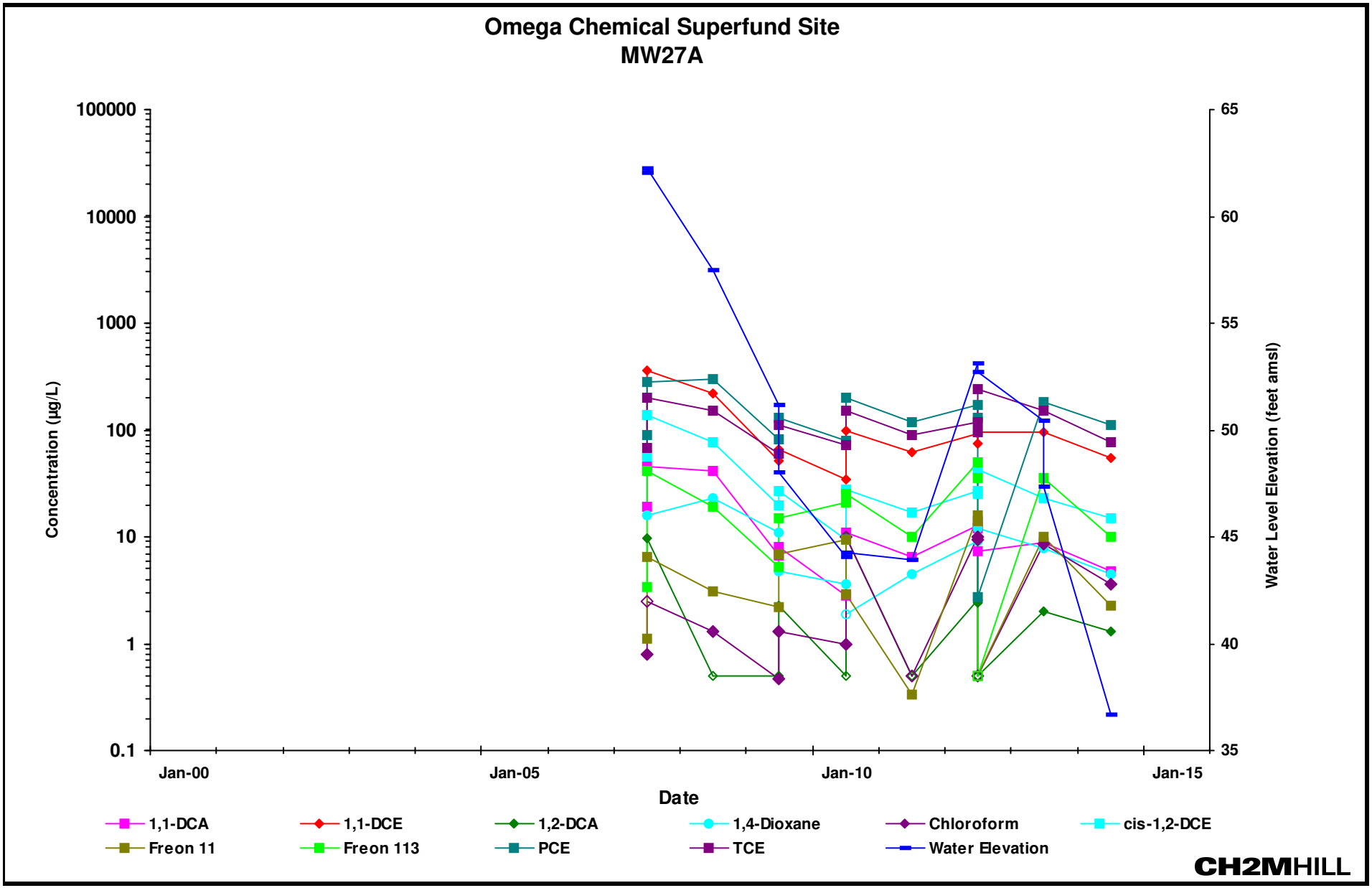

Notes:
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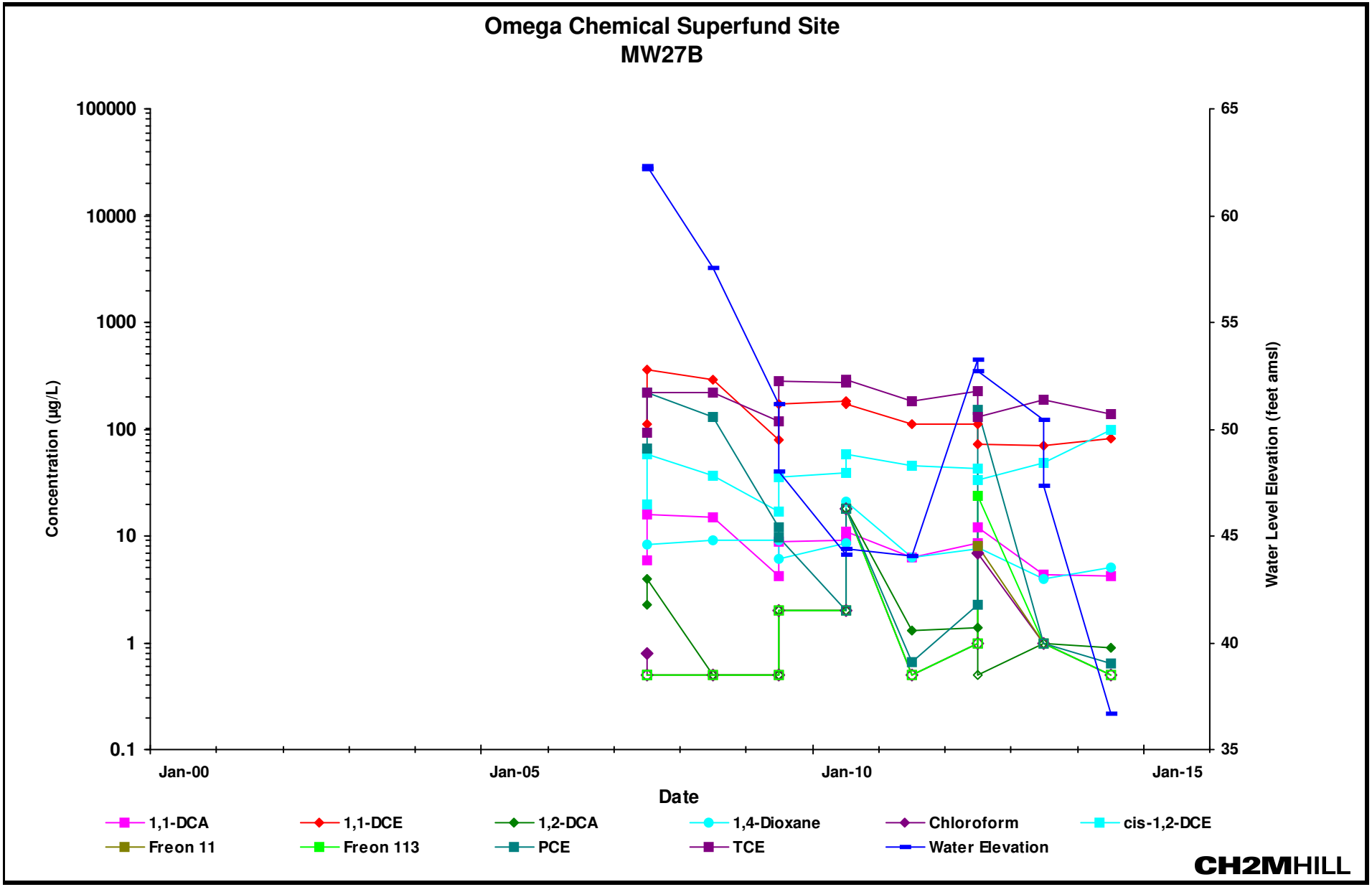

Notes:
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Freon 11: Trichlorofluoromethane **Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane** **PCE: Tetrachloroethene** **TCE: Trichloroethene**
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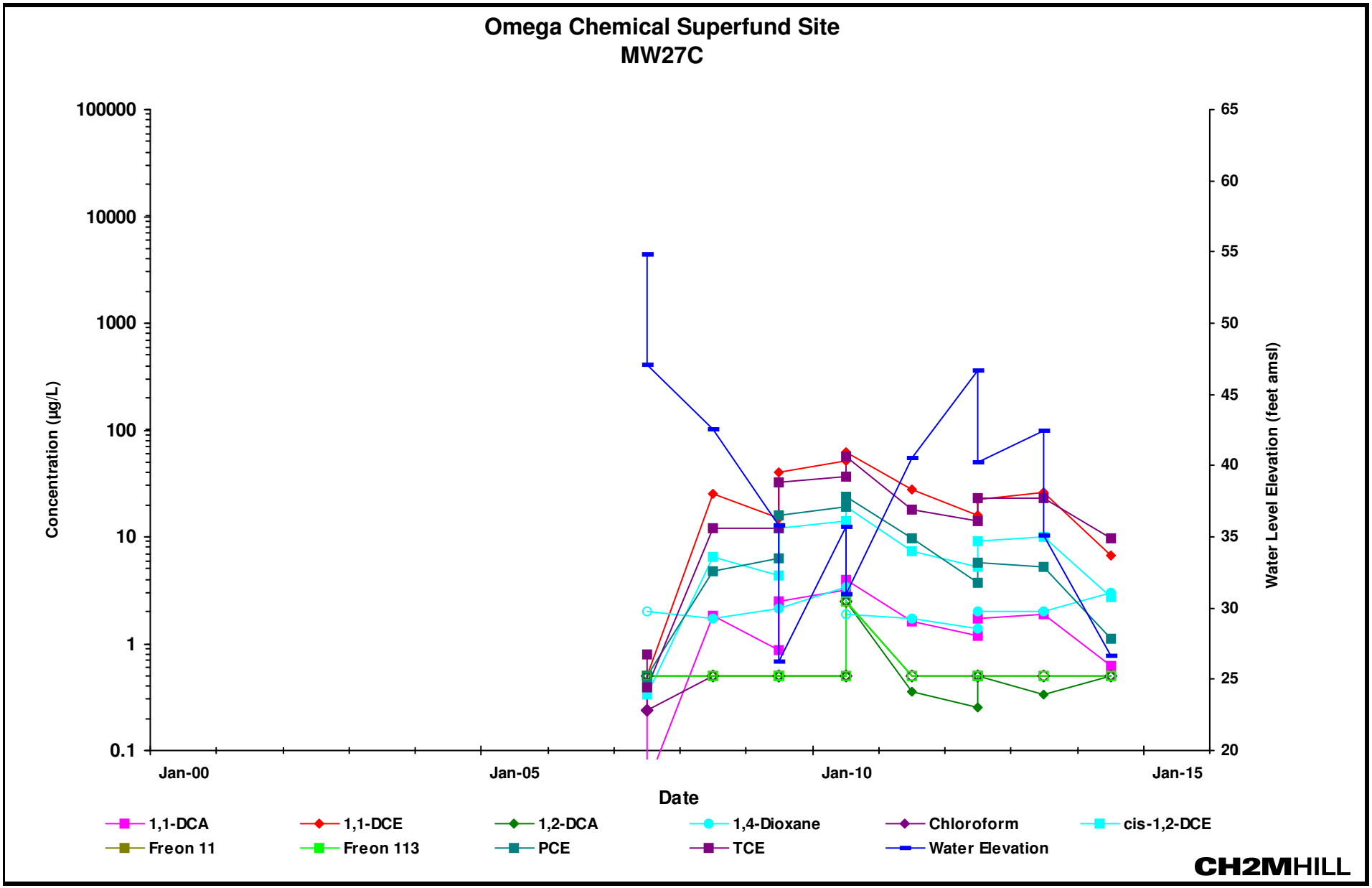

Notes:
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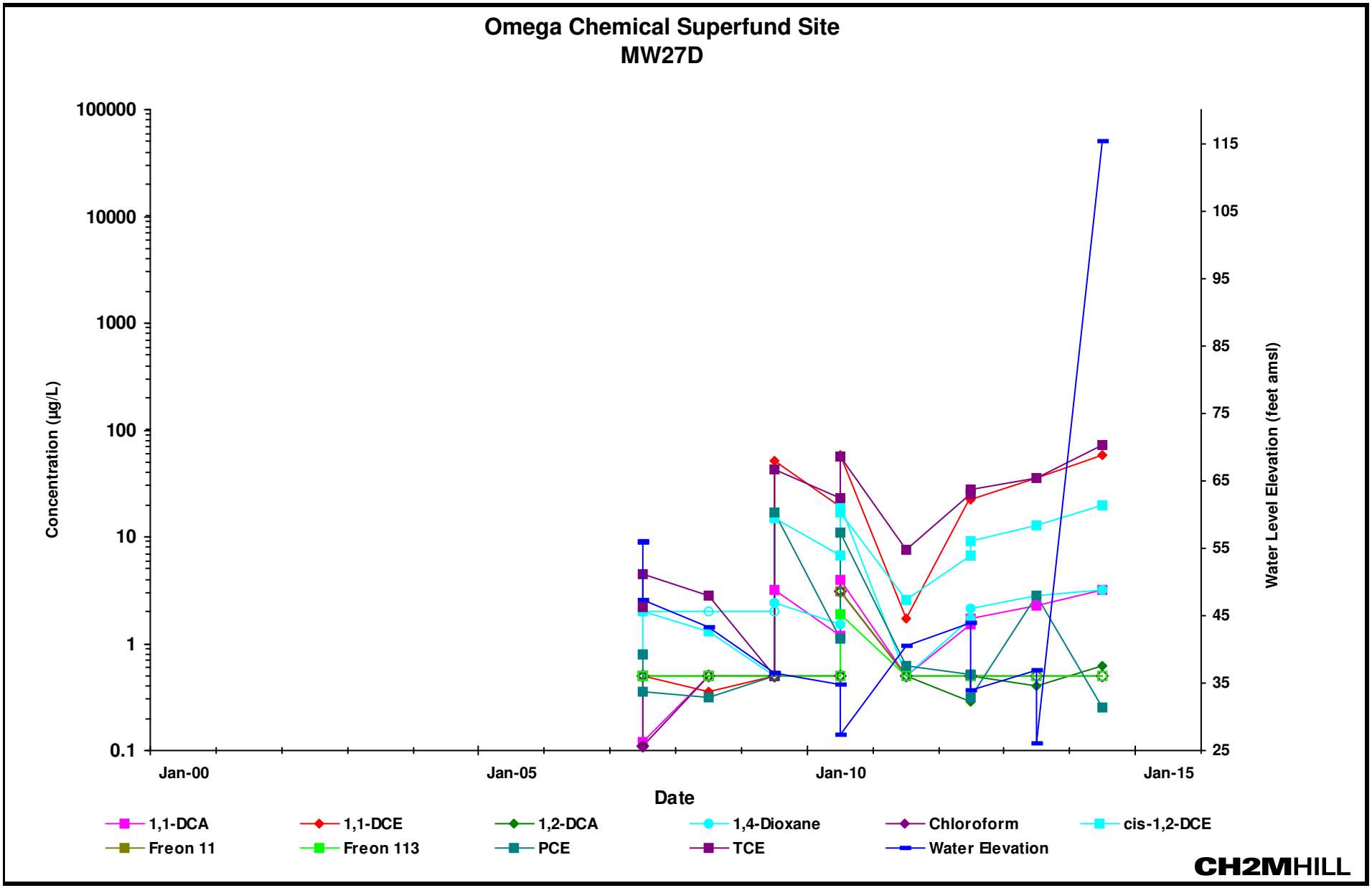

Notes:
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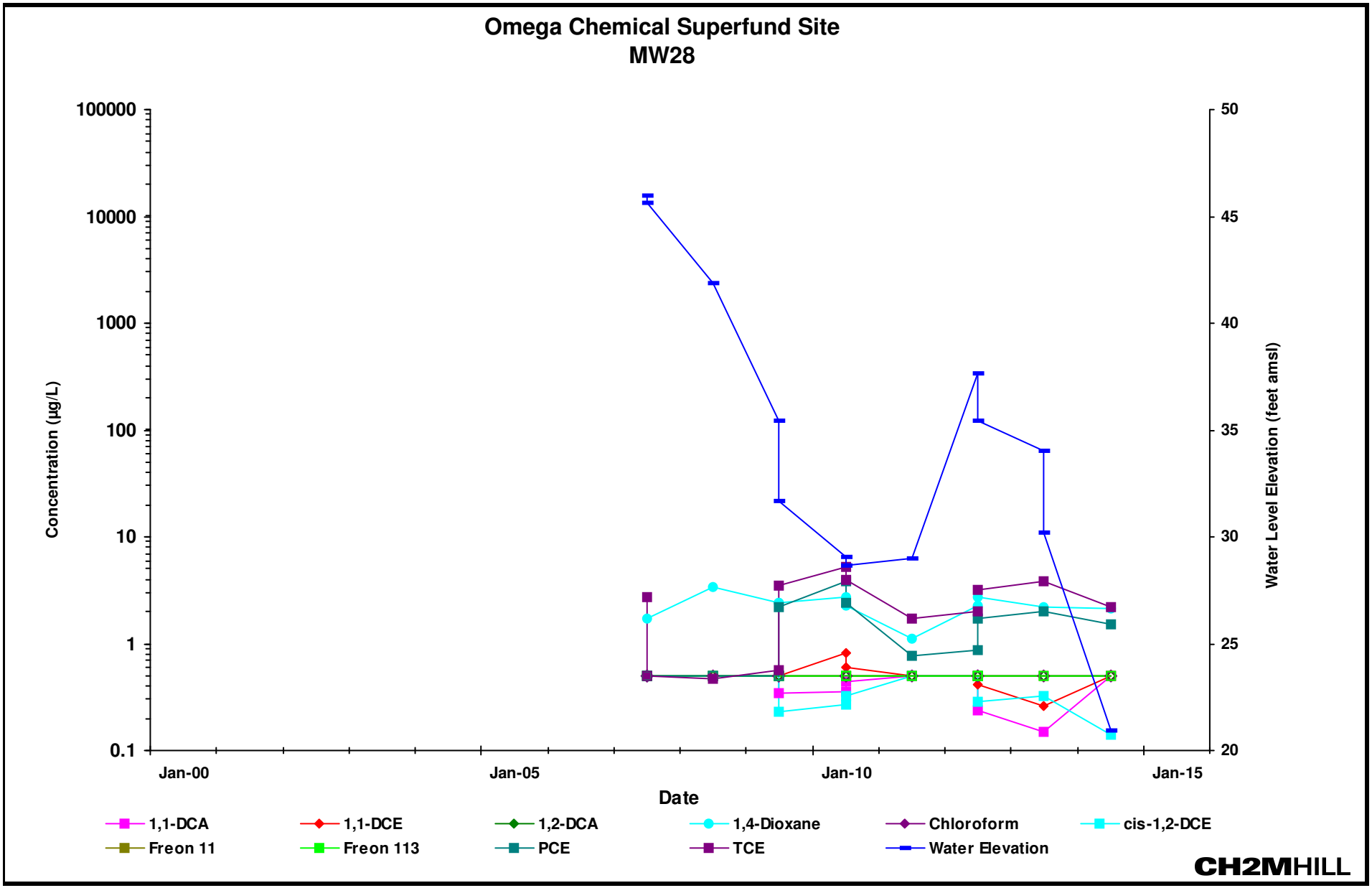

Notes:
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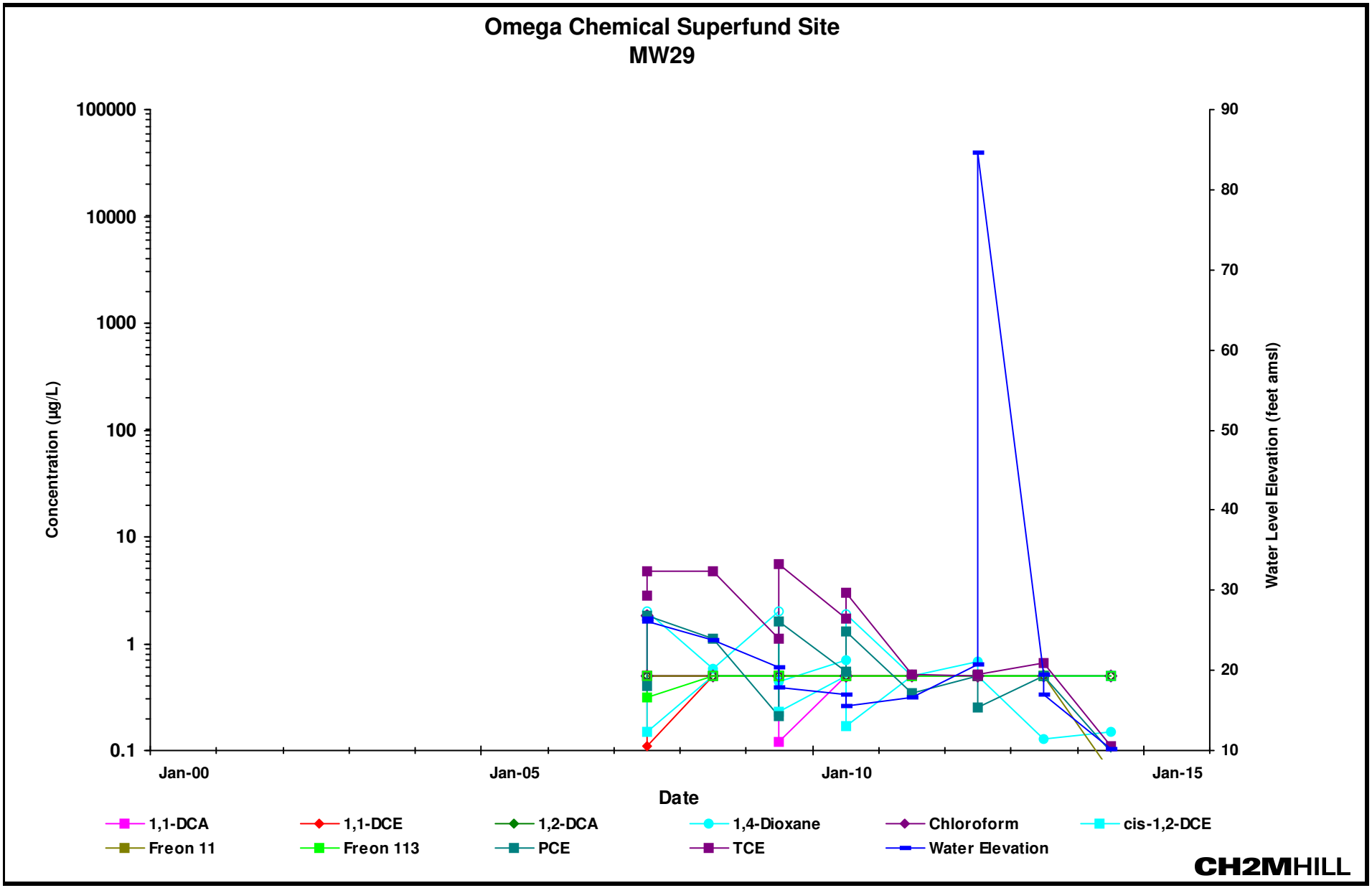

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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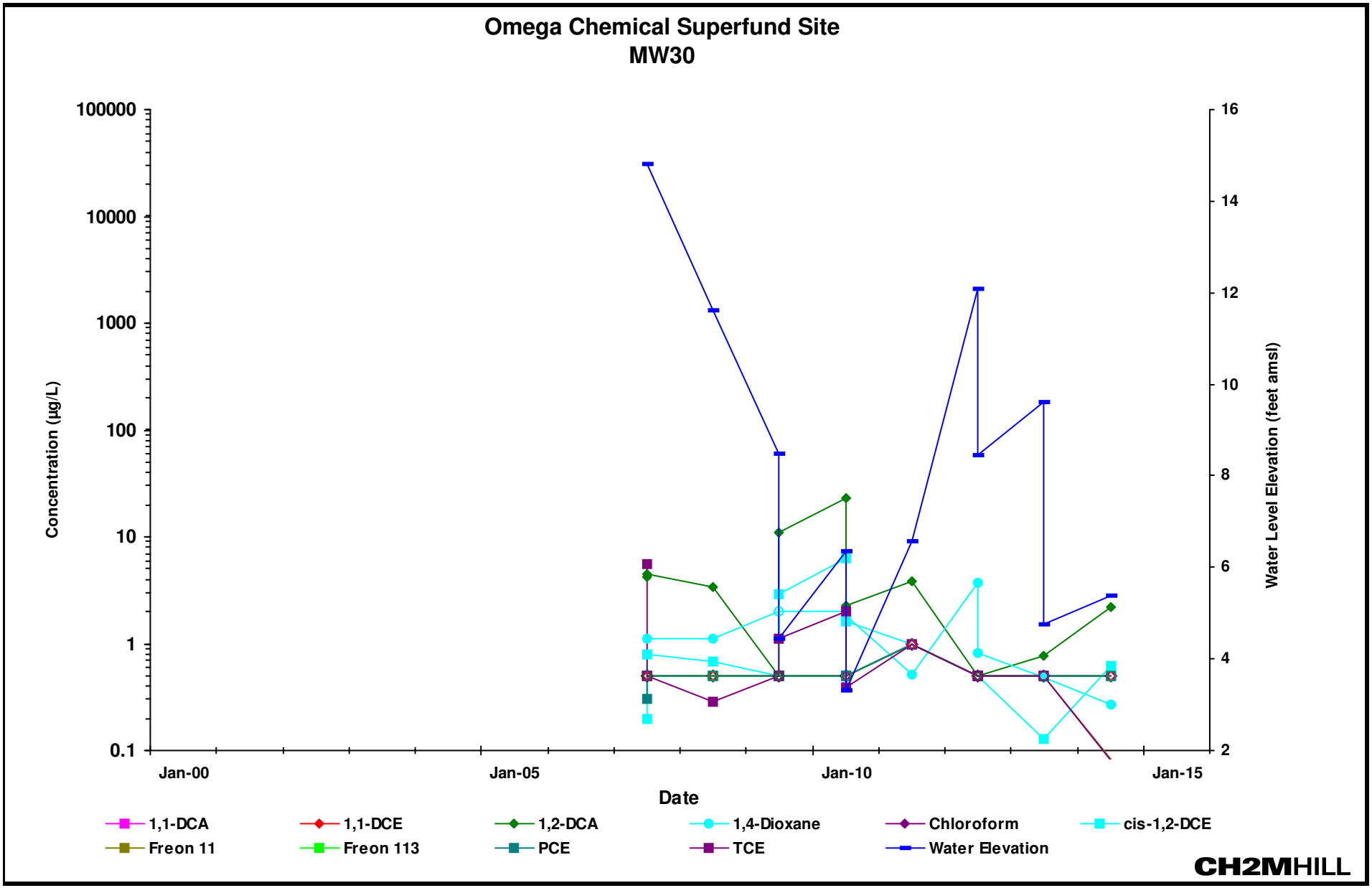

Notes:
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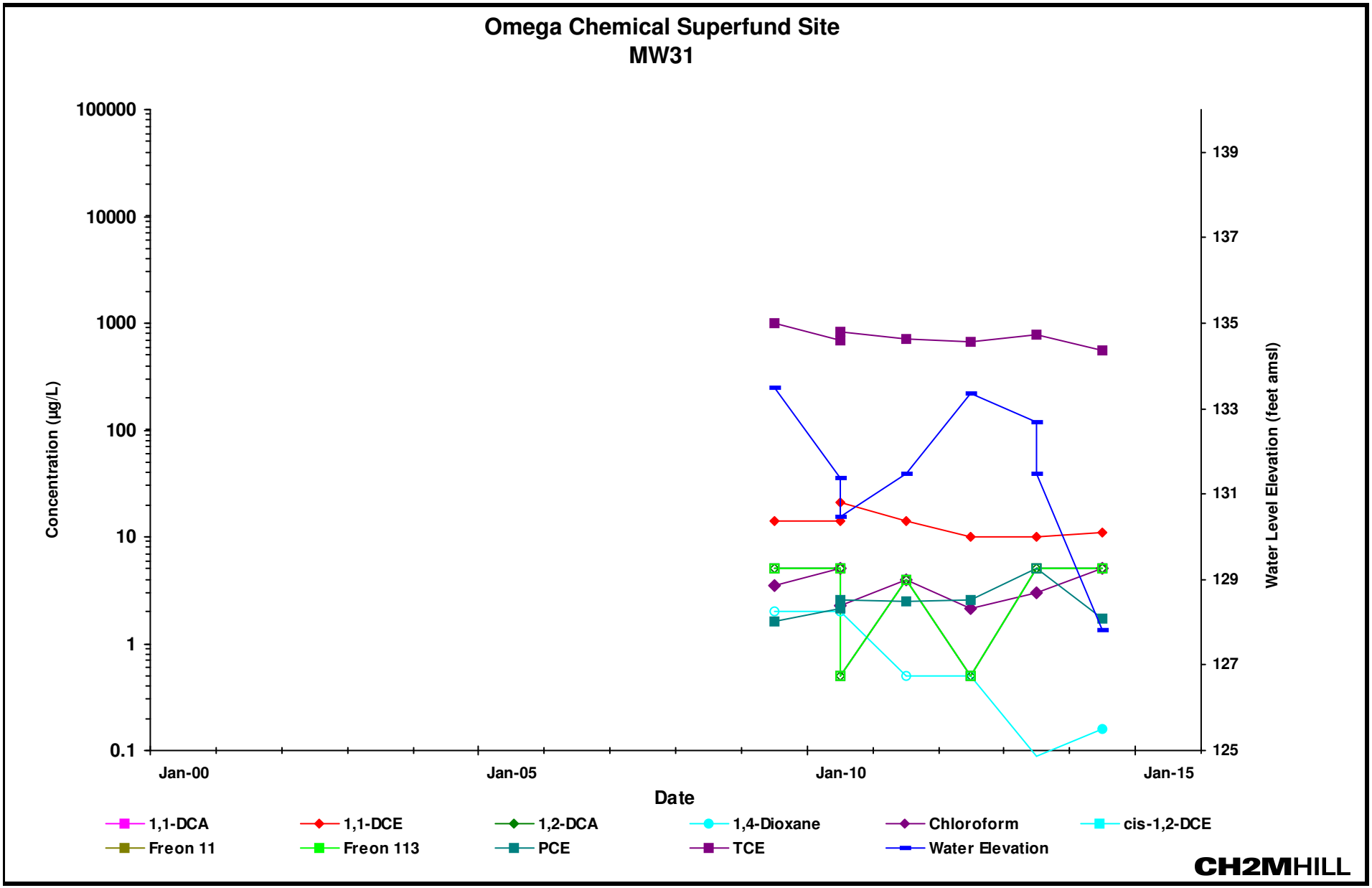

Notes:
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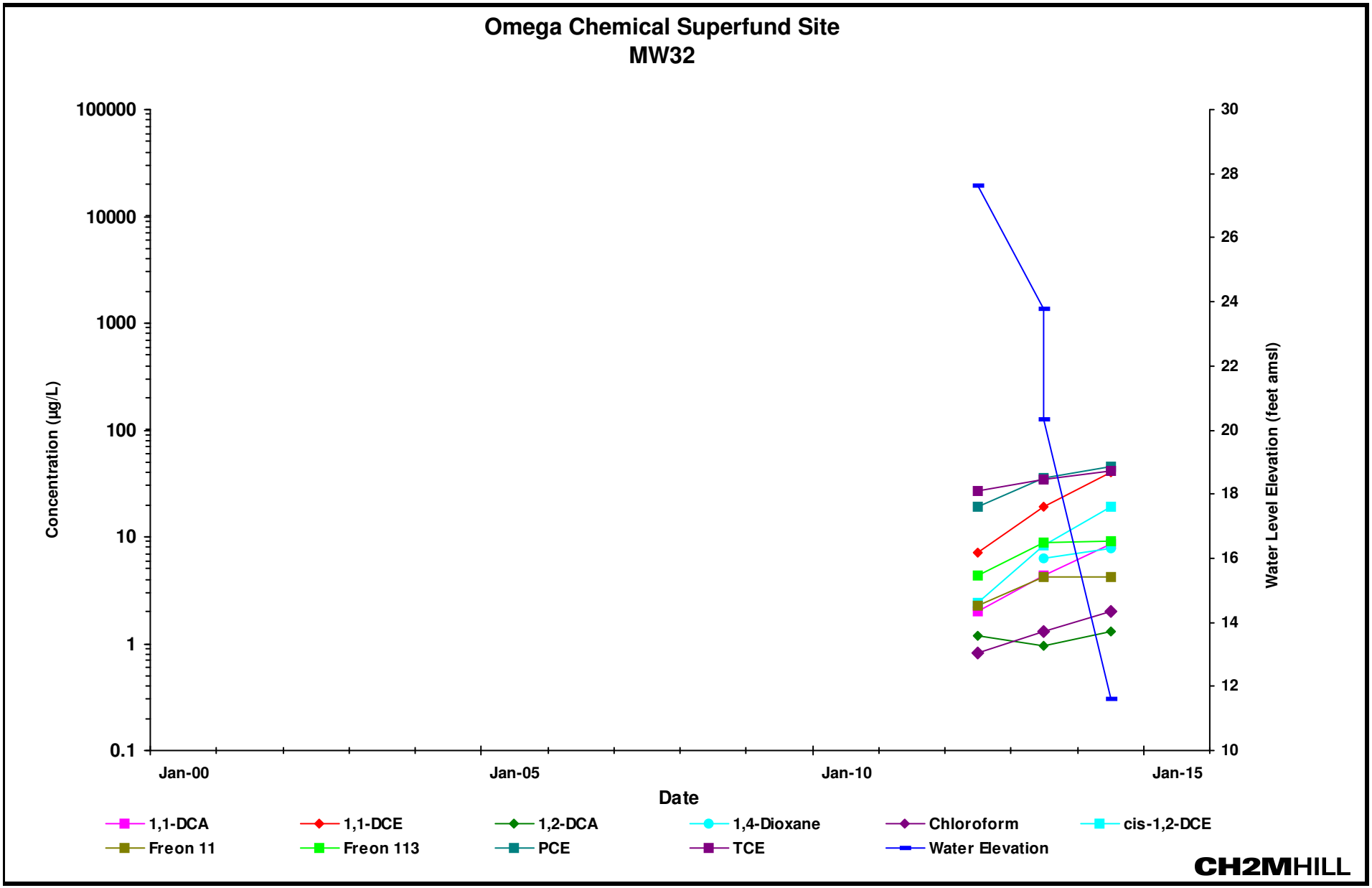

Notes:
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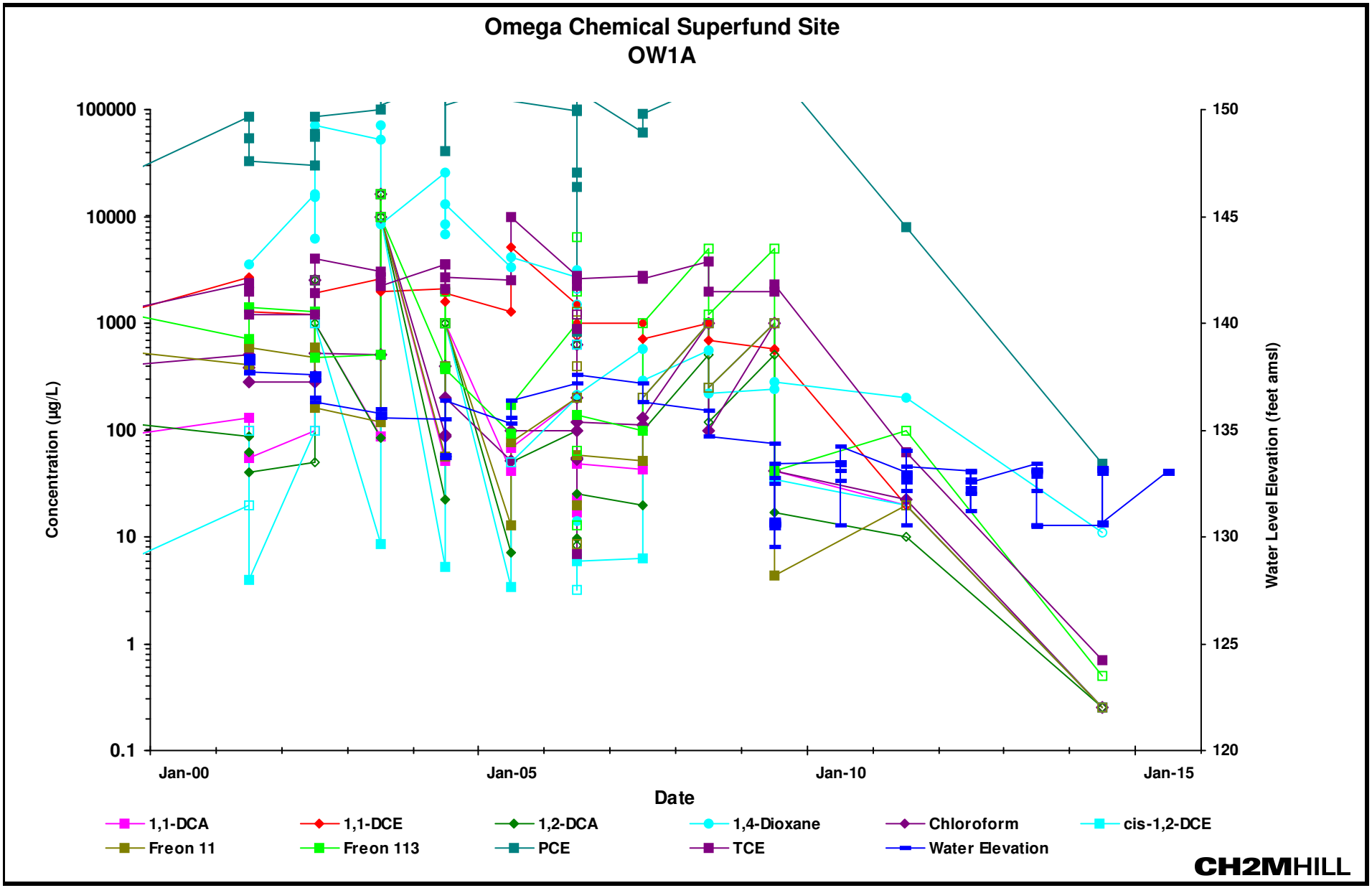

Notes:
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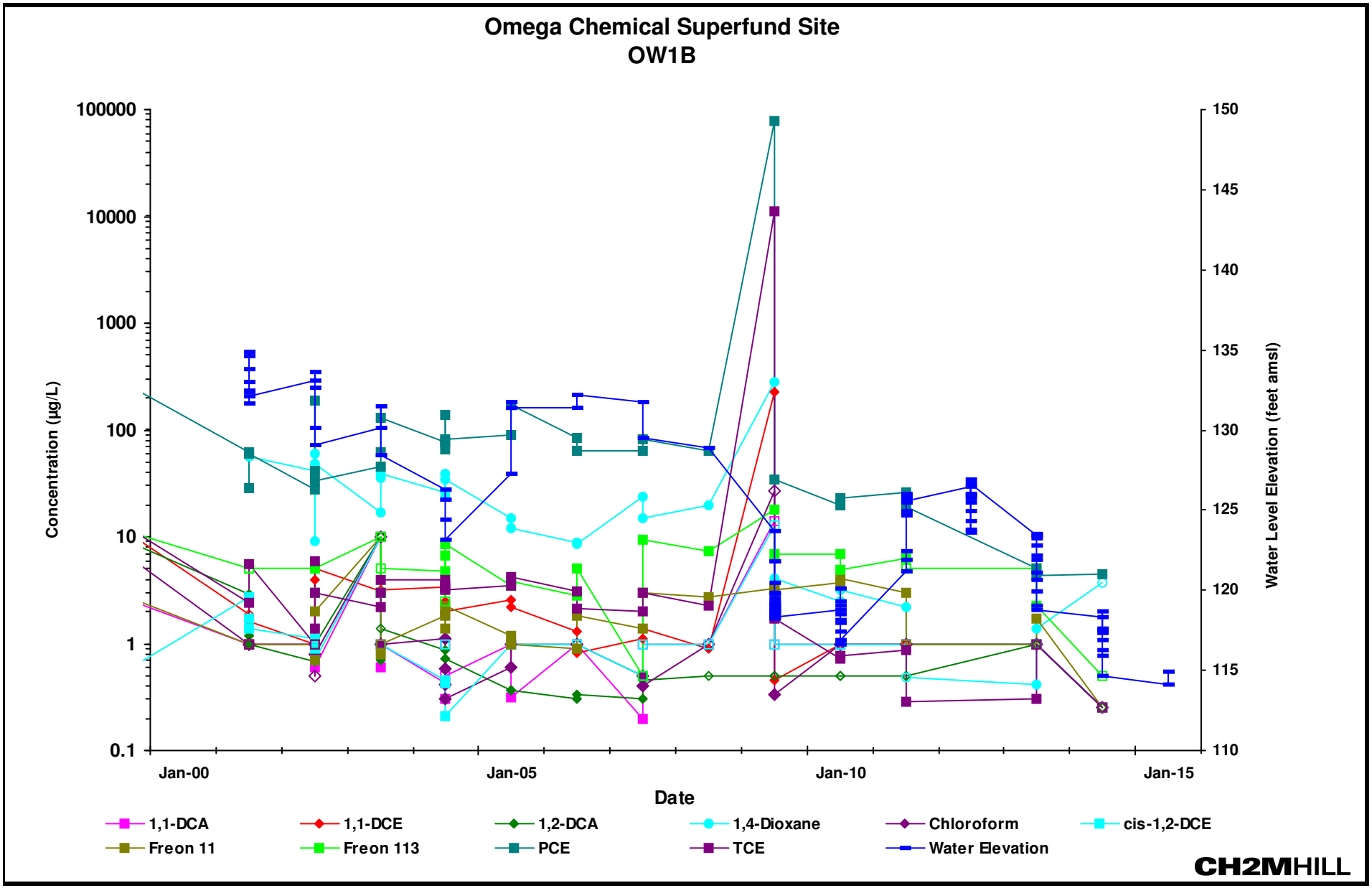
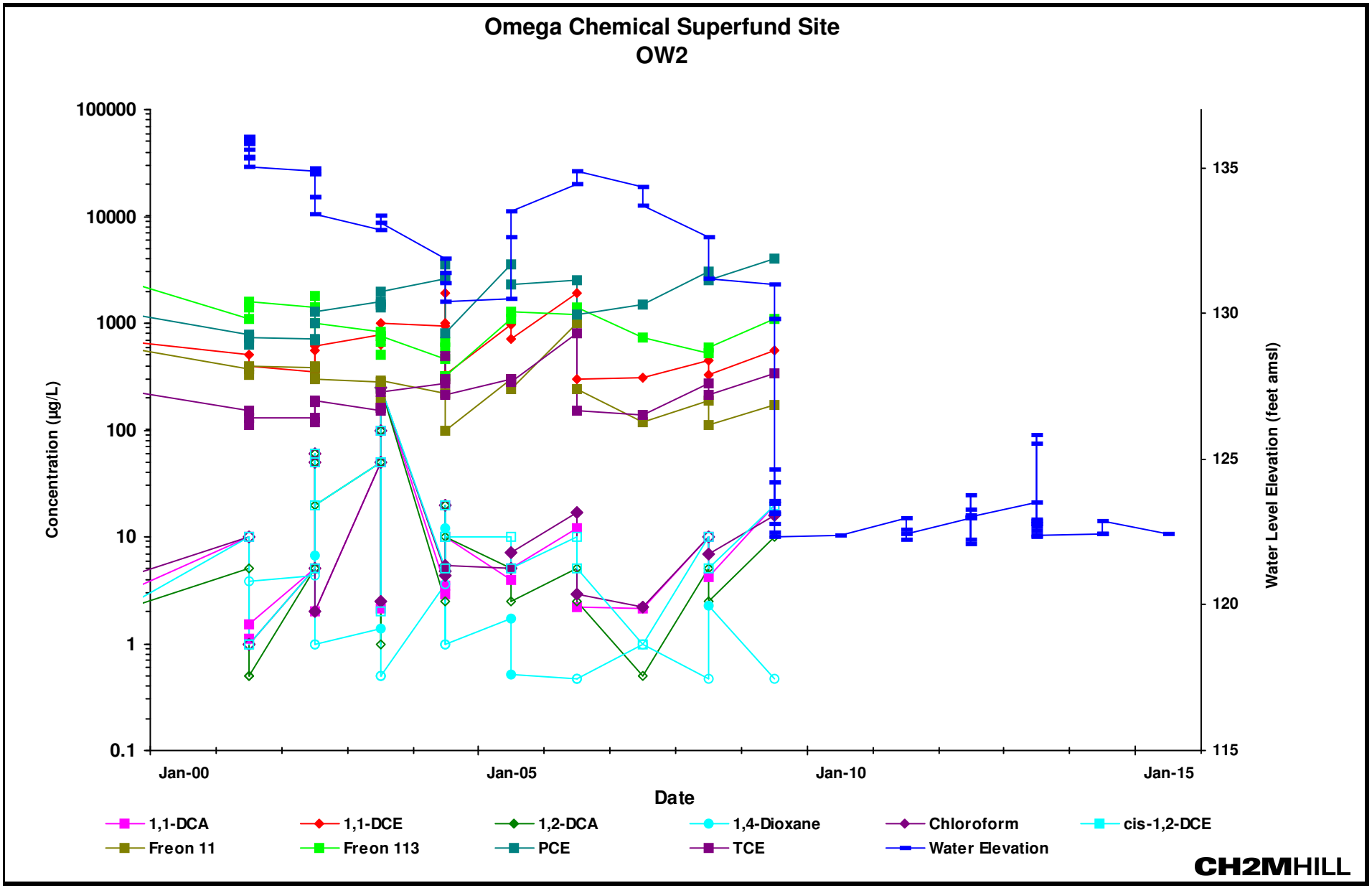


Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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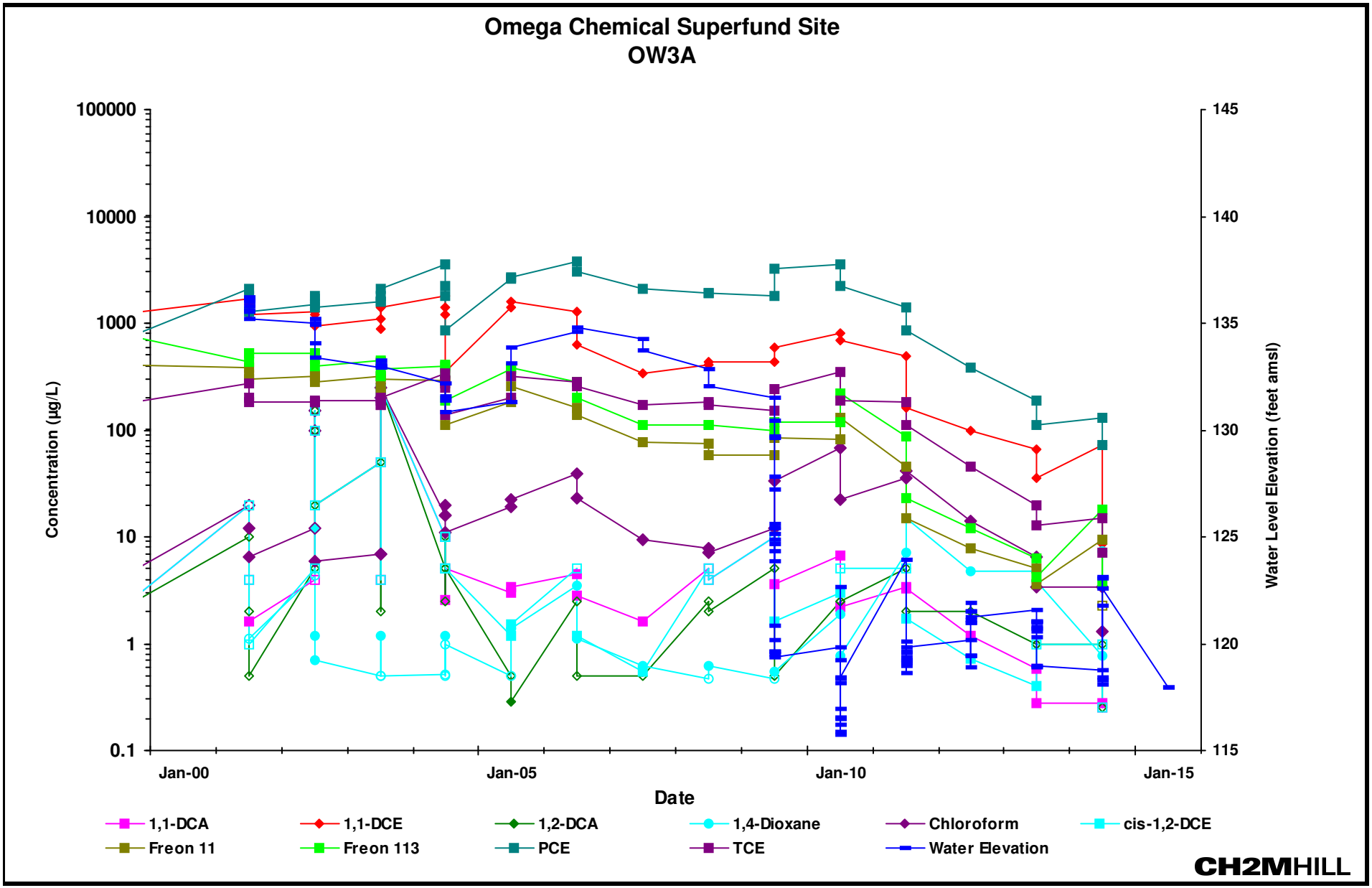

Notes:
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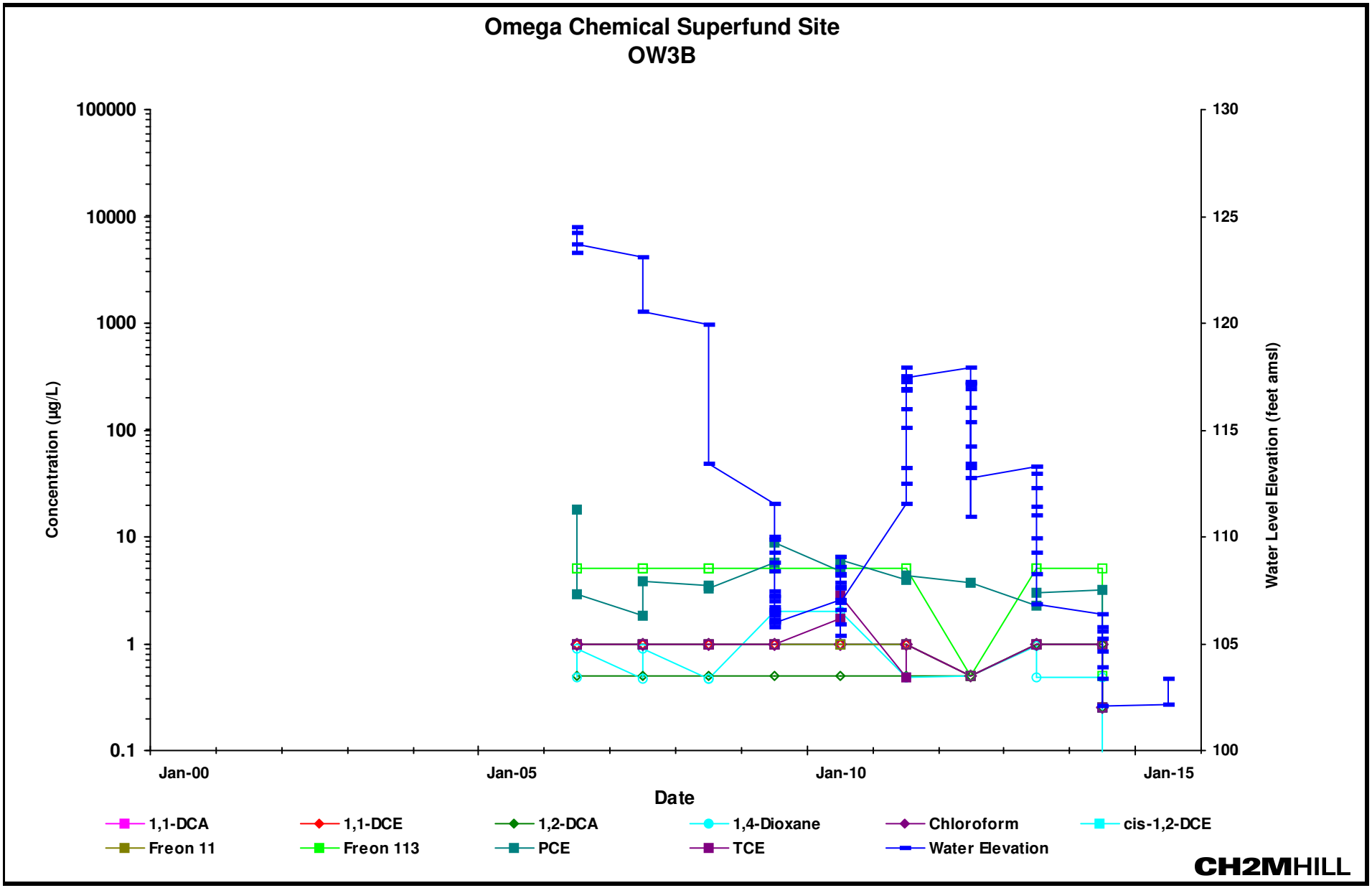

Notes:
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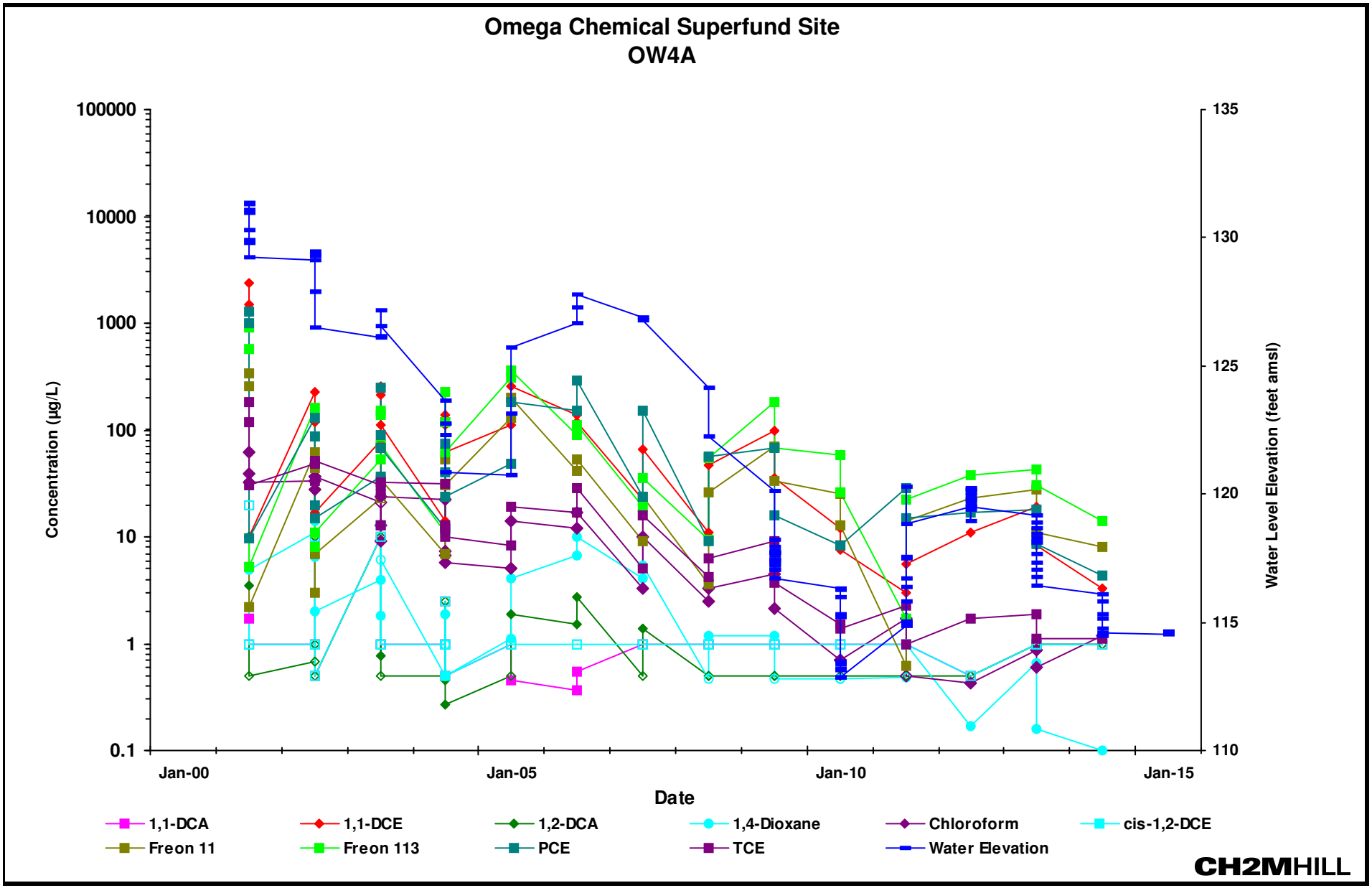

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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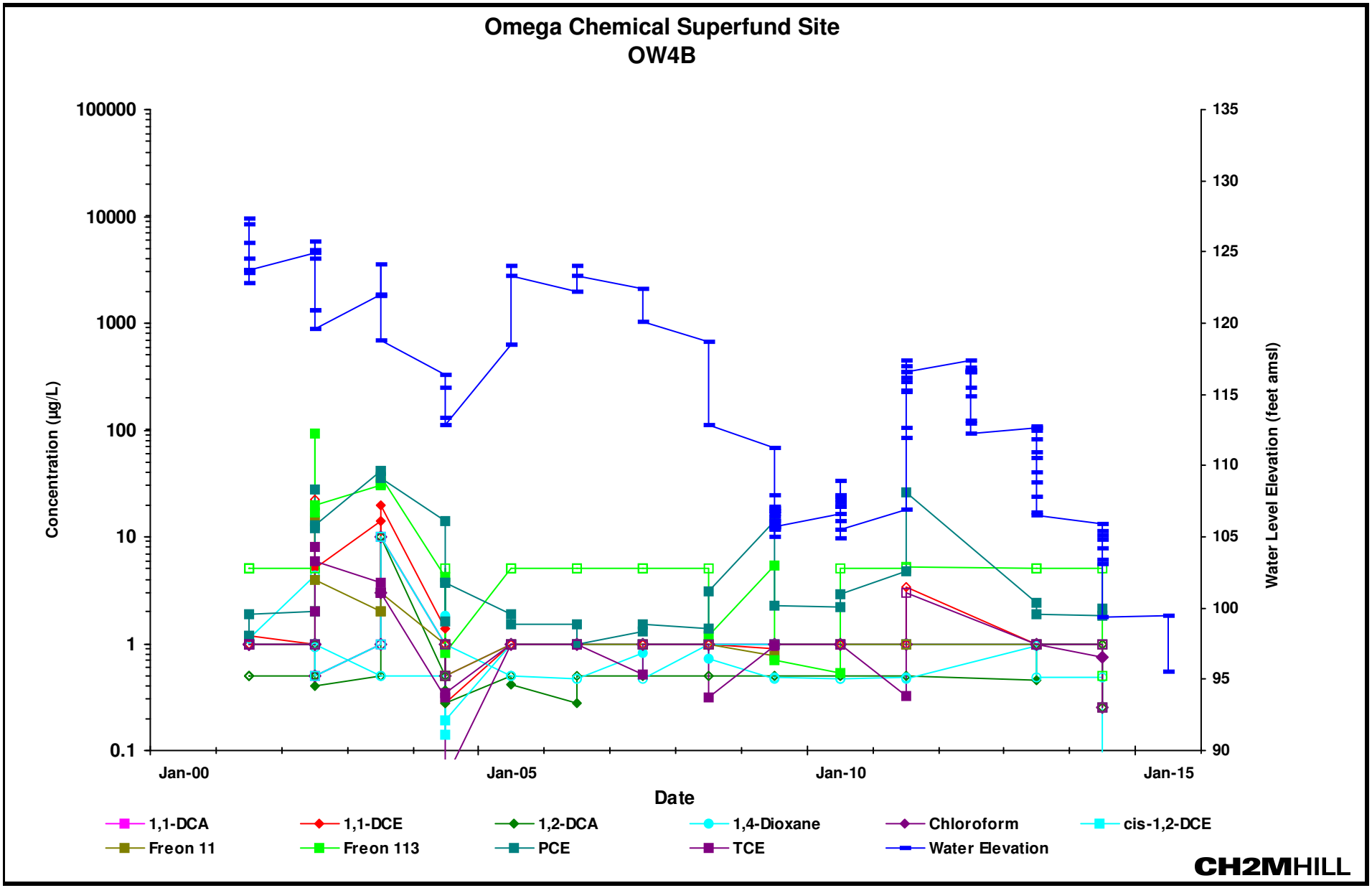

Notes:
1,1-DCA: 1,1-Dichloroethane **1,1-DCE: 1,1-Dichloroethene** **1,2-DCA: 1,2-Dichloroethane** **1,4-Dioxane: 1,4-Dioxane (p-dioxane)** **cis-1,2-DCE: cis-1,2-Dichloroethene**
Freon 11: Trichlorofluoromethane **Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane** **PCE: Tetrachloroethene** **TCE: Trichloroethene**
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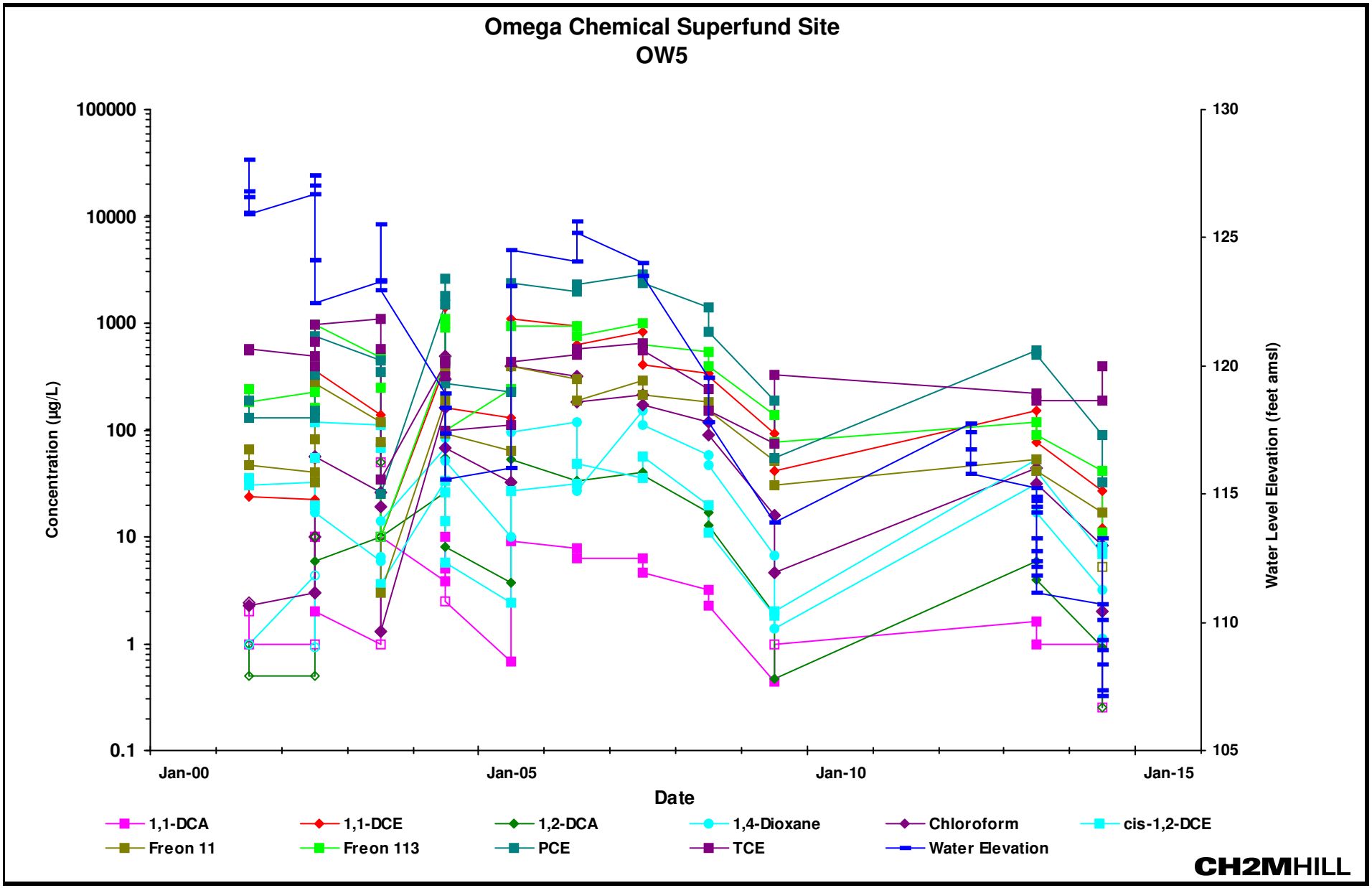

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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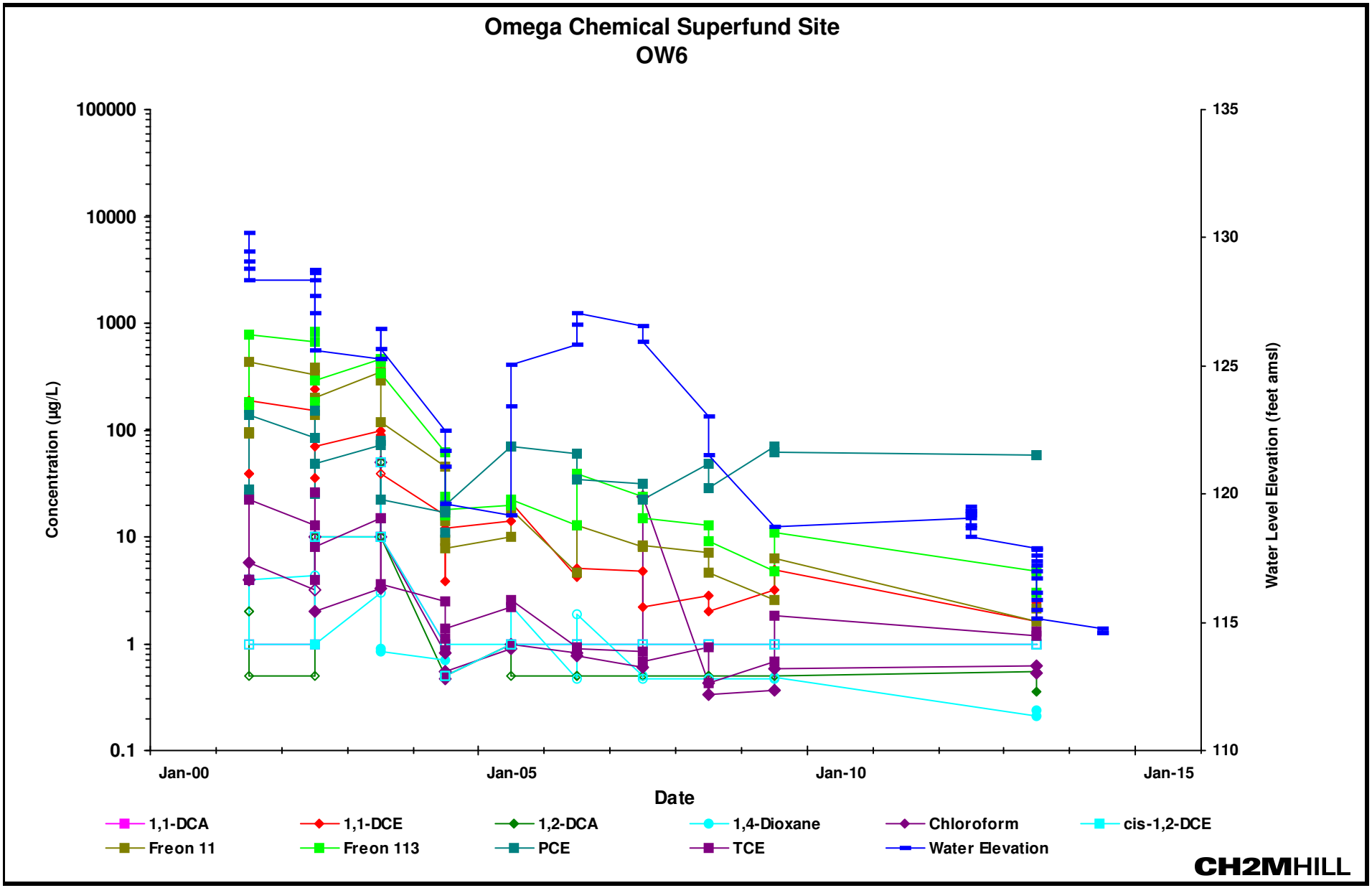

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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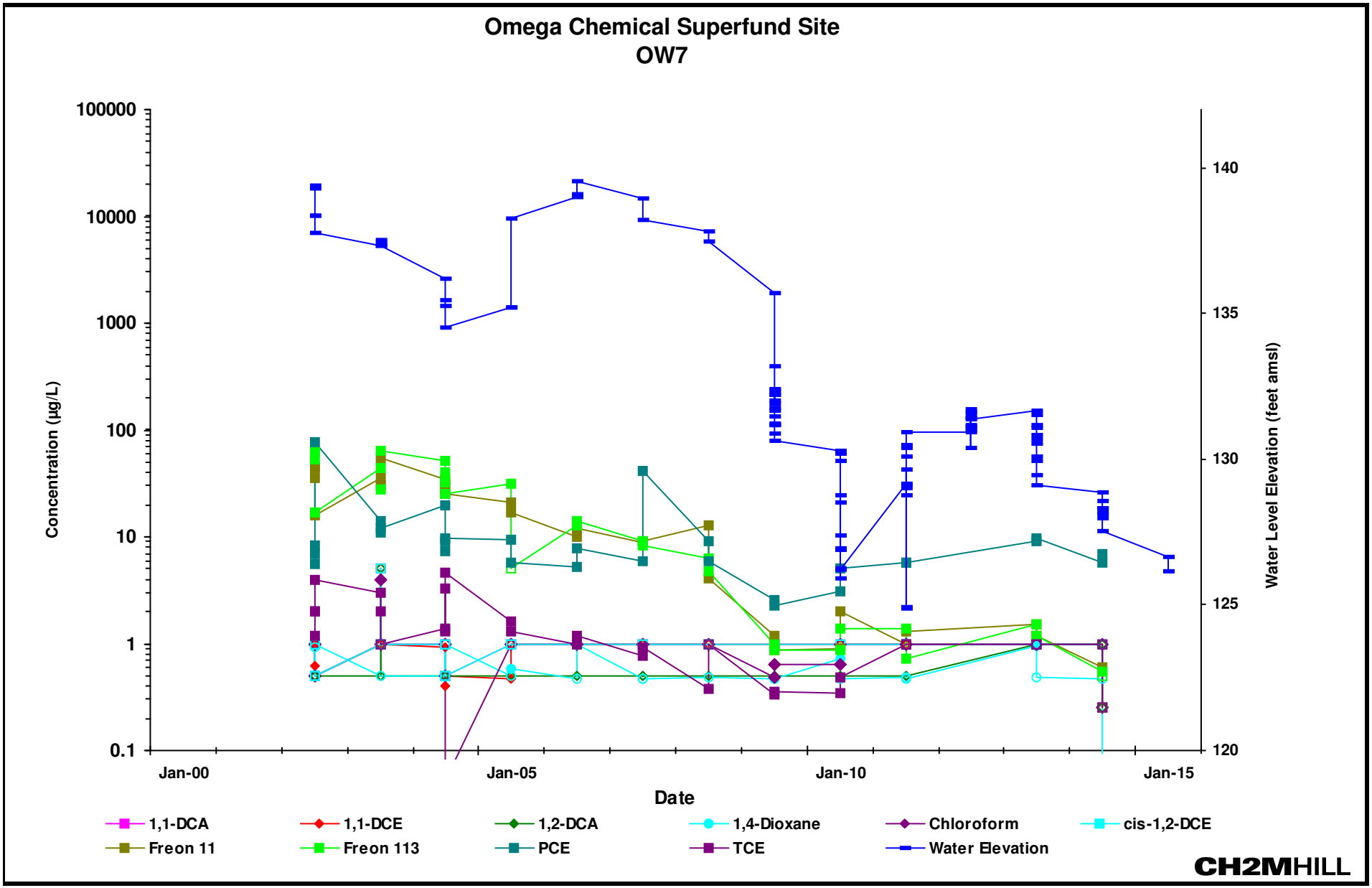

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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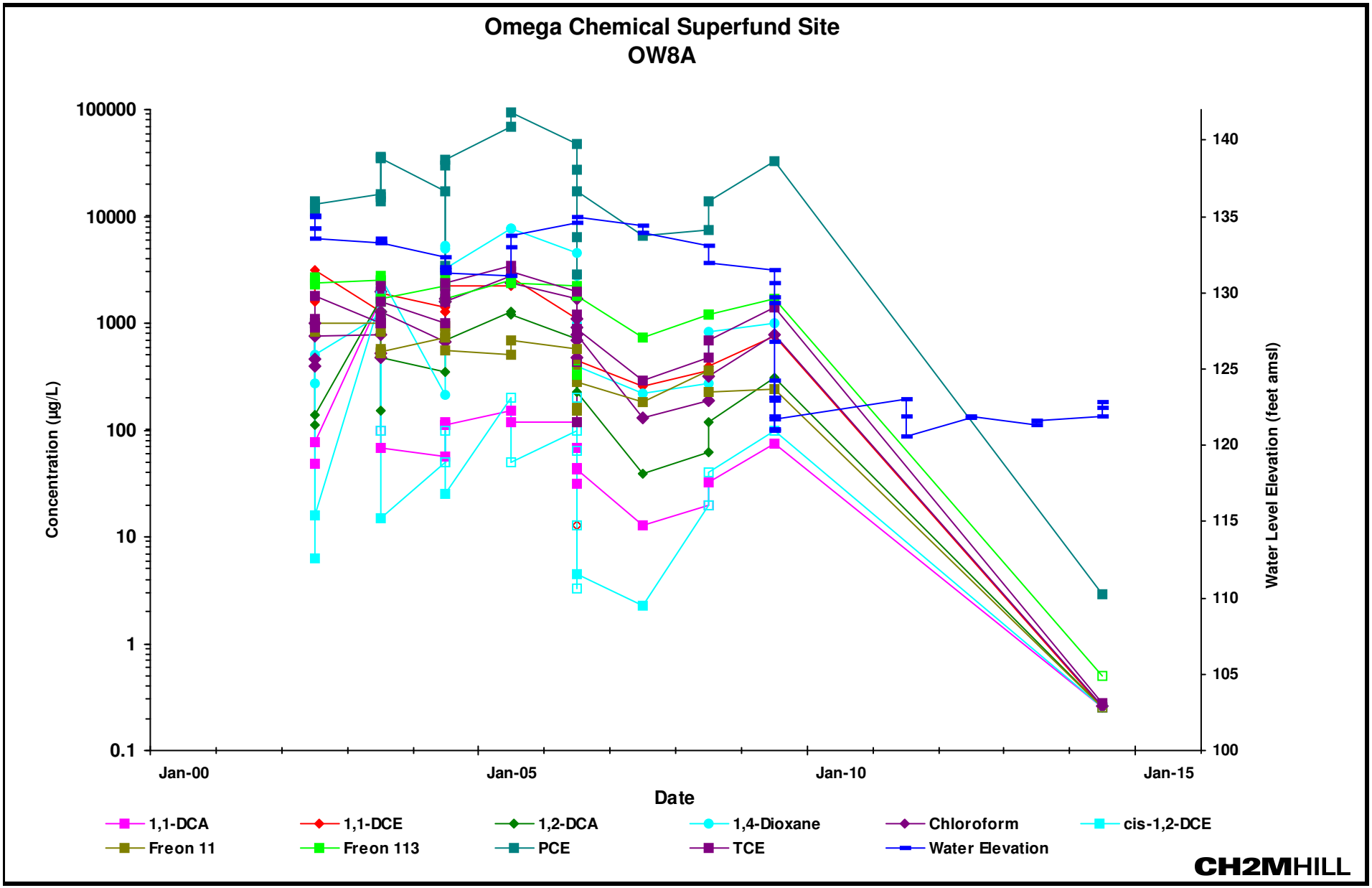

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1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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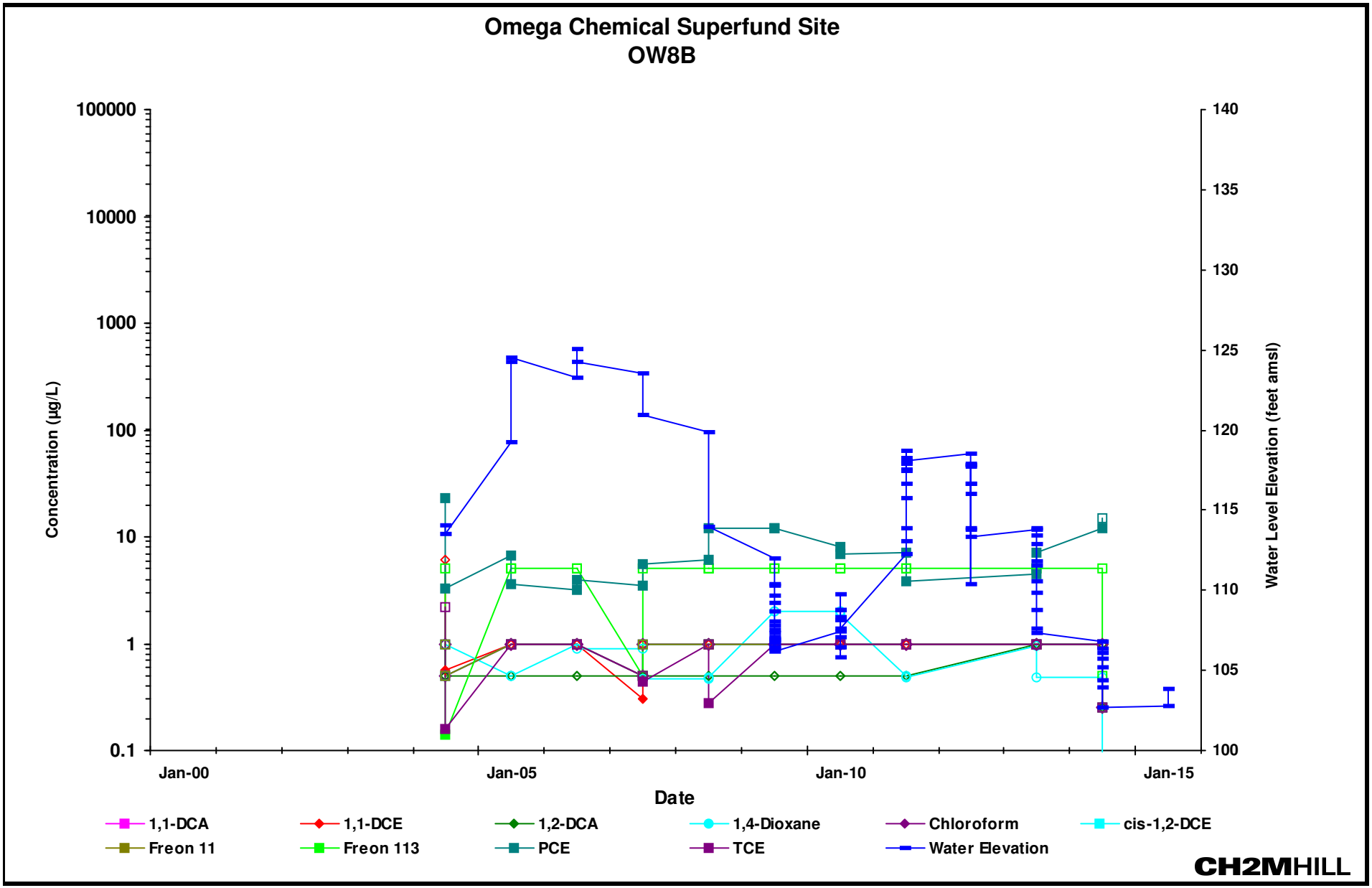

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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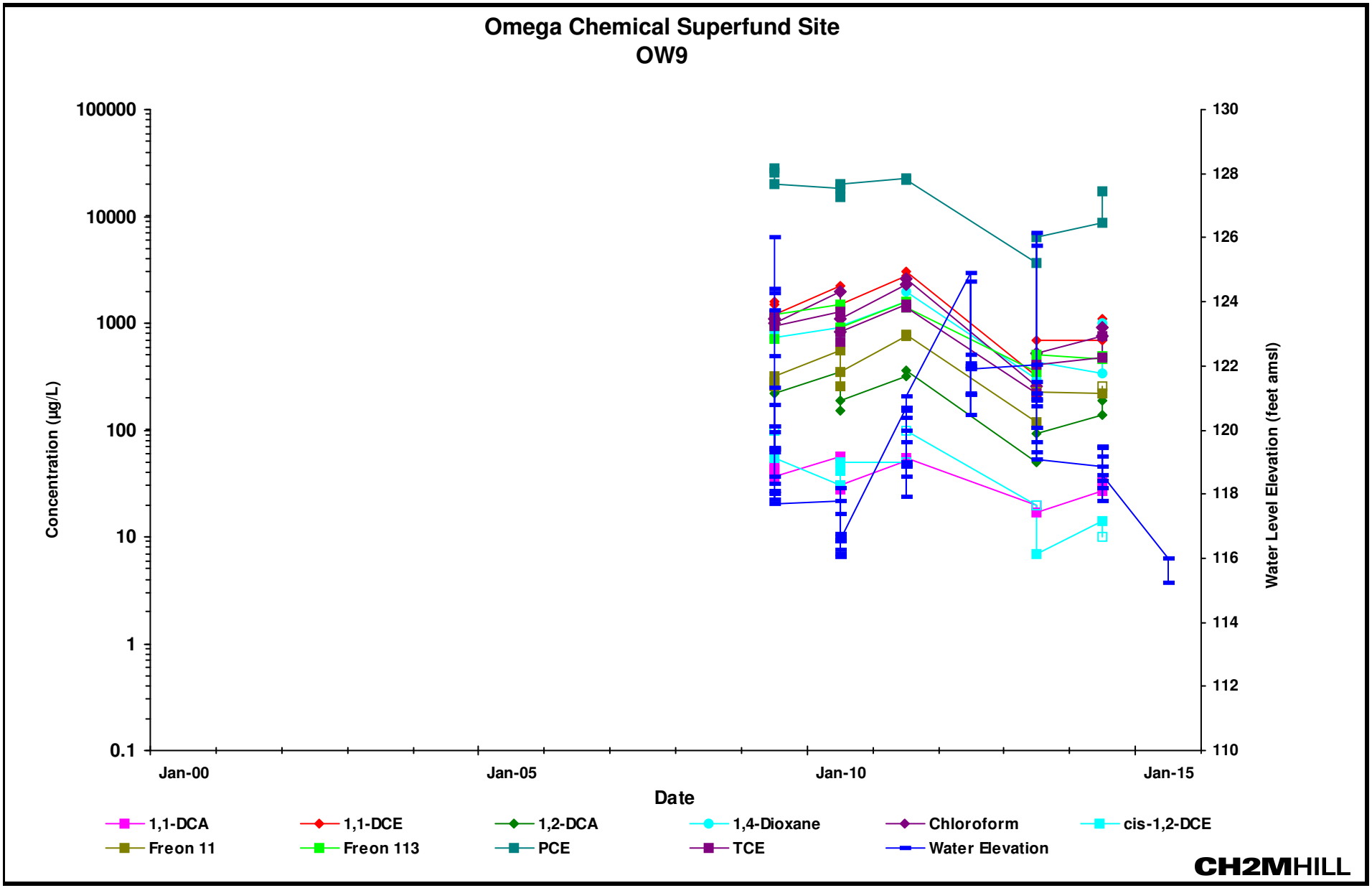

Notes:
1,1-DCA: 1,1-Dichloroethane **1,1-DCE: 1,1-Dichloroethene** **1,2-DCA: 1,2-Dichloroethane** **1,4-Dioxane: 1,4-Dioxane (p-dioxane)** **cis-1,2-DCE: cis-1,2-Dichloroethene**
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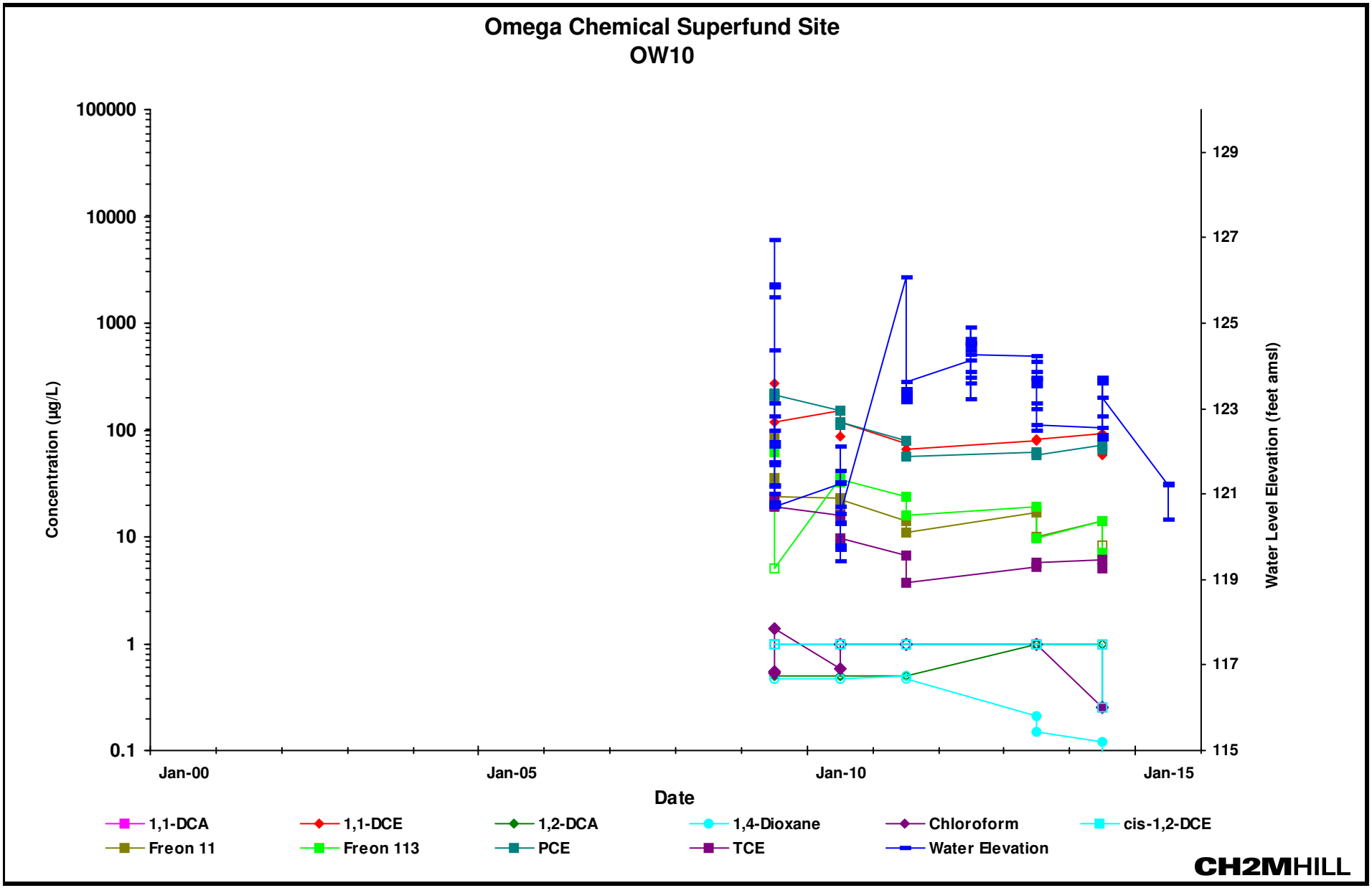

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1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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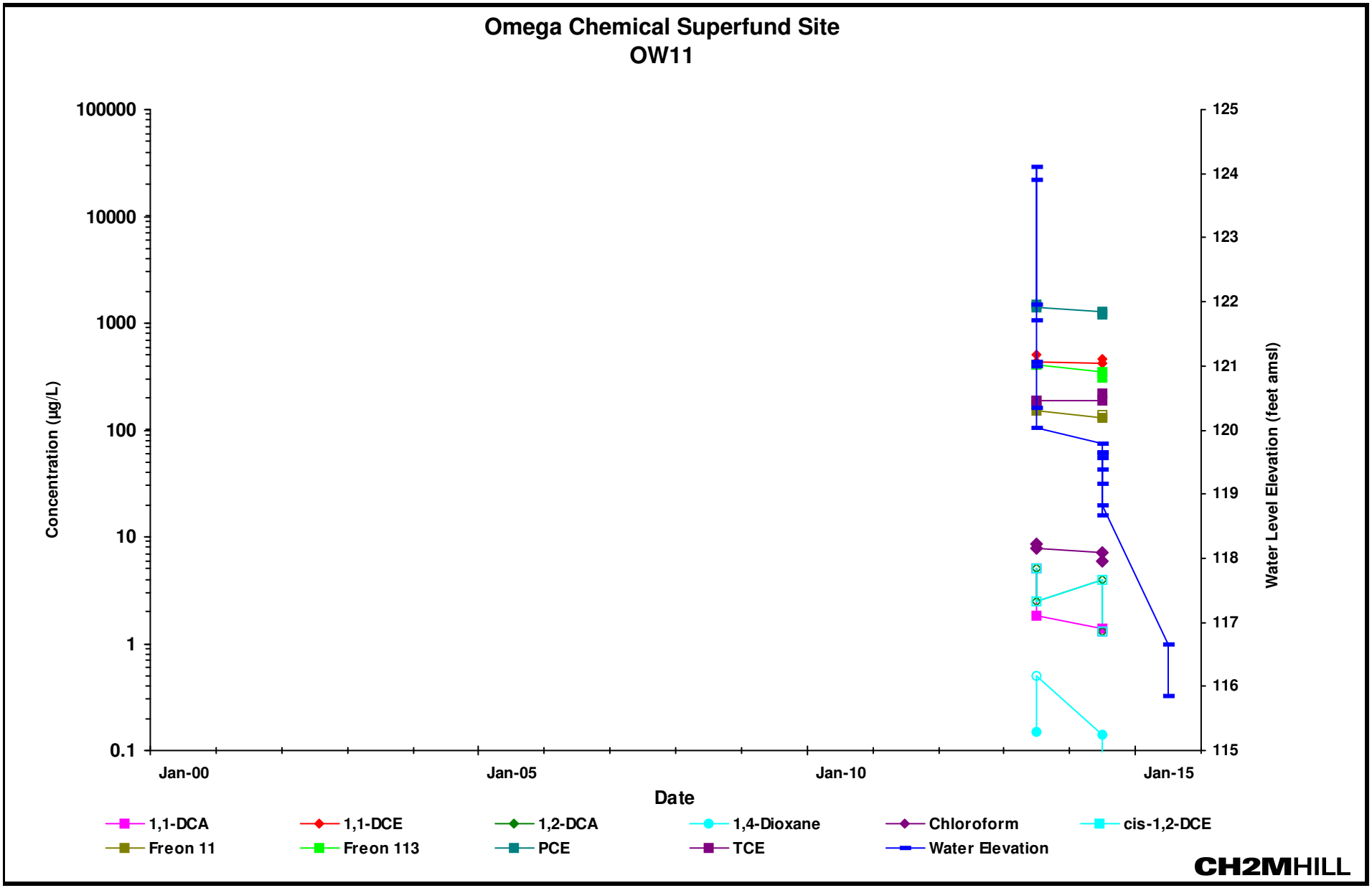

Notes:
1,1-DCA: 1,1-Dichloroethane **1,1-DCE: 1,1-Dichloroethene** **1,2-DCA: 1,2-Dichloroethane** **1,4-Dioxane: 1,4-Dioxane (p-dioxane)** **cis-1,2-DCE: cis-1,2-Dichloroethene**
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