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IN SITU BIOREMEDIATION PROGRAM
APRIL THROUGH JUNE 2015 PROGRESS UPDATE
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

by Haley & Aldrich, Inc.
Oakland, California

for Advanced Micro Devices, Inc.
Sunnyvale, California

File No. 39751-015
JULY 2015

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30 July 2015
File No. 39751-015

United States Environmental Protection Agency
Region 9
75 Hawthorne Street (SFD-7-1)
San Francisco, California 94105

Attention: Ms. Melanie Morash

Subject: In Situ Bioremediation Program
April through June 2015 Progress Update
Former 901/902 Thompson Place
Sunnyvale, California

Dear Ms. Morash:

On behalf of Advanced Micro Devices, Inc. (AMD), Haley & Aldrich, Inc. (Haley & Aldrich) has prepared this In Situ Bioremediation (ISB) Program Progress Update for the April through June 2015 period (second quarter of 2015; 2Q15) for the former 901/902 Thompson Place site in Sunnyvale, California (the Site). This update summarizes the status of the ISB program and the results of the 2Q15 performance monitoring event.

Background

The Site history, hydrogeology, and current environmental conditions are described in detail in the Combined 2014 Annual Groundwater Monitoring Report and Annual In Situ Bioremediation Program Report[1], and are summarized below.

AMD designed and fabricated semiconductor devices at the Site between 1969 and 1992. The facility was vacated by AMD in 1992, and remained vacant until the property was sold and redeveloped for use as a self-storage facility in 2007.

The primary chemicals of concern (COCs) detected at the Site at concentrations above cleanup goals are trichloroethene (TCE), cis-1,2-dichloroethene (cDCE) and vinyl chloride (VC). Both cDCE and VC are interim breakdown products of TCE as it degrades to environmentally benign ethene. The primary on-

[1] Haley & Aldrich, Inc., 2015. Combined 2014 Annual Groundwater Monitoring Report and Annual In Situ Bioremediation Program Report, Former 901/902 Thompson Place, Sunnyvale, California, January.

Site source of TCE impacts to groundwater beneath the Site is attributed to leaks from the former acid neutralization system tanks (the tanks were removed in 1983 and 1984)[2].

The Site was added to the National Priorities List in June 1986, and the United States Environmental Protection Agency (EPA) issued a Record of Decision (ROD) on 11 September 1991. The Site was previously regulated under Site Cleanup Requirements Order Number 91-102 issued on 19 June 1991 by the California Regional Water Quality Control Board, San Francisco Bay Region (Water Board). However, in a letter dated 7 August 2014, the lead agency role was transferred from the Water Board to the EPA.

The ROD specifies groundwater extraction and treatment as the remedial alternative to be used for the Site. The groundwater extraction and treatment system began operating in 1983 and continued until December 2002, when it was discontinued with Water Board approval to allow for the ISB pilot test. Based on the success of the pilot test, implementation of a Full Scale ISB program was initiated in 2005 with Water Board approval.

In 2011, AMD submitted a Focused Feasibility Study[3] (FFS) to the Water Board and EPA to evaluate the current potential revised cleanup plans. As described in the FFS, the proposed remedy for the Site is ISB with monitored natural attenuation and institutional controls. The EPA reviewed the FFS and provided comments to AMD via the Water Board in June 2013. Haley & Aldrich incorporated the comments and submitted a Revised FFS[4] in September 2013.

OVERVIEW OF THE ISB SYSTEM

The ISB system was designed to increase the organic carbon content of the groundwater system, thereby enhancing the anaerobic microbiological activity and promoting the in situ biotransformation of COCs to environmentally benign end-products (primarily chloride, ethene and ethane). The primary components of the ISB system include:

- **Ex situ COC Removal:** Groundwater pumped from the extraction well(s) in the former source area is treated with two granular activated carbon vessels in series to remove COCs before the groundwater is reinjected into the subsurface.
- **Substrate Delivery System:** Substrate delivery is performed by introducing a dissolved organic substrate (to date, both molasses and sodium lactate have been proven effective) to the subsurface and distributed by a network for groundwater circulation wells.
- **In situ Destruction of COCs:** In situ treatment processes are promoted by adding substrate to the extracted groundwater using the delivery system described above. The addition of substrate to groundwater containing TCE and cDCE has proven to be an effective in situ remedial strategy

[2] Arcadis, 2001. Five-Year Review Report, Advanced Micro Devices, Inc. 901/902 Thompson Place, Sunnyvale, California, December.
[3] AMEC, 2011. Focused Feasibility Study, Former 901/902 Thompson Place, Sunnyvale, California, May.
[4] Haley & Aldrich, Inc., 2013. Revised Focused Feasibility Study, Former 901/902 Thompson Place, Sunnyvale, California, October.

at this Site, as demonstrated in the pilot test conducted from 2002 to 2004 and in the full-scale ISB system.

Figure 1 shows the layout of the ISB system. The construction details of the ISB program wells are summarized in Table 1.

The ISB system was started in December 2005 and operated until May 2008, when it was determined that sufficient organic carbon was successfully delivered to the subsurface to sustain the passive bioremediation of COCs. Between 2009 and 2011, the ISB system was not operated, but performance monitoring continued to assess ongoing, passive destruction of COCs. In 2011, performance monitoring results indicated that while intrinsic bioremediation was still occurring, the organic carbon substrate was depleted in some wells, and although COC concentrations were much lower than pre-ISB conditions, they were beginning to trend upwards due to the loss of organic carbon. Since November 2011, additional organic carbon substrate has been delivered to groundwater by operating the ISB system on a periodic basis, coupled with quarterly performance monitoring.

2Q15 ISB Progress Update

The following sections describe the tasks completed in 2Q15 related to the ISB program.

ORGANIC CARBON AMENDMENT AND GROUNDWATER RECIRCULATION

No organic carbon substrate amendment or groundwater circulation occurred in the 2Q15 reporting period. Additional organic carbon substrate amendment and groundwater circulation are planned during the second half of 2015.

QUARTERLY PERFORMANCE MONITORING

A quarterly performance monitoring event was conducted at the Site on 11 May 2015 by Blaine Tech Services, Inc. (Blaine Tech) on behalf of AMD. The event consisted of measuring water levels in seventeen ISB monitoring wells, and collecting groundwater samples from thirteen ISB monitoring wells. Groundwater samples were collected using low-flow sampling methods. Each well was purged at a rate of 500 milliliters per minute (mL/min) or less using new, disposable, or dedicated tubing and a peristaltic pump. The wells were purged until water quality parameters (including temperature, pH, electrical conductivity, and oxidation-reduction potential) stabilized. Groundwater samples were then collected directly from the pump effluent into laboratory-provided sampling vials. Samples were labeled, sealed in plastic bags, and shipped to the analytical laboratory under chain-of-custody procedures. Purged groundwater was transported to the treatment system at the nearby AMD 915 DeGuigne Drive site, where it was treated with granular activated carbon (GAC) prior to discharging to the storm drain under an existing NPDES permit. Groundwater elevation data are included in Table 2. Water quality parameters recorded during purging and sampling are included in Table 3. Field sampling datasheets are including in Appendix A.

Groundwater samples were analyzed by Curtis & Tompkins, Inc. for chlorinated VOCs using USEPA Method 8260B and total organic carbon (TOC) using Standard Method (SM) 5310C. The samples were also analyzed by Microseeps/Pace Analytical Energy Services, LLC, for dissolved hydrocarbon gases (ethene, ethane, and methane) using Method AM20GAX. Laboratory analytical results are included in Table 4; the laboratory analytical reports are included as Attachment B. The results of the quarterly performance monitoring events on 11 May 2015 and 21 May 2015 are discussed below.

Performance Monitoring Results

The results of the 2Q15 performance monitoring event indicate the following:

- As shown in Table 3, the groundwater pH ranged from 6.38 to 7.51 which is within the near neutral pH range favorable for reductive dechlorination of TCE, cDCE and VC.
- As shown in Table 4, nine of the thirteen performance monitoring wells (16-S, 16-D, 28-MW, DW-1, DW-2, DW-7, X2A, X1B, and X2B1) were either non-detect for TCE, or reported concentrations below the cleanup goal of 5 micrograms per liter (µg/L). Seven of the 13 wells (16-S, 23-D, 28-MW, DW-1, DW-2, X2A, and X2B1) were either non-detect for cDCE, or reported concentrations below the cleanup goal of 6 µg/L.
- As shown in Figure 2, cumulative TCE, cDCE, and VC concentrations (expressed in micromoles per liter) in all thirteen May 2015 samples are 50% or less than the maximum concentrations reported at each well since ISB started in December 2005 (i.e. the maximum concentration rebound is approximately 50% at three performance monitoring well samples plotting along the dashed line, and less than 10% at seven samples plotting below the red line).
- As shown in Appendix C, an increase in the relative proportion of ethene generally coincides with higher TOC levels, indicating that the periodic addition of organic carbon is sustaining the ongoing degradation of COCs and native microbes are capable of complete dechlorination (i.e. no bioaugmentation is needed).
- Of the seven groundwater samples plotting below the red line in Figure 2 (meaning concentration is more than an order of magnitude less than maximum, or less than 10% rebound), five of these seven samples had TOC concentrations greater than 5 mg/L; all of the samples plotting above the red line in Figure 2 (more than 10% rebound) had TOC less than 5 mg/L. This suggests that additional organic substrate delivery should focus on the areas near X2A, X1B, PMW-2-1, PMW-2-3, 23-S and 23-D.

Summary

The May 2015 results continue to support the ongoing success of ISB at the Site. The maximum rebound observed based on the May 2015 data is approximately 50%, although the majority of groundwater samples have not shown rebound above 10% of maximum concentration. Additional carbon substrate is recommended to further promote and sustain ISB processes.

Please contact either of the undersigned if you have any questions or need further information.

Sincerely yours,
HALEY & ALDRICH, INC.

Michael Calhoun, PG, CHG
Senior Technical Specialist

Peter Bennett, PG, CHG
Vice President and Lead Hydrogeologist

Enclosures:

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c: Advanced Micro Devices, Inc.; Attn: Ms. Heather O'Cleirigh
Advanced Micro Devices, Inc.; Attn: Mr. Brett Stringer

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TABLES

TABLE 1
ISB WELL CONSTRUCTION DETAILS [1]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Well ID	Well Type	Screen Interval (ft bgs)	Borehole Diameter (inches)	Well Diameter (inches)
A - Zone Wells				
I1A [2]	Injection	11.8 - 20.8	4.5	0.75
I2A [2]	Injection	11.6 - 19.6	4.5	0.75
16-S	Extraction/Monitoring	9 - 16	8	4
X2A	Extraction/Monitoring	10.0 - 19.9	8.25	2
23-S	Monitoring	9.0 - 16.0	8	4
P2A [3]	Monitoring	15.0 - 19.5	5.5	0.75
DW-2	Monitoring/Injection	10.0 - 14.0	NA	12
28-MW	Monitoring	10.0 - 16.3	8.25	2
ISB1AR	Injection	10.0 - 24.4	8.25	2
ISB2AR	Extraction/Injection	15.1 - 19.6	8.25	2
B1 - Zone Wells				
I1B [2]	Injection	25.5 - 34.9	4.5	0.75
I1B1 [2]	Injection	37.6 - 44.7	4.5	0.75
I2B1 [2]	Injection	26.0 - 33.5	4.5	0.75
I2B1/B2 [2]	Injection	35.5 - 39.5	4.5	0.75
16-D	Extraction/Monitoring	31 - 41	8	4
DW-7	Extraction/Monitoring	35 - 45	NA	NA
X1B	Extraction/Monitoring	25.4 - 30.2	8.25	2
X2B1	Monitoring/ Injection/Extraction	26.5 - 36.5	8.25	2
DW-1	Monitoring/ Injection/Extraction	32 - 40	NA	4
23-D	Monitoring	40 - 50	8	4
PMW-1-1	Monitoring	26.0 - 27.4	5.5	1.1
PMW-1-2	Monitoring	31.0 - 32.4	5.5	1.1
PMW-1-3	Monitoring	35.9 - 38.5	5.5	1.1
PMW-2-1	Monitoring	26.7 - 28.1	5.5	1.1
PMW-2-2	Monitoring	36.7 - 38.1	5.5	1.1
ISB3BR	Injection/Extraction	25.7 - 43.3	8.25	2
ISB2BR [4]	Injection	31.4 - 39.6	8.25	2
B2 - Zone Wells				
I2B2 [2]	Injection	44.2 - 48.2	4.5	0.75
DW-8	Extraction	45 - 65	NA	NA
PMW-2-3	Monitoring	45.5 - 48.2	5.5	1.1
ISB1BR	Injection	31.0 - 44.5	8.25	2

Notes:
1. Wells X1B, X2A, X2BA, I1A, I1B, 12A, 12B1/B2, P2A, multi-level wells PMW-1 and PMW-2, ISB1AR, ISB2AR, ISB2BR, and ISB3BR were installed for use in the ISB program. The remaining ISB program previously installed as part of the ongoing groundwater monitoring activities for the former groundwater system for the site.
2. Well destroyed on 2 May 2006 to accommodate site grading and construction activities.
3. Well destroyed on 27 August 2007 due to damage that occurred during property development.
4. Well ISB2BR is angled at approximately 30 degrees from vertical running beneath the building. The true depth of the screen interval is 31.4 to 39.6 ft bgs.

Abbreviations:
ft bgs = feet below ground surface
NA = not available

TABLE 2
WATER LEVEL ELEVATIONS
SECOND QUARTER 2015
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Well Name	Date	Location Coordinates [1]		Screen Interval (feet bgs) [2]	Measuring Point Elevation [3] (feet NAVD88) [4]	Water Level Depth (feet btc) [5]	Water Level Elevation (feet NAVD88) [4]
		Latitude	Longitude				
23-S	5/11/2015	37.38292321	122.0097060	9 - 16	47.03	8.98	38.05
16-S [6]	5/21/2015	37.38302803	122.0094942	9 - 16	47.70	10.31	37.39
DW-2	5/11/2015	37.38290374	122.0095907	10 - 14	46.45	8.99	37.46
28-MW	5/11/2015	37.38294782	122.0095259	10.0 - 16.3	47.42	9.73	37.69
X2A	5/11/2015	37.38298213	122.0096288	10.0 - 19.9	47.08	9.91	37.17
X1B	5/11/2015	37.38297721	122.0095389	25.4 - 30.2	47.18	9.40	37.78
X2B1	5/11/2015	37.38298238	122.0096398	26.5 - 36.5	46.83	7.09	39.74
PMW-1-1	5/11/2015	37.38294193	122.0095380	26.0 - 27.4	47.45	9.61	37.84
PMW-1-2	5/11/2015	37.38294193	122.0095380	31.0 - 32.4	47.45	9.62	37.83
PMW-1-3	5/11/2015	37.38294193	122.0095380	35.9 - 38.5	47.45	9.92	37.53
PMW-2-1	5/11/2015	37.38295602	122.0096339	26.7 - 28.1	47.26	9.37	37.89
PMW-2-2 [6]	5/21/2015	37.38295602	122.0096339	36.7 - 38.1	47.26	9.37	37.89
PMW-2-3	5/11/2015	37.38295602	122.0096339	45.5 - 48.2	47.26	9.01	38.25
16-D	5/11/2015	37.38303803	122.0095055	31 - 41	47.49	10.03	37.46
DW-1	5/11/2015	37.38289028	122.0095901	32 - 40	46.91	10.10	36.81
DW-7	5/11/2015	37.38306080	122.0095395	35 - 45	46.11	8.67	37.44
23-D	5/11/2015	37.38293321	122.0097160	40 - 50	47.04	8.63	38.41

Notes:
1. Well locations were surveyed by Silicon Valley Land Surveying, Inc. (SVLS) on 16 November 2006. Wells were resurveyed by SVLS on 10 to 11 September 2007 after site redevelopment. Horizontal coordinates are referenced to the North American Datum of 1983 (NAD83).
2. feet bgs = feet below ground surface.
3. Top of casing elevations for a subset of wells was altered during repairs made on 7 to 8 August 2007 in response to site redevelopment.
4. feet NAVD8 = feet relative to the North American Vertical Datum of 1988.
5. feet btc = feet below top of well casing.
6. Depth to water was remeasured on 21 May 2015 at the depths shown. Refer to the Water Levels section of the report for additional details.

TABLE 3
WATER QUALITY PARAMETERS
SECOND QUARTER 2015
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Well ID	Date	Temp (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)
23-S	5/11/2015	17.2	6.61	1,301	85.1	0.57	17
16-S	5/21/2015	17.4	6.56	1,570	-96.0	0.15	59
DW-2	5/11/2015	18	6.38	1,860	-66.4	0.69	36
28-MW	5/11/2015	18.3	6.41	1,524	-110.0	0.48	24
X2A	5/11/2015	18	6.59	1,820	-110.5	0.49	17
X1B	5/11/2015	19.5	6.70	1,284	-113.0	0.02	6
X2B1	5/11/2015	20.2	7.08	7,572	-151.3	0.00	149
PMW-2-1	5/11/2015	19.2	6.69	1,718	-80.8	0.40	48
PMW-2-3	5/11/2015	19.4	6.94	1,006	-141.0	0.31	28
16-D	5/11/2015	19.6	6.90	1,289	-126.3	0.00	2
DW-1	5/11/2015	17.5	6.55	1,686	-98.7	0.46	51
DW-7	5/11/2015	19.8	7.51	926	-165.6	0.20	50
23-D	5/11/2015	18.3	6.88	1,000	22.0	1.58	21

Abbreviations:
Temp = temperature
Spec. Cond. = specific conductivity
ORP = oxidation-reduction potential
DO = dissolved oxygen
°C = degrees celsius
µS/cm = microsiemens per centimeter

mV = millivolts
mg/L = milligrams per liter
NTUs = nephelometric turbidity units

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
23-S [3]	12/6/2005	<0.5	37	84	14	1.9	31	0.5	<0.5	11	<0.5	1.0	<0.5	<0.5	<1	--	--	--	--
	2/14/2006	<1.0	38	140	15	2.2	11	<1.0	<1.0	6.4	<1.0	<1.0	<1.0	<1.0	<2.0	--	--	--	--
	5/2/2006	<1.0	18	210	15	1.9	15	<1.0	<1.0	11	<1.0	<1.0	<1.0	<1	<2	--	--	--	--
	8/2/2006	<0.5	14	49	18	0.7	10	<0.5	12	6.9	<0.5	0.7	<0.5	<0.5	<1	--	--	--	--
	11/7/2006 [4]	<0.5	29 J [5]	67	25	1.7	14	0.5	16	12	<0.5	0.8	<0.5 UJ [6]	<0.5	3	--	--	--	--
	5/31/2007	<0.5	41	71	8.7	2.2	15	<0.5	1.7	5.6	<0.5	<0.5	<0.5	<0.5	<1	1.500	<0.025	58.000	2.6
	8/21/2007	<0.5	50	88	16	2.2	40	0.6	3.9	11	<0.5	0.5	<0.5	<0.5	<1.0	4.000	0.52	59.000	2.8
	10/22/2007	<0.5	52	60	6.0	1.8	25	<0.5	<0.5	5.9	<0.5	<0.5	<0.5	<0.5	<1.0	3.2	<0.025	980	4.4
	2/5/2008	0.7	34	43	5.0	1.1	14	<0.5	0.6	4.4	<0.5	<0.5	<0.5	<0.5	1.6	1.90	0.028	1700	5.1
	5/2/2008	<0.5	22	180	37	3.0	100	0.6	4.0	8.8	<0.5	0.5	<0.5	<0.5	2.8	42.000	0.120	2300.000	20
	7/18/2008	<0.5	38	71	15	2.0	22	<0.5	0.7	5.9	<0.5	<0.5	<0.5	<0.5	2.4	1.800	<0.025	500.000	4.9
	10/7/2008	<0.5	29	130	17	1.5	23	<0.5	2.1	20	<0.5	0.9	<2.0	<0.5	3.2	0.990	0.070	1900.000	4.3
	2/10/2009	<0.5	18	89	6.1	1.3	6.9	<0.5	1.0	12	<0.5	0.5	<2.0	<0.5	<1.0	0.250	<0.025	190.000	3.5
	5/27/2009	<1.0	9.3	130	8.3	1.5	7.9	<1.0	<1.0	14	<1.0	<1.0	<4.0	<1.0	<2.0	0.260	0.036	270.000	2.4
	7/13/2009	<1.0	7.9	150	9.4	1.6	13	<1.0	<1.0	22	<1.0	<1.0	<4.0	<1.0	<2.0	0.300	0.029	420.000	2.6
	10/16/2009	<1.0	17	200	12.0	2.0	11	<1.0	1.1	23	<1.0	1.0	<4.0	<1.0	<2.0	0.590	0.052	410.000	3
	2/19/2010	<0.5	14	77	4.6	0.8	2.8	<0.5	<0.5	8	<0.5	<0.5	<2.0	<0.5	<1.0	0.038	<0.025	70.000	6.3
	4/23/2010	<0.5	16	76	4.4	0.8	1.8	<0.5	<0.5	6.6	<0.5	<0.5	<2.0	<0.5	<1.0	0.051	<0.025	36.000	7.4
	7/7/2010	<1.3	32	130	7.3	<1.3	9.5	<1.3	<1.3	14	<1.3	<1.3	<5.0	<1.3	<2.5	0.180	<0.025	93.000	2.3
	10/21/2010	<1.3	9.5	350	19	<1.3	160	<1.3	1.6	18	<1.3	<1.3	<5.0	<1.3	<2.5	5.400	0.036	370.000	2.7
	2/1/2011	0.7	18	77	5.1	0.6	3.7	<0.5	<0.5	7.0	<0.5	<0.5	<2.0	<0.5	<1.0	0.070	<0.025	6.300	7.1
	4/14/2011	0.9	20	63	4.8	0.7	1.2	<0.5	<0.5	5.6	<0.5	<0.5	<2.0	<0.5	<1.0	<0.025	<0.025	3.400	6.2
	7/22/2011	<0.7	26	110	7.8	0.8	3.4	<0.7	<0.7	16	<0.7	<0.7	<2.9	<0.7	<1.4	0.120	<0.025	29	2.7
	10/26/2011	<1.0	19	270	20.0	1.0	100	<1.0	1.0	18	<1.0	<1.0	<4.0	<1.0	<2.0	1.4	0.11	130	2.5
	2/8/2012	0.7	40	86	5.1	0.9	<0.50	<0.50	<0.50	9.4	<0.50	0.50	<2.0	<0.50	<1.0	0.031	0.0065 J	4.1	2.5
	4/19/2012	1.1	17	51	5.6	0.8	6.2	<0.50	<0.50	7.5	<0.50	<0.50	<2.0	<0.50	<1.0	0.10	0.0059 J	4.4	5.5
	7/23/2012	0.7	24	80	7.0	0.6	6.8	<0.50	<0.50	9.7	<0.50	0.60	<2.0	<0.50	<1.0	0.11	0.0074 J	5.9	2.1
	10/10/2012	0.9 J	30 J	120 J	7.6 J	<1.0	15 J	<0.50	0.5 J	20 J	<0.50	0.80 J	<2.0	<0.50	<1.0	0.17	0.15	25	1.9
	3/12/2013	1.0	31	46	4.5	0.5	5.7	<0.5	<0.5	9.1	<0.5	<0.5	<1.0	<0.5	<1.0	0.052	0.20	410	4.1
	6/4/2013	0.8	34	64	3.2	0.6	0.9	<0.5	<0.5	11	<0.5	0.5	<2.0	<0.5	<1.0	0.011 J	0.11	63	2.5
	8/29/2013	1.1	38	120	12	1.3	6.1	<0.5	<0.5	17	<0.5	0.7	<2.0	<0.5	<1.0	0.12	0.68	310	2.5
	10/17/2013	1.0	37	130	13	1.5	12	<0.5	<0.5	20	<0.5	0.8	<2.0	<0.5	<1.0	0.14	0.62	270	2.4
	3/4/2014	1.1	36	97	8.7	1.3	3.0	<1.0	<1.0	14	<1.0	<1.0	<4.0	<1.0	<2.0	0.024 J	0.13	30	2.6
	5/27/2014	0.9	29	93	6.5	0.8	0.7	<0.5	<0.5	9.8	<0.5	0.6	<2.0	<0.5	<1.0	0.0083 J	0.072	36	2.2
	8/18/2014	1.4	48	120	12	1.6	7.6	<0.5	<0.5	17	<0.5	0.8	<2.0	<0.5	<1.0	0.10	0.21	130	2.4
	10/14/2014	1.0	36	130	10	1.1	9.2	<1.0	<1.0	17	<1.0	<1.0	<4.0	<1.0	<2.0	0.087	0.14	82	2.2
	2/5/2015	0.8	27	90	7.6	0.6	1.5	<0.6	<0.6	7.0	<0.6	<0.6	<2.5	<0.6	<1.3	0.0086 J	0.0085 J	2.3	2.4
	5/11/2015	0.9	25	68	5.7	<0.6	<0.6	<0.6	<0.6	7.7	<0.6	<0.6	<2.5	<0.6	<1.3	0.031 J	0.026 J	3.2	3.1

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
23-D [3]	12/6/2005	<0.7	230	390	15	1.8	56	0.7	<0.7	11	<0.7	1.0	3.0	<0.7	<1.4	0.670	0.026	11.000	1.1
	2/14/2006	<1.0	140	160	11	1.4	20	<1.0	<1.0	6.5	<1.0	<1.0	3.6	<1.0	<2.0	0.280	0.067	41.000	1.6
	5/2/2006	<1.0	140	370	16	2.1	40	<1.0	<1.0	9.5	<1.0	<1.0	3.4	<1	<2	0.620	0.080	130.000	33
	8/2/2006	<0.5	56	54	13	<0.5	82	0.6	4.2	5.2	<0.5	<0.5	2.2	<0.5	<1	60.000 J	0.110 J	2700.000 J	22
	11/7/2006 [4]	<0.5	3.1 J	47	6.6	<0.5	21	0.7	3.0	3.0	<0.5	<0.5	4.1 J	<0.5	<1	--	--	--	--
	2/15/2007	<0.5	6.6	69	4.6	<0.5	41	0.7	2.8	1.6	<0.5	<0.5	2.6	<0.5	<1	14.000	0.043	130.000	3.5
	5/31/2007	<0.5	9.3	83	2.7	0.7	15	0.7	1.6	1.1	<0.5	<0.5	3.4	0.7	<1	6.300	0.041	130.000	1.6
	8/21/2007	<1.0	28	140	2.5	<1.0	34	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	<1.0	<2.0	9.000	0.110	36.000	1.3
	10/22/2007	<1.3	210	28	<1.3	<1.3	2.4	<1.3	<1.3	<1.3	<1.3	<1.3	7.0	<1.3	<2.5	0.52	<0.025	1.4	0.79
	2/5/2008	<1.0 / <0.7	110 / 120	9.8 / 9.7	<1.0 / <0.7	<1.0 / <0.7	<1.0 / <0.7	<1.0 / <0.7	<1.0 / <0.7	<1.0 / <0.7	<1.0 / <0.7	<1.0 / <0.7	<1.0 / <0.7	<1.0 / <0.7	<2.0 / <1.4	<0.025	<0.025	0.20	5.6 / 5.5
	5/2/2008	<1.0 / <1.7	280 / 270	9.8 / 9.6	<1.0 / <1.7	<1.0 / <1.7	<1.0 / <1.7	<1.0 / <1.7	<1.0 / <1.7	<1.0 / <1.7	<1.0 / <1.7	<1.0 / <1.7	4.5 / 3.9	<1.0 / <0.7	<2.0 / <1.4	0.060	<0.025	1.600	0.71 / 0.67
	7/18/2008	<1.3 / <1.7	270 / 280	10 / 10	<1.3 / <1.7	<1.3 / <1.7	1.3 / <1.7	<1.3 / <1.7	<1.3 / <1.7	<1.3 / <1.7	<1.3 / <1.7	<1.3 / <1.7	5.1 / 5.4	<1.3 / <1.7	<2.5 / <3.3	0.180	<0.025	0.500	0.50 / 0.59
	10/7/2008	<2.5 / <0.7	300 / 290	8.0 / 8.7	<2.5 / <0.7	<2.5 / 0.8	<2.5 / <2.5	<2.5 / <0.7	<2.5 / <0.7	<2.5 / <0.7	<2.5 / <0.7	<2.5 / <0.7	<10 / 4.9	<2.5 / <0.7	<5.0 / <1.4	0.300	<0.025	2.900	0.78 / 0.78
	2/10/2009	<2.5 / <0.5	200 / 180	260/ 230	11 / 11	<2.5 / 1.6	<2.5 / 1.3	<2.5 / 0.7	<2.5 / <0.7	<2.5 / 0.8	<2.5 / <0.5	<2.5 / <0.5	<10 / 3.7	<2.5 / <0.5	<5.0 / <1.0	0.055	<0.025	0.690	0.67 / 0.60
	6/1/2009	<1.7 / <2.0	270 / 210	150/ 100	7.9 / 5.3	<1.7 / <2.0	2.3 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<6.7 / <8.0	<1.7 / <2.0	<3.3 / <4.0	0.160	<0.025	0.860	0.56 / 0.67
	7/13/2009	<1.7 / <0.5	220 / 190	240 / 190	11 / 12	<1.7 / 1.6	4.5 / 4.8	<1.7 / 0.5	<1.7 / 0.6	<1.7 / <0.5	<1.7 / <0.5	<1.7 / <0.5	<6.7 / 3.2	<1.7 / <0.5	<3.3 / <1.0	0.097	<0.025	1.100	1.5 / 1.2
	10/16/2009	<1.7 / <2.0	180 / 180	350 / 330	19 / 18	2.6 / <2.0	41 / 40	<1.7 / <2.0	<1.7 / <2.0	4.1 / 4.0	<1.7 / <2.0	<1.7 / <2.0	<6.7 / <8.0	<1.7 / <2.0	<3.3 / <4.0	2.600	0.031	130.000	1.2 / 1.2
	2/19/2010	<1.3 / <1.3	140 / 140	150 / 150	7.9 / 7.8	<1.3 / <1.3	2.3 / 2.3	<1.3 / <1.3	<1.3 / <1.3	<1.3 / <1.3	<1.3 / <1.3	<1.3 / <1.3	<5.0 / <5.0	<1.3 / <1.3	<2.5 / <2.5	0.075	<0.025	2.800	2.3 / 2.3
	4/23/2010	<1.7 / <1.7	230 / 230	150 / 150	8.2 / 8.5	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<6.7 / <6.7	<1.7 / <1.7	<3.3 / <3.3	0.045	<0.025	5.200	1.2 / 1.1
	7/7/2010	<2.5 / <2.0	190 / 190	340 / 300	18 / 17	<2.5 / <2.0	21 / 20	<2.5 / <2.0	<2.5 / <2.0	<2.5 / 2.6	<2.5 / <2.0	<2.5 / <2.0	<10 / <8.0	<2.5 / <2.0	<5.0 / <4.0	0.420	<0.025	14.000	0.93 / 0.99
	10/21/2010	<2.5 / <2.0	160 / 150	360 / 350	20 / 19	3.5 / 2.8	52 / 54	<2.5 / <2.0	3.0 / 2.7	7.5 / 7.6	<2.5 / <2.0	<2.5 / <2.0	<10 / <8.0	<2.5 / <2.0	<5.0 / <4.0	1.600	<0.025	110.000	1.2 / 1.3
	2/1/2011	<2.5 / <2.0	250 / 220	27 / 20	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<10 / <8.0	<2.5 / <2.0	<5.0 / <4.0	0.054	<0.025	0.320	0.70 / 0.73
	4/14/2011	<2.5 / <2.0	270 / 280	14 / 14	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<10 / <8.0	<2.5 / <2.0	<5.0 / <4.0	0.039	<0.025	0.15	0.68 / 0.59
	7/22/2011	<2.5 / <2.0	250 / 280	6.4 / 7.6	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<10 / <8.0	<2.5 / <2.0	<5.0 / <4.0	0.050	<0.025	0.21	0.70 / 0.73
	10/26/2011	<1.7 / <2.0	240 / 260	6.9 / 7.4	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<6.7 / <8.0	<1.7 / <2.0	<3.3 / <4.0	0.30	0.027	1.7	0.57 / 0.56
	2/8/2012	<1.7 / <1.7	250 / 290	6.1 / 6.3	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<6.7 / <6.7	<1.7 / <1.7	<3.3 / <3.3	0.062	0.0087 J	1.6	<0.50 / <0.50
	4/19/2012	<1.7 / <2.5	270 / 300	5.7 / 7.6	<1.7 / <2.5	<1.7 / <2.5	<1.7 / <2.5	<1.7 / <2.5	<1.7 / <2.5	<1.7 / <2.5	<1.7 / <2.5	<1.7 / <2.5	<6.7 / <10	<1.7 / <2.5	<3.3 / <5.0	0.066	0.049	3.2	<0.50 / <0.50
	7/23/2012	<2.0 / <2.5	260 / 310	5.0 / 6.6	<2.0 / <2.5	<2.0 / <2.5	<2.0 / <2.5	<2.0 / <2.5	<2.0 / <2.5	<2.0 / <2.5	<2.0 / <2.5	<2.0 / <2.5	<8.0 / <10	<2.0 / <2.5	<4.0 / <5.0	0.052	0.010 J	0.24	<0.50 / <0.50
	10/10/2012	<2.5 / <2.0	280 / 240	4.6 / 4.3	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<10 / <8.0	<2.5 / <2.0	<5.0 / <4.0	0.18	<0.025	0.44	<0.50 / <5.0
	3/12/2013	<2.5 / <0.5	280 / 260	6.5 / 7.2	<2.5 / 0.8	<2.5 / 0.9	<2.5 / <0.5	<2.5 / 0.6	<2.5 / <0.5	<2.5 / <0.5	<2.5 / <0.5	<2.5 / <0.5	<5.0 / 4.7	<2.5 / <0.5	<5.0 / <1.0	0.042	0.0092 J	0.20	0.85 / 0.70
	6/4/2013	<1.7 / <1.7	260 / 270	4.6 / 4.6	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 /<1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<6.7 / <6.7	<1.7 / <1.7	<3.3 / <3.3	0.056	0.0088 J	0.68	0.61 / 0.73
	8/29/2013	<1.7 / <1.7	280 / 270	5.4 / 5.5	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 /<1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<6.7 / <6.7	<1.7 / <1.7	<3.3 / <3.3	0.090	0.0078 J	0.25	0.70 / 0.66
	10/17/2013	<1.7 / <1.7	280 / 280	6.6 / 6.3	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<6.7 / <6.7	<1.7 / <1.7	<3.3 / <3.3	0.22	0.017 J	0.58	0.64 / 0.72
	3/4/2014	<1.7 / <1.7	250 / 250	4.9 / 5.5	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7/ <1.7	<1.7 / <1.7	<1.7 / <1.7	<6.7 / <6.7	<1.7 / <1.7	<3.3 / <3.3	0.077	0.012 J	0.32	<0.50 / <0.50
	5/27/2014	<1.7 / <1.7	280 / 280	5.3 / 5.4	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<6.7 / <6.7	<1.7 / <1.7	<3.3 / <3.3	0.076	0.039	0.40	<0.50 / <0.50
	8/18/2014	<1.7 / <2.0	250 / 260	6.0 / 6.1	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<6.7 / <8.0	<1.7 / <2.0	<3.3 / <4.0	0.14	0.011 J	0.26	0.70 / <0.50
	10/14/2014	<1.7 / <0.5	260 / 280	4.7 / 4.6	<1.7 / <0.5	<1.7 / 0.9	<1.7 / <0.5	<1.7 / 0.5	<1.7 / <0.5	<1.7 / <0.5	<1.7 / <0.5	<1.7 / <0.5	<6.7 / 6.3	<1.7 / <0.5	<3.3 / <1.0	0.11	0.0096 J	0.23	0.89 / 0.80

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
23-D (cont'd)	2/5/2015	<1.7 / <1.7	280 / 270	5.5 / 5.8	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<6.7 / <6.7	<1.7 / <1.7	<3.3 / <3.3	0.068	0.0054 J	0.12	<0.50 / 2.8
	5/11/2015	<1.7 / <2.0	260 / 250	5.7 / 5.8	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<6.7 / <8.0	<1.7 / <2.0	<3.3 / <4.0	0.15	0.080 J	2.0	0.71 / 0.86
P2A [7]	12/6/2005	3.3	340	200	8.7	2.3	12	<2.0	<2.0	34	<2.0	<2.0	<2.0	<2	<4	0.320	0.37	12.000	1.5
	2/14/2006	<2.5	<2.5	250	3.7	<1.0	<2.5	<2.5	<2.5	41	<2.5	<2.5	<2.5	<2.5	<5.0	0.500	0.220	84.000	190
	5/2/2006	<0.5	2.5	12	2.5	<0.5	14	<0.5	59	14	<0.5	2.2	<0.5	<0.5	<1	6.300	<0.025	16000.000	1800
	8/2/2006	<0.5	1.4	10	2.4	<0.5	7.3	<0.5	72	14	0.6	3.9	<0.5	<0.5	<1	2.700 J	0.150 J	30000.000 J	2500
	11/13/2006	<0.5	0.5	6.7	3.8	<0.5	5.4	<0.5	59	3.4	<0.5	2.0	<0.5	<0.5	<1	11.000	0.330	17000.000	76
	2/12/2007	<0.5	<0.5	2.7	4.6	<0.5	1.8	<0.5	51	1.8	<0.5	1.4	<0.5	<0.5	<1	11.000	1.500	17000.000	78
	5/31/2007	<0.5 / <0.5	<0.5 / <0.5	0.9 / 0.9	4.1 / 4.0	<0.5 / <0.5	0.9 / 0.8	<0.5 / <0.5	53 / 52	1.2 / 1.5	<0.5 / <0.5	1.5 / 1.4	<0.5 / <0.5	<0.5 / <0.5	<1 / <1	4.100	1.700	16000.000	82
DW-1 [8]	12/6/2005	<17	440	3700	110	<17	32	<17	<17	<17	<17	<17	<17	<17	<33	--	--	--	--
	2/14/2006	<31	540	5900	39	<31	<31	<31	<31	<31	<31	<31	<31	<31	<63	0.180	0.850	7.70	1.8
	5/3/2006	<36	<36	28000	110	73	4100	<36	<36	<36	<36	<36	<36	<36	<71	14.000	2.100	3600.000	140
	2/12/2007	<0.5	1.2	6.1	<0.5	<0.5	8.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<1	82.000	0.740	22000.000	32
	4/11-13/2007	<5.0	310	3200	17	8.8	290	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<10	190.000	0.650	6700.000	14
	4/30/2007	<17	<17	2800	<17	<17	300	<17	<17	<17	<17	<17	<17	<17	<33	400.000	0.830	8900.000	35
	5/31/2007	<10 / <20	<10 / <20	2200 / 2500	12 / <20	<10 / <20	370 / 320	<10 / <20	<10 / <20	<10 / <20	<10 / <20	<10 / <20	<10 / <20	<10 / <20	<20 / <40	270 / 340	0.82 / 0.91	9100/10000	18/39
	6/27/2007	<20	<20	2400	21.0	<20	580	<20	<20	<20	<20	<20	<20	<20	<40	250.000	0.310	12000.000	750
	9/14/2007	<20	<20	2700	22	<20	930	<20	<20	<20	<20	<20	<20	<20	<40	310.000	2.400	15000.000	21.000
	10/15/2007	<13	<13	1200	<13	<13	820	<13	<13	<13	<13	<13	<13	<13	<25	260.000	1.500	13000.000	320
	11/1/2007	<6.3	<6.3	900	20	<6.3	760	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	320.000	2.700	12000.000	100
	11/20/2007	<3.1	<3.1	520	7.0	<3.1	340	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<6.3	340 B	5.4	14000	46
	12/18/2007	4.5	2.1	230	3.8	<2.0	160	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	270.000	3.700	13000.000	120
	1/23/2008	<0.5	3.3	290	5.7	0.8	180	1.2	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<1.0	220.000	6.300	7700.000	14
	7/21/2008	<6.3	<6.3	<6.3	<6.3	<6.3	51	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	62.000	3.300	14000.000	33
	10/7/2008	<1.3	2.5	1.6	2.1	<1.3	40	<1.3	<1.3	2.7	<1.3	<1.3	<5.0	<1.3	<2.5	74.000	12.000	18000.000	36
	2/11/2009	<0.5	<0.5	1.1	0.9	<0.5	1.7	<0.5	2.3	1.5	<0.5	<0.5	<2.0	<0.5	<1.0	1.100	140.000	17000.000	35
	6/1/2009	<0.5	0.6	2.3	0.6	<0.5	3.6	<0.5	4.4	1.2	<0.5	<0.5	<2.0	<0.5	<1.0	11.000	280.000	20000.000	21
	7/13/2009	<0.5	<0.5	1.9	0.5	<0.5	2.8	<0.5	4	1.1	<0.5	<0.5	<2.0	<0.5	<1.0	1.600	240.000	19000.000	24
	10/16/2009	<0.5	<0.5	0.8	0.8	<0.5	1.5	<0.5	4.2	1.4	<0.5	<0.5	<2.0	<0.5	<1.0	3.600	390.000	24000.000	28
	2/18/2010	<0.5	1.5	1.3	<0.5	<0.5	1.8	<0.5	3.3	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	0.690	81.000	14000.000	14
	4/23/2010	<0.5	2.4	2.0	0.8	<0.5	2.7	<0.5	2.6	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	1.300	82.000	12000.000	17
	7/72010	<0.5	1.7	1.8	3.6	<0.5	5.4	<0.5	1.6	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	1.300	81.000	11000.000	21
	10/21/2010	<0.5	0.6	1.2	10	<0.5	3.1	<0.5	2.6	0.7	<0.5	<0.5	<2.0	<0.5	<1.0	0.520	170.000	19000.000	23
	2/2/2011	<0.5	<0.5	1.2	23	<0.5	2.7	<0.5	2.3	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	0.480	120.000	11000.000	16
	4/15/2011	<0.5	<0.5	1.3	38	<0.5	2.5	<0.5	2.3	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	0.30	310.000	13000.000	17
	7/22/2011	<0.5	0.7	98	41	<0.5	140	<0.5	3.1	0.7	<0.5	<0.5	<2.0	<0.5	<1.0	58	570	17000	15
	10/26/2011	<1.3	18	7.4	<1.3	<1.3	4.0	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	1.7	9.0	7600	1,200

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
DW-1 (cont'd)	2/9/2012	<0.50	<0.50	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	1.7	0.25	1300	5.1
	4/19/2012	<0.50	0.50	51	1.1	<0.50	33	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	17	24	12000	6.6
	7/24/2012	<0.50	<0.50	1.1	1.0	<0.50	20	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	8.6	130	18000	8.3
	10/11/2012	<0.50	0.90	1.8	<0.50	<0.50	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	1.4	29	3700	9.6
	3/12/2013	<50	64	<50	<50	<50	<50	<50	<50	<50	<50	<50	<200	<50	<100	1.6	2.2	11000	1100
	6/4/2013	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<25	<50	4.2	6.3	13000	400
	8/29/2013	<0.5	<0.5	<0.5	0.7	<0.5	0.9	<0.5	0.6	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	2.4	33	16000	70
	10/17/2013	<0.5	0.7	0.6	0.9	<0.5	7.4	<0.5	0.8	1.3	<0.5	<0.5	<2.0	<0.5	<1.0	2.9	68	14000	39
	3/4/2014	<0.5	<0.5	0.6	0.7	<0.5	5.2	<0.5	1.4	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	12	130	17000	21
	5/28/2014	<0.5	1.7	6.0	1.1	<0.5	69	<0.5	2.8	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	57	56	20000	14
	8/18/2014	<0.5	<0.5	<0.5	1.0	<0.5	7.0	<0.5	1.4	0.9	<0.5	<0.5	<2.0	<0.5	<1.0	1.6	100	15000	18
	10/14/2014	<0.5	<0.5	<0.5	0.9	<0.5	2.1	<0.5	1.2	0.7	<0.5	<0.5	<2.0	<0.5	<1.0	0.89	200	16000	18
	2/5/2015	<0.5	1.1	1.2	0.8	<0.5	2.9	<0.5	0.8	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	4.2	240	15000	9.4
	5/11/2015	<0.5	1.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	0.042 J	2.4	7600	12
28-MW	12/6/2005	<0.5	10	26	20	<0.5	28	1.5	7.2	13	<0.5	1.7	<0.5	<0.5	<1	33.000	0.063	1400.000	4.3
	2/14/2006	<0.5	<0.5	4.8	11	<0.5	4.3	<0.5	8.8	16	<0.5	1.0	<0.5	<0.5	<1.0	52.000	0.160	7700.000	74
	5/3/2006	<0.5	<0.5	0.8	5.0	<0.5	0.7	<0.5	28	3.2	<0.5	1.5	<0.5	<0.5	<1	2.000	0.300	15000.000	200
	8/2/2006	<0.5	1.3	1.7	5.3	<0.5	1.2	<0.5	41	5.8	<0.5	2.4	<0.5	<0.5	<1	1.500 J	0.048 J	26000.000 J	1000
	11/13/2006	<0.5	1.5	28	18	<0.5	38	0.5	34	7.0	<0.5	1.3	<0.5	<0.5	<1	31.000	0.330	14000.000	49
	2/12/2007	<0.5	<0.5	0.7	4	<0.5	1.2	<0.5	32	6.5	<0.5	1.4	<0.5	<0.5	<1	22.000	0.440	16000.000	45
	5/31/2007	<0.5	0.6	<0.5	1.7	<0.5	0.6	<0.5	29	5.3	<0.5	1.1	<0.5	<0.5	<1	16.000	0.520	15000.000	41
	8/21/2007	<0.5	<0.5	1.1	2.6	<0.5	2.7	<0.5	31	4.7	<0.5	1.2	<0.5	<0.5	1.2 J	29.000	0.890	14000.000	57
	11/1/2007	<0.5	<0.5	0.7	1.4	<0.5	1.0	<0.5	32	4.8	<0.5	1.3	<0.5	<0.5	<1.0	9.400	1.000	14000.000	88
	2/5/2008	<0.5	<0.5	16	5.2	<0.5	23	<0.5	25	5.3	<0.5	1.1	<0.5	<0.5	<1.0	19	1.4	8800	77
	5/2/2008	<0.5	<0.5	59	6.7	0.6	47	<0.5	24	4.5	<0.5	1.1	<0.5	<0.5	<1.0	38.000	7.100	15000.000	50
	7/18/2008	<0.5	<0.5	0.6	2.3	<0.5	1.2	<0.5	17	4.2	<0.5	1	<0.5	<0.5	2.1	25.000	9.700	18000.000	32
	10/7/2008	<0.5	0.7	1.9	2.7	<0.5	4.3	<0.5	17	5.4	<0.5	0.9	<2.0	<0.5	2.7	16.000	13.000	14000.000	21
	2/10/2009	<0.5	1.1	28	5.9	<0.5	44	<0.5	16	7.1	<0.5	0.9	<2.0	<0.5	3.3	11.000	12.000	7900.000	11
	5/27/2009	<0.5	0.8	45	9.1	<0.5	110	<0.5	15	6.6	<0.5	0.9	<2.0	<0.5	4.9	21.000	11.000	5900.000	10
	7/13/2009	<0.5	0.6	30	8.4	<0.5	95	<0.5	14	8.0	<0.5	1.0	<2.0	<0.5	4.4	12.000	7.800	5100.000	12
	10/16/2009	<0.5	0.6	12	4.7	<0.5	43	<0.5	16	8.1	<0.5	1.0	<2.0	<0.5	8.8	11.000	13.000	11000.000	12
	2/18/2010	<0.5	0.6	22	6.7	<0.5	48	<0.5	12	7.3	<0.5	1.0	<2.0	<0.5	4.5	7.000	4.200	4700.000	9.8
	4/22/2010	<0.5	0.6	22	5.1	<0.5	50	<0.5	11	7.0	<0.5	0.7	<2.0	<0.5	4.4	6.900	3.100	3200.000	7.8
	7/6/2010	<0.5	<0.5	18	2.4	<0.5	92	<0.5	10	7.0	<0.5	0.8	<2.0	<0.5	3.9	8.400	1.800	2000.000	5.8
	10/21/2010	<0.5	<0.5	10	1.0	<0.5	73	<0.5	8.1	6.2	<0.5	0.6	<2.0	<0.5	2.2	7.700	1.000	1300.000	5.1
	2/1/2011	<0.5	<0.5	6.0	1.2	<0.5	47	<0.5	7.2	7.1	<0.5	0.8	<2.0	<0.5	2.4	3.900	1.200	1100.000	5.5
	4/14/2011	<0.5	<0.5	5.2	0.7	<0.5	39	<0.5	6.1	5.7	<0.5	0.6	<2.0	<0.5	2.2	2.200	1.100	900.000	6.2

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
28-MW (cont'd)	7/22/2011	<0.5	<0.5	3.3	<0.5	<0.5	40	<0.5	5.8	6.1	<0.5	0.6	<2.0	<0.5	<1.0	3.2	0.55	470	3.9
	10/26/2011	<0.5	<0.5	<0.5	<0.5	<0.5	1.8	<0.5	6.8	6.1	<0.5	0.6	<2.0	<0.5	1.9	0.61	4.0	12000	55
	2/8/2012	<0.50	<0.50	0.7	<0.50	<0.50	4.8	<0.50	9.4	8.3	<0.50	0.70	<2.0	<0.50	<1.0	0.69	11	13000	12
	4/20/2012	<0.50	<0.50	1.0	0.70	<0.50	6.6	<0.50	7.8	7.5	<0.50	0.70	<2.0	<0.50	<1.0	0.42	3.5	7200	7.0
	7/24/2012	<0.50	<0.50	0.9	<0.50	<0.50	8.2	<0.50	8.1	7.0	<0.50	0.70	<2.0	<0.50	<1.0	0.64	3.1	7200	6.7
	10/10/2012	<0.50	<0.50	<0.50	<0.50	<0.50	2.8 J	<0.50	8.5 J	7.5 J	<0.50	0.70 J	<2.0	<0.50	1.2 J	0.16	2.3	4600	6.0
	3/12/2013	<0.5	<0.5	0.5	<0.5	<0.5	0.7	<0.5	9.8	7.5	<0.5	0.7	<1.0	<0.5	<1.0	0.30	9.2	14000	18
	6/5/2013	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	9.8	7.0	<0.5	0.8	<2.0	<0.5	<1.0	0.049	2.4	9800	9.0
	8/30/2013	<0.5	<0.5	1.2	<0.5	<0.5	4.5	<0.5	6.8	4.8	<0.5	0.6	<2.0	<0.5	<1.0	0.57	2.0	4500	7.4
	10/17/2013	<0.5	<0.5	1.7	<0.5	<0.5	8.6	<0.5	7.2	5.2	<0.5	0.6	<2.0	<0.5	<1.0	0.66	1.4	2300	5.8
	3/4/2014	<0.5	<0.5	0.7	<0.5	<0.5	3.7	<0.5	6.6	5.2	<0.5	0.5	<2.0	<0.5	<1.0	0.46	4.7	12000	7.9
	5/28/2014	<0.5	<0.5	0.6	<0.5	<0.5	1.5	<0.5	6.3	4.9	<0.5	0.5	<2.0	<0.5	<1.0	0.070	3.3	11000	8.3
	8/18/2014	<0.5	<0.5	<0.5	<0.5	<0.5	1.5	<0.5	5.9	4.3	<0.5	0.5	<2.0	<0.5	<1.0	0.065	4.0	9100	8.0
	10/14/2014	<0.5	<0.5	1.0	<0.5	<0.5	4.4	<0.5	7.3	5.9	<0.5	0.6	<2.0	<0.5	<1.0	0.45	5.8	8500	6.5
	2/5/2015	<0.5	<0.5	2.7	<0.5	<0.5	3.7	<0.5	6.5	5.0	<0.5	<0.5	<2.0	<0.5	<1.0	0.28	3.5	7600	7.0
	5/11/2015	<0.5 UJ	0.5	3.6	<0.5 UJ	<0.5 UJ	8.0	<0.5 UJ	5.1	4.2	<0.5 UJ	<0.5 UJ	<2.0 UJ	<0.5 UJ	<1.0 UJ	0.60	1.6	3500	8.9
PMW-1-1 [9]	12/7/2005	<50	3500	8400	61	<50	410	<50	<50	<50	<50	<50	<50	<50	<100	5.400	3.900	11.0	0.89
	2/14/2006	<50	3200	11000	64	<50	410	<50	<50	<50	<50	<50	<50	<50	<100	4.100	2.800	29.0	1.9
	5/3/2006	<50	140	8700	56	<50	330	<50	<50	<50	<50	<50	<50	<50	<100	4.300	2.600	680.000	13
	11/14/2006	<2.0	3.6	540	74	2.2	580	2.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<4	69.000	1.100	3100.000	7.2
	2/16/2007	<2.5	<2.5	560	88	<2.5	850	5.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	29.000	0.400	580.000	5.3
PMW-1-2 [10]	12/7/2005	<2.5	2.8	930	53	<2.5	730	4.7	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	--	--	--	--
	11/14/2006	<1.7	7.7	330	27	<1.7	280	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<3.3	580.000	1.400	13000.000	120
	2/16/2007	<1.7	1.9	240	34	<1.7	360	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<3.3	410.000	1.800	13000.000	38
PMW-1-3[10]	12/7/2005	<8.3	<8.3	1200	9.9	<8.3	90	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<17	--	--	--	--
	11/13/2006	<13	16	2000	20	<13	560	<13	<13	<13	<13	<13	<13	<13	<25	270.000	0.650	14000.000	52
	2/15/2007	<20	61	7800	33	20	900	<20	<20	<20	<20	<20	<20	<20	<40	290.000	1.400	12000.000	12
PMW-2-1	12/7/2005	<31	82	6700	72	<31	2300	<31	<31	<31	<31	<31	<31	<31	<63	0.810	0.240	2.400	2.0
	2/14/2006	<71	140	7500	<71	<71	1600	<71	<71	<71	<71	<71	<71	<71	<140	16.000	0.490	3.800	2.4
	5/2/2006	<63	140	6400	<63	<63	1500	<63	<63	<63	<63	<63	<63	<63	<130	29.000	1.900	11.000	3.3
	8/2/2006	<25	130	6700	42	<25	2200	<25	<25	<25	<25	<25	<25	<25	<50	48.000 J	2.100 J	1400.000 J	1.9
	11/13/2006	<63	<63	5700	<63	<63	2800	<63	<63	<63	<63	<63	<63	<63	<130	130.000	2.100	6800.000	3.2
	2/12/2007	<50	<50	6300	74	<50	2600	<50	<50	<50	<50	<50	<50	<50	<100	160.000	1.700	8900.000	2.6
	5/31/2007	<42	48	5100	46	<42	2400	<42	<42	<42	<42	<42	<42	<42	<83	170.000	1.800	11000.000	2.3
	8/21/2007	<42	64	6500	54	<42	2600	<42	<42	<42	<42	<42	<42	<42	<83	140.000	1.600	9400.000	2.1
	11/1/2007	<31	57	5700	62	<31	2500	<31	<31	<31	<31	<31	<31	<31	<63	110.000	1.500	8000.000	1.6
	2/5/2008	<42	<42	4600	55	<42	1200	<42	<42	<42	<42	<42	<42	<42	<83	71.000	0.850	4500.000	1.4

TABLE 4
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FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
PMW-2-1 (cont'd)	5/2/2008	<42	66	5500	51	<42	2400	<42	<42	<42	<42	<42	<42	<42	<83	320.000	1.800	8200.000	2.5
	7/18/2008	<42	72	6300	55	<42	2300	<42	<42	<42	<42	<42	<42	<42	<83	360.000	2.500	12000.000	2
	10/7/2008	<42	58	4900	<42	<42	1700	<42	<42	<42	<42	<42	<170	<42	<83	340.000	2.7	14000	2.3
	2/10/2009	<42	68	4800	46	<42	1500	<42	<42	<42	<42	<42	<170	<42	<83	280.000	2.700	13000.000	1.3
	6/1/2009	<42	58	4500	<42	<42	1500	<42	<42	<42	<42	<42	<170	<42	<83	260.000	2.600	12000.000	1.8
	7/13/2009	<42	71	5500	74	<42	1700	<42	<42	<42	<42	<42	<170	<42	<83	190.000	1.600	11000.000	1.8
	10/16/2009	<42	75	5600	49	<42	1500	<42	<42	<42	<42	<42	<170	<42	<83	270.000	2.700	14000.000	1.9
	2/18/2010	<42	61	5600	76	<42	1800	<42	<42	<42	<42	<42	<170	<42	<83	270.000	2.900	16000.000	2
	4/23/2010	<42	75	6500	47	<42	1600	<42	<42	<42	<42	<42	<170	<42	<83	260.000	2.500	14000.000	1.6
	7/6/2010	<42	69	6100	54	<42	2000	<42	<42	<42	<42	<42	<170	<42	<83	260.000	2.700	14000.000	1.4
	10/21/2010	<42	79	6800	54	<42	1800	<42	<42	<42	<42	<42	<170	<42	<83	240.000	2.500	14000.000	1.6
	2/1/2011	<42	70	6800	47	<42	1700	<42	<42	<42	<42	<42	<170	<42	<83	220.000	2.200	12000.000	1.9
	4/14/2011	<42	83	7300	62	<42	1800	<42	<42	<42	<42	<42	<170	<42	<83	200.000	1.900	11000.000	1.6
	7/22/2011	<42	66	5600	43	<42	1500	<42	<42	<42	<42	<42	<170	<42	<83	230	2.1	11000	1.7
	10/26/2011	<36	67	5600	85	<36	1500	<36	<36	<36	<36	<36	<140	<36	<71	220	2.4	11000	1.6
	2/9/2012	<36	61	6500	<36	<36	1400	<36	<36	<36	<36	<36	<140	<36	<71	320	24	12000	1.5
	4/19/2012	<36	51	5700	63	<36	1600	<36	<36	<36	<36	<36	<140	<36	<71	360	17	12000	2.2
	7/23/2012	<36	60	5500	140	<36	1600	<36	<36	<36	<36	<36	<140	<36	<71	360	21	10000	1.5
	10/11/2012	<50	72	7100	55	<50	1900	<50	<50	<50	<50	<50	<200	<50	<100	310	16	9400	1.6
	3/12/2013	<42	51	4400	<42	<42	1600	<42	<42	<42	<42	<42	<83	<42	<83	380	21	12000	2.4
	6/4/2013	<36	57	5600	46	<36	1600	<36	<36	<36	<36	<36	<140	<36	<71	380	23	14000	2.3
	8/29/2013	<36	60	5000	<36	<36	1400	<36	<36	<36	<36	<36	<140	<36	<71	360	24	13000	2.1
	10/17/2013	<36	57	6500	51	<36	2100	<36	<36	<36	<36	<36	<140	<36	<71	370	24	13000	2.3
	3/5/2014	<36	60	5000	37	<36	1500	<36	<36	<36	<36	<36	<140	<36	<71	320	24	14000	1.4
	5/27/2014	<36	50	4200	55	<36	1000	<36	<36	<36	<36	<36	<140	<36	<71	150	19	12000	1.4
	8/18/2014	<36	48	4800	36	<36	790	<36	<36	<36	<36	<36	<140	<36	<71	86	15	10000	2.0
	10/14/2014	<42	48	5100	<42	<42	760	<42	<42	<42	<42	<42	<170	<42	<83	100	18	11000	2.1
	2/5/2015	<42	52	5400	<42	<42	640	<42	<42	<42	<42	<42	<170	<42	<83	75	16	11000	0.73
	5/11/2015	<42	48	5200	<42	<42	470	<42	<42	<42	<42	<42	<170	<42	<83	58	17	11000	2.3
PMW-2-2 [10]	12/7/2005	<20	<20	2100	<20	<20	310	<20	<20	<20	<20	<20	<20	<20	<40	--	--	--	39
	11/14/2006	<2.0	<2.0	160	<2.0	<2.0	730	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<4	100.000	0.410	95.000	29
	2/16/2007	<5.0	<5.0	830	8.3	<5.0	2300	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	180.000	0.850	530.000	29
PMW-2-3	12/7/2005	<3.1	290	440	7.4	<3.1	24	<3.1	<3.1	<3.1	<3.1	<3.1	4.8	<3.1	<6.3	22.000	1.300	6.000	0.66
	2/14/2006	<3.1	320	480	3.5	<3.1	16	<3.1	<3.1	<3.1	<3.1	<3.1	11	<3.1	<6.3	0.065	0.190	3.000	0.78
	5/3/2006	<2.5	300	420	8.4	<2.5	16	<2.5	<2.5	<2.5	<2.5	<2.5	5.3	<2.5	<5	0.300	0.086	16.000	0.57
	8/2/2006	<1.3	260	330	1.4	<1.3	15	<1.3	<1.3	<1.3	<1.3	<1.3	5.0	<1.3	<2.5	0.520 J	0.096 J	46.000 J	<0.50
	11/13/2006	<2.5	280	360	3.6	<2.5	32	<2.5	<2.5	<2.5	<2.5	<2.5	6.0	<2.5	<5	1.500	0.091	44.000	0.60

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
PMW-2-3 (cont'd)	2/12/2007	<2.5	270	400	5.8	<2.5	32	<2.5	<2.5	<2.5	<2.5	<2.5	4.7	<2.5	<5	1.900	0.120	49.000	0.66
	5/31/2007	<2.5 / <2.5	270 / 270	380 / 370	3.9 / 3.6	<2.5 / <2.5	40 / 30	<2.5 / <2.5	<2.5 / <2.5	<2.5 / <2.5	<2.5 / <2.5	<2.5 / <2.5	5.6 / 6.4	<2.5 / <2.5	<5 / <5	3.100	0.066	63.000	0.53
	8/21/2007	<2.5 / <2.5	270 / 270	360 / 340	6.4 / 3.9	<2.5 / <2.5	20 / 22	<2.5 / <2.5	<2.5 / <2.5	<2.5 / <2.5	<2.5 / <2.5	<2.5 / <2.5	5.2 / 4.8	<2.5 / <2.5	<5.0 / <5.0	1.600	0.110	52.000	0.67
	11/1/2007	<2.0	230	280	11	<2.0	16	<2.0	<2.0	<2.0	<2.0	<2.0	8.3	<2.0	<4.0	1.500	0.048	31.000	<0.50
	2/5/2008	<2.0	240	230	7.0	<2.0	11	<2.0	<2.0	<2.0	<2.0	<2.0	3.0	<2.0	<4.0	0.850	0.033	14.000	<0.50
	5/2/2008	<2.0	250	230	2.1	<2.0	21	<2.0	<2.0	<2.0	<2.0	<2.0	3.9	<2.0	<4.0	2.300	0.041	19.000	0.67
	7/18/2008	<1.3	250	230	1.8	<1.3	17	<1.3	<1.3	<1.3	<1.3	<1.3	4.9	<1.3	<2.5	3.100	0.034	22.000	<0.50
	10/7/2008	<2.5	250	220	3.0	<2.5	20	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<5.0	3.300	0.049	26.000	0.64
	2/12/2009	<1.7	220	160	<1.7	<1.7	13	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	2.100	0.042	20.000	<0.50
	6/1/2009	<1.7	240	170	3.8	<1.7	22	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	2.600	0.048	22.000	0.59
	7/13/2009	<1.7	240	170	3.1	<1.7	17	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	2.100	0.034	19.000	0.69
	10/16/2009	<1.7	260	160	4.8	<1.7	13	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	2.500	0.052	28.000	0.70
	2/18/2010	<1.7	250	170	3.4	<1.7	14	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	1.800	0.030	15.000	0.74
	4/23/2010	<1.7	290	210	3.5	<1.7	12	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	6.700	0.044	25.000	0.68
	7/6/2010	<1.7	270	200	2.0	<1.7	22	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	3.200	0.036	24.000	0.85
	10/21/2010	<1.7	260	220	5.8	<1.7	21	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	3.100	0.031	17.000	0.51
	2/2/2011	<1.7	250	180	4.3	<1.7	14	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	2.100	<0.025	13.000	0.58
	4/14/2011	<1.7	250	240	6.6	<1.7	33	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	5.500	<0.025	28.000	0.65
	7/22/2011	<1.7	210	170	4.5	<1.7	19	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	3.7	0.044	19	0.77
	10/26/2011	<1.7	200	180	2.8	<1.7	40	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	2.5	0.070	22	0.53
	2/9/2012	<1.7	260	180	3.7	<1.7	15	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	2.7	0.033	15	<0.50
	4/19/2012	<1.7	210	170	6.4	1.7	38	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	7.0	0.055	44	<0.50
	7/23/2012	<1.3	220	160	3.9	<1.3	43	<1.3	<1.3	<1.3	<1.3	<1.3	7.3	<1.3	<2.5	9.3	0.083	81	0.52
	10/11/2012	<1.7	220	150	4.3	<1.7	28	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	6.0	0.082	56	0.59
	3/12/2013	<0.7	240	110	2.7	1.5	17	<0.7	<0.7	<0.7	<0.7	<0.7	4.3	<0.7	<1.4	2	0.044	16	0.84
	6/4/2013	<1.3	240	120	1.8	<1.3	14	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	6.4	0.060	29	0.62
	8/29/2013	<1.3	210	110	2.0	<1.3	9.6	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	1.8	0.042	13	0.69
	10/17/2013	1.3	230	120	2.4	<1.3	18	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	2.5	0.059	21	0.78
	3/5/2014	<1.3	250	120	3.0	<1.3	34	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	7.1	0.079	51	<0.50
	5/27/2014	<1.3	230	97	2.2	<1.3	15	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	1.4	0.037	11	<0.50
	8/18/2014	<1.3	210	130	3.0	<1.3	21	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	3.0	0.054	18	0.67
	10/14/2014	<1.7	210	92	<1.7	<1.7	9.7	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	1.2	0.047	12	0.73
	2/5/2015	<1.7	240	96	1.8	<1.7	12	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	0.93	0.030	7.7	<0.50
	5/11/2015	<1.7	240	130	3.0	<1.7	41	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	2.4	0.15	35	0.89
DW-2 [11]	2/14/2006	<0.7	3.0	110	0.8	<0.7	<0.7	<0.7	<0.7	2.5	<0.7	<0.7	<0.7	<0.7	<1.4	0.560	0.260	1300.000	160
	5/3/2006	<0.7	5.9	2.8	<0.7	<0.7	<0.7	<0.7	<0.7	1.0	<0.7	<0.7	<0.7	<0.7	<1.4	0.460	0.130	1200.000	1700
	2/21/2007	<0.5	1.4	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<1	0.510	0.066	20000.000	72

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
DW-2 (cont'd)	5/31/2007	<0.5	2.3	5.5	<0.5	<0.5	0.7	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<1	0.210	0.450	19000.000	350
	7/21/2008	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	2.000	0.028	6300.000	35
	10/7/2008	<0.5	0.6	<0.5	<0.5	<0.5	1	<0.5	<0.5	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	0.240	<0.025	5800.000	48
	2/11/2009	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	0.7	<0.5	<0.5	<2.0	<0.5	<1.0	0.200	0.120	5900.000	30
	5/27/2009	<0.5	0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	0.240	0.810	13000.000	27
	7/13/2009	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	0.052	0.560	11000.000	22
	10/16/2009	<0.5	<0.5	1.1	<0.5	<0.5	1.1	<0.5	<0.5	1.0	<0.5	<0.5	<2.0	<0.5	<1.0	0.220	2.300	14000.000	24
	2/19/2010	<0.5	<0.5	0.6	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.054	1.500	7400.000	17
	4/23/2010 [12]	<0.5	0.6	0.8	<0.5	<0.5	0.9	<0.5	<0.5	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	0.120	1.900	7100.000	21
	7/7/2010	<0.5	0.6	0.9	0.7	<0.5	0.5	<0.5	<0.5	1.0	<0.5	<0.5	<2.0	<0.5	<1.0	0.065	4.700	8700.000	25
	10/21/2010	<0..5	0.5	1.1	0.9	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<2.0	<0.5	<1.0	0.098	0.490	860.000	23
	2/2/2011	<0..5	<0.5	0.6	0.9	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	0.042	0.620	1000.000	15
	4/15/2011	<0.5	<0.5	0.7	2.1	<0.5	<0.5	<0.5	0.7	1.1	<0.5	<0.5	<2.0	<0.5	<1.0	<0.025	0.860	610.000	11
	7/22/2011	<0.5	0.5	0.9	5.9	<0.5	0.9	<0.5	2.0	3.2	<0.5	<0.5	<2.0	<0.5	<1.0	0.13	8.4	2500	9.4
	10/26/2011	<0.5	1.3	0.7	1.9	<0.5	<0.5	<0.5	0.9	1.8	<0.5	<0.5	<2.0	<0.5	<1.0	0.22	0.64	3500	630
	2/9/2012	<0.50	<0.50	0.90	<0.50	<0.50	<0.50	<0.50	0.5	1.4	<0.50	<0.50	<2.0	<0.50	<1.0	0.21	0.078	5300	540
	4/19/2012	<0.50	0.80	0.80	0.70	<0.50	<0.50	<0.50	<0.50	1.3	<0.50	<0.50	<2.0	<0.50	<1.0	0.21	0.80	10000	32
	7/24/2012	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	0.097	0.58	2900	23
	10/10/2012	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	0.029	0.028	1.2	20
	3/12/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.14	3.7	8500	65
	6/4/2013	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<14	<3.6	<7.1	0.061	0.066	19000	59
	8/29/2013	<0.5	<0.5	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	0.16	0.35	11000	33
	10/17/2013	<0.5	<0.5	2.0	<0.5	<0.5	1.3	<0.5	<0.5	0.7	<0.5	<0.5	<2.0	<0.5	<1.0	0.17	0.43	16000	32
	3/4/2014	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	1.1	0.9	<0.5	<0.5	<2.0	<0.5	<1.0	0.40	0.093	16000	64
	5/28/2014	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	0.11	0.40	14000	15
	8/18/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.11	0.54	6800	8.2
	10/14/2014	<0.5	<0.5	0.5	<0.5	<0.5	0.7	<0.5	0.9	0.7	<0.5	<0.5	<2.0	<0.5	<1.0	0.21	1.1	16000	14
	2/5/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.028	1.7	9400	8.6
	5/11/2015	<0.5	1.2	1.4	0.9	<0.5	3.1	<0.5	2.4	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	1.7	250	18000	16
X2B1 [13]	12/12/2005	<2.5	420	420	8.3	2.8	41	<2.5	<2.5	<2.5	<2.5	<2.5	15	<2.5	<5	--	--	--	0.78
	1/13/2006	<2.5	84	500	45	3.7	240	<2.5	<2.5	26	<2.5	<2.5	<2.5	<2.5	<5.0	--	--	--	2.7
	2/10/2006	<3.1	450	470	8.4	3.2	35	<3.1	<3.1	<3.1	<3.1	<3.1	15	<3.1	<6.3	--	--	--	1.2
	5/1/2006	<3.1	570	1000	29	4.7	130	<3.1	<3.1	<3.1	<3.1	<3.1	6.9	<3.1	<6.3	--	--	--	0.71
	7/6/2006	<8.3	460	920	19	<8.3	71	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<17	--	--	--	0.70
	8/2/2006	<6.3	350	980	11	<6.3	71	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	--	--	--	1.1
	9/18/2006	<6.3	540	1400	19	<6.3	130	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	3.700	0.310	340.000	0.75
	10/18/2006	<10	480	1600	21	<10	130	<10	<10	<10	<10	<10	<20	<10	<20	--	--	--	1.0

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
X2B1 (cont'd)	11/14/2006	<6.3	510	1300	20	<6.3	140	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	6.400	0.200	490.000	0.89
	12/11/2006	<20	450	1900	21	<20	190	<20	<20	<20	<20	<20	<200	<20	<40	13.000	0.180	1200.000	3.2
	5/31/2007	<2.5	8.5	670	14	<2.5	560	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	230.000	0.410	1500.000	5.4
	8/21/2007	<3.1	3.9	190	5.8	<3.1	250	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<6.3	120.000	0.810	330.000	4.5
	11/1/2007	<0.8	8.2	120	5.2	<0.8	120	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<1.7	130.000	0.540	2400.000	600
	2/7/2008	<3.1	240	420	6.3	<3.1	63	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<6.3	8.8	0.12	310	1.2
	2/28/2008	<2.5	150	360	9.2	<2.5	73	<2.5	5.3	7.2	<2.5	<2.5	<2.5	<2.5	<5.0	36.000	1.400	6000.000	20
	3/27/2008	<2.5	330	980	22	4.4	160	<2.5	<2.5	<2.5	<2.5	<2.5	<7.1	<2.5	<5.0	25.000	0.310	730.000	1.1
	5/2/2008	<6.3	380	1100	18	<6.3	140	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	4.700	0.140	140.000	1.4
	7/18/2008	<1.3	3.8	300	4.7	<1.3	160	<1.3	<1.3	<1.3	<1.3	<1.3	2.4	<1.3	<2.5	51.000	0.870	210.000	0.82
	10/7/2008	<2.5	30	360	5.6	<2.5	200	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<5.0	44.000	0.420	68.000	1.5
	2/11/2009	<2.5	22	660	15	<2.5	580	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<5.0	140.000	0.400	310.000	1.4
	6/1/2009	<8.3	53	990	17	<8.3	570	<8.3	<8.3	<8.3	<8.3	<8.3	<33	<8.3	<17	110.000	0.320	260.000	1.1
	7/13/2009	<8.3	100	1200	23	<8.3	530	<8.3	<8.3	<8.3	<8.3	<8.3	<33	<8.3	<17	73.000	0.260	230.000	1.1
	10/16/2009	<8.3	71	1100	17	<8.3	510	<8.3	<8.3	<8.3	<8.3	<8.3	<33	<8.3	<17	73.000	0.410	280.000	1.2
	2/18/2010	<8.3	57	830	20	<8.3	330	<8.3	<8.3	<8.3	<8.3	<8.3	<33	<8.3	<17	26.000	0.200	150.000	2.2
	4/23/2010	7.7	80	640	9.3	<5.0	220	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<10	25.000	0.170	130.000	1.2
	7/6/2010	<5.0	110	920	14	<5.0	520	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<10	32.000	0.220	200.000	0.87
	10/21/2010	<7.1	59	470	13	<7.1	690	<7.1	<7.1	<7.1	<7.1	<7.1	<29	<7.1	<14	74.000	0.470	260.000	1.1
	2/1/2011	<3.6	50	370	6.7	<3.6	140	<3.6	<3.6	<3.6	<3.6	<3.6	<14	<3.6	<7.1	13.000	0.180	80.000	0.92
	4/14/2011	<1.3	23	180	5.2	<1.3	130	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	12.000	0.270	34.000	0.96
	7/22/2011	<5.0	150	950	14	<5.0	420	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<10	21	0.43	92	0.96
	10/27/2011	<2.5	140	420	6.1	<2.5	130	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<5.0	21	1.1	330	0.65
	11/21/2011	0.87	470	1100	10	4.2	150	0.91	<0.5	0.78	<0.5	<0.5	6.1	1.2	<1.0	13	1.8	540	0.57
	2/9/2012	<2.5	330	1200	16.0	3.8	160	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<5.0	23	3.2	1,000	0.55
	4/19/2012	<5.0	100	670	13	<5.0	110	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<10	15	0.40	140	0.64
	7/23/2012	<5.0	68	860	13	<5.0	210	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<10	18	0.52	150	0.72
	10/11/2012	<1.3	23	360	8.1	<1.3	170	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	13	0.45	57	0.7
	12/12/2012	<6.3	360	890	8.0	<6.3	100	<6.3	<6.3	<6.3	<6.3	<6.3	12	<6.3	<13	19	1.8	600	0.70
	1/28/2013	<5.0	340	890	15	<5.0	95	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	15	1.5	1100	0.81
	2/20/2013	<6.3	320	860	11	<6.3	76	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	7.2	1.5	1100	0.80
	3/12/2013	<8.3	230	860	18	<8.3	100	<8.3	<8.3	<8.3	<8.3	<8.3	<33	<8.3	<17	6.9	4.6	2600	1.4
	6/4/2013	<8.3	110	1200	19	<8.3	82	<8.3	<8.3	<8.3	<8.3	<8.3	<33	<8.3	<17	1.6	1.1	450	1.0
	8/29/2013	<7.1	250	1100	15	<7.1	66	<7.1	<7.1	<7.1	<7.1	<7.1	<29	<7.1	<14	4.1	0.64	280	2.0
	10/17/2013	<7.1	100	1700	52	<7.1	200	<7.1	<7.1	<7.1	<7.1	<7.1	<29	<7.1	<14	7.4	0.87	440	1.5
	5/27/2014	<1.0	<1.0	34	3.3	<1.0	30	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	2.1	470	6.9	7000	270
	8/18/2014	<1.0	2.7	270	11	<1.0	120	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<2.0	150	9.6	9200	4200

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
X2B1 (cont'd)	10/14/2014	<2.5	<2.5	130	5.3	<2.5	34	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<5.0	47	9.9	7200	3700
	2/5/2015	<2.5	<2.5	<2.5	<2.5	<2.5	2.6	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<5.0	4.1	5.6	18000	2300
	5/11/2015	<0.5	<0.5	1.8	0.5	<0.5	2.4	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	1.1	12	17000	37
X2A [14]	12/12/2005	1.6	200	230	13	2	62	1.1	<0.7	46.0	<0.7	2.9	<0.7	<0.7	<1.4	--	--	--	1.6
	1/13/2006	<3.1	150	610	45	<3.1	250	<3.1	<3.1	28	<3.1	<3.1	<3.1	<3.1	<6.3	--	--	--	2.6
	2/10/2006	<6.3	23	740	69	<6.3	340	<6.3	<6.3	32	<6.3	<6.3	<6.3	<6.3	<13	--	--	--	3.9
	4/19/2006	<5.0	110	840	57	<5.0	350	<5.0	<5.0	28	<5.0	<5.0	<5.0	<5.0	<10	--	--	--	16
	5/1/2006	<5.0	190	790	44	<5.0	330	<5.0	<5.0	20	<5.0	<5.0	<5.0	<5.0	<10	--	--	--	8.3
	7/6/2006	<1.7	2.2	320	52	<1.7	240	<1.7	19	26	<1.7	<1.7	<1.7	<1.7	<3.3	--	--	--	49
	8/2/2006	<0.5	1	320	58	1.1	200	1	22	35	<0.5	0.8	<0.5	<0.5	<1.0	150.000 J	0.470 J	3900 J	24
	11/14/2006	<0.5	1.9	6.7	9.1	<0.5	5.8	<0.5	80	17	<0.5	2.8	<0.5	<0.5	3.5	54.000	0.660	13000.000	40
	5/31/2007	<0.5	0.6	1.7	5.7	<0.5	1.7	<0.5	56	30	<0.5	3.3	<0.5	<0.5	4.8	24.000	3.600	15000.000	14
	8/21/2007	<0.5 / <0.5	10 / 10	18 / 18	7.5 / 7.7	<0.5 / <0.5	83 / 74	0.5 / 0.5	35 / 35	19 / 18	<0.5 / <0.5	2.0 / 2.1	<0.5 / <0.5	<0.5 / <0.5	7.0 J / 4.0 J	220.000	3.600	7100.000	8.9
	11/1/2007	<0.5 / <0.5	0.7 / 0.8	40 / 40	15 / 14	<0.5 / <0.5	210 / 170	0.9 / 0.9	35 / 34	18 / 20	<0.5 / <0.5	1.0 / 1.0	<0.5 / <0.5	<0.5 / <0.5	3.6 / 4.8	280 / 280	3.6 / 3.3	9200/8000	8.3/8.2
	2/7/2008	<0.5	2.9	36	17	<0.5	96	<0.5	24	21	<0.5	2.2	<0.5	<0.5	<1.0	51	3.3	9300	23
	2/28/2008	<0.5	1.6	60	14	<0.5	73	<0.5	20	26	<0.5	2.3	<0.5	<0.5	1.3	48.000	2.000	12000.000	110
	3/27/2008	<0.5	0.9	110	24	<0.5	140	<0.5	30	22	<0.5	1.5	<0.5	<0.5	2.0	54.000	1.600	10000.000	30
	5/2/2008	2.9	210	960	27	4.1	150	<2.5	<2.5	6.5	<2.5	<2.5	<2.5	<2.5	<5.0	13.000	0.380	1800.000	1.8
	7/18/2008	<1.7	<1.7	48	14	<1.7	420	<1.7	6.6	7.9	<1.7	<1.7	<1.7	<1.7	<3.3	340.000	1.100	5400.000	6.8
	10/7/2008	<0.5	<0.5	15	12	<0.5	880	1.7	14	10	<0.5	<0.5	<2.0	<0.5	1.1	380.000	3.700	12000.000	12
	2/11/2009	<1.7	<1.7	5.9	4.9	<1.7	190	<1.7	10	7.3	<1.7	<1.7	<6.7	<1.7	<3.3	190.000	5.200	7800.000	12
	5/27/2009	<1.7	<1.7	8.8	6.6	<1.7	250	<1.7	13	7.1	<1.7	<1.7	<6.7	<1.7	<3.3	93.000	9.000	9500.000	8.5
	7/13/2009	<1.7	<1.7	4.3	5.4	<1.7	320	<1.7	15	8.4	<1.7	<1.7	<6.7	<1.7	<3.3	79.000	8.500	10000.000	9.1
	10/16/2009	<0.5	<0.5	10	7.6	<0.5	360	1.0	20	13	<0.5	0.5	<2.0	<0.5	<1.0	83.000	11.000	12000.000	7.9
	2/18/2010	<2.5	<2.5	4.0	3.4	<2.5	240	<2.5	17	10	<2.5	<2.5	<10	<2.5	<5.0	39.000	10.000	7500.000	6.9
	4/22/2010	<1.7	<1.7	4.7	2.6	<1.7	250	<1.7	18	12	<1.7	<1.7	<6.7	<1.7	<3.3	47.000	8.600	5700.000	5.2
	7/6/2010	<1.7	<1.7	6.6	2	<1.7	580	<1.7	20	13	<1.7	<1.7	<6.7	<1.7	<3.3	71.000	8.500	5400.000	4.4
	10/21/2010	<5.0	<5.0	13	<5.0	<5.0	850	<5.0	22	13	<5.0	<5.0	<20	<5.0	<10	78.000	6.300	4200.000	4.2
	2/1/2011	<5.0	<5.0	20	<5.0	<5.0	800	<5.0	23	12	<5.0	<5.0	<20	<5.0	<10	68.000	4.700	3200.000	3.7
	4/14/2011	<5.0	<5.0	43	<5.0	<5.0	830	<5.0	22	13	<5.0	<5.0	<20	<5.0	<10	59.000	4.000	2900.000	3.9
	7/22/2011	<5.0	<5.0	74	<5.0	<5.0	820	<5.0	27	16	<5.0	<5.0	<20	<5.0	<10	63	3.7	2900	3.9
	10/26/2011	<5.0	<5.0	88	<5.0	<5.0	830	<5.0	24	13	<5.0	<5.0	<20	<5.0	<10	52	3.4	2400	3.5
	12/20/2011	<0.5	<0.5	64	5.5	<0.5	96	<0.5	15	14	<0.5	1.2	<0.5	<0.5	<1.0	7.4	1.6	4700	7.0
	2/9/2012	<2.5	<2.5	43	3.9	<2.5	380	<2.5	17	16.0	<2.5	<2.5	<10	<2.5	<5.0	64	2.3	5400	9.4
	4/19/2012	<2.5	<2.5	32	4	<2.5	640	<2.5	15	17	<2.5	<2.5	<10	<2.5	<5.0	69	3.1	5900	11
	7/23/2012	<5.0	<5.0	27	<5.0	<5.0	670	<5.0	17	15	<5.0	<5.0	<20	<5.0	<10	73	4.1	5600	4.7
	10/11/2012	<5.0	<5.0	54	<5.0	<5.0	790	<5.0	21	23	<5.0	<5.0	<20	<5.0	<10	90	4.3	4800	4.1

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SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
X2A (cont'd)	12/12/2012	<1.0	<1.0	120	6.2	<1.0	140	<1.0	14	20	<1.0	<1.0	<1.0	<1.0	<2.0	9.0	1.4	4500	6.8
	1/28/2013	<1.0	<1.0	91	5.8	<1.0	120	<1.0	13	18	<1.0	<1.0	<1.0	<1.0	<2.0	12	2.9	8100	8.9
	2/20/2013	<1.0	1.2	17	1.9	<1.0	150	<1.0	10	12	<1.0	<1.0	<1.0	<1.0	<2.0	24	4	7300	<0.5
	3/12/2013	<0.5	<0.5	2.9	0.9	<0.5	34	<0.5	16	5.7	<0.5	0.7	<2.0	<0.5	<1.0	31	4.2	9700	170
	6/4/2013	<0.5	<0.5	0.7	<0.5	<0.5	47	<0.5	19	6	<0.5	0.8	<2.0	<0.5	<1.0	33	2.6	10000	10
	8/29/2013	<0.5	<0.5	1.0	<0.5	<0.5	96	<0.5	18	9.7	<0.5	0.6	<2.0	<0.5	<1.0	46	2.8	9300	8.7
	10/17/2013	<0.7	<0.7	<0.7	<0.7	<0.7	140	<0.7	17	14	<0.7	<0.7	<2.9	<0.7	<1.4	38	3.6	8600	8.0
	2/5/2014	<1.0	<1.0	56	3.4	<1.0	130	<1.0	11	12	<1.0	<1.0	<10	<1.0	<2.0	6.5	1.1	1400	3.7
	3/4/2014	<1.0	<1.0	17	<1.0	<1.0	240	<1.0	12	12	<1.0	<1.0	<4.0	<1.0	<2.0	21	1.8	2000	3.9
	5/27/2014	<2.0	<2.0	6.1	<2.0	<2.0	300	<2.0	14	16	<2.0	<2.0	<8.0	<2.0	<4.0	28	1.6	2100	3.7
	8/18/2014	<2.5	<2.5	25	<2.5	<2.5	320	<2.5	14	13	<2.5	<2.5	<10	<2.5	<5.0	29	2.4	2000	4.0
	10/14/2014	<3.1	<3.1	10	<3.1	<3.1	530	<3.1	13	12	<3.1	<3.1	<13	<3.1	<6.3	50	3.3	2700	3.8
	2/5/2015	<3.1	<3.1	10	<3.1	<3.1	560	<3.1	14	15	<3.1	<3.1	<13	<3.1	<6.3	68	3.3	2900	2.7
	5/11/2015	<0.5	<0.5	5.2	<0.5	<0.5	510	0.6	17	19	<0.5	<0.5	<2.0	<0.5	<1.0	61	3.2	2300	4.4
X1B [13]	12/12/2005 [15]	<8.3	360	1600	29	10	120	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<17	--	--	--	0.72
	1/13/2006 [15]	5.8	350	1100	36	7.8	110	2.1	<2.0	9.7	<2.0	<2.0	2.3	<2.0	<4.0	--	--	--	0.72
	2/10/2006 [15]	<8.3	300	940	33	8.7	110	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<17	--	--	--	1.5
	4/19/2006 [15]	<7.1	340	880	61	<7.1	84	<7.1	<7.1	9.3	<7.1	<7.1	<7.1	<7.1	<14	--	--	--	2.1
	5/1/2006 [15]	7.4	310	970	37	<7.1	120	<7.1	<7.1	9.6	<7.1	<7.1	<7.1	<7.1	<14	--	--	--	0.73
	7/6/2006 [15]	6.4	290	860	22.0	5.8	75	<5.0	<5.0	7.7	<5.0	<5.0	<5.0	<5.0	<10	--	--	--	0.71
	8/2/2006 [15]	<7.1	240	850	19.0	<7.1	81	<7.1	<7.1	7.6	<7.1	<7.1	<7.1	<7.1	<14	--	--	--	0.67
	9/18/2006	7.7	270	850	27	7.3	94	<5.0	<5.0	8.5	<5.0	<5.0	<5.0	<5.0	<10	3.500	0.220	310.000	0.77
	10/18/2006	6.2	240	840	30	5.3	110	1.8	<0.7	9.3	<0.7	<0.7	1.8	1.6	<1.4	--	--	--	0.94
	11/14/2006 [15]	<5.0	250	840	28	5.5	140	<5.0	<5.0	6.7	<5.0	<5.0	<5.0	<5.0	<10	21.000	0.350	12000.000	0.93
	12/11/2006	<7.1	270	930	28	<7.1	120	<7.1	<7.1	9.4	<7.1	<7.1	<71	<7.1	<14	22.000	0.330	13000.000	1.0
	5/31/2007	<6.3	140	1700	47	<6.3	350	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	35.000	0.350	12000.000	1.3
	8/21/2007	<5.0	17	950	31	<5.0	200	<5.0	<5.0	6.5	<5.0	<5.0	<7.1	<5.0	<10	14.000	0.400	4000.000	1.7
	11/1/2007	<7.1	<7.1	740	36	<7.1	220	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<14	20.000	0.190	2400.000	4.0
	2/7/2008	<4.2	260	930	<4.2	6.3	110	<4.2	<4.2	8.0	<4.2	<4.2	<4.2	<4.2	<8.3	18	0.24	3800	0.77
	2/28/2008	<5.0	180	620	19	<5.0	58	<5.0	<5.0	6.1	<5.0	<5.0	<5.0	<5.0	<10	32.000	0.630	7900.000	2.5
	3/27/2008	6.6	240	860	24	<6.3	110	<6.3	<6.3	12	<6.3	<6.3	<6.3	<6.3	<13	20.000	0.550	3800.000	1.1
	5/2/2008	<7.1	250	890	40	<7.1	93	<7.1	<7.1	8.0	<7.1	<7.1	<7.1	<7.1	<14	7.900	0.380	2200.000	1.3
	7/18/2008	<2.0	74	450	14	<2.0	380	<2.0	<2.0	6.4	<2.0	<2.0	2.7	<2.0	<4.0	19.000	0.200	1300.000	1.6
	10/7/2008	1.8	100	680	15	2.2	240	1.8	<1.3	6.4	<1.3	<1.3	<5.0	<1.3	<2.5	21.000	0.280	1800.000	1.6
	2/10/2009	<7.1	140	1000	25	<7.1	160	<7.1	<7.1	7.6	<7.1	<7.1	<29	<7.1	<14	36.000	1.200	11000.000	1.1
	6/1/2009	<3.6	79	570	25	3.8	570	<3.6	<3.6	5.3	<3.6	<3.6	<14	<3.6	<7.1	28.000	0.870	7500.000	1.4
	7/13/2009	<5.0	37	660	20	<5.0	590	<5.0	<5.0	5.3	<5.0	<5.0	<20	<5.0	<10	20.000	0.510	6900.000	1.5

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
X1B (cont'd)	10/16/2009	<5.0	140	1300	27	7.0	400	<5.0	<5.0	7.0	<5.0	<5.0	<20	<5.0	<10	11.000	1.200	9600.000	1.3
	2/18/2010	<5.0	12	510	21	<5.0	660	<5.0	<5.0	5.1	<5.0	<5.0	<20	<5.0	<10	9.900	0.990	5600.000	1.5
	4/22/2010	<5.0	62	1500	25	<5.0	340	<5.0	<5.0	5.3	<5.0	<5.0	<20	<5.0	<10	7.600	1.600	4300.000	1.5
	7/6/2010	<10	29	1100	21	<10	300	<10	<10	<10	<10	<10	<40	<10	<20	4.000	0.790	1700.000	1.1
	10/21/2010	<8.3	240	2400	32	12	49	<8.3	<8.3	<8.3	<8.3	<8.3	<33	<8.3	<17	0.600	1.700	4300.000	1.3
	2/1/2011	<17	87	1900	24	<17	83	<17	<17	<17	<17	<17	<67	<17	<33	0.510	0.520	950.000	0.96
	4/15/2011	<10	110	1300	17	<10	28	<10	<10	<10	<10	<10	<40	<10	<20	0.170	0.180	320.000	0.91
	7/22/2011	<6.3	67	940	22	<6.3	44	<6.3	<6.3	<6.3	<6.3	<6.3	<25	<6.3	<13	0.82	0.17	360	0.89
	10/27/2011	<6.3	200	1000	23	<6.3	110	<6.3	<6.3	<6.3	<6.3	<6.3	<25	<6.3	<13	11	5.2	1400	0.79
	11/21/2011	7.4	360	1700	28	8.7	130	2.2	<0.5	11	<0.5	<0.5	1.7	1.1	<1.0	5.5	2.3	880	0.64
	2/9/2012	<6.3	180	780	31	<6.3	93	<6.3	<6.3	<6.3	<6.3	<6.3	<25	<6.3	<13	7.1	1.8	1200	0.93
	4/20/2012	<6.3	150	620	35	<6.3	21	<6.3	<6.3	<6.3	<6.3	<6.3	<25	<6.3	<13	0.20	0.56	670	0.72
	7/23/2012	<5.0	190	570	16	<5.0	21	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<10	0.15	0.47	240	0.62
	10/11/2012	<10	100	940	18	<10	64	<10	<10	<10	<10	<10	<40	<10	<20	0.25	0.5	210	0.61
	12/12/2012	<7.1	260	1100	16	<7.1	44	<7.1	<7.1	7.9	<7.1	<7.1	<7.1	<7.1	<14	5.3	2.9	1600	0.81
	1/28/2013	<10	210	950	24	<10	30	<10	<10	<10	<10	<10	<10	<10	<20	3.4	3.2	2600	0.98
	2/20/2013	<7.1	200	850	27	<7.1	29	<7.1	<7.1	9.2	<7.1	<7.1	<7.1	<7.1	<14	0.92	2.9	1900	0.92
	3/12/2013	<10	200	1200	25	<10	21	<10	<10	<10	<10	<10	<40	<10	<20	0.17	2.8	1200	1.2
	6/4/2013	<7.1	82	850	14	<7.1	80	<7.1	<7.1	<7.1	<7.1	<7.1	<29	<7.1	<14	0.24	3.0	1500	1.3
	8/29/2013	<5.0	77	520	12	<5.0	79	<5.0	<5.0	5.8	<5.0	<5.0	<20	<5.0	<10	0.86	1.0	370	3.3
	10/17/2013	<5.0	100	640	37	<5.0	79	<5.0	<5.0	6.2	<5.0	<5.0	<20	<5.0	<10	0.20	0.80	250	1.2
	3/5/2014	<5.0	200	890	24	5.8	46	<5.0	<5.0	6.6	<5.0	<5.0	<20	<5.0	<10	5.0	3.0	1100	0.69
	5/28/2014	<0.5	<0.5	19	12	<0.5	26	1.3	<0.5	6.4	<0.5	<0.5	<2.0	<0.5	<1.0	820	1.5	1100	18
	8/18/2014	<0.5	<0.5	210	14	<0.5	240	1.3	<0.5	4.9	<0.5	<0.5	<2.0	<0.5	<1.0	220	0.87	570	1.7
	10/14/2014	<2.0	<2.0	230	10	<2.0	280	<2.0	<2.0	4.9	<2.0	<2.0	<8.0	<2.0	<4.0	260	0.81	1700	1.6
	2/5/2015	<2.0	<2.0	250	12	<2.0	390	<2.0	<2.0	3.7	<2.0	<2.0	<8.0	<2.0	<4.0	88	2.0	5200	<0.50
	5/11/2015	<2.0	<2.0	250	10	<2.0	340	<2.0	<2.0	3.4	<2.0	<2.0	<8.0	<2.0	<4.0	56	5.9	4000	2.0
ISB2AR	9/14/2007	<1.3	3.1	190	42	<1.3	84	<1.3	13	21	<1.3	<1.3	<1.3	<1.3	2.7	120	2.9	9800	250
ISB3BR	3/19/2014	<0.5	1.8	14	2.6	<0.5	76	0.6	1.0	3.2	<0.5	<0.5	<5.0	<0.5	<1.0	68	60	22000	220
16-S [16]	12/12/2005	<0.5	6.1	29	20	<0.5	37	1.3	11	32	0.7	3.3	<0.5	<0.5	2.6	--	--	--	2.3
	1/13/2006	0.6	17	43	15	<0.5	44	0.9	6.7	22	<0.5	2.2	<0.5	<0.5	1.5	--	--	--	3.0
	2/10/2006	<0.5	9.7	33	21	<0.5	27	0.6	6.3	25	<0.5	2.6	<0.5	<0.5	1.7	--	--	--	6.2
	4/19/2006	4.3	260	840	29	4.8	120	1.7	2.8	17	<0.5	0.8	2	1.4	<1.0	--	--	--	5.4
	5/1/2006	<6.3	340	810	27	<6.3	130	<6.3	<6.3	6.5	<6.3	<6.3	<6.3	<6.3	<13	--	--	--	1.9
	7/6/2006	<0.5	5.5	37	27	<0.5	14	<0.5	21.0	24.0	0.6	3	<0.5	<0.5	2.1	--	--	--	16
	8/2/2006	<0.5	2.8	30	17	<0.5	15	<0.5	23.0	21.0	0.6	2.9	<0.5	<0.5	1.5	--	--	--	72
	11/14/2006	<0.5	1.5	32	19	<0.5	13	<0.5	26	13	0.5	2.6	<0.5	<0.5	3.1	18.000	0.130	11000.000	18

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
16-S (cont'd)	5/31/2007	<0.5	0.7	11	28	<0.5	9.6	0.6	24	21	0.5	3.0	<0.5	<0.5	7.4	4.500	0.240	5800.000	4.930
	8/21/2007	<0.5	0.8	14	31	<0.5	19	0.6	21	22	0.6	3.0	<0.5	<0.5	9.3 J	9.900	2.100	6500.000	8.900
	10/22/2007	<0.5	0.9	19	27	<0.5	27	0.6	20	28	0.5	3.0	<0.5	<0.5	6.0	13.000	1.100	7300.000	18
	2/7/2008	<0.5	2.9	14	18	<0.5	8.8	<0.5	21	32	0.7	3.6	<0.5	<0.5	7.4	5.4	1.0	8800	35
	2/28/2008	<0.5	1.1	13	9.8	<0.5	7.3	<0.5	20	21	0.5	2.8	<0.5	<0.5	1.4	20.000	0.440	10000.000	280
	3/27/2008	<0.5	1.2	13	13	<0.5	11	<0.5	27	15	0.6	2.8	<0.5	<0.5	1.4	19.000	0.470	13000.000	71
	5/2/2008	<0.5	0.9	36	12	<0.5	31	<0.5	36	12	0.5	3.0	<0.5	<0.5	<1.0	19.000	0.660	13000.000	57
	7/21/2008	<0.5	<0.5	3.6	7	<0.5	3.6	<0.5	24	5.4	<0.5	1.9	<0.5	<0.5	<1.0	10.000	0.140	9900.000	38
	10/7/2008	<0.5	<0.5	4.2	6.3	<0.5	3.9	<0.5	34	4.8	0.5	2.3	<2.0	<0.5	1.1	13.000	0.320	12000.000	40
	2/11/2009	<0.5	0.8	5.8	5.9	<0.5	5.9	<0.5	22	6.2	<0.5	1.9	<2.0	<0.5	1.8	7.000	2.200	8800.000	17
	5/27/2009	<0.5	1.3	11	8.8	<0.5	14	<0.5	28	8.2	<0.5	2.3	<2.0	<0.5	3.9	4.400	4.500	6000.000	13
	7/13/2009	<0.5	1.0	14	9.3	<0.5	20	<0.5	31	11	0.6	2.8	<2.0	<0.5	3.2	3.900	3.600	4500.000	12
	10/16/2009	<0.5	1.0	18	10	<0.5	26	<0.5	24	16	0.6	2.9	<2.0	<0.5	4.1	4.400	4.600	3800.000	9.5
	2/19/2010	<0.5	0.6	7.7	8.8	<0.5	27	<0.5	16	13	<0.5	2.4	<2.0	<0.5	3.7	3.200	4.400	3300.000	9.2
	4/23/2010	<0.5	<0.5	7.3	7.2	<0.5	20	<0.5	15	12	<0.5	2.1	<2.0	<0.5	3.3	2.200	4.800	3000.000	7.5
	7/7/2010	<0.5	<0.5	7.2	4.6	<0.5	26	<0.5	31	13	0.6	2.9	<2.0	<0.5	4.9	1.800	4.000	2800.000	8.3
	10/21/2010	<0.5	<0.5	6.9	6.4	<0.5	21	<0.5	13	13	<0.5	2.1	<2.0	<0.5	2.9	2.000	2.700	1600.000	6.4
	2/2/2011	<0.5	<0.5	3.6	4.1	<0.5	18	<0.5	16	12	<0.5	2.2	<2.0	<0.5	1.8	1.500	2.900	1400.000	6.0
	4/15/2011	<0.5	<0.5	3.5	5.7	<0.5	22	<0.5	11	10	<0.5	1.7	<2.0	<0.5	1.6	1.200	2.800	1100.000	5.3
	7/22/2011	<0.5	<0.5	2.5	2.0	<0.5	11	<0.5	15	9.6	<0.5	2.1	<2.0	<0.5	1.5	0.58	3.0	1400	5.5
	10/27/2011	<0.5	<0.5	2.0	1.5	<0.5	7.9	<0.5	11	11	<0.5	1.8	<2.0	<0.5	2.2	2.5	3.3	1300	5.0
	2/8/2012	<0.50	<0.50	2.1	1.4	<0.50	5.6	<0.50	12	10.0	<0.50	1.6	<2.0	<0.50	1.1	0.38	2.7	5700	7.1
	4/20/2012	<0.50	<0.50	3.8	1.9	<0.50	9.5	<0.50	11	11	<0.50	1.9	<2.0	<0.50	<1.0	0.66	2.5	6000	6.8
	7/24/2012	<0.50	<0.50	3.3	1.1	<0.50	17	<0.50	13	13	<0.50	2.3	<2.0	<0.50	<1.0	1.2	1.6	3800	5.5
	10/10/2012	<0.50	<0.50	3.2	0.9	<0.50	20	<0.50	10	16.0	<0.50	2.4	<2.0	<0.50	<1.0	1.2	1.3	1700	4.8
	12/12/2012	<0.5	<0.5	3.4	1.4	<0.5	10	<0.5	13	16.0	0.6	2.7	<0.5	<0.5	<1.0	2	2	6700	7.8
	1/28/2013	<0.5	<0.5	4.1	2.8	<0.5	9.9	<0.5	12	14.0	<1.0	2.4	<0.5	<0.5	<1.0	0.81	2.4	9600	11
	2/20/2013	<0.5	<0.5	5.4	2.6	<0.5	13	<0.5	14	13.0	0.5	2.3	<0.5	<0.5	<1.0	1.8	2.1	10000	35
	3/12/2013	<0.5	<0.5	2.9	1.3	<0.5	7.2	<0.5	16	6.1	<0.5	1.7	<2.0	<0.5	<1.0	2.2	1.3	10000	21
	6/4/2013	<0.5	<0.5	1.0	<0.5	<0.5	1.7	<0.5	26	2.9	<0.5	1.9	<2.0	<0.5	<1.0	0.65	0.59	12000	13
	8/30/2013	<0.5	<0.5	1.8	<0.5	<0.5	4.6	<0.5	21	5.6	<0.5	1.9	<2.0	<0.5	<1.0	0.61	1.4	6000	8.7
	10/17/2013	<0.5	<0.5	2.0	0.6	<0.5	7.0	<0.5	23	7.6	0.5	2.4	<2.0	<0.5	<1.0	0.70	1.4	2800	8.5
	2/5/2014	<0.5	<0.5	2.8	1.3	<0.5	12	<0.5	13	9.5	<0.5	2.0	<5.0	<0.5	<1.0	0.61	0.70	2600	4.2
	3/5/2014	<0.5	<0.5	1.3	<0.5	<0.5	5.6	<0.5	14	6.8	<0.5	1.8	<2.0	<0.5	<1.0	0.62	1.0	2700	6.3
	5/28/2014	<0.5	<0.5	2.3	<0.5	<0.5	17	<0.5	15	8.6	<0.5	2.0	<2.0	<0.5	<1.0	1.5	1.3	2000	5.3
	8/18/2014	<0.5	<0.5	2.0	<0.5	<0.5	11	<0.5	15	7.1	<0.5	1.6	<2.0	<0.5	<1.0	1.6	1.8	3100	16
	10/14/2014	<0.5	<0.5	1.6	<0.5	<0.5	15	<0.5	23	8.0	<0.5	2.4	<2.0	<0.5	<1.0	1.6	1.4	1300	5.9

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
16-S	2/5/2015	<0.5	<0.5	2.7	0.5	<0.5	15	<0.5	16	9.1	<0.5	2.1	<2.0	<0.5	<1.0	0.93	1.6	2400	4.3
(cont'd)	5/21/2015	<0.5	<0.5	2.2	<0.5	<0.5	10	<0.5	15	9.2	<0.5	2.0	<2.0	<0.5	<1.0	0.60	0.9	780	9.2
DW-7 [14]	12/12/2005	<1.3	300	100	1.6	1.7	4.6	<1.3	<1.3	1.3	<1.3	<1.3	10	<1.3	<2.5	--	--	--	<0.50
	1/13/2006	<2.5	350	210	<2.5	<2.5	5	<2.5	<2.5	<2.5	<2.5	<2.5	15	<2.5	<5.0	--	--	--	<0.50
	2/10/2006	<1.7	270	140	2.8	2	4.1	<1.7	<1.7	1.9	<1.7	<1.7	9.9	<1.7	<3.3	--	--	--	0.97
	4/19/2006	<2.0	180	290	3.8	2.3	3.9	<2.0	<2.0	<2.0	<2.0	<2.0	4.6	<2.0	<4.0	--	--	--	1.7
	5/1/2006	<2.0	110	2000	17	6.4	42	<2.0	<2.0	4.8	<2.0	<2.0	3.8	<2.0	<4.0	--	--	--	5.4
	7/6/2006	<3.6	72	430	6.1	<3.6	230	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.1	--	--	--	69
	8/2/2006	<1.3	57	180	5.9	1.3	150	<1.3	<1.3	3.1	<1.3	<1.3	2.8	<1.3	<2.5	170.000 J	0.160 J	4700.000 J	200
	11/14/2006[17]	<1.7	140	200	<1.7	<1.7	6.4	<1.7	<1.7	<1.7	<1.7	<1.7	4.5	<1.7	<3.3	--	--	--	0.66
	5/31/2007	<1.0	68	210	1.5	1.1	14	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<2.0	2.500	0.150	66.000	0.72
	8/21/2007	<1.3	85	210	1.9	<1.3	10	<1.3	<1.3	<1.3	<1.3	<1.3	3.5	<1.3	<2.5	2.000	0.270	160.000	0.63
	11/1/2007	<1.0	160	97	<1.0	<1.0	5.3	<1.0	<1.0	<1.0	<1.0	<1.0	5.4	<1.0	<2.0	0.940	0.110	42.000	<0.50
	2/7/2008	<1.7	72	230	1.8	<1.7	22	<1.7	<1.7	<1.7	<1.7	<1.7	2.8	<1.7	<3.3	18	0.086	350	0.57
	2/28/2008	<1.3	130	160	4.2	<1.3	43	<1.3	<1.3	<1.3	<1.3	<1.3	2.8 U[19]	<1.3	<2.5	18.000	0.082	560.000	0.76
	3/27/2008	<1.0	140	130	1.8	<1.0	51	<1.0	<1.0	1.2	<1.0	<1.0	2.4	<1.0	<2.0	36.000	0.720	5500.000	3.6
	5/2/2008	<1.0	160	160	2.5	<1.0	59	<1.0	<1.0	1.4	<1.0	<1.0	3.3	<1.0	<2.0	6.500	0.075	570.000	2.3
	7/21/2008	<0.5	6.9	210	2.8	0.7	62	0.9	<0.5	0.6	<0.5	<0.5	1.5	<0.5	<1.0	4.500	0.490	220.000	1.1
	10/7/2008	<1.3	17	190	2.5	<1.3	70	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	2.900	0.450	150.000	1.1
	2/11/2009	<1.3	14	160	1.7	<1.3	70	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	2.400	0.160	270.000	0.54
	6/1/2009	<0.5	5.1	100	1.7	<0.5	65	0.7	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.960	0.280	53.000	0.67
	7/13/2009	<0.5	6.1	95	1.8	<0.5	87	0.6	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	1.400	0.340	58.000	0.8
	10/16/2009	<0.5	6.0	69	2.2	<0.5	110	0.7	<0.5	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	2.700	0.610	64.000	0.79
	2/19/2010	<0.5	3.3	44	1.1	<0.5	26	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.450	0.230	6.100	0.89
	4/23/2010	<0.5	12.0	86	1.4	<0.5	28	0.6	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.360	0.290	9.300	0.73
	7/7/2010	<1.0	4.2	57	1.5	<1.0	110	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<2.0	1.500	0.410	14.000	<0.50
	10/21/2010	<1.0	5.2	52	2.1	<1.0	140	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<2.0	2.500	0.530	12.000	0.80
	2/2/2011	<0.5	3.1	32	0.9	<0.5	19	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.230	0.140	3.400	0.71
	4/15/2011	<0.5	5.2	62	1.5	<0.5	41	0.7	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.370	0.200	3.800	0.77
	7/22/2011	<1.0	2.0	32	1.6	<1.0	110	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<2.0	2.0	0.38	9.2	0.82
	10/27/2011	<1.0	2.1	36	1.7	<1.0	140	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<2.0	2.5	0.59	11	0.54
	2/8/2012	<0.50	2.4	46	1.1	<0.50	23	0.6	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	0.28	0.14	1.8	<0.50
	4/20/2012	<0.50	6.5	51	1.3	<0.50	24	0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	0.61	0.42	4.5	<0.50
	7/24/2012	<0.50	1.7	30	1.8	<0.50	110	0.80	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	1.5	1.0	19	0.54
	10/10/2012	<0.50	1.6	26	1.5	<0.50	110	0.6	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	2.4	0.48	6.7	<0.50
	3/12/2013	<0.5	7.1	55	1.2	<0.5	21	0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.22	0.17	31	0.73
	6/5/2013	<0.5	1.1	18	1.0	<0.5	32	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.41	0.18	12	0.72

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
DW-7 [14] (cont'd)	8/30/2013	<0.5	15	22	1.3	<0.5	83	0.6	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	1.6	0.68	42	1.0
	10/17/2013	<0.5	11	150	2.2	<0.5	97	0.9	<0.5	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	0.73	0.33	14	0.76
	3/5/2014	<0.5	4.8	41	1.3	<0.5	20	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.23	0.14	2.6	<0.50
	5/28/2014	<2.0	<2.0	18	<2.0	<2.0	18	<2.0	<2.0	<2.0	<2.0	<2.0	<8.0	<2.0	<4.0	0.49	0.25	37	<0.50
	8/18/2014	<1.0	3.5	50	1.5	<1.0	89	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<2.0	1.0	0.42	230	0.70
	10/14/2014	<0.5	<0.5	9.3	1.9	<0.5	100	0.6	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	2.0	0.59	290	0.60
	2/5/2015	<0.5	<0.5	20	1.0	<0.5	29	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.43	0.12	9.8	<0.50
	5/11/2015	<0.5	2.0	34	1.3	<0.5	17	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.25	0.15	9.4	1.0
DW-8 [16]	12/12/2005	<1.7	300	14	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	12	<1.7	<3.3	--	--	--	<0.50
	1/13/2006	<1.3	240	15	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	8	<1.3	<2.5	--	--	--	<0.50
	2/10/2006	<1.3	200	13	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	6.9	<1.3	<2.5	--	--	--	0.79
	4/19/2006	<1.7	220	12	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	3.8	<1.7	<3.3	--	--	--	1.2
	5/1/2006	<1.7	220	11	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	3.7	<1.7	<3.3	--	--	--	<0.50
	5/31/2007	<1.7	200	8.1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	5.4	<1.7	<3.3	<0.025	0.034	19.000	0.53
16-D [16]	12/12/2005	<5.0	740	970	17	6.7	45	<5.0	<5.0	7.9	<5.0	<5.0	<5.0	<5.0	<10	--	--	--	1.2
	1/13/2006	<17	3200	4000	<17	<17	100	<17	<17	<17	<17	<17	<17	<17	<33	--	--	--	0.93
	2/10/2006	<25	1800	3100	<25	<25	82	<25	<25	<25	<25	<25	<25	<25	<50	--	--	--	1.0
	4/19/2006	<6.3	340	970	41	<6.3	91	<6.3	<6.3	9.6	<6.3	<6.3	<6.3	<6.3	<13	--	--	--	1.8
	5/1/2006	<2.5	220	390	6.8	3.1	6.9	<2.5	<2.5	<2.5	<2.5	<2.5	5.6	<2.5	<5.0	--	--	--	0.78
	7/6/2006	<3.6	110	460	4.7	<3.6	80	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.1	--	--	--	8.4
	9/18/2006	<0.5	0.6	12	10	<0.5	10	<0.5	2.7	4.4	1.9	0.5	<0.5	<0.5	<1.0	250.000	0.380	19000.000	91
	10/18/2006	<0.5	1.5	50	4.7	<0.5	59	<0.5	0.8	2.3	<0.5	0.6	0.5	<0.5	<1.0	--	--	--	2.7
	11/14/2006 [17]	<0.5	1.2	26	8.8	<0.5	30	0.7	1.5	4.8	<0.5	0.6	<0.5	<0.5	<1.0	--	--	--	9.7
	5/31/2007	<0.5	1.7	140	21	0.6	190	2.2	3.0	8.6	<0.5	<0.5	<0.5	<0.5	<1.0	76.000	0.140	6600.000	2.4
	8/21/2007	<0.5	1.0	3.4	5.9	<0.5	6.6	1.4	0.9	4.8	<0.5	<0.5	<2.5	<0.5	<5.0	54.000	0.360	5900.000	2.2
	10/22/2007	<0.5	1.7	20	7.2	<0.5	150	1.4	<0.5	3.4	<0.5	<0.5	<1.7	<0.5	<3.3	50.000	0.170	7700.000	1.8
	2/7/2007	<0.5	3.0	18	5.2	<0.5	29	0.9	<0.5	3.2	<0.5	<0.5	<0.5	<0.5	<1.0	95.000	0.300	12000.000	75
	2/28/2008	<0.5	1.9	34	4.3	0.6	26	1	<0.5	2.7	<0.5	<0.5	<0.5	<0.5	<1.0	17.000	0.320	8700.000	3.7
	3/27/2008	<0.5	2.4	48	6.3	<0.5	53	0.5	<0.5	3.0	<0.5	<0.5	<0.5	<0.5	<1.0	33.000	1.200	19000.000	10
	5/2/2008	<0.5	3.3	36	5.2	<0.5	52	0.7	<0.5	2.1	<0.5	<0.5	0.6	<0.5	<1.0	17.000	0.380	8400.000	9.6
	7/21/2008	<0.5	1.5	2.1	4.1	<0.5	1.5	1.1	<0.5	1.9	<0.5	<0.5	<0.5	<0.5	<1.0	0.120	0.220	3300.000	2.4
	10/7/2008	<0.5	1.7	2.5	4.3	<0.5	4.5	1.2	<0.5	2.2	<0.5	<0.5	<2.0	<0.5	<1.0	0.310	0.230	2400.000	1.8
	2/11/2009	<0.5	1.3	71	7.1	<0.5	50	0.8	<0.5	2.2	<0.5	<0.5	<2.0	<0.5	<1.0	0.140	3.400	1500.000	1.6
	6/1/2009	<1.0	1.0	160	12	<1.0	110	<1.0	4.5	7.5	<1.0	<1.0	<4.0	<1.0	<2.0	18.000	0.860	7200.000	3.5
	7/13/2009	<1.0	<1.7	190	15	<1.0	130	1.0	6.4	8.4	<1.0	<1.0	<4.0	<1.0	<2.0	13.000	0.800	6900.000	4.1
	10/16/2009	<1.7	7.0	240	16	<1.7	110	<1.7	9.7	9.9	<1.7	<1.7	<6.7	<1.7	<3.3	13.000	1.400	7100.000	4.2
	2/19/2010	<1.7	2.7	230	17	<1.7	130	<1.7	8.3	7.3	<1.7	<1.7	<6.7	<1.7	<3.3	9.600	1.300	5500.000	3.6

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Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
16-D (cont'd)	4/23/2010	<1.7	2.1	240	15	<1.7	130	<1.7	6.8	8.3	<1.7	<1.7	<6.7	<1.7	<3.3	11.000	1.200	5700.000	2.9
	7/7/2010	<1.7	2.6	240	15	<1.7	210	<1.7	8.8	9.9	<1.7	<1.7	<6.7	<1.7	<3.3	9.500	1.300	5200.000	2.9
	10/21/2010	<1.7	<1.7	180	14	<1.7	180	<1.7	5.2	6.6	<1.7	<1.7	<6.7	<1.7	<3.3	10.000	0.780	3500.000	1.9
	2/2/2011	<1.3	<1.3	230	13	<1.3	240	1.5	2.0	5.8	<1.3	<1.3	<5.0	<1.3	<2.5	10.000	0.370	3800.000	1.1
	4/15/2011	<1.3	<1.3	32	7.2	<1.3	210	1.5	<1.3	3.8	<1.3	<1.3	<5.0	<1.3	<2.5	10.000	0.250	1500.000	0.88
	7/22/2011	<1.3	<1.3	40	8.3	<1.3	200	<1.3	<1.3	3.1	<1.3	<1.3	<5.0	<1.3	<2.5	13	0.39	2600	0.84
	10/27/2011	<1.3	<1.3	14	5.9	<1.3	130	<1.3	<1.3	2.5	<1.3	<1.3	<5.0	<1.3	<2.5	9.1	1.2	340	0.68
	12/20/2011	<0.5	2.0	94	8.1	<0.5	170	0.9	<0.5	1.7	<0.5	<0.5	1.1	<0.5	<1.0	46	14	2400	1.2
	2/8/2012	<0.50	<0.50	16	7.0	<0.50	80	1.1	<0.50	2.0	<0.50	<0.50	<2.0	<0.50	<1.0	31	6.6	8000	6.7
	4/20/2012	<0.50	<0.50	6.1 J	4.3 J	<0.50	70 J	0.6 J	<0.50	1.7 J	<0.50	<0.50	<2.0	<0.50	<1.0	5.5	2.8	1500	0.84
	7/24/2012	<0.50	<0.50	9.9	3.5	<0.50	130	0.80	<0.50	1.4	<0.50	<0.50	<2.0	<0.50	<1.0	9.0	2.0	1400	0.89
	10/10/2012	<1.3	<1.3	16	3.6	<1.3	180	<1.3	<1.3	1.8	<1.3	<1.3	<5.0	<1.3	<2.5	12	1.7	1800	0.93
	12/12/2012	<1.3	<1.3	29	6.3	<1.3	120	<1.3	<1.3	1.9	<1.3	<1.3	<1.3	<1.3	<2.5	140	12	6000	20
	1/28/2013	<0.5	0.5	53	6.4	<0.5	110	1.0	<0.5	1.5	<0.5	<0.5	<0.5	<0.5	<1.0	82	9.1	9100	3.5
	2/20/2013	1.5	150	730	10	3.3	68	<1.3	<1.3	3.4	<1.3	<1.3	1.4	<1.3	<2.5	8	5.6	4200	1.7
	3/12/2013	<0.7	3.0	100	3.6	<0.7	120	0.7	<0.7	<0.7	<0.7	<0.7	<2.9	<0.7	<2.0	23	9.1	6100	2.4
	6/5/2013	<1.0	<1.0	73	6.3	<1.0	250	1.3	<1.0	2.1	<1.0	<1.0	<4.0	<1.0	<2.0	12	1.9	2500	1.5
	8/30/2013	<1.7	<1.7	26	4.9	<1.7	190	<1.7	<1.7	2.1	<1.7	<1.7	<6.7	<1.7	<3.3	12	1.2	1900	1.6
	10/17/2013	<1.7	<1.7	22	4.4	<1.7	160	<1.7	<1.7	1.7	<1.7	<1.7	<6.7	<1.7	<3.3	7.1	0.93	710	1.2
	3/5/2014	<0.5	<0.5	2.2	2.8	<0.5	15	0.7	<0.5	1.7	<0.5	<0.5	<2.0	<0.5	<1.0	82	6.6	10000	60
	3/19/2014	<0.5	<0.5	22	5.2	<0.5	75	0.7	<0.5	1.8	<0.5	<0.5	<5.0	<0.5	1.3	150	14	13000	240
	5/28/2014	<0.5	<0.5	2.2	1.9	<0.5	15	0.9	<0.5	2.3	<0.5	<0.5	<2.0	<0.5	<1.0	43	3.2	18000	14
	8/18/2014	<0.5	<0.5	3.5	1.0	<0.5	36	0.6	<0.5	1.5	<0.5	<0.5	<2.0	<0.5	<1.0	4.7	3.8	4700	<0.50
	10/14/2014	<0.5	<0.5	3.3	1.2	<0.5	84	0.8	<0.5	1.8	<0.5	<0.5	<2.0	<0.5	<1.0	20	3.4	5200	1.2
	2/5/2015	<0.5	<0.5	3.5	0.9	<0.5	68	0.7	<0.5	1.7	<0.5	<0.5	<2.0	<0.5	<1.0	6.5	1.6	1200	<0.50
	5/11/2015	<0.5	<0.5	18	3.0	<0.5	210	0.8	<0.5	2.2	<0.5	<0.5	<2.0	<0.5	<1.0	0.16	0.016 J	33	1.9
Influent	1/13/2006	3.0	610	850	15	5.1	81	1.3	0.8	10.0	<0.5	<0.5	3.4	1.2	<1.0	--	--	--	0.96
	2/10/2006	<5.0	440	780	20	<5.0	63	<5.0	<5.0	7.1	<5.0	<5.0	<5.0	<5.0	<10	--	--	--	1.5
	3/22/2006	<10	160	1600	21	<10	83	<10	<10	<10	<10	<10	<10	<10	<20	--	--	--	34
	4/19/2006	<3.6	260	550	20	<3.6	73	<3.6	<3.6	6.9	<3.6	<3.6	3.7	<3.6	<7.1	--	--	--	3.3
	5/1/2006	<4.2	270	1100	30	<4.2	88	<4.2	<4.2	5.2	<4.2	<4.2	5.7	<4.2	<8.3	--	--	--	2.5
	8/2/2006	<2.5	55	330	12	<2.5	120	<2.5	5.5	8.1	<2.5	<2.5	<2.5	<2.5	<5	--	--	--	150
	9/18/2006	<5.0	280	940	21	<5.0	18	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	--	--	--	18
	10/18/2006	<4.2	240	790	21	4.8	89	<4.2	<4.2	4.2	<4.2	<4.2	<4.2	<4.2	<8.3	--	--	--	1.5
	11/14/2006	<4.2	390	1100	24	5.7	120	<4.2	<4.2	5.3	<4.2	<4.2	<4.2	<4.2	<8.3	--	--	--	0.9
	12/11/2006	<10	320	1100	25	<10	150	<10	<10	<10	<10	<10	<100	<10	<20	--	--	--	2.4
	4/11-13/2007 [19]	<5.0	310	3200	17	8.8	290	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<10	190.000	0.650	6700.000	14

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
Influent (cont'd)	4/30/2007 [19]	<17	<17	2800	<17	<17	300	<17	<17	<17	<17	<17	<17	<17	<33	400.000	0.830	8900.000	35
	5/31/2007 [19]	<10 / <20	<10 / <20	2200 / 2500	12 / <20	<10 / <20	370 / 320	<10 / <20	<10 / <20	<10 / <20	<10 / <20	<10 / <20	<10 / <20	<10 / <20	<20 / <40	270 / 340	0.82 / 0.91	9100/10000	18/39
	6/27/2007 [19]	<20	<20	2400	21	<20	580	<20	<20	<20	<20	<20	<20	<20	<40	--	--	--	750
	9/14/2007 [19]	<10	<10	1500	24	<10	560	<10	<10	10	<10	<10	<10	<10	<20	--	--	--	140
	10/15/2007 [19]	<13	<13	1200	<13	<13	820	<13	<13	<13	<13	<13	<13	<13	<25	260.000	1.500	13000.000	320
	11/1/2007 [19]	<6.3	<6.3	900	20	<6.3	760	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	320.000	2.700	12000.000	100
	11/20/2007 [19]	<3.1	<3.1	520	7	<3.1	340	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<6.3	340 B	5.4	14000	46
	12/18/2007 [19]	4.5	2.1	230	3.8	<2.0	160	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	270.000	3.700	13000.000	120
	1/23/2008 [19]	<0.5	3.3	290	5.7	0.8	180	1.2	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<1.0	220.000	6.300	7700.000	14
	2/4/2008	<1.7	110	260	8.6	<1.7	55	<1.7	6.4	7.8	<1.7	<1.7	1.8	<1.7	<3.3	--	--	--	25
	2/21/2008	<1.3	90	210	7.6	<1.3	60	<1.3	7.5	11	<1.3	<1.3	<1.3	<1.3	<2.5	--	--	--	61
	2/28/2008	<2.0	81	200	8.5	<2.0	38	<2.0	7.1	11	<2.0	<2.0	<2.0	<2.0	<4.0	--	--	--	64
	3/17/2008	<2.5	110	410	15	3.0	85	<2.5	10	9.8	<2.5	<2.5	4.2	<2.5	<5.0	--	--	--	48
	3/27/2008	<2.5	120	390	14	<2.5	90	<2.5	11	11	<2.5	<2.5	<2.5	<2.5	<5.0	--	--	--	22
	4/18/2008	<2.5	160	390	9.2	<2.5	56	<2.5	4.4	5	<2.5	<2.5	<10	<2.5	<5.0	--	--	--	19
	5/2/2008	<2.5	150	410	9.4	<2.5	71	<2.5	4.9	4.9	<2.5	<2.5	<2.5	<2.5	<5.0	--	--	--	7.6
	11/21/2011	4.8	410	1400	20	6.8	120	1.7	<0.5	7.0	<0.5	<0.5	3.2	1.1	<1.0	--	--	--	0.71
	12/20/2011	<0.5	1.1	87	6.7	<0.5	140	0.5	7.5	8.1	<0.5	0.7	<0.5	<0.5	<1.0	--	--	--	4.2
	1/19/2012	4.2	190	900	14	4.2	95	1.0	<1.0	5.6	<1.0	<1.0	1.7	<1.0	<2.0	--	--	--	1.4
	12/12/2012	<3.1	130	440	7.6	<3.1	8.1	<3.1	3.9	7.2	<3.1	<3.1	<3.1	<3.1	<6.3	--	--	--	8.1
	1/28/2013	<2.5	120	470	6.8	<2.5	57	<2.5	5.5	7.8	<2.5	<2.5	<2.5	<2.5	<5.0	--	--	--	5.5
	2/20/2013	<3.1	130	530	9.5	<3.1	76	<3.1	4.3	6.0	<3.1	<3.1	<3.1	<3.1	<6.3	--	--	--	11
	2/5/2014	<0.5	<0.5	37	3.1	<0.5	97	<0.5	13	12	<0.5	1.5	<5.0	<0.5	<1.0	--	--	--	3.9
	3/19/2014	<0.5	0.6	22	4.3	<0.5	97	0.6	<0.5	2.0	<0.5	<0.5	<5.0	<0.5	<1.0	--	--	--	230
Midpoint [20]	1/13/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--
	2/10/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	1.0
	4/19/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	1.9
	5/1/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	7/11/2006	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	90
	8/2/2006	<0.5	<0.5	3.8	<0.5	<0.5	7.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	99
	9/18/2006	<0.5	<0.5	4.0	<0.5	<0.5	6.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	5.9
	9/18/2006	<0.5	1.2	1.4	<0.5	<0.5	2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--
	10/18/2006	<0.5	<0.5	0.8	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	0.71
	11/14/2006	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<1.0
	12/11/2006	<0.5	<0.5	0.8	<0.5	<0.5	2.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	4/30/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--
	5/31/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--
	6/27/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
Midpoint (cont'd)	9/14/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	86
	10/18/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	120
	11/20/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	76
	12/18/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	120
Effluent [20]	3/22/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	24
	7/11/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	--	--	--	69
	9/18/2006	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	15
	9/18/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--
	10/18/2006	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	11/14/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<.050
	12/11/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	4/30/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--
	5/31/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--
	6/27/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--
	9/14/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	88
	10/18/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	91
	11/20/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	65
	12/18/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	100
	1/23/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	25
	2/4/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	39
	2/21/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	30
	2/28/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	62
	3/17/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	22
	3/27/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	9.8
	4/18/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	26
	5/2/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	9.0
	11/21/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	12/20/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	1/19/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	12/12/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	1/28/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	2/20/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.1	--	--	--	<0.50
	2/5/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<1.0	--	--	--	<0.50
	3/19/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<1.0	--	--	--	1.1

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR DETECTED COMPOUNDS [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Notes:
1. Samples were collected by AMEC Geomatrix or Field Solutions, Inc., of San Jose, California, and submitted to Curtis and Tompkins, Ltd., of Berkeley, California, for VOC and TOC analyses. Ethene, ethane, and methane were analyzed by Microseeps, Inc., of Pittsburgh, Pennsylvania.
2. Baseline sampling was conducted on 6 and 7 December 2005.
3. 23-S was not accessible to sample during the February 2007 sampling event.
4. Well was sampled on 7 November 2006 as part of the annual groundwater monitoring event for the site. See the Annual Groundwater Monitoring Report (Geomatrix, 2007).
5. J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
6. UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of the quantitation necessary to accurately and precisely measure the analyte in the sample.
7. Well P2A was decommissioned in August 2007.
8. DW-1 was converted to an injection well on 22 May 2006 and 25 January 2008, and to an extraction well on 30 March 2007.
9. Well PMW-1-1 was not sampled during the August 2006 quarterly sampling event due to low recharge.
10. Monitoring well sampling discontinued due to low recharge during the baseline sampling event; however, adequate sample volumes were available during the November 2006 and February 2007 quarterly sampling events.
11. Well DW-2 was converted to an injection well on 22 May 2006. Injection was discontinued on 30 August 2007, was resumed on 25 January 2008, and was discontinued on 2 May 2008.
12. The sample bottles for analysis of ethene, ethane, and methane were broken during shipping but the samples bottles for VOC analysis were okay. DW-2 was re-sampled on 28 April 2010 for analysis of ethene, ethane, and methane.
13. Groundwater extraction at wells X1B and X2B1 was discontinued on 11 December 2006, was resumed on 25 January 2008, and was discontinued on 2 May 2008.
14. Groundwater extraction at wells X2A and DW-7 was discontinued on 3 August 2006, was resumed on 25 January 2008, and was discontinued on 2 May 2008.
15. Sample ID is "X1B1" on laboratory report.
16. Groundwater extraction at wells DW-8, 16-S, and 16-D was discontinued on 1 May, 10 August, and 18 October 2006, respectively. Extraction at wells 16-S and 16-D was resumed on 25 January 2008, and was discontinued on 2 May 2008.
17. Samples for ethene, ethane, and methane were not analyzed due to field oversight.
18. U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
19. DW-1 is the only extraction well in operation during the period from 11 April 2007 to 23 January 2008 and, therefore, analytical results for influent and DW-1 are the same.
20. The midpoint and effluent ports for the GAC vessel were sampled after replacement of carbon in the lag vessel on 18 September 2006. The lag carbon vessel was disconnected on 31 January 2008, and no samples were taken from the midpoint port after 31 January 2008.

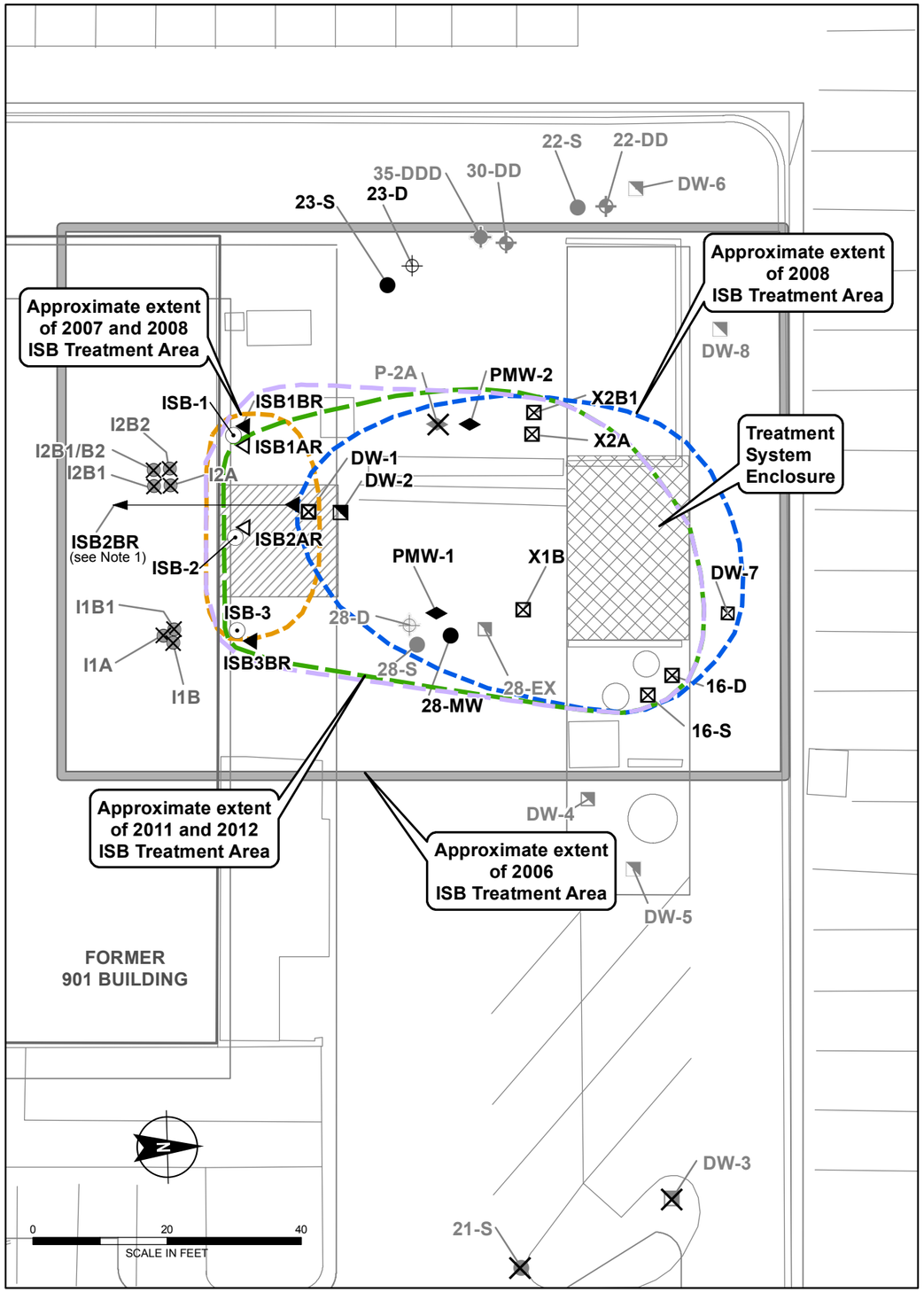
Abbreviations:
< = compound not detected above indicated laboratory reporting limit
<0.5 / <0.5 = indicates that duplicate samples were collected
1,1,1-TCA = 1,1,1-trichloroethane
1,1-DCA = 1,1 dichloroethane
1,1-DCE = 1,1-dichloroethene
1,2-DCB = 1,2-dichlorobenzene
1,3-DCB = 1,3-dichlorobenzene
1,4-DCB = 1,4-dichlorobenzene
CB = chlorobenzene
cDCE = cis-1,2-dichloroethene
CE = chloroethane
PCE = tetrachloroethene
TCE = trichloroethene
tDCE = trans-1,2-dichloroethene
TOC = total organic carbon
µg/L = micrograms per liter
VC = vinyl chloride
VOC = volatile organic compound

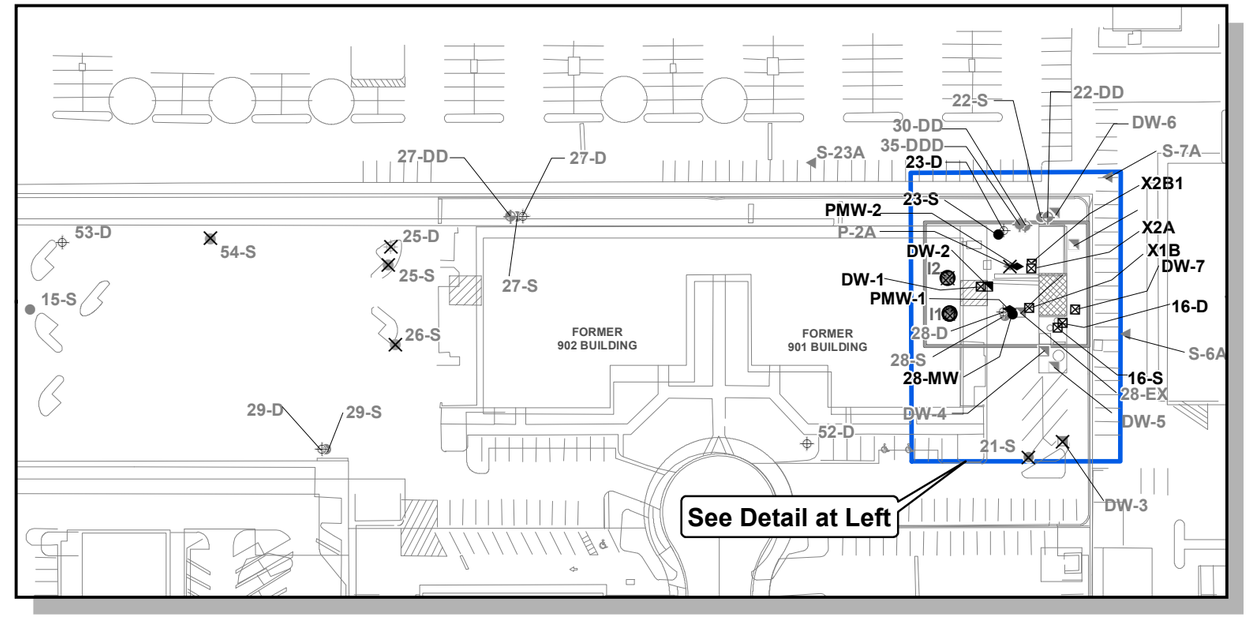
TABLE 5
ISB MONITORING PROGRAM [1]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Well ID	Water Levels	Sampling
23-S	Quarterly	Quarterly [2]
23-D	Quarterly	Quarterly
DW-1	Quarterly	Quarterly
28-MW	Quarterly	Quarterly
PMW-1-1	Quarterly	--
PMW-1-2	Quarterly	--
PMW-1-3	Quarterly	--
PMW-2-1	Quarterly	Quarterly
PMW-2-2	Quarterly	--
PMW-2-3	Quarterly	Quarterly
DW-2	Quarterly	Quarterly
X2B1	Quarterly	Quarterly
X2A	Quarterly	Quarterly
X1B	Quarterly	Quarterly
16-S	Quarterly	Quarterly
DW-7	Quarterly	Quarterly
16-D	Quarterly	Quarterly
DW-8	--	--
ISB1AR	--	--
ISB1BR	--	--
ISB2AR	--	--
ISB2BR	--	--
ISB3BR	--	--

Notes:
1. ISB = in situ bioremediation.
2. Samples are analyzed for VOCs by EPA Method 8260B, TOC by EPA Method 415.2, and ethene, methane, ethane by AM20GAX.
3. -- = Not included in monitoring plan.

FIGURE





LEGEND

- EXTRACTION WELL
- A-ZONE MONITORING WELL
- B1-ZONE MONITORING WELL
- B2-ZONE MONITORING WELL
- B3-ZONE MONITORING WELL
- A-ZONE INJECTION WELL
- B-ZONE INJECTION WELL
- DESTROYED WELL
- PERFORMANCE MONITORING WELL (PMW-1, PMW-1, P-2A)
- IN SITU BIOREMEDIATION EXTRACTION WELL
- SOIL BORING AND DEPTH-DISCRETE GROUNDWATER SAMPLING LOCATION
- FORMER BUILDING BOUNDARIES
- FORMER POINT SOURCE LOCATION (NEUTRALIZATION AND STORAGE TANKS)

0 100 200
SCALE IN FEET

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. INJECTION WELL ISB2BR INSTALLED AT A 30-DEGREE ANGLE FROM VERTICAL WITH A BEARING TO THE SOUTH.
3. BASE MAP PROVIDED BY AMD.

HALEY ALDRICH

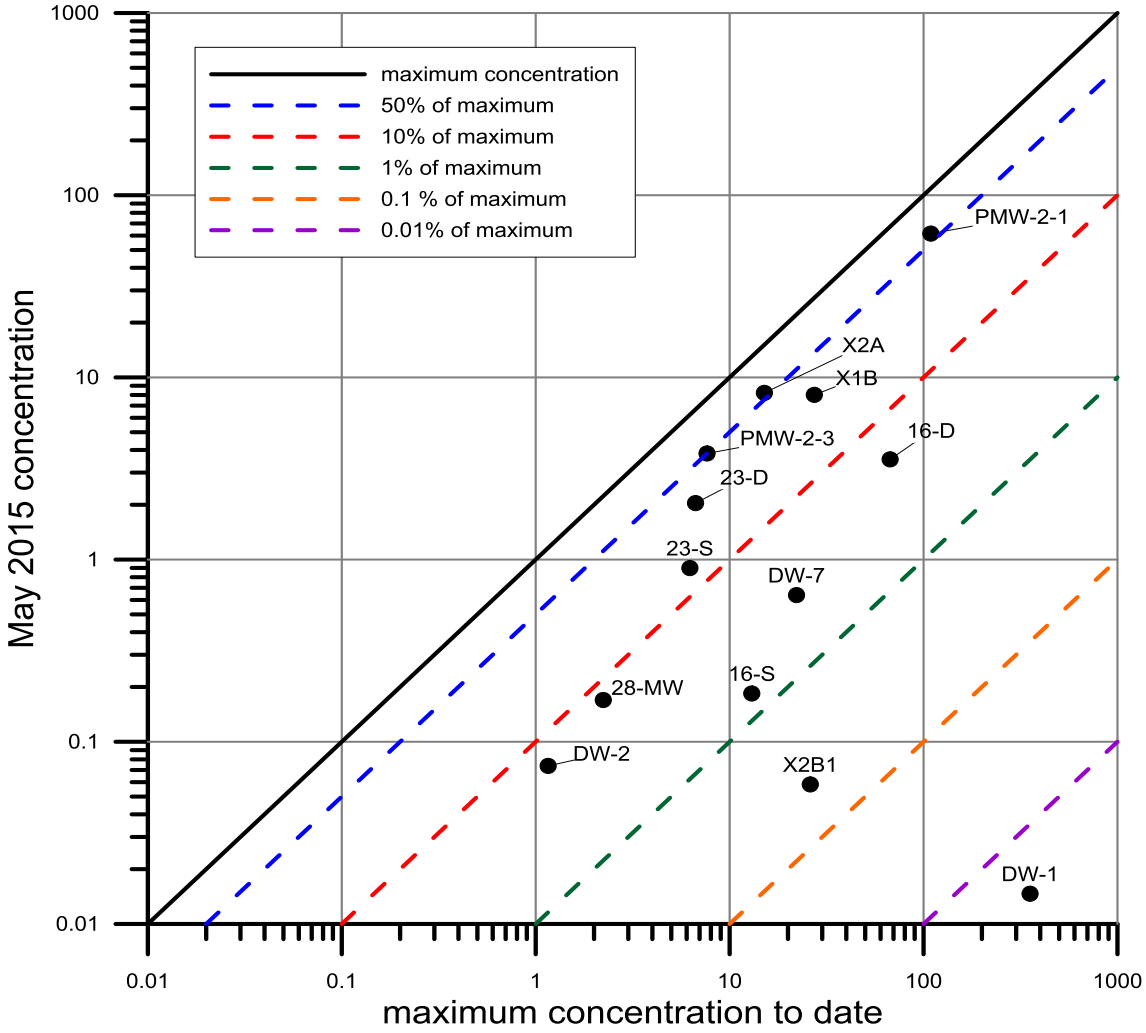
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

LAYOUT OF THE IN SITU BIOREMEDIATION PROGRAM

MARCH 2015

FIGURE 1

GIS FILE PATH: G:\39751_AMD_Former 901-902 Thompson Place\GIS\Figures\Figures_20131\39751_AMD\Global\GIS\MapProjects\2015-03\39751-003-0001-SitePlan.mxd — USER: amcclure — LAST SAVED: 3/10/2015 9:14:10 AM



NOTES:
1. Concentrations are the sum of TCE, cDCE, and VC, expressed in micromols per liter.

ABBREVIATIONS:
TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride

HALEY ALDRICH

ADVANCED MICRO DEVICES, INC.
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

COMPARISON OF MOST RECENT AND HISTORICAL MAXIMUM CONCENTRATIONS

JULY 2015

FIGURE 2

ATTACHMENT A

Field Sampling Data Sheets

WELL GAUGING DATA

Project # 150511-ND1 Date 5/11/15 Client Haley + Aldrich

Site 901 Thompson Pl. - Sunnyvale, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
23-S	0729	4					8.98	16.33		
23-D	0733	4					8.63	44.40		
DW-1	0806	4					10.10	40.00		
28-MW	0815	2					9.73	16.56		
PWM-1-1	0737	CMT					9.61	26.51		
PMW-1-2	0740	CMT					9.62	32.13		
PMW-1-3	0743	CMT					9.92	38.95		
PMW-2-1	0745	CMT					9.37	27.49		
PMW-2-2	0747	CMT					36.31	37.50		
PMW-2-3	0750	CMT					9.01	48.21		
DW-2	0810	6					8.99	14.00		
X2B1	0813	2					7.09	34.87		
X2-A	0820	2					9.91	20.44		
16-D	0830	4					10.03	38.53		
DW-7	0845	6					08.67	~~38.53~~ 45.00		
X1B	0840	2					9.40	28.99		
16-S	0835	4					DRY	10.21	↓	Obstruction in well?

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150511-ND1	Client: Haley + Aldrich
Sampler: ND	Start Date: 5/11/15
Well I.D.: 23-S	Well Diameter: 2 3 4 6 8 ____
Total Well Depth: 16.33	Depth to Water Pre: 8.98 Post: 8.98
Depth to Free Product: —	Thickness of Free Product (feet): –
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ____

Flow Rate: 200 ml/min Pump Depth: 15 ft.

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
0924	17.3	6.64	1304	23	2.26	106.6	600	8.98
0927	17.2	6.62	1302	20	1.41	102.3	1200	
0930	17.6	6.61	1301	19	1.00	98.0	1800	
0933	17.1	6.61	1300	12	0.87	92.4	2400	
0936	17.5	6.62	1301	15	0.74	89.7	3000	
0939	17.1	6.62	1300	16	0.61	86.0	3600	
0942	17.2	6.61	1302	16	0.59	85.4	4200	
0945	17.2	6.61	1301	17	0.57	85.1	4800	↓

Did well dewater? Yes No	Amount actually evacuated: 4800 ml
Sampling Time: 0950	Sampling Date: 5/11/15
Sample I.D.: 23-S	Laboratory: Ctt / Pace
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150511-ND1	Client: Haley + Aldrich
Sampler: ND	Start Date: 5 / 11 / 15
Well I.D.: 23-D	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 44.40	Depth to Water Pre: 8.63 Post: 8.65
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump

Sampling Method: (Dedicated Tubing) New Tubing Other ____

Flow Rate: 300 mL/min Pump Depth: 45 ft.

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
1241	18.4	7.05	1017	42	2.09	-5.5	900	8.63
1244	18.3	6.97	1008	28	1.85	6.4	1800	8.63
1247	18.2	6.88	1004	20	1.64	19.4	2700	8.64
1250	18.2	6.88	1005	21	1.60	20.9	3600	8.64
1253	18.3	6.87	1003	22	1.59	21.3	4500	8.64
1256	18.3	6.88	1000	21	1.58	22.0	5400	8.65

Did well dewater? Yes (No)	Amount actually evacuated: 5400 mL
Sampling Time: 1300	Sampling Date: 5 / 11 / 15
Sample I.D.: 23-D	Laboratory: C&T / Pace
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.: DUP-1 @ -1305

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150511-ND1	Client: Haley + Aldrich
Sampler: ND	Start Date: 5/11/15
Well I.D.: 28-MW	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 16.56	Depth to Water Pre: 9.73 Post: 9.80
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated (Tubing) New Tubing Other_____
Flow Rate: 200 ml/min Pump Depth: 15 ft.

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
1008	18.2	6.44	1523	>1000	0.93	-104.2	600	9.75
1011	18.3	6.43	1524	30	0.77	-106.0	1200	9.76
1014	18.3	6.42	1525	26	0.69	-107.5	1800	9.77
1017	18.3	6.42	1525	24	0.51	-109.4	2400	9.78
1020	18.3	6.42	1525	24	0.49	-109.6	3000	9.80
1023	18.3	6.41	1524	24	0.48	-110.0	3600	9.80
								MS/MSD collected

Did well dewater? Yes (No)	Amount actually evacuated: 3600 ml
Sampling Time: 1025	Sampling Date: 5/11/15
Sample I.D.: 28-MW	Laboratory: CT / PACE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150511-N01	Client: Haley + Aldrich
Sampler: NT	Start Date: 5/11/15
Well I.D.: DW-1	Well Diameter: 2 3 4 (6) 8 ____
Total Well Depth: 40.00	Depth to Water Pre: 10.10 Post: 10.10
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump (Peristaltic) Pump Bladder Pump
Sampling Method: (Dedicated) Tubing New Tubing Other ____
Flow Rate: 300 mL/min Pump Depth: 36 ft.

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
1306	17.3	6.59	1681	59	0.77	-95.2	900	10.10
1309	17.4	6.57	1688	53	0.50	-94.9	1800	
1312	17.3	6.56	1687	50	0.46	-97.8	2700	
1315	17.5	6.56	1687	49	0.45	-98.3	3600	
1318	17.4	6.55	1685	52	0.46	-98.7	4500	
1321	17.5	6.55	1685	51	0.46	-98.9	5400	

Did well dewater? Yes (No)	Amount actually evacuated: 5400 mL
Sampling Time: 1325	Sampling Date: 5/11/15
Sample I.D.: DW-1	Laboratory: Pace / CET
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150511-ND1	Client: Haley + Aldrich
Sampler: NN	Start Date: 5/11/15
Well I.D.: PMW-2-1	Well Diameter: 2 3 4 6 8 CMT
Total Well Depth: 27.49	Depth to Water Pre: 9.37 Post: 9.56
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump (Peristaltic) Pump Bladder Pump
Sampling Method: (Dedicated) Tubing New Tubing Other _____

Flow Rate: 200 mL/min Pump Depth: 27 ft.

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
1351	19.2	6.90	1416	63	0.49	-98.3	600	9.40
1354	19.4	6.75	1631	55	0.45	-91.6	1200	9.44
1357	19.3	6.71	1685	52	0.46	-87.9	1800	9.48
1400	19.2	6.69	1712	46	0.46	-82.8	2400	9.50
1403	19.3	6.69	1720	45	0.42	-80.1	3000	9.53
1406	19.2	6.69	1718	48	0.40	-80.8	3600	9.56

Did well dewater? Yes (No)	Amount actually evacuated: 3600 mL
Sampling Time: 1410	Sampling Date: 5/11/15
Sample I.D.: PMW-2-1	Laboratory: C&T + Pace
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150511-ND1	Client: Haley + Aldrich
Sampler: ND	Start Date: 5/11/15
Well I.D.: PMW-2-3	Well Diameter: 2 3 4 6 8 CMT
Total Well Depth: 48.21	Depth to Water Pre: 9.01 Post: 9.25
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump

Sampling Method: Dedicated Tubing New Tubing Other _____

Flow Rate: 200 ml/min Pump Depth: 47 ft.

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
1429	19.7	6.87	951	29	0.38	-162.3	600	CMT well 9.06
1432	19.3	6.92	963	26	0.34	-165.7	1200	9.09
1435	19.3	6.93	986	27	0.31	-157.6	1800	9.14
1438	19.4	6.94	997	30	0.29	-148.2	2400	9.19
1441	19.3	6.95	1002	32	0.32	-140.9	3000	9.22
1444	19.2	6.94	1000	33	0.30	-140.6	3600	9.25
1447	19.4	6.94	1006	28	0.31	-141.0	4200	9.28

Did well dewater? Yes No Amount actually evacuated: 4200 mL

Sampling Time: 1450 Sampling Date: 5/11/15

Sample I.D.: PMW-2-3 Laboratory: Pace / C&T

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150511 - ND1	Client: Haley + Aldrich
Sampler: GR	Start Date: 5/11/2015
Well I.D.: X2B1	Well Diameter: (2") 3 4 6 8 ____
Total Well Depth: 34.37	Depth to Water Pre: 7.09 Post:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI ProPlus

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ____
Flow Rate: 200 ml/min @ 1456 Pump Depth: 29.75' SI: 26'-33.5'

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
1459	20.0	7.08	7709	135	0.21	-146.8	600	9.61
1502	20.4	7.08	7689	138	0.10	-148.9	1200	9.77
1505	20.5	7.08	7655	147	0.03	-150.2	1800	9.88
1508	20.3	7.08	7609	148	0.00	-150.6	2400	9.93
1511	20.2	7.08	7572	149	0.00	-151.3	3000	9.99

Did well dewater? Yes (No)	Amount actually evacuated: 3000 ml
Sampling Time: 1514	Sampling Date: 5/11/2015
Sample I.D.: X2B1	Laboratory: C+T + Pace
Analyzed for: TPH-G BTEX MTBE TPH-D	(Other): See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150511-ND2	Client: Haley + Aldrich
Sampler: ND	Start Date: 5/11/15
Well I.D.: DW-2	Well Diameter: 2 3 4 (6) 8 ____
Total Well Depth: 14.00	Depth to Water Pre: 8.99 Post: 9.00
Depth to Free Product: –	Thickness of Free Product (feet): —
Referenced to: (pvc) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump

Sampling Method: (Dedicated Tubing) New Tubing Other ____

Flow Rate: 200 Pump Depth: 12 ft.

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
1056	18.2	6.47	1845	36	0.86	-68.3	600	8.99
1059	17.9	6.39	1857	48	0.80	-67.7	1200	8.99
1102	18.0	6.38	1858	40	0.73	-65.5	1800	9.00
1105	18.0	6.38	1859	37	0.70	-66.0	2400	9.00
1108	18.0	6.38	1860	36	0.69	-66.4	3000	9.00

Did well dewater? Yes (No)	Amount actually evacuated: 3000 mL
Sampling Time: 1115	Sampling Date: 5/11/15
Sample I.D.: DW-2	Laboratory: Pace / CET
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150511-ND1	Client: Haley + Aldrich
Sampler: ND	Start Date: 5 / 11 / 15
Well I.D.: X2-A	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 20.44	Depth to Water Pre: 9.91 Post: 9.96
Depth to Free Product: –	Thickness of Free Product (feet): –
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump

Sampling Method: Dedicated (Tubing) New Tubing Other_____

Flow Rate: 200 ml/min Pump Depth: 16 ft.

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
1129	17.7	6.75	1741	20	0.73	-101.0	600	9.92
1132	17.8	6.64	1802	17	0.65	-104.9	1200	9.93
1135	17.9	6.60	1825	16	0.52	-108.8	1800	9.94
1138	17.8	6.60	1821	16	0.50	-109.7	2400	9.95
1141	17.9	6.60	1824	18	0.49	-110.2	3000	9.95
1144	18.0	6.59	1820	17	0.49	-110.5	3600	9.96

Did well dewater? Yes (No)	Amount actually evacuated: 3600 ml
Sampling Time: 1150	Sampling Date: 5 / 11 / 15
Sample I.D.: X2-A	Laboratory: Pace + CT
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150511-NB1	Client: Haley + Aldrich
Sampler: GR	Start Date: 5/11/2015
Well I.D.: X1B	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 28.99	Depth to Water Pre: 9.40 Post: 9.79
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI Proplus

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump

Sampling Method: (Dedicated Tubing) New Tubing Other ____

Flow Rate: 200 ml/min @ 1351 Pump Depth: 27.8' SP: 25.4'-30.2'

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
1354	19.4	6.82	1298	9.[illegible]	0.07	-106.6	600	9.58
1357	19.5	6.76	1291	6.46	0.00	-109.0	1200	9.62
1400	19.4	6.73	1286	4.87	0.00	-111.0	1800	9.78
1403	19.4	6.71	1284	3.07	0.01	-111.9	2400	9.79
1406	19.5	6.70	1284	5.69	0.02	-113.0	3000	9.79

Did well dewater? Yes (No)	Amount actually evacuated: 3000 ml
Sampling Time: 1409	Sampling Date: 5/11/2015
Sample I.D.: X1B	Laboratory: C+T + Pace
Analyzed for: TPH-G BTEX MTBE TPH-D	(Other:) See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150511-[redacted] ND1	Client: Haley + Aldrich
Sampler: GR	Start Date: 5/11/2015
Well I.D.: 16-D	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 38.53	Depth to Water Pre: 10.03 Post: 10.47
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: 200 ml/min @ 1422 Pump Depth: 36' SP:- 31-41'

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
1425	19.4	6.84	1297	1.86	0.14	-120.8	600	10.30
1427	19.4	6.86	1295	2	0.10	-123.0	1200	10.38
1430	19.5	6.87	1297	2	0.03	-126.2	1800	10.41
1433	19.2	6.89	1294	2	0.00	-128.1	2400	10.45
1436	19.6	6.90	1289	2	0.00	-126.3	3000	10.47

Did well dewater? Yes (No)	Amount actually evacuated: 3000 ml
Sampling Time: 1439	Sampling Date: 5/11/2015
Sample I.D.: 16-D	Laboratory: CT + Pace
Analyzed for: TPH-G BTEX MTBE TPH-D	(Other:) See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150511-ND1	Client: Haley + Aldrich
Sampler: ND	Start Date: 5/11/15
Well I.D.: DW-7	Well Diameter: 2 3 4 (6) 8 ____
Total Well Depth: 45.00	Depth to Water Pre: 8.67 Post: 8.67
Depth to Free Product: –	Thickness of Free Product (feet): –
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump

Sampling Method: (Dedicated Tubing) New Tubing Other ____

Flow Rate: 200 ml/min Pump Depth: 40 ft.

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
1503	19.8	7.49	1002	62	0.39	-159.9	600	8.67
1506	19.7	7.50	961	65	0.28	-162.5	1200	
1509	20.0	7.51	932	54	0.21	-164.8	1800	
1512	19.9	7.51	928	51	0.19	-165.0	2400	
1515	19.8	7.51	926	50	0.20	-165.6	3000	

Did well dewater? Yes (No)	Amount actually evacuated: 3000 mL
Sampling Time: 1520	Sampling Date: 5/11/15
Sample I.D.: DW-7	Laboratory: Pace / C&T
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150511-ND1	Client: Haley + Aldrich
Sampler: ND	Start Date: 5/11/15
Well I.D.: 16-S	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 10.21	Depth to Water Pre: DRY Post:
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)	DTW / Observations
X	well dry -		no sample taken					
–								

Did well dewater? Yes No	Amount actually evacuated:
Sampling Time:	Sampling Date:
Sample I.D.:	Laboratory:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Haley Aldrich + Sunnyvale fields				PROJECT NUMBER 150511-ND1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 556	05K1408AC	5/11/15 0645	4.0 / 7.0 / 10.0 pH 3900 cond.	4.0 - 7.0 - 100 3900	✓	15°	ND
"	"	"	231 ORP 100% D.O	231 99.7%	✓	15°	ND

WELLHEAD INSPECTION CHECKLIST

Client Haley + Aldrich Date 5/11/15

Site Address 901 Thompson Place - Sunnyvale, CA

Job Number 150511-ND1 Technician ND

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
23-S	X							
23-D	X							
DW-1	—	no	lid	—		X		
28-MW	—	2/2	bolts	miss.	—	X		
PMW-1	—	2/2	bolts	miss.	—	X		
PMW-2	—	2/2	bolts	miss.	—	X		
DW-2	—	no	lid	—		X		
X2B1	X							
X2A	—	above	grade	—		X		
X1B	—	no	lid	—		X		
16-S	X							
16-D	X							
DW-7	X							

NOTES:

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 150511-ND1

CLIENT Haley & Aldrich

SITE 901 Thompson Place
Sunnyvale, CA

LAB C & T

DHS #

MUST MEET SPECIFICATIONS
- [x] EPA
- [ ] LIA
- [ ] OTHER
- [ ] RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

SAMPLE I.D.	DATE	TIME	MATRIX (S = Soil, W = H2O)	CONTAINERS TOTAL	1 250ml SVOAs	C = COMPOSITE ALL CONTAINERS	VOCs (8010 list by EPA 8260B)	TOC (415.1)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
23-S	5/11/15	0950	W	4			X	X										
23-D		1300	W	~~3~~ 4			X	X										
DUP-1		1305	W	4			X	X										
DW-1		1325	W	4			X	X										
28-MW		1025	W	10			X	X							MS/MSD			
PMW-2-1		1410	W	4			X	X										
PMW-2-3		1450	W	4			X	X										
DW-2		1115	W	4			X	X										
X2B1		1514	W	4			X	X										
X2-A		1150	W	4			X	X										

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	5/11/15	1520	ND, OR, JN, TD	Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	5/11/15	1715			

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

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FAX (408) 573-7771
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CHAIN OF CUSTODY BTS # 150511-ND1

CLIENT Haley & Aldrich

SITE 901 Thompson Place
Sunnyvale, CA

LAB C & T

DHS #

MUST MEET SPECIFICATIONS
- [x] EPA
- [ ] LIA
- [ ] OTHER
- [ ] RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

C = COMPOSITE ALL CONTAINERS

CONDUCT ANALYSIS TO DETECT

SAMPLE I.D.	DATE	TIME	MATRIX (S = Soil, W = H2O)	CONTAINERS TOTAL	1 250mL 3VOAS	C = COMPOSITE ALL CONTAINERS	VOCs (8010 list by EPA 8260B)	TOC (415.1)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
X1B	5/11/15	1409	W	4			X	X										
DW-7		1520	W	4			X	X										
16-D		1439	W	4			X	X										
TB-1		0700	W	2	VOAS		X											

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	5/11/15	1520	ND, OR, JN, TD	Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	5/11/15	1715			

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

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FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 150511-ND1

CLIENT Haley & Aldrich

SITE 901 Thompson Place
Sunnyvale, CA

CONDUCT ANALYSIS TO DETECT

LAB Pace

DHS #

MUST MEET SPECIFICATIONS
- [x] EPA
- [ ] LIA
- [ ] OTHER
- [ ] RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

SAMPLE I.D.	DATE	TIME	MATRIX (S = Soil, W = H2O)	CONTAINERS TOTAL	CONTAINERS	C = COMPOSITE ALL CONTAINERS	Methane, Ethane, Ethene (AM20GAX)								ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
23-S	5/11/15	0950	W	3	VOAs		X											
23-D		1300	W	3			X											
DW-1		1325	W	3			X											
28-MW		1025	W	3			X											
PMW-2-1		1410	W	3			X											
PMW-2-3		1450	W	3			X											
DW-2		1115	W	3			X											
X2B1		1514	W	3			X											
X2-A		1150	W	3			X											
X1B		1409	W	3			X											

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	5/11/15	1520	N. Drachenberg, GR, JN, TD	Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	5/11/15	1520	[signature]		

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

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SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 150511-ND1

CLIENT Haley & Aldrich

SITE 901 Thompson Place
Sunnyvale, CA

LAB Pace

DHS #

MUST MEET SPECIFICATIONS
- [x] EPA
- [ ] LIA
- [ ] OTHER
- [ ] RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Ziotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

SAMPLE I.D.	DATE	TIME	MATRIX (S = Soil, W = H2O)	CONTAINERS TOTAL	CONTAINERS	C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: Methane, Ethane, Ethene (AM20GAX)								ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
DW-7	5/11/15	1520	W	3	VOAs		X											
16-D	5/11/15	1439	W	3	↓		X											

SAMPLING COMPLETED DATE 5/11/15 TIME 1520

SAMPLING PERFORMED BY N. Drachenberg, GR, JN, TD

RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	5/11/15	1720			

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

WELL GAUGING DATA

Project # 150521 - BW1 Date 5/21/15 Client Haley + Aldrich

Site 901 Thompson Pl Sunnyvale

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
PMW2-2	0745	CMT					9.37	37.44	TOC	
16-5	0748	4					10.31	17.10	TOC	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150521-BW1	Client: Haley + Aldrich
Sampler: BW	Start Date: 5/21/15
Well I.D.: 16-S	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 17.10	Depth to Water Pre: 10.31 Post: 10.34
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump X Peristaltic Pump Bladder Pump

Sampling Method: X Dedicated Tubing New Tubing Other_____

Flow Rate: 200ml/min Pump Depth: 14'

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
0832	17.4	6.56	1578	107	0.21	-93	600	10.32 Black
0835	17.4	6.56	1573	72	0.18	-95	1200	10.33
0838	17.4	6.56	1572	58	0.17	-96	1800	10.33
0841	17.4	6.56	1570	56	0.16	-96	2400	10.33
0844	17.4	6.56	1570	59	0.15	-96	3000	10.34

Did well dewater? Yes (No)	Amount actually evacuated: 3000 ml
Sampling Time: 0845	Sampling Date: 5/21/15
Sample I.D.: 16-S	Laboratory: C+T
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME 901 Thompson Pl. Sunnyvale				PROJECT NUMBER 150521-BW1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI Pro Plus	14OE2579	5/21/15 @ 0630	pH 7, 10, 4 Cond 3900 uS/cm	7.0, 10.0, 4.0 3900 uS/cm	OK	19.8°C	[illegible]
"	"	"	DO 100% ORP	100% 241mV	OK	19.8°C	[illegible]

WELLHEAD INSPECTION CHECKLIST

Client Haley + Aldrich Date 5/21/15

Site Address 901 Thompson Pl. Sunnyvale

Job Number 150521-BW1 Technician BW

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
16-S						X		
PMW2-2						X		

NOTES: 16-S: No wellbox, in remediation compound

PMW2-2: 3/2 Tabs Stripped

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TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 150521-BW1

CLIENT Haley & Aldrich

SITE 901 Thompson Place
Sunnyvale, CA

CONDUCT ANALYSIS TO DETECT

LAB C & T

DHS #

MUST MEET SPECIFICATIONS
☑ EPA
☐ LIA
☐ OTHER
☐ RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

SAMPLE I.D.	DATE	TIME	MATRIX S = Soil W = H2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	VOCs (8010 list by EPA 8260B)	TOC (415.1)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
16-S	5/21/15	0845	W	~~4~~ 3	VOA + remark		X	X										
TB-1	5/21/15	0730	W	2	VOA		X											

SAMPLING COMPLETED DATE 5/21/15 TIME 0845

SAMPLING PERFORMED BY Brian Weeks

RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	5/21/15	1450	[signature] Sample custodian	5/21/15	1450

SHIPPED VIA | DATE SENT | TIME SENT | COOLER #

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 150521-BW1

CLIENT: Haley & Aldrich

SITE: 901 Thompson Place
Sunnyvale, CA

LAB: Pace

DHS #

MUST MEET SPECIFICATIONS
- [x] EPA
- [ ] LIA
- [ ] OTHER
- [ ] RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

SAMPLE I.D.	DATE	TIME	MATRIX S = Soil W = H2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: Methane, Ethane, Ethene (AM20GAX)								ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
16-S	5/21/15	0845	W	3	VOA		X											

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	5/21/15	0845	Brian Weeks	Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	5/21/15	1450	[signature] Sample Custodian	5/21/15	1450
[signature] (Sample Custodian)	5/21/15	1700			

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #
Fed EX	5/21/15	1700	

ATTACHMENT B

Analytical Laboratory Reports

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 266747
ANALYTICAL REPORT

Haley & Aldrich, Inc. 1956 Webster Street Oakland, CA 94612	Project : 39751 Location : 901 Thompson Place Level : II

Sample ID	Lab ID
23-S	266747-001
23-D	266747-002
DUP-1	266747-003
DW-1	266747-004
28-MW	266747-005
PMW-2-1	266747-006
PMW-2-3	266747-007
DW-2	266747-008
X2B1	266747-009
X2A	266747-010
X1B	266747-011
DW-7	266747-012
16-D	266747-013
TB-1	266747-014

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 05/22/2015

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**266747**
Client:	**Haley & Aldrich, Inc.**
Project:	**39751**
Location:	**901 Thompson Place**
Request Date:	**05/12/15**
Samples Received:	**05/12/15**

This data package contains sample and QC results for fourteen water samples, requested for the above referenced project on 05/12/15. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):
Low response was observed for 1,2,3-trichlorobenzene in the CCV analyzed 05/13/15 12:07; this analyte met minimum response criteria, and affected data was qualified with "b". Low response was observed for 1,2,3-trichlorobenzene in the CCV analyzed 05/18/15 12:12; this analyte met minimum response criteria, and affected data was qualified with "b". Low recoveries were observed for 1,2,3-trichlorobenzene in the BS/BSD for batch 223111; the associated RPD was within limits, and these low recoveries were not associated with any reported results. Low recoveries were observed for 1,2,3-trichlorobenzene and 1,2,4-trichlorobenzene in the MS/MSD of 28-MW (lab # 266747-005); the associated RPDs were within limits, and these low recoveries were not associated with any reported results. Low recovery was observed for 1,2,3-trichlorobenzene in the BSD for batch 223241; the associated RPD was within limits, and the low recovery was not associated with any reported results. X2B1 (lab # 266747-009) had pH greater than 2. No other analytical problems were encountered.

Total Organic Carbon (TOC) (SM5310C):
No analytical problems were encountered.

266747

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY: BTS # 150511-ND1

CLIENT: Haley & Aldrich

SITE: 901 Thompson Place
Sunnyvale, CA

CONDUCT ANALYSIS TO DETECT

LAB: C & T

DHS #

MUST MEET SPECIFICATIONS
- [x] EPA
- [ ] LIA
- [ ] OTHER
- [ ] RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

	SAMPLE I.D.	DATE	TIME	MATRIX (S = Soil, W = H2O)	CONTAINERS TOTAL	1 250ml SVOAs	C = COMPOSITE ALL CONTAINERS	VOCs (8010 list by EPA 8260B)	TOC (415.1)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
1	23-S	5/11/15	0950	W	4			X	X										
2	23-D		1300	W	4			X	X										
3	DUP-1		1305	W	4			X	X										
4	DW-1		1325	W	4			X	X										
5	28-MW		1025	W	10			X	X							MS/MSD			
6	PMW-2-1		1410	W	4			X	X										
7	PMW-2-3		1450	W	4			X	X										
8	DW-2		1115	W	4			X	X										
9	X2B1		1514	W	4			X	X										
10	X2-A		1150	W	4			X	X										

SAMPLING COMPLETED: DATE 5/11/15 TIME 1520

SAMPLING PERFORMED BY: ND, GR, JN, TD

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	5/11/15	1715	[signature] (Sample Custodian)	5/11/15	1715
[signature] (Sample Custodian)	5/12/15	1520	[signature]	5/12/15	1520
[signature]	5/12/15	1705	[signature]	5/12/15	1705

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

intact cold RC

266747

BLAINE TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 150511-ND1

CLIENT: Haley & Aldrich

SITE: 901 Thompson Place, Sunnyvale, CA

CONDUCT ANALYSIS TO DETECT

LAB: C & T

DHS #

MUST MEET SPECIFICATIONS: ☑ EPA ☐ LIA ☐ OTHER ☐ RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

	SAMPLE I.D.	DATE	TIME	MATRIX S = Soil W = H2O	CONTAINERS TOTAL	1 250mL 3VOAS	C = COMPOSITE ALL CONTAINERS	VOCs (8010 list by EPA 8260B)	TOC (415.1)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
11	X1B	5/11/15	1409	W	4			X	X				
12	DW-7		1520	W	4			X	X				
13	16-D		1439	W	4			X	X				
14	TB-1		0700	W	2	VOAS		X					

SAMPLING COMPLETED: DATE 5/11/15 TIME 1520

SAMPLING PERFORMED BY: ND, OR, JN, YD

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	5/11/15	1715	[signature] (Sample Custodian)	5/11/15	1715
[signature] (Sample Custodian)	5/12/15	1520	[signature]	5/12/15	1520
[signature]	5/12/15	1705	[signature]	5/12/15	1705

SHIPPED VIA: | DATE SENT: | TIME SENT: | COOLER #:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 266747 Date Received 5/12/15 Number of coolers 1
Client Haley & Aldrich Project 901 Thompson Place

Date Opened 5/12 By (print) BL (sign) [illegible]
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) ____ YES NO
   Shipping info ____
2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many ____ Name ____ Date ____
2B. Were custody seals intact upon arrival? ____ YES NO NA
3. Were custody papers dry and intact when received? ____ YES NO
4. Were custody papers filled out properly (ink, signed, etc)? ____ YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ____ YES NO
6. Indicate the packing in cooler: (if other, describe) ____
   ☐ Bubble Wrap ☒ Bags ☐ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels
7. Temperature documentation: * Notify PM if temperature exceeds 6°C
   Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 2.4
   ☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun
   ☐ Samples received on ice directly from the field. Cooling process had begun
8. Were Method 5035 sampling containers present? ____ YES NO
   If YES, what time were they transferred to freezer? ____
9. Did all bottles arrive unbroken/unopened? ____ YES NO
10. Are there any missing / extra samples? ____ YES NO
11. Are samples in the appropriate containers for indicated tests? ____ YES NO
12. Are sample labels present, in good condition and complete? ____ YES NO
13. Do the sample labels agree with custody papers? ____ YES NO
14. Was sufficient amount of sample sent for tests requested? ____ YES NO
15. Are the samples appropriately preserved? ____ YES NO
16. Did you check preservatives for all bottles for each sample? ____ YES NO N/A
17. Did you document your preservative check? ____ YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? ____ YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? ____ YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? ____ YES NO N/A
21. Was the client contacted concerning this sample delivery? ____ YES NO
   If YES, Who was called? ____ By ____ Date: ____

COMMENTS

20.) -002: 1 of 3 VOA has bubble >6mm

Rev 10, 9/12

Curtis & Tompkins Sample Preservation for 266747

Sample	pH: <2	>9	>12	Other
-001a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
-002a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
-003a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
-004a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
-005a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[ ]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
f	[ ]	[ ]	[ ]	_____
g	[ ]	[ ]	[ ]	_____
h	[ ]	[ ]	[ ]	_____
i	[ ]	[ ]	[ ]	_____
j	[X]	[ ]	[ ]	_____
-006a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____

Sample	pH: <2	>9	>12	Other
-007a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
-008a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
-009a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
-010a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
-011a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
-012a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
-013a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____

Analyst: BL
Date: 5/12/15

Page 1 of 1

Curtis & Tompkins, Ltd.

Detections Summary for 266747

Results for any subcontracted analyses are not included in this summary.

Client : Haley & Aldrich, Inc.
Project : 39751
Location : 901 Thompson Place

Client Sample ID : 23-S Laboratory Sample ID : 266747-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
trans-1,2-Dichloroethene	5.7		0.6	ug/L	As Recd	1.250	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	68		0.6	ug/L	As Recd	1.250	EPA 8260B	EPA 5030B
Trichloroethene	25		0.6	ug/L	As Recd	1.250	EPA 8260B	EPA 5030B
Tetrachloroethene	0.9		0.6	ug/L	As Recd	1.250	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	7.7		0.6	ug/L	As Recd	1.250	EPA 8260B	EPA 5030B
Total Organic Carbon	3.1		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : 23-D Laboratory Sample ID : 266747-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
cis-1,2-Dichloroethene	5.7		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
Trichloroethene	260		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
Total Organic Carbon	0.71		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : DUP-1 Laboratory Sample ID : 266747-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
cis-1,2-Dichloroethene	5.8		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
Trichloroethene	250		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
Total Organic Carbon	0.86		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : DW-1 Laboratory Sample ID : 266747-004

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	1.5		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chlorobenzene	0.9		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	0.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Total Organic Carbon	12		5.0	mg/L	TOTAL	10.00	SM5310C	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : 28-MW Laboratory Sample ID : 266747-005

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	8.0		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	3.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	0.5		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chlorobenzene	5.1		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	4.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Total Organic Carbon	8.9		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : PMW-2-1 Laboratory Sample ID : 266747-006

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	470		42	ug/L	As Recd	83.33	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	5,200		42	ug/L	As Recd	83.33	EPA 8260B	EPA 5030B
Trichloroethene	48		42	ug/L	As Recd	83.33	EPA 8260B	EPA 5030B
Total Organic Carbon	2.3		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : PMW-2-3 Laboratory Sample ID : 266747-007

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	41		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	3.0		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	130		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
Trichloroethene	240		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
Total Organic Carbon	0.89		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : DW-2 Laboratory Sample ID : 266747-008

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	3.1		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	0.9		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	1.4		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	1.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chlorobenzene	2.4		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	0.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Total Organic Carbon	16		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : X2B1 Laboratory Sample ID : 266747-009

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	2.4		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	0.5		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	1.8		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Total Organic Carbon	37		5.0	mg/L	TOTAL	10.00	SM5310C	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : X2A Laboratory Sample ID : 266747-010

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	510		7.1	ug/L	As Recd	14.29	EPA 8260B	EPA 5030B
1,1-Dichloroethane	0.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	5.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chlorobenzene	17		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	19		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Total Organic Carbon	4.4		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : X1B Laboratory Sample ID : 266747-011

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	340		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	10		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	250		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	3.4		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
1,2,4-Trichlorobenzene	3.0		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
Total Organic Carbon	2.0		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : DW-7 Laboratory Sample ID : 266747-012

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	17		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	1.3		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	34		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	2.0		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Total Organic Carbon	1.0		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : 16-D Laboratory Sample ID : 266747-013

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	210		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	3.0		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,1-Dichloroethane	0.8		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	18		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	2.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Total Organic Carbon	1.9		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : TB-1 Laboratory Sample ID : 266747-014

No Detections

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	23-S	Batch#:	223297
Lab ID:	266747-001	Sampled:	05/11/15
Matrix:	Water	Received:	05/12/15
Units:	ug/L	Analyzed:	05/19/15
Diln Fac:	1.250		

Analyte	Result	RL
Chloromethane	ND	1.3
Vinyl Chloride	ND	0.6
Bromomethane	ND	1.3
Chloroethane	ND	1.3
Trichlorofluoromethane	ND	1.3
Freon 113	ND	2.5
1,1-Dichloroethene	ND	0.6
Methylene Chloride	ND	25
trans-1,2-Dichloroethene	5.7	0.6
1,1-Dichloroethane	ND	0.6
cis-1,2-Dichloroethene	68	0.6
Chloroform	ND	1.3
1,1,1-Trichloroethane	ND	0.6
Carbon Tetrachloride	ND	0.6
1,2-Dichloroethane	ND	0.6
Trichloroethene	25	0.6
1,2-Dichloropropane	ND	0.6
Bromodichloromethane	ND	0.6
cis-1,3-Dichloropropene	ND	0.6
trans-1,3-Dichloropropene	ND	0.6
1,1,2-Trichloroethane	ND	0.6
Tetrachloroethene	0.9	0.6
Dibromochloromethane	ND	0.6
Chlorobenzene	ND	0.6
Bromoform	ND	0.6
1,1,2,2-Tetrachloroethane	ND	0.6
1,3-Dichlorobenzene	ND	0.6
1,4-Dichlorobenzene	ND	0.6
1,2-Dichlorobenzene	7.7	0.6
1,2,4-Trichlorobenzene	ND	0.6
1,2,3-Trichlorobenzene	ND	0.6

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	86	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	104	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	23-D	Batch#:	223297
Lab ID:	266747-002	Sampled:	05/11/15
Matrix:	Water	Received:	05/12/15
Units:	ug/L	Analyzed:	05/19/15
Diln Fac:	3.333		

Analyte	Result	RL
Chloromethane	ND	3.3
Vinyl Chloride	ND	1.7
Bromomethane	ND	3.3
Chloroethane	ND	3.3
Trichlorofluoromethane	ND	3.3
Freon 113	ND	6.7
1,1-Dichloroethene	ND	1.7
Methylene Chloride	ND	67
trans-1,2-Dichloroethene	ND	1.7
1,1-Dichloroethane	ND	1.7
cis-1,2-Dichloroethene	5.7	1.7
Chloroform	ND	3.3
1,1,1-Trichloroethane	ND	1.7
Carbon Tetrachloride	ND	1.7
1,2-Dichloroethane	ND	1.7
Trichloroethene	260	1.7
1,2-Dichloropropane	ND	1.7
Bromodichloromethane	ND	1.7
cis-1,3-Dichloropropene	ND	1.7
trans-1,3-Dichloropropene	ND	1.7
1,1,2-Trichloroethane	ND	1.7
Tetrachloroethene	ND	1.7
Dibromochloromethane	ND	1.7
Chlorobenzene	ND	1.7
Bromoform	ND	1.7
1,1,2,2-Tetrachloroethane	ND	1.7
1,3-Dichlorobenzene	ND	1.7
1,4-Dichlorobenzene	ND	1.7
1,2-Dichlorobenzene	ND	1.7
1,2,4-Trichlorobenzene	ND	1.7
1,2,3-Trichlorobenzene	ND	1.7

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	87	75-139
Toluene-d8	99	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	DUP-1	Batch#:	223297
Lab ID:	266747-003	Sampled:	05/11/15
Matrix:	Water	Received:	05/12/15
Units:	ug/L	Analyzed:	05/19/15
Diln Fac:	4.000		

Analyte	Result	RL
Chloromethane	ND	4.0
Vinyl Chloride	ND	2.0
Bromomethane	ND	4.0
Chloroethane	ND	4.0
Trichlorofluoromethane	ND	4.0
Freon 113	ND	8.0
1,1-Dichloroethene	ND	2.0
Methylene Chloride	ND	80
trans-1,2-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	2.0
cis-1,2-Dichloroethene	5.8	2.0
Chloroform	ND	4.0
1,1,1-Trichloroethane	ND	2.0
Carbon Tetrachloride	ND	2.0
1,2-Dichloroethane	ND	2.0
Trichloroethene	250	2.0
1,2-Dichloropropane	ND	2.0
Bromodichloromethane	ND	2.0
cis-1,3-Dichloropropene	ND	2.0
trans-1,3-Dichloropropene	ND	2.0
1,1,2-Trichloroethane	ND	2.0
Tetrachloroethene	ND	2.0
Dibromochloromethane	ND	2.0
Chlorobenzene	ND	2.0
Bromoform	ND	2.0
1,1,2,2-Tetrachloroethane	ND	2.0
1,3-Dichlorobenzene	ND	2.0
1,4-Dichlorobenzene	ND	2.0
1,2-Dichlorobenzene	ND	2.0
1,2,4-Trichlorobenzene	ND	2.0
1,2,3-Trichlorobenzene	ND	2.0

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	86	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	DW-1	Batch#:	223297
Lab ID:	266747-004	Sampled:	05/11/15
Matrix:	Water	Received:	05/12/15
Units:	ug/L	Analyzed:	05/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	1.5	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	0.9	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	0.6	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	87	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	108	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	28-MW	Diln Fac:	1.000
Lab ID:	266747-005	Sampled:	05/11/15
Matrix:	Water	Received:	05/12/15
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed
Chloromethane	ND	1.0	223111	05/13/15
Vinyl Chloride	8.0	0.5	223111	05/13/15
Bromomethane	ND	1.0	223111	05/13/15
Chloroethane	ND	1.0	223111	05/13/15
Trichlorofluoromethane	ND	1.0	223111	05/13/15
Freon 113	ND	2.0	223111	05/13/15
1,1-Dichloroethene	ND	0.5	223111	05/13/15
Methylene Chloride	ND	20	223111	05/13/15
trans-1,2-Dichloroethene	ND	0.5	223111	05/13/15
1,1-Dichloroethane	ND	0.5	223111	05/13/15
cis-1,2-Dichloroethene	3.6	0.5	223111	05/13/15
Chloroform	ND	1.0	223111	05/13/15
1,1,1-Trichloroethane	ND	0.5	223111	05/13/15
Carbon Tetrachloride	ND	0.5	223111	05/13/15
1,2-Dichloroethane	ND	0.5	223111	05/13/15
Trichloroethene	0.5	0.5	223111	05/13/15
1,2-Dichloropropane	ND	0.5	223111	05/13/15
Bromodichloromethane	ND	0.5	223111	05/13/15
cis-1,3-Dichloropropene	ND	0.5	223111	05/13/15
trans-1,3-Dichloropropene	ND	0.5	223111	05/13/15
1,1,2-Trichloroethane	ND	0.5	223111	05/13/15
Tetrachloroethene	ND	0.5	223111	05/13/15
Dibromochloromethane	ND	0.5	223111	05/13/15
Chlorobenzene	5.1	0.5	223111	05/13/15
Bromoform	ND	0.5	223111	05/13/15
1,1,2,2-Tetrachloroethane	ND	0.5	223111	05/13/15
1,3-Dichlorobenzene	ND	0.5	223111	05/13/15
1,4-Dichlorobenzene	ND	0.5	223111	05/13/15
1,2-Dichlorobenzene	4.2	0.5	223111	05/13/15
1,2,4-Trichlorobenzene	ND	0.5	223297	05/19/15
1,2,3-Trichlorobenzene	ND	0.5	223297	05/19/15

Surrogate	%REC	Limits	Batch#	Analyzed
1,2-Dichloroethane-d4	91	75-139	223111	05/13/15
Toluene-d8	102	80-120	223111	05/13/15
Bromofluorobenzene	106	80-120	223111	05/13/15

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	PMW-2-1	Batch#:	223297
Lab ID:	266747-006	Sampled:	05/11/15
Matrix:	Water	Received:	05/12/15
Units:	ug/L	Analyzed:	05/19/15
Diln Fac:	83.33		

Analyte	Result	RL
Chloromethane	ND	83
Vinyl Chloride	470	42
Bromomethane	ND	83
Chloroethane	ND	83
Trichlorofluoromethane	ND	83
Freon 113	ND	170
1,1-Dichloroethene	ND	42
Methylene Chloride	ND	1,700
trans-1,2-Dichloroethene	ND	42
1,1-Dichloroethane	ND	42
cis-1,2-Dichloroethene	5,200	42
Chloroform	ND	83
1,1,1-Trichloroethane	ND	42
Carbon Tetrachloride	ND	42
1,2-Dichloroethane	ND	42
Trichloroethene	48	42
1,2-Dichloropropane	ND	42
Bromodichloromethane	ND	42
cis-1,3-Dichloropropene	ND	42
trans-1,3-Dichloropropene	ND	42
1,1,2-Trichloroethane	ND	42
Tetrachloroethene	ND	42
Dibromochloromethane	ND	42
Chlorobenzene	ND	42
Bromoform	ND	42
1,1,2,2-Tetrachloroethane	ND	42
1,3-Dichlorobenzene	ND	42
1,4-Dichlorobenzene	ND	42
1,2-Dichlorobenzene	ND	42
1,2,4-Trichlorobenzene	ND	42
1,2,3-Trichlorobenzene	ND	42

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	91	75-139
Toluene-d8	95	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	PMW-2-3	Batch#:	223297
Lab ID:	266747-007	Sampled:	05/11/15
Matrix:	Water	Received:	05/12/15
Units:	ug/L	Analyzed:	05/19/15
Diln Fac:	3.333		

Analyte	Result	RL
Chloromethane	ND	3.3
Vinyl Chloride	41	1.7
Bromomethane	ND	3.3
Chloroethane	ND	3.3
Trichlorofluoromethane	ND	3.3
Freon 113	ND	6.7
1,1-Dichloroethene	ND	1.7
Methylene Chloride	ND	67
trans-1,2-Dichloroethene	3.0	1.7
1,1-Dichloroethane	ND	1.7
cis-1,2-Dichloroethene	130	1.7
Chloroform	ND	3.3
1,1,1-Trichloroethane	ND	1.7
Carbon Tetrachloride	ND	1.7
1,2-Dichloroethane	ND	1.7
Trichloroethene	240	1.7
1,2-Dichloropropane	ND	1.7
Bromodichloromethane	ND	1.7
cis-1,3-Dichloropropene	ND	1.7
trans-1,3-Dichloropropene	ND	1.7
1,1,2-Trichloroethane	ND	1.7
Tetrachloroethene	ND	1.7
Dibromochloromethane	ND	1.7
Chlorobenzene	ND	1.7
Bromoform	ND	1.7
1,1,2,2-Tetrachloroethane	ND	1.7
1,3-Dichlorobenzene	ND	1.7
1,4-Dichlorobenzene	ND	1.7
1,2-Dichlorobenzene	ND	1.7
1,2,4-Trichlorobenzene	ND	1.7
1,2,3-Trichlorobenzene	ND	1.7

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	94	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	DW-2	Batch#:	223297
Lab ID:	266747-008	Sampled:	05/11/15
Matrix:	Water	Received:	05/12/15
Units:	ug/L	Analyzed:	05/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	3.1	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	0.9	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	1.4	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	1.2	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	2.4	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	0.6	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	91	75-139
Toluene-d8	95	80-120
Bromofluorobenzene	107	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	X2B1	Batch#:	223176
Lab ID:	266747-009	Sampled:	05/11/15
Matrix:	Water	Received:	05/12/15
Units:	ug/L	Analyzed:	05/14/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	2.4	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	0.5	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	1.8	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	112	75-139
Toluene-d8	102	80-120
Bromofluorobenzene	118	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	X2A	Units:	ug/L
Lab ID:	266747-010	Sampled:	05/11/15
Matrix:	Water	Received:	05/12/15

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Chloromethane	ND	1.0	1.000	223111	05/13/15
Vinyl Chloride	510	7.1	14.29	223241	05/18/15
Bromomethane	ND	1.0	1.000	223111	05/13/15
Chloroethane	ND	1.0	1.000	223111	05/13/15
Trichlorofluoromethane	ND	1.0	1.000	223111	05/13/15
Freon 113	ND	2.0	1.000	223111	05/13/15
1,1-Dichloroethene	ND	0.5	1.000	223111	05/13/15
Methylene Chloride	ND	20	1.000	223111	05/13/15
trans-1,2-Dichloroethene	ND	0.5	1.000	223111	05/13/15
1,1-Dichloroethane	0.6	0.5	1.000	223111	05/13/15
cis-1,2-Dichloroethene	5.2	0.5	1.000	223111	05/13/15
Chloroform	ND	1.0	1.000	223111	05/13/15
1,1,1-Trichloroethane	ND	0.5	1.000	223111	05/13/15
Carbon Tetrachloride	ND	0.5	1.000	223111	05/13/15
1,2-Dichloroethane	ND	0.5	1.000	223111	05/13/15
Trichloroethene	ND	0.5	1.000	223111	05/13/15
1,2-Dichloropropane	ND	0.5	1.000	223111	05/13/15
Bromodichloromethane	ND	0.5	1.000	223111	05/13/15
cis-1,3-Dichloropropene	ND	0.5	1.000	223111	05/13/15
trans-1,3-Dichloropropene	ND	0.5	1.000	223111	05/13/15
1,1,2-Trichloroethane	ND	0.5	1.000	223111	05/13/15
Tetrachloroethene	ND	0.5	1.000	223111	05/13/15
Dibromochloromethane	ND	0.5	1.000	223111	05/13/15
Chlorobenzene	17	0.5	1.000	223111	05/13/15
Bromoform	ND	0.5	1.000	223111	05/13/15
1,1,2,2-Tetrachloroethane	ND	0.5	1.000	223111	05/13/15
1,3-Dichlorobenzene	ND	0.5	1.000	223111	05/13/15
1,4-Dichlorobenzene	ND	0.5	1.000	223111	05/13/15
1,2-Dichlorobenzene	19	0.5	1.000	223111	05/13/15
1,2,4-Trichlorobenzene	ND	2.0	4.000	223176	05/14/15
1,2,3-Trichlorobenzene	ND	2.0	4.000	223176	05/14/15

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
1,2-Dichloroethane-d4	92	75-139	1.000	223111	05/13/15
Toluene-d8	102	80-120	1.000	223111	05/13/15
Bromofluorobenzene	108	80-120	1.000	223111	05/13/15

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	X1B	Batch#:	223297
Lab ID:	266747-011	Sampled:	05/11/15
Matrix:	Water	Received:	05/12/15
Units:	ug/L	Analyzed:	05/19/15
Diln Fac:	4.000		

Analyte	Result	RL
Chloromethane	ND	4.0
Vinyl Chloride	340	2.0
Bromomethane	ND	4.0
Chloroethane	ND	4.0
Trichlorofluoromethane	ND	4.0
Freon 113	ND	8.0
1,1-Dichloroethene	ND	2.0
Methylene Chloride	ND	80
trans-1,2-Dichloroethene	10	2.0
1,1-Dichloroethane	ND	2.0
cis-1,2-Dichloroethene	250	2.0
Chloroform	ND	4.0
1,1,1-Trichloroethane	ND	2.0
Carbon Tetrachloride	ND	2.0
1,2-Dichloroethane	ND	2.0
Trichloroethene	ND	2.0
1,2-Dichloropropane	ND	2.0
Bromodichloromethane	ND	2.0
cis-1,3-Dichloropropene	ND	2.0
trans-1,3-Dichloropropene	ND	2.0
1,1,2-Trichloroethane	ND	2.0
Tetrachloroethene	ND	2.0
Dibromochloromethane	ND	2.0
Chlorobenzene	ND	2.0
Bromoform	ND	2.0
1,1,2,2-Tetrachloroethane	ND	2.0
1,3-Dichlorobenzene	ND	2.0
1,4-Dichlorobenzene	ND	2.0
1,2-Dichlorobenzene	3.4	2.0
1,2,4-Trichlorobenzene	3.0	2.0
1,2,3-Trichlorobenzene	ND	2.0

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	96	75-139
Toluene-d8	99	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	DW-7	Batch#:	223297
Lab ID:	266747-012	Sampled:	05/11/15
Matrix:	Water	Received:	05/12/15
Units:	ug/L	Analyzed:	05/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	17	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	1.3	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	34	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	2.0	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	91	75-139
Toluene-d8	95	80-120
Bromofluorobenzene	111	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	16-D	Units:	ug/L
Lab ID:	266747-013	Sampled:	05/11/15
Matrix:	Water	Received:	05/12/15

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Chloromethane	ND	1.0	1.000	223111	05/13/15
Vinyl Chloride	210	1.7	3.333	223297	05/20/15
Bromomethane	ND	1.0	1.000	223111	05/13/15
Chloroethane	ND	1.0	1.000	223111	05/13/15
Trichlorofluoromethane	ND	1.0	1.000	223111	05/13/15
Freon 113	ND	2.0	1.000	223111	05/13/15
1,1-Dichloroethene	ND	0.5	1.000	223111	05/13/15
Methylene Chloride	ND	20	1.000	223111	05/13/15
trans-1,2-Dichloroethene	3.0	0.5	1.000	223111	05/13/15
1,1-Dichloroethane	0.8	0.5	1.000	223111	05/13/15
cis-1,2-Dichloroethene	18	0.5	1.000	223111	05/13/15
Chloroform	ND	1.0	1.000	223111	05/13/15
1,1,1-Trichloroethane	ND	0.5	1.000	223111	05/13/15
Carbon Tetrachloride	ND	0.5	1.000	223111	05/13/15
1,2-Dichloroethane	ND	0.5	1.000	223111	05/13/15
Trichloroethene	ND	0.5	1.000	223111	05/13/15
1,2-Dichloropropane	ND	0.5	1.000	223111	05/13/15
Bromodichloromethane	ND	0.5	1.000	223111	05/13/15
cis-1,3-Dichloropropene	ND	0.5	1.000	223111	05/13/15
trans-1,3-Dichloropropene	ND	0.5	1.000	223111	05/13/15
1,1,2-Trichloroethane	ND	0.5	1.000	223111	05/13/15
Tetrachloroethene	ND	0.5	1.000	223111	05/13/15
Dibromochloromethane	ND	0.5	1.000	223111	05/13/15
Chlorobenzene	ND	0.5	1.000	223111	05/13/15
Bromoform	ND	0.5	1.000	223111	05/13/15
1,1,2,2-Tetrachloroethane	ND	0.5	1.000	223111	05/13/15
1,3-Dichlorobenzene	ND	0.5	1.000	223111	05/13/15
1,4-Dichlorobenzene	ND	0.5	1.000	223111	05/13/15
1,2-Dichlorobenzene	2.2	0.5	1.000	223111	05/13/15
1,2,4-Trichlorobenzene	ND	1.7	3.333	223297	05/20/15
1,2,3-Trichlorobenzene	ND	1.7	3.333	223297	05/20/15

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
1,2-Dichloroethane-d4	91	75-139	1.000	223111	05/13/15
Toluene-d8	102	80-120	1.000	223111	05/13/15
Bromofluorobenzene	108	80-120	1.000	223111	05/13/15

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	TB-1	Batch#:	223356
Lab ID:	266747-014	Sampled:	05/11/15
Matrix:	Water	Received:	05/12/15
Units:	ug/L	Analyzed:	05/20/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	93	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	107	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	223111
Units:	ug/L	Analyzed:	05/13/15
Diln Fac:	1.000		

Type: BS Lab ID: QC787719

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	10.85	87	66-135
Trichloroethene	12.50	11.83	95	80-123
Chlorobenzene	12.50	12.83	103	80-123
1,2,4-Trichlorobenzene	12.50	9.305	74	66-133
1,2,3-Trichlorobenzene	12.50	7.640 b	61 *	64-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	89	75-139
Toluene-d8	101	80-120
Bromofluorobenzene	106	80-120

Type: BSD Lab ID: QC787720

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	11.02	88	66-135	2	24
Trichloroethene	12.50	11.79	94	80-123	0	20
Chlorobenzene	12.50	12.81	102	80-123	0	20
1,2,4-Trichlorobenzene	12.50	9.652	77	66-133	4	24
1,2,3-Trichlorobenzene	12.50	7.537 b	60 *	64-134	1	25

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	75-139
Toluene-d8	103	80-120
Bromofluorobenzene	107	80-120

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC787721	Batch#:	223111
Matrix:	Water	Analyzed:	05/13/15
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	89	75-139
Toluene-d8	103	80-120
Bromofluorobenzene	108	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	28-MW	Batch#:	223111
MSS Lab ID:	266747-005	Sampled:	05/11/15
Matrix:	Water	Received:	05/12/15
Units:	ug/L	Analyzed:	05/13/15
Diln Fac:	1.000		

Type: MS Lab ID: QC787803

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1268	12.50	10.59	85	73-129
Trichloroethene	0.5036	12.50	11.96	92	73-123
Chlorobenzene	5.110	12.50	17.16	96	80-120
1,2,4-Trichlorobenzene	<0.1000	12.50	8.225	66 *	68-120
1,2,3-Trichlorobenzene	<0.1000	12.50	6.438 b	52 *	68-121

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	91	75-139
Toluene-d8	101	80-120
Bromofluorobenzene	107	80-120

Type: MSD Lab ID: QC787804

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	11.25	90	73-129	6	25
Trichloroethene	12.50	12.50	96	73-123	4	20
Chlorobenzene	12.50	17.80	102	80-120	4	24
1,2,4-Trichlorobenzene	12.50	8.385	67 *	68-120	2	21
1,2,3-Trichlorobenzene	12.50	6.669 b	53 *	68-121	4	22

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	75-139
Toluene-d8	102	80-120
Bromofluorobenzene	107	80-120

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	223176
Units:	ug/L	Analyzed:	05/14/15
Diln Fac:	1.000		

Type: BS Lab ID: QC787983

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	15.00	15.35	102	66-135
Trichloroethene	15.00	15.57	104	80-123
Chlorobenzene	15.00	15.93	106	80-123
1,2,4-Trichlorobenzene	15.00	16.39	109	66-133
1,2,3-Trichlorobenzene	15.00	16.32	109	64-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	101	80-120
Bromofluorobenzene	104	80-120

Type: BSD Lab ID: QC787984

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	15.00	13.60	91	66-135	12	24
Trichloroethene	15.00	14.13	94	80-123	10	20
Chlorobenzene	15.00	14.78	99	80-123	7	20
1,2,4-Trichlorobenzene	15.00	15.39	103	66-133	6	24
1,2,3-Trichlorobenzene	15.00	15.68	105	64-134	4	25

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	104	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC787985	Batch#:	223176
Matrix:	Water	Analyzed:	05/14/15
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	103	80-120
Bromofluorobenzene	116	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	223241
Units:	ug/L	Analyzed:	05/18/15
Diln Fac:	1.000		

Type: BS Lab ID: QC788257

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	11.88	95	66-135
Trichloroethene	12.50	12.49	100	80-123
Chlorobenzene	12.50	13.32	107	80-123
1,2,4-Trichlorobenzene	12.50	9.910	79	66-133
1,2,3-Trichlorobenzene	12.50	8.374 b	67	64-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	75-139
Toluene-d8	101	80-120
Bromofluorobenzene	104	80-120

Type: BSD Lab ID: QC788258

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	11.08	89	66-135	7	24
Trichloroethene	12.50	11.83	95	80-123	5	20
Chlorobenzene	12.50	12.49	100	80-123	6	20
1,2,4-Trichlorobenzene	12.50	8.627	69	66-133	14	24
1,2,3-Trichlorobenzene	12.50	6.956 b	56 *	64-134	19	25

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	94	75-139
Toluene-d8	101	80-120
Bromofluorobenzene	105	80-120

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC788259	Batch#:	223241
Matrix:	Water	Analyzed:	05/18/15
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	90	75-139
Toluene-d8	102	80-120
Bromofluorobenzene	108	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	223297
Units:	ug/L	Analyzed:	05/19/15
Diln Fac:	1.000		

Type: BS Lab ID: QC788480

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	15.00	17.84	119	66-135
Trichloroethene	15.00	15.42	103	80-123
Chlorobenzene	15.00	15.30	102	80-123
1,2,4-Trichlorobenzene	15.00	15.04	100	66-133
1,2,3-Trichlorobenzene	15.00	14.82	99	64-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	89	75-139
Toluene-d8	93	80-120
Bromofluorobenzene	95	80-120

Type: BSD Lab ID: QC788481

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	15.00	17.41	116	66-135	2	24
Trichloroethene	15.00	14.84	99	80-123	4	20
Chlorobenzene	15.00	15.21	101	80-123	1	20
1,2,4-Trichlorobenzene	15.00	15.99	107	66-133	6	24
1,2,3-Trichlorobenzene	15.00	15.52	104	64-134	5	25

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	85	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	103	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC788482	Batch#:	223297
Matrix:	Water	Analyzed:	05/19/15
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	84	75-139
Toluene-d8	101	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	223356
Units:	ug/L	Analyzed:	05/20/15
Diln Fac:	1.000		

Type: BS Lab ID: QC788705

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	14.72	118	66-135
Trichloroethene	12.50	12.41	99	80-123
Chlorobenzene	12.50	12.21	98	80-123
1,2,4-Trichlorobenzene	12.50	12.80	102	66-133
1,2,3-Trichlorobenzene	12.50	11.76	94	64-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	90	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	101	80-120

Type: BSD Lab ID: QC788706

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.63	101	66-135	15	24
Trichloroethene	12.50	10.93	87	80-123	13	20
Chlorobenzene	12.50	11.52	92	80-123	6	20
1,2,4-Trichlorobenzene	12.50	11.42	91	66-133	11	24
1,2,3-Trichlorobenzene	12.50	11.26	90	64-134	4	25

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	82	75-139
Toluene-d8	95	80-120
Bromofluorobenzene	98	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC788707	Batch#:	223356
Matrix:	Water	Analyzed:	05/20/15
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	87	75-139
Toluene-d8	99	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Organic Carbon (TOC)

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	METHOD
Project#:	39751	Analysis:	SM5310C
Analyte:	Total Organic Carbon	Batch#:	223339
Matrix:	Water	Sampled:	05/11/15
Units:	mg/L	Received:	05/12/15

Field ID	Type	Lab ID	Result	RL	Diln Fac	Analyzed
23-S	SAMPLE	266747-001	3.1	0.50	1.000	05/20/15
23-D	SAMPLE	266747-002	0.71	0.50	1.000	05/21/15
DUP-1	SAMPLE	266747-003	0.86	0.50	1.000	05/20/15
DW-1	SAMPLE	266747-004	12	5.0	10.00	05/20/15
28-MW	SAMPLE	266747-005	8.9	0.50	1.000	05/20/15
PMW-2-1	SAMPLE	266747-006	2.3	0.50	1.000	05/20/15
PMW-2-3	SAMPLE	266747-007	0.89	0.50	1.000	05/20/15
DW-2	SAMPLE	266747-008	16	0.50	1.000	05/20/15
X2B1	SAMPLE	266747-009	37	5.0	10.00	05/21/15
X2A	SAMPLE	266747-010	4.4	0.50	1.000	05/20/15
X1B	SAMPLE	266747-011	2.0	0.50	1.000	05/20/15
DW-7	SAMPLE	266747-012	1.0	0.50	1.000	05/20/15
16-D	SAMPLE	266747-013	1.9	0.50	1.000	05/20/15
	BLANK	QC788631	ND	0.50	1.000	05/20/15

ND= Not Detected
RL= Reporting Limit

28.5

Curtis & Tompkins, Ltd.

Batch QC Report

Total Organic Carbon (TOC)

Lab #:	266747	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	METHOD
Project#:	39751	Analysis:	SM5310C
Analyte:	Total Organic Carbon	Diln Fac:	1.000
Field ID:	23-S	Batch#:	223339
MSS Lab ID:	266747-001	Sampled:	05/11/15
Matrix:	Water	Received:	05/12/15
Units:	mg/L	Analyzed:	05/20/15

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC788632		10.00	10.49	105	90-110		
MS	QC788633	3.101	2.000	5.366	113	35-129		
MSD	QC788634		2.000	5.520	121	35-129	3	44

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 267017
ANALYTICAL REPORT

Haley & Aldrich, Inc. 1956 Webster Street Oakland, CA 94612	Project : 39751 Location : 901 Thompson Place Level : II

Sample ID	Lab ID
16-S	267017-001
TB-1	267017-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 05/29/2015

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**267017**
Client:	**Haley & Aldrich, Inc.**
Project:	**39751**
Location:	**901 Thompson Place**
Request Date:	**05/23/15**
Samples Received:	**05/23/15**

This data package contains sample and QC results for two water samples, requested for the above referenced project on 05/23/15. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Total Organic Carbon (TOC) (SM5310C):
No analytical problems were encountered.

267017

BLAINE TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 150521-BW1

CLIENT: Haley & Aldrich

SITE: 901 Thompson Place, Sunnyvale, CA

CONDUCT ANALYSIS TO DETECT

LAB: C & T

DHS #

MUST MEET SPECIFICATIONS: ☒ EPA ☐ LIA ☐ OTHER ☐ RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

SAMPLE I.D.	DATE	TIME	MATRIX S = Soil W = H2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	VOCs (8010 list by EPA 8260B)	TOC (415.1)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
16-S	5/21/15	0845	W	~~4~~	VOA+TOC		X	X										
TB-1	5/21/15	0730	W	2	VOA		X											

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	5/21/15	0845	Brian Weeks	Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	5/21/15	1450	[signature] Sample Custodian	5/21/15	1450
[signature]	5/22/15	1300	[signature]	5/22/15	1300
[signature]	5/22/15	1600	[signature]	5/22/15	1600

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

Intact [illegible]

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 267017 Date Received 5/22/15 Number of coolers 1
Client Haley & Aldrich Project 901 Thompson Place

Date Opened 5/22 By (print) BL (sign) [illegible]
Date Logged in ✓ By (print) ✓ (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) _____ (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 5.3

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are there any missing / extra samples? _____ YES (NO)
11. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
12. Are sample labels present, in good condition and complete? _____ (YES) NO
13. Do the sample labels agree with custody papers? _____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
15. Are the samples appropriately preserved? _____ (YES) NO ~~N/A~~
16. Did you check preservatives for all bottles for each sample? _____ (YES) NO ~~N/A~~ BL
17. Did you document your preservative check? _____ (YES) NO ~~N/A~~
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ (YES) NO ~~N/A~~
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO ~~N/A~~
20. Are bubbles > 6mm absent in VOA samples? _____ (YES) NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

Rev 10, 9/12

Curtis & Tompkins Sample Preservation for 267017

Sample	pH: <2	>9	>12	Other
-001a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____

Analyst: BL
Date: 5/23/15

Curtis & Tompkins, Ltd.

Detections Summary for 267017

Results for any subcontracted analyses are not included in this summary.

Client : Haley & Aldrich, Inc.
Project : 39751
Location : 901 Thompson Place

Client Sample ID : 16-S Laboratory Sample ID : 267017-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	10		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	2.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chlorobenzene	15		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,4-Dichlorobenzene	2.0		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	9.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Total Organic Carbon	9.2		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : TB-1 Laboratory Sample ID : 267017-002

No Detections

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	267017	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	16-S	Batch#:	223498
Lab ID:	267017-001	Sampled:	05/21/15
Matrix:	Water	Received:	05/23/15
Units:	ug/L	Analyzed:	05/26/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	10	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	2.2	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	15	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	2.0	0.5
1,2-Dichlorobenzene	9.2	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	94	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	106	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	267017	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	TB-1	Batch#:	223498
Lab ID:	267017-002	Sampled:	05/21/15
Matrix:	Water	Received:	05/23/15
Units:	ug/L	Analyzed:	05/26/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	91	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	107	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	267017	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	223498
Units:	ug/L	Analyzed:	05/26/15
Diln Fac:	1.000		

Type: BS Lab ID: QC789252

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	25.69	103	66-135
Trichloroethene	25.00	26.71	107	80-123
Chlorobenzene	25.00	27.61	110	80-123
1,2,4-Trichlorobenzene	25.00	19.59	78	66-133
1,2,3-Trichlorobenzene	25.00	16.53	66	64-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	98	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	105	80-120

Type: BSD Lab ID: QC789253

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	24.25	97	66-135	6	24
Trichloroethene	25.00	24.83	99	80-123	7	20
Chlorobenzene	25.00	25.51	102	80-123	8	20
1,2,4-Trichlorobenzene	25.00	19.84	79	66-133	1	24
1,2,3-Trichlorobenzene	25.00	18.43	74	64-134	11	25

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	94	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	115	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	267017	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC789254	Batch#:	223498
Matrix:	Water	Analyzed:	05/26/15
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	95	75-139
Toluene-d8	99	80-120
Bromofluorobenzene	106	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Organic Carbon (TOC)

Lab #:	267017	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	METHOD
Project#:	39751	Analysis:	SM5310C
Analyte:	Total Organic Carbon	Batch#:	223627
Field ID:	16-S	Sampled:	05/21/15
Matrix:	Water	Received:	05/23/15
Units:	mg/L	Analyzed:	05/28/15
Diln Fac:	1.000		

Type	Lab ID	Result	RL
SAMPLE	267017-001	9.2	0.50
BLANK	QC789766	ND	0.50

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Organic Carbon (TOC)

Lab #:	267017	Location:	901 Thompson Place
Client:	Haley & Aldrich, Inc.	Prep:	METHOD
Project#:	39751	Analysis:	SM5310C
Analyte:	Total Organic Carbon	Diln Fac:	1.000
Field ID:	16-S	Batch#:	223627
MSS Lab ID:	267017-001	Sampled:	05/21/15
Matrix:	Water	Received:	05/23/15
Units:	mg/L	Analyzed:	05/28/15

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC789767		10.00	10.32	103	90-110		
MS	QC789768	9.220	2.000	11.65	121 NM	35-129		
MSD	QC789769		2.000	11.79	128 NM	35-129	1	44

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Microseeps/Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

May 22, 2015

Michael Calhoun
Haley & Aldrich
1956 Webster St
Suite 450
Oakland, CA 94612

RE: **901 THOMPSON PLACE**
Microseeps Workorder: 15502

Dear Michael Calhoun:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, May 12, 2015. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robbin Robl 05/22/2015
rrobl@microseeps.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email info@microseeps.com.

Total Number of Pages 23

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Microseeps/Pace Analytical Energy Services, LLC.

Microseeps/Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

CERTIFICATE OF ANALYSIS

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Microseeps/Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

SAMPLE SUMMARY

Workorder: 15502 901 THOMPSON PLACE

Lab ID	Sample ID	Matrix	Date Collected	Date Received
155020001	23-S	Water	5/11/2015 09:50	5/12/2015 11:00
155020002	23-D	Water	5/11/2015 13:00	5/12/2015 11:00
155020003	DW-1	Water	5/11/2015 13:25	5/12/2015 11:00
155020004	28-MW	Water	5/11/2015 10:25	5/12/2015 11:00
155020005	PMW-2-1	Water	5/11/2015 14:10	5/12/2015 11:00
155020006	PMW-2-3	Water	5/11/2015 14:50	5/12/2015 11:00
155020007	DW-2	Water	5/11/2015 11:15	5/12/2015 11:00
155020008	X2B1	Water	5/11/2015 15:14	5/12/2015 11:00
155020009	X2-A	Water	5/11/2015 11:50	5/12/2015 11:00
155020010	X1B	Water	5/11/2015 14:09	5/12/2015 11:00
155020011	DW-7	Water	5/11/2015 15:20	5/12/2015 11:00
155020012	16-D	Water	5/11/2015 14:39	5/12/2015 11:00

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Fax: (412) 826-3433

PROJECT SUMMARY

Workorder: 15502 901 THOMPSON PLACE

Workorder Comments

The container pH for samples 15502 (0004, 0007-0008) were measured as outside the expected pH range, as assigned to PAES method AM20GAx.

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ANALYTICAL RESULTS

Workorder: 15502 901 THOMPSON PLACE

Lab ID: **155020001** Date Received: 5/12/2015 11:00 Matrix: Water
Sample ID: **23-S** Date Collected: 5/11/2015 09:50

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**3.2**	ug/l	0.50	0.042	1	5/20/2015 09:25	BW	n
Ethane	**0.026J**	ug/l	0.10	0.0020	1	5/20/2015 09:25	BW	n
Ethene	**0.031J**	ug/l	0.10	0.0030	1	5/20/2015 09:25	BW	n

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ANALYTICAL RESULTS

Workorder: 15502 901 THOMPSON PLACE

Lab ID: **155020002** Date Received: 5/12/2015 11:00 Matrix: Water
Sample ID: **23-D** Date Collected: 5/11/2015 13:00

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**2.0**	ug/l	0.50	0.042	1	5/20/2015 09:35	BW	n
Ethane	**0.080J**	ug/l	0.10	0.0020	1	5/20/2015 09:35	BW	n
Ethene	**0.15**	ug/l	0.10	0.0030	1	5/20/2015 09:35	BW	n

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ANALYTICAL RESULTS

Workorder: 15502 901 THOMPSON PLACE

Lab ID: **155020003** Date Received: 5/12/2015 11:00 Matrix: Water
Sample ID: **DW-1** Date Collected: 5/11/2015 13:25

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**7600**	ug/l	0.50	0.042	1	5/20/2015 09:47	BW	n
Ethane	**2.4**	ug/l	0.10	0.0020	1	5/20/2015 09:47	BW	n
Ethene	**0.042J**	ug/l	0.10	0.0030	1	5/20/2015 09:47	BW	n

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ANALYTICAL RESULTS

Workorder: 15502 901 THOMPSON PLACE

Lab ID: **155020004** Date Received: 5/12/2015 11:00 Matrix: Water

Sample ID: **28-MW** Date Collected: 5/11/2015 10:25

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**3500**	ug/l	0.50	0.042	1	5/20/2015 09:58	BW	n
Ethane	**1.6**	ug/l	0.10	0.0020	1	5/20/2015 09:58	BW	n
Ethene	**0.60**	ug/l	0.10	0.0030	1	5/20/2015 09:58	BW	n

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ANALYTICAL RESULTS

Workorder: 15502 901 THOMPSON PLACE

Lab ID: **155020005** Date Received: 5/12/2015 11:00 Matrix: Water

Sample ID: **PMW-2-1** Date Collected: 5/11/2015 14:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**11000**	ug/l	0.50	0.042	1	5/20/2015 10:50	BW	n
Ethane	**17**	ug/l	0.10	0.0020	1	5/20/2015 10:50	BW	n
Ethene	**58**	ug/l	0.10	0.0030	1	5/20/2015 10:50	BW	n

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ANALYTICAL RESULTS

Workorder: 15502 901 THOMPSON PLACE

Lab ID: **155020006** Date Received: 5/12/2015 11:00 Matrix: Water

Sample ID: **PMW-2-3** Date Collected: 5/11/2015 14:50

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**35**	ug/l	0.50	0.042	1	5/20/2015 10:59	BW	n
Ethane	**0.15**	ug/l	0.10	0.0020	1	5/20/2015 10:59	BW	n
Ethene	**2.4**	ug/l	0.10	0.0030	1	5/20/2015 10:59	BW	n

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ANALYTICAL RESULTS

Workorder: 15502 901 THOMPSON PLACE

Lab ID: **155020007** Date Received: 5/12/2015 11:00 Matrix: Water
Sample ID: **DW-2** Date Collected: 5/11/2015 11:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**18000**	ug/l	0.50	0.042	1	5/20/2015 11:15	BW	n
Ethane	**250**	ug/l	0.10	0.0020	1	5/20/2015 11:15	BW	n
Ethene	**1.7**	ug/l	0.10	0.0030	1	5/20/2015 11:15	BW	n

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ANALYTICAL RESULTS

Workorder: 15502 901 THOMPSON PLACE

Lab ID: **155020008** Date Received: 5/12/2015 11:00 Matrix: Water
Sample ID: **X2B1** Date Collected: 5/11/2015 15:14

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**17000**	ug/l	0.50	0.042	1	5/20/2015 11:24	BW	n
Ethane	**12**	ug/l	0.10	0.0020	1	5/20/2015 11:24	BW	n
Ethene	**1.1**	ug/l	0.10	0.0030	1	5/20/2015 11:24	BW	n

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ANALYTICAL RESULTS

Workorder: 15502 901 THOMPSON PLACE

Lab ID: **155020009** Date Received: 5/12/2015 11:00 Matrix: Water
Sample ID: **X2-A** Date Collected: 5/11/2015 11:50

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**2300**	ug/l	0.50	0.042	1	5/20/2015 11:35	BW	n
Ethane	**3.2**	ug/l	0.10	0.0020	1	5/20/2015 11:35	BW	n
Ethene	**61**	ug/l	0.10	0.0030	1	5/20/2015 11:35	BW	n

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ANALYTICAL RESULTS

Workorder: 15502 901 THOMPSON PLACE

Lab ID: **155020010** Date Received: 5/12/2015 11:00 Matrix: Water
Sample ID: **X1B** Date Collected: 5/11/2015 14:09

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**4000**	ug/l	0.50	0.042	1	5/20/2015 11:49	BW	n
Ethane	**5.9**	ug/l	0.10	0.0020	1	5/20/2015 11:49	BW	n
Ethene	**56**	ug/l	0.10	0.0030	1	5/20/2015 11:49	BW	n

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ANALYTICAL RESULTS

Workorder: 15502 901 THOMPSON PLACE

Lab ID: **155020011** Date Received: 5/12/2015 11:00 Matrix: Water

Sample ID: **DW-7** Date Collected: 5/11/2015 15:20

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**9.4**	ug/l	0.50	0.042	1	5/20/2015 11:59	BW	n
Ethane	**0.15**	ug/l	0.10	0.0020	1	5/20/2015 11:59	BW	n
Ethene	**0.25**	ug/l	0.10	0.0030	1	5/20/2015 11:59	BW	n

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ANALYTICAL RESULTS

Workorder: 15502 901 THOMPSON PLACE

Lab ID: **155020012** Date Received: 5/12/2015 11:00 Matrix: Water
Sample ID: **16-D** Date Collected: 5/11/2015 14:39

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**33**	ug/l	0.50	0.042	1	5/20/2015 12:09	BW	n
Ethane	**0.016J**	ug/l	0.10	0.0020	1	5/20/2015 12:09	BW	n
Ethene	**0.16**	ug/l	0.10	0.0030	1	5/20/2015 12:09	BW	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 15502 901 THOMPSON PLACE

DEFINITIONS/QUALIFIERS

Disclaimer : The Pennsylvania Department of Environmental Protection (PADEP) has decided to no longer recognize analyses that do not produce data for primary compliance, for NELAP accreditation. The methods affected by this decision are AM20GAx, AM21G, SW846 7199 and AM4.02. The laboratory shall continue to administer the NELAP/TNI standard requirements in the performance of these methods.

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA

Workorder: 15502 901 THOMPSON PLACE

QC Batch: DISG/4576 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 155020001, 155020002, 155020003, 155020004, 155020005, 155020006, 155020007, 155020008, 155020009, 155020010, 155020011, 155020012

METHOD BLANK: 35004

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.50 U	0.50	n
Ethane	ug/l	0.10 U	0.10	n
Ethene	ug/l	0.10 U	0.10	n

LABORATORY CONTROL SAMPLE & LCSD: 35005 35006

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	750	680	710	91	95	80-120	4.3	20	n
Ethane	ug/l	38	36	38	96	100	80-120	4.1	20	n
Ethene	ug/l	35	34	36	96	101	80-120	5.1	20	n

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 15502 901 THOMPSON PLACE

QUALITY CONTROL PARAMETER QUALIFIERS

n The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 15502 901 THOMPSON PLACE

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
155020001	23-S			AM20GAX	DISG/4576
155020002	23-D			AM20GAX	DISG/4576
155020003	DW-1			AM20GAX	DISG/4576
155020004	28-MW			AM20GAX	DISG/4576
155020005	PMW-2-1			AM20GAX	DISG/4576
155020006	PMW-2-3			AM20GAX	DISG/4576
155020007	DW-2			AM20GAX	DISG/4576
155020008	X2B1			AM20GAX	DISG/4576
155020009	X2-A			AM20GAX	DISG/4576
155020010	X1B			AM20GAX	DISG/4576
155020011	DW-7			AM20GAX	DISG/4576
155020012	16-D			AM20GAX	DISG/4576

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15502

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 150511-ND1

CLIENT Haley & Aldrich

SITE 901 Thompson Place
Sunnyvale, CA

LAB Pace

DHS #

MUST MEET SPECIFICATIONS
- [x] EPA
- [ ] LIA
- [ ] OTHER
- [ ] RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

	SAMPLE I.D.	DATE	TIME	MATRIX S = Soil W = H2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: Methane, Ethane, Ethene (AM20GAX)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
1	23-S	5/11/15	0950	W	3	VOAs		X				
2	23-D		1300	W	3			X				
3	DW-1		1325	W	3			X				
4	28-MW		1025	W	3			X				
5	PMW-2-1		1410	W	3			X				
6	PMW-2-3		1450	W	3			X				
7	DW-2		1115	W	3			X				
8	X2B1		1514	W	3			X				
9	X2-A		1150	W	3			X				
10	X1B		1409	W	3			X				

SAMPLING COMPLETED DATE 5/11/15 TIME 1520

SAMPLING PERFORMED BY N. Drachenberg, GR, JN, TD

RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	5/11/15	1700	[signature] PAS	5.12.15	1100

SHIPPED VIA | DATE SENT | TIME SENT | COOLER # 2.4°C

15502

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 150511-ND1

CLIENT Haley & Aldrich

SITE 901 Thompson Place
Sunnyvale, CA

CONDUCT ANALYSIS TO DETECT: Methane, Ethane, Ethene (AM20GAX)

LAB Pace

DHS #

MUST MEET SPECIFICATIONS
- [x] EPA
- [ ] LIA
- [ ] OTHER
- [ ] RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

SAMPLE I.D.	DATE	TIME	MATRIX (S = Soil, W = H2O)	CONTAINERS TOTAL	CONTAINERS	C = COMPOSITE ALL CONTAINERS	Methane, Ethane, Ethene (AM20GAX)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
11 DW-7	5/11/15	1520	W	3	VOAs		X				
12 16-D	5/11/15	1439	W	3	↓		X				

SAMPLING COMPLETED DATE 5/11/15 TIME 1520

SAMPLING PERFORMED BY N. Drachenberg, GR, JN, TD

RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	5/11/15	1720	[signature] PACE	5.12.15	1100

SHIPPED VIA | DATE SENT | TIME SENT | COOLER #

2.4°C

Cooler Receipt Form

Client Name: Haley & Aldrich Project: 901 Thompson Ave Lab Work Order: 15502

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ Air bill Present: (Yes) No

Tracking Number: 8059 1968 3087

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 2.4°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC		✓		
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	

Comments:_____

Cooler contents examined/received by: LJ Date: 5.12.15

Project Manager Review: PR Date: 5/12/15

Microseeps/Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

June 4, 2015

Michael Calhoun
Haley & Aldrich
1956 Webster St
Suite 450
Oakland, CA 94612

RE: **901 THOMPSON PLACE**
Microseeps Workorder: 15608

Dear Michael Calhoun:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, May 22, 2015. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robbin Robl 06/04/2015 RW
rrobl@microseeps.com 6/5/15

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email info@microseeps.com.

Total Number of Pages 10

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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

SAMPLE SUMMARY

Workorder: 15608 901 THOMPSON PLACE

Lab ID	Sample ID	Matrix	Date Collected	Date Received
156080001	16-S	Water	5/21/2015 08:45	5/22/2015 12:30

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ANALYTICAL RESULTS

Workorder: 15608 901 THOMPSON PLACE

Lab ID: **156080001** Date Received: 5/22/2015 12:30 Matrix: Water
Sample ID: **16-S** Date Collected: 5/21/2015 08:45

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**780**	ug/l	0.50	0.042	1	6/2/2015 09:56	GT	n
Ethane	**0.87**	ug/l	0.10	0.0020	1	6/2/2015 09:56	GT	n
Ethene	**0.60**	ug/l	0.10	0.0030	1	6/2/2015 09:56	GT	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 15608 901 THOMPSON PLACE

DEFINITIONS/QUALIFIERS

Disclaimer : The Pennsylvania Department of Environmental Protection (PADEP) has decided to no longer recognize analyses that do not produce data for primary compliance, for NELAP accreditation. The methods affected by this decision are AM20GAx, AM21G, SW846 7199 and AM4.02. The laboratory shall continue to administer the NELAP/TNI standard requirements in the performance of these methods.

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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Fax: (412) 826-3433

QUALITY CONTROL DATA

Workorder: 15608 901 THOMPSON PLACE

QC Batch: DISG/4611 Analysis Method: AM20GAX
QC Batch Method: AM20GAX
Associated Lab Samples: 156080001

METHOD BLANK: 35288

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.50 U	0.50	n
Ethane	ug/l	0.10 U	0.10	n
Ethene	ug/l	0.10 U	0.10	n

LABORATORY CONTROL SAMPLE & LCSD: 35290 35292

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	750	730	730	98	97	80-120	1	20	n
Ethane	ug/l	38	43	43	114	113	80-120	0.88	20	n
Ethene	ug/l	35	40	39	114	112	80-120	1.8	20	n

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 15608 901 THOMPSON PLACE

QUALITY CONTROL PARAMETER QUALIFIERS

n The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 15608 901 THOMPSON PLACE

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
156080001	16-S			AM20GAX	DISG/4611

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TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

15608

CHAIN OF CUSTODY BTS # 15052(-BW)

CLIENT Haley & Aldrich

SITE 901 Thompson Place
Sunnyvale, CA

LAB Pace

DHS #

MUST MEET SPECIFICATIONS
- [x] EPA
- [ ] LIA
- [ ] OTHER
- [ ] RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

SAMPLE I.D.	DATE	TIME	MATRIX (S = Soil, W = H2O)	CONTAINERS TOTAL	CONTAINERS	C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: Methane, Ethane, Ethene (AM20GAX)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
16-S	5/21/15	0845	W	3	VOA		X										

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	5/21/15	0845	Brian Weeks	Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	5/21/15	1450	[signature] Sample Custodian	5/21/15	1450
[signature] (Sample Custodian)	5/21/15	1700	[signature]	5/22/15	1230
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #
Fed EX	5/21/15	1700	

Cooler Receipt Form

Client Name: ~~Blaino~~ Blaine Tech Project: 15052 1-Bw1 Lab Work Order: 15608

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEX) UPS USPS Client Other:_____ Air bill Present: (Yes) No

Tracking Number: 8030 3920 1404

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 2.1°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC	✓			
Containers intact	✓			
Were samples in separate bags		✓		
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	

Comments:_____

Cooler contents examined/received by : YD Date: 5/22/15

Project Manager Review : PK Date: 5/22/15

Microseeps/Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

June 5, 2015

Michael Calhoun
Haley & Aldrich
1956 Webster St
Suite 450
Oakland, CA 94612

RE: **901 THOMPSON PLACE**
Microseeps Workorder: 15695

Dear Michael Calhoun:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, May 12, 2015. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robbin Robl 06/05/2015
rrobl@microseeps.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email info@microseeps.com.

Total Number of Pages 16

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Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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Fax: (412) 826-3433

SAMPLE SUMMARY

Workorder: 15695 901 THOMPSON PLACE

Lab ID	Sample ID	Matrix	Date Collected	Date Received
156950001	DW-1 REANALYSIS	Water	5/11/2015 13:25	5/12/2015 11:00
156950002	DW-2 REANALYSIS	Water	5/11/2015 11:15	5/12/2015 11:00

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PROJECT SUMMARY

Workorder: 15695 901 THOMPSON PLACE

Workorder Comments

The container pH for samples 15695 (0002) were measured as outside the expected pH range, as assigned to PAES method AM20GAx.

Samples 15695 (0001-0002) were analyzed outside the hold time of 14 days from collection for the Light Hydrocarbons, method AM20GAx. These results represent re-analysis, as requested 05/29/2015.

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ANALYTICAL RESULTS

Workorder: 15695 901 THOMPSON PLACE

Lab ID: **156950001** Date Received: 5/12/2015 11:00 Matrix: Water

Sample ID: **DW-1 REANALYSIS** Date Collected: 5/11/2015 13:25

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**7800**	ug/l	0.50	0.042	1	6/2/2015 12:28	BW	n,H2
Ethane	**2.3**	ug/l	0.10	0.0020	1	6/2/2015 12:28	BW	n,H2
Ethene	**0.042J**	ug/l	0.10	0.0030	1	6/2/2015 12:28	BW	n,H2

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ANALYTICAL RESULTS

Workorder: 15695 901 THOMPSON PLACE

Lab ID: **156950002** Date Received: 5/12/2015 11:00 Matrix: Water

Sample ID: **DW-2 REANALYSIS** Date Collected: 5/11/2015 11:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**15000**	ug/l	0.50	0.042	1	6/2/2015 12:37	BW	n,H2
Ethane	**200**	ug/l	0.10	0.0020	1	6/2/2015 12:37	BW	n,H2
Ethene	**1.4**	ug/l	0.10	0.0030	1	6/2/2015 12:37	BW	n,H2

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 15695 901 THOMPSON PLACE

DEFINITIONS/QUALIFIERS

Disclaimer : The Pennsylvania Department of Environmental Protection (PADEP) has decided to no longer recognize analyses that do not produce data for primary compliance, for NELAP accreditation. The methods affected by this decision are AM20GAx, AM21G, SW846 7199 and AM4.02. The laboratory shall continue to administer the NELAP/TNI standard requirements in the performance of these methods.

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.
H2	The sample was received or analysis was requested outside the method specific holding time.

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QUALITY CONTROL DATA

Workorder: 15695 901 THOMPSON PLACE

QC Batch: DISG/4608 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 156950001, 156950002

METHOD BLANK: 35267

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.50 U	0.50	n
Ethane	ug/l	0.10 U	0.10	n
Ethene	ug/l	0.10 U	0.10	n

LABORATORY CONTROL SAMPLE & LCSD: 35268 35269

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	750	710	720	95	96	80-120	1	20	n
Ethane	ug/l	38	37	37	98	99	80-120	1	20	n
Ethene	ug/l	35	35	34	98	98	80-120	0	20	n

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 15695 901 THOMPSON PLACE

QUALITY CONTROL PARAMETER QUALIFIERS

n The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 15695 901 THOMPSON PLACE

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
156950001	DW-1 REANALYSIS			AM20GAX	DISG/4608
156950002	DW-2 REANALYSIS			AM20GAX	DISG/4608

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15502 / 15695

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1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 150511-ND1

CLIENT Haley & Aldrich

SITE 901 Thompson Place
Sunnyvale, CA

LAB Pace

DHS #

MUST MEET SPECIFICATIONS
☒ EPA
☐ LIA
☐ OTHER
☐ RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

	SAMPLE I.D.	DATE	TIME	MATRIX (S = Soil, W = H2O)	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: Methane, Ethane, Ethene (AM20GAX)								ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
1	23-S	5/11/15	0950	W	3	VOAs		X											
2	23-D		1300	W	3			X											
3	DW-1		1325	W	3			X											
4	28-MW		1025	W	3			X											
5	PMW-2-1		1410	W	3			X											
6	PMW-2-3		1450	W	3			X											
7	DW-2		1115	W	3			X											
8	X2B1		1514	W	3			X											
9	X2-A		1150	W	3			X											
10	X1B		1409	W	3			X											

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	5/11/15	1520	N. Drachenberg, GR, JN, TD	Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	5/11/15	1700	[signature] PAS	5.12.15	1100

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #
			2.4°C

15502 / 15695

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 150511-ND1

CLIENT Haley & Aldrich

SITE 901 Thompson Place
Sunnyvale, CA

LAB Pace

DHS #

MUST MEET SPECIFICATIONS
- [x] EPA
- [ ] LIA
- [ ] OTHER
- [ ] RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

SAMPLE I.D.	DATE	TIME	MATRIX (S = Soil, W = H2O)	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: Methane, Ethane, Ethene (AM20GAX)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
11 DW-7	5/11/15	1520	W	3	VOAs		X										
12 16-D	5/11/15	1439	W	3	↓		X										

SAMPLING COMPLETED 5/11/15 1520

SAMPLING PERFORMED BY N. Drachenberg, GR, JN, TD

RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	5/11/15	1720	[signature] PACE	5.12.15	11 02

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

2.4°C

15695

Mark Mikesell

From: Robbin Robl
Sent: Friday, May 29, 2015 4:09 PM
To: Mark Mikesell
Subject: FW: 901 Thompson Place

From: Zlotoff, Michael [mailto:MZlotoff@haleyaldrich.com]
Sent: Friday, May 29, 2015 4:02 PM
To: Robbin Robl
Cc: Calhoun, Michael
Subject: RE: 901 Thompson Place

Hi Robbin,

Please re-run samples DW-1 (lab ID 155020003) and DW-2 (lab ID 155020007) on a standard TAT. Please provide the results in a separate report (please do not issue a revised report).

Thank you,

Michael

Michael J. Zlotoff, PE
Senior Engineer

Haley & Aldrich, Inc.
2107 North First Street | Suite 380
San Jose, CA 95131-2028

T: (408) 961.4810
C: (408) 890.8400
F: (408) 453.8708

www.haleyaldrich.com

From: Robbin Robl [mailto:rrobl@microseeps.com]
Sent: Friday, May 29, 2015 12:23 PM
To: Zlotoff, Michael
Subject: RE: 901 Thompson Place

Hi Michael,

From our lab manager:

"Pulled out the vials used for analysis. All vials are labelled correctly from the receiving process, as assigned to the final report. I compared sample ID from the field and the time collected, to our internal assigned tracking number. Both samples visually are similar, no real color difference and both contain a white precipitate (from the reaction with the TSP preservative).

15695

The only way to determine if the samples may have been switched somewhere in the laboratory process or in the field collection is to rerun the samples and confirm concentration accuracy. The fact the samples were collected May 11th should not adversely affect the resulting concentrations. We shouldn't expect the re-analysis to be identical to the first run, but there is enough difference between the two samples to make comparisons."

Please let me know if you would like us to re-run the samples.

Thank you!
Robbin

From: Zlotoff, Michael [mailto:MZlotoff@haleyaldrich.com]
Sent: Friday, May 29, 2015 11:03 AM
To: Robbin Robl
Subject: RE: 901 Thompson Place

Hi Robbin,

Just wanted to follow up, did you have an opportunity to look into this?

Thank you,

Michael

Michael J. Zlotoff, PE
Senior Engineer

Haley & Aldrich, Inc.
2107 North First Street | Suite 380
San Jose, CA 95131-2028

T: (408) 961.4810
C: (408) 890.8400
F: (408) 453.8708

www.haleyaldrich.com

From: Zlotoff, Michael
Sent: Tuesday, May 26, 2015 2:11 PM
To: rrobl@microseeps.com
Subject: RE: 901 Thompson Place

Hi Robbin,

We were reviewing the results for work order 15502 versus historical data from previous sampling events and I had a couple questions for you. The results for samples DW-1 and DW-2 appear that they might be swapped based upon historical results.

- Is there any information you have to check whether the sample results for these two samples may have been swapped during login or at some point during the analysis?
- Is there anything related to how samples are labeled internally that might have resulted in the samples being inadvertently swapped?

15695

Thanks,

Michael

Michael J. Ziotoff, PE
Senior Engineer

Haley & Aldrich, Inc.
2107 North First Street | Suite 380
San Jose, CA 95131-2028

T: (408) 961.4810
C: (408) 890.8400
F: (408) 453.8708

www.haleyaldrich.com

From: Robbin Robl [mailto:rrobl@microseeps.com]
Sent: Friday, May 22, 2015 1:18 PM
To: Calhoun, Michael
Subject: 901 Thompson Place

Please see attached data and EDD.

Pace Analytical Energy Services will be closed on Monday, May 25 in honor of Memorial Day. *Please plan your sampling event accordingly as short holds will not be received until Tuesday, May 26.*

Robbin Robl
Project Manager

Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Direct: 412-826-4483
Fax: 412-826-3433
Main: 412-826-5245

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Cooler Receipt Form

Client Name: Haley & Aldrich Project: 901 Thompson Ave Lab Work Order: 15502/ 15695

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ Air bill Present: (Yes) No

Tracking Number: 8059 1968 3087

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 2.4°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC		✓		
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	

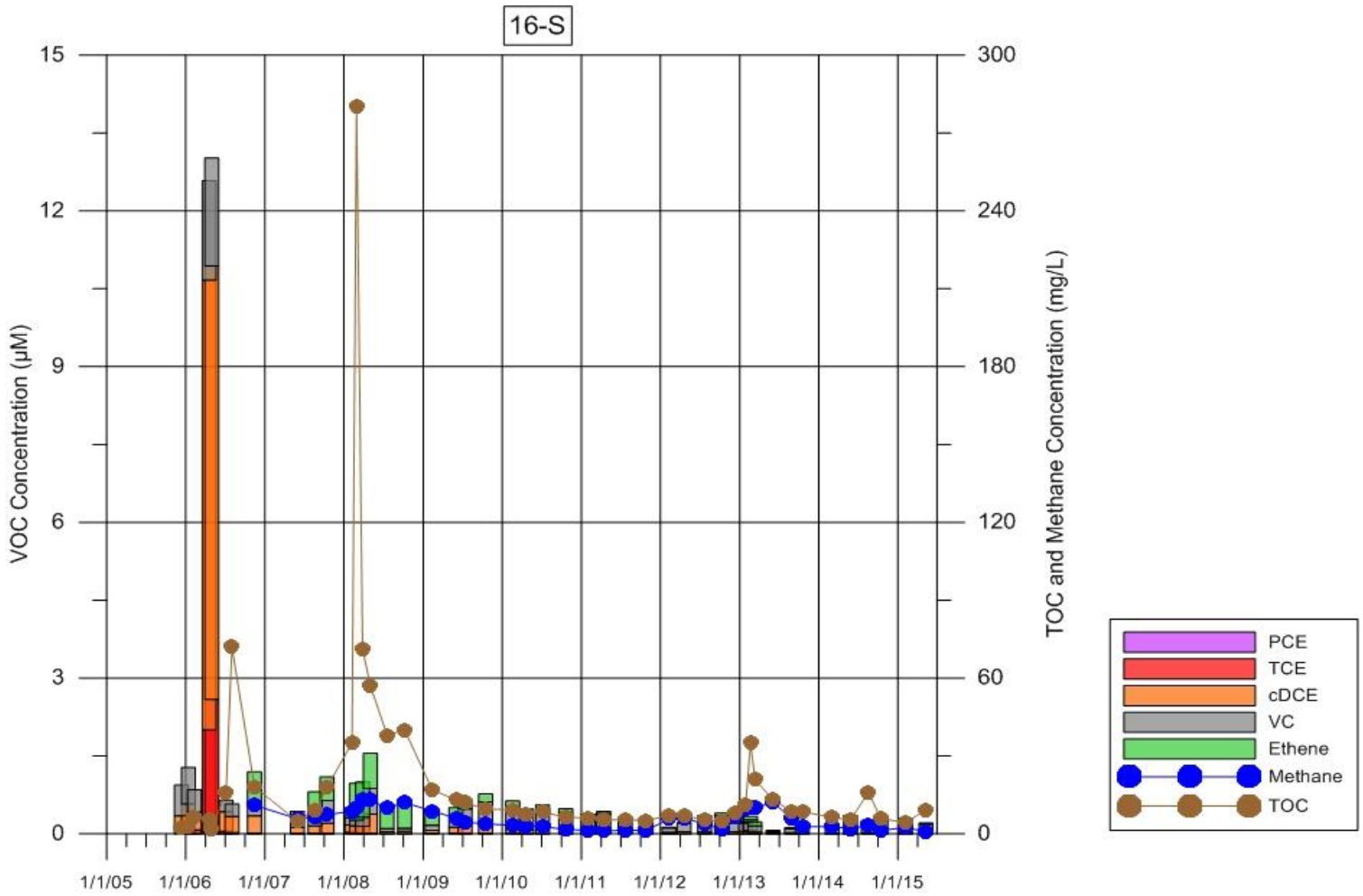
Comments:_____

Cooler contents examined/received by: LJ Date: 5.12.15

Project Manager Review: AR Date: 5/12/15

ATTACHMENT C

Concentration Trend Plots



HALEY ALDRICH

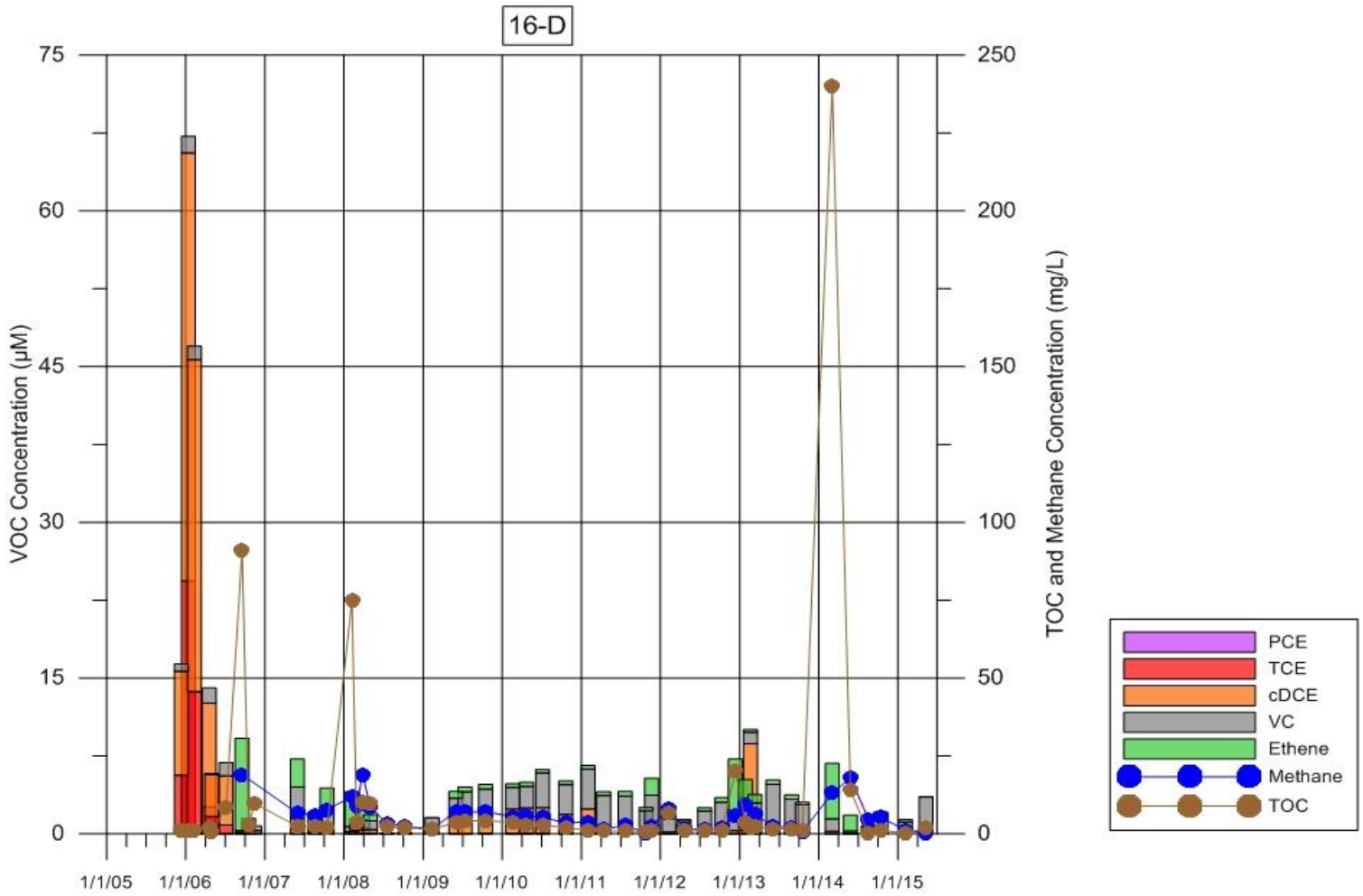
ADVANCED MICRO DEVICES, INC.
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

CONCENTRATION TREND PLOT FOR WELL16-S

JULY 2015

FIGURE C-1

G:\38945 Cooper Drum\006\cumulative mass removed plot\[Figure template.xlsx]Figure 6-1



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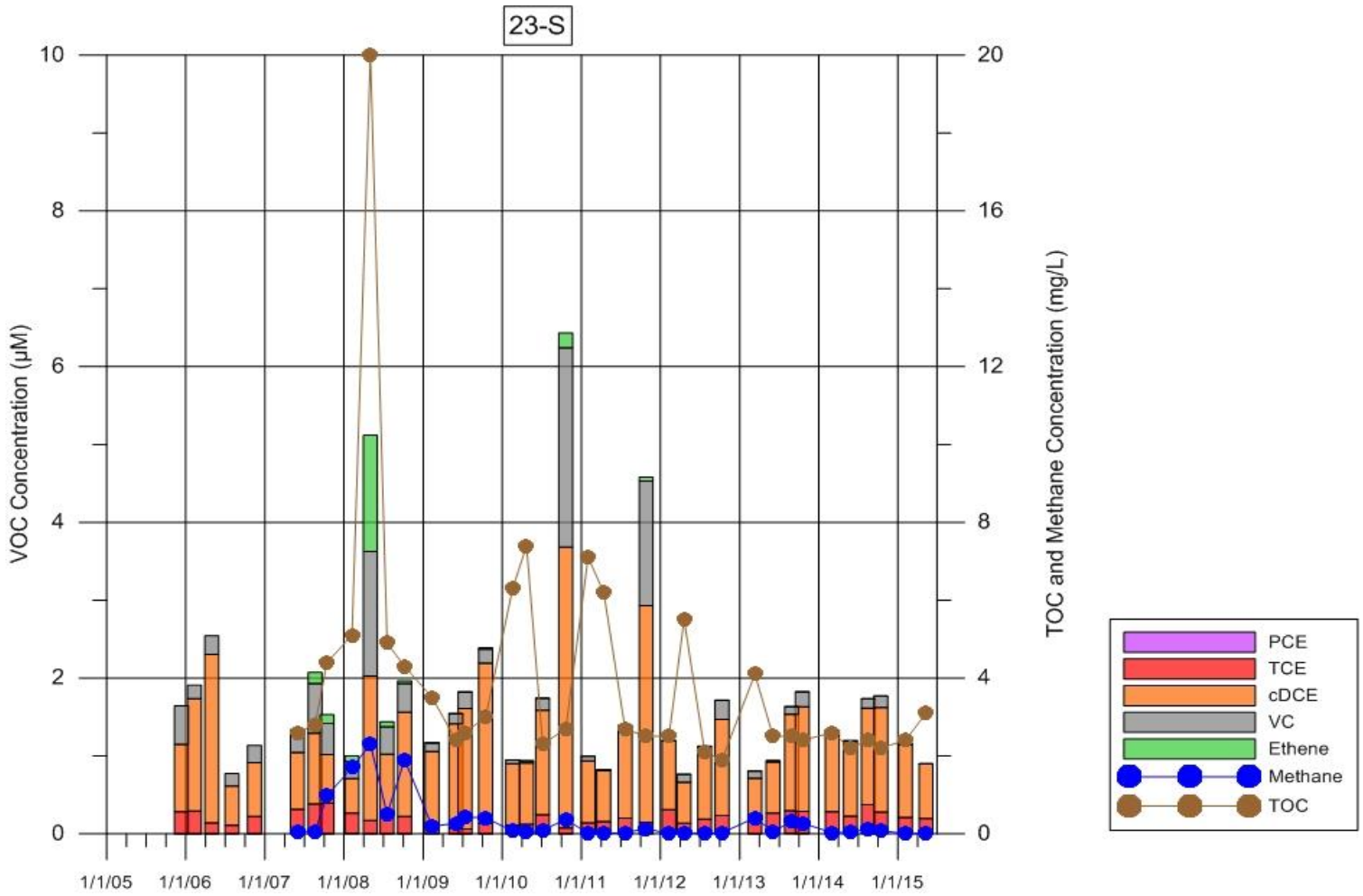
CONCENTRATION TREND PLOT FOR WELL16-D

JULY 2015

FIGURE C-2

G:\38945 Cooper Drum\006\cumulative mass removed plot\[Figure template.xlsx]Figure 6-1



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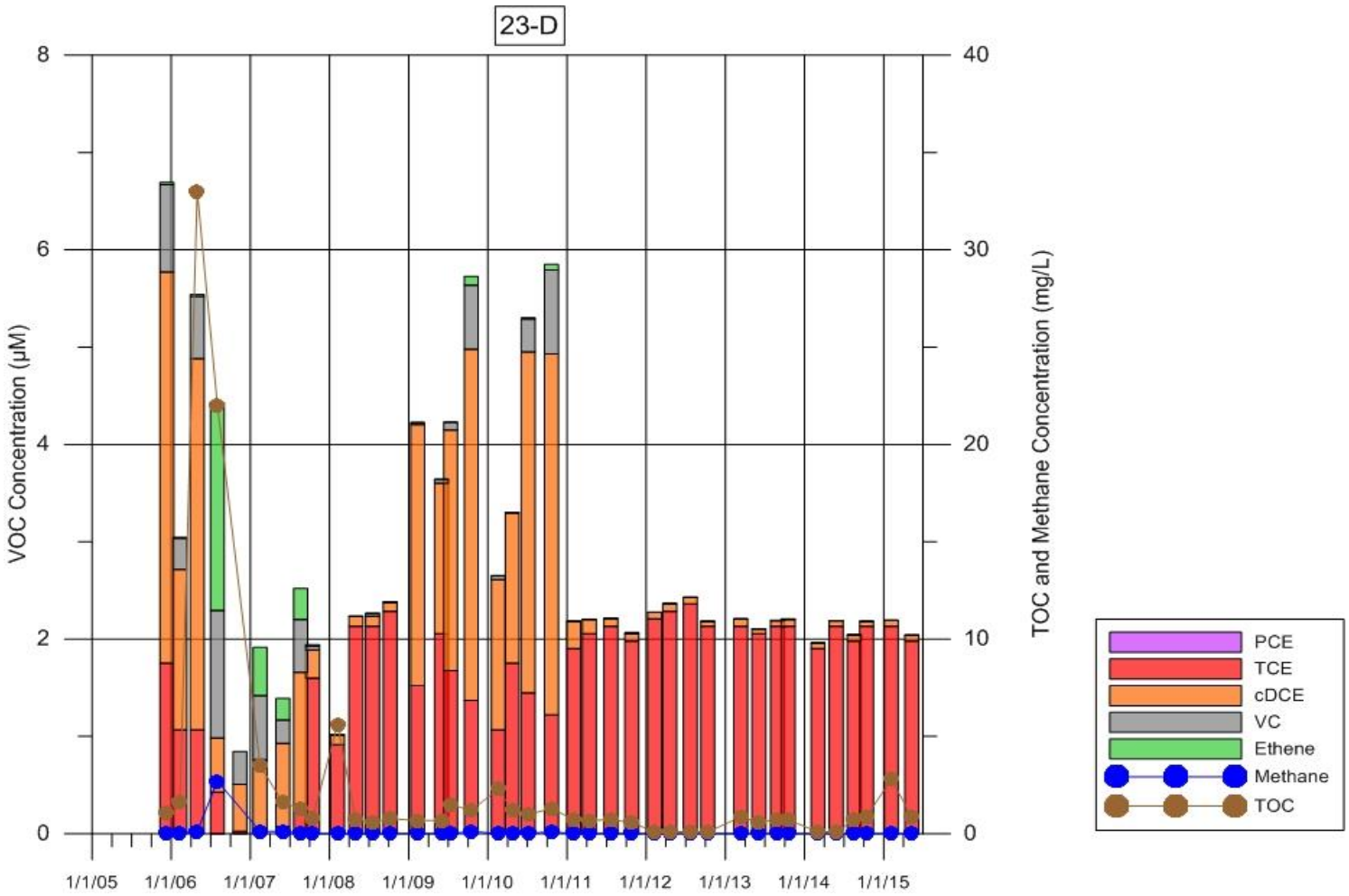
CONCENTRATION TREND PLOT FOR WELL 23-S

JULY 2015

FIGURE C-3

G:\38945 Cooper Drum\006\cumulative mass removed plot\[Figure template.xlsx]Figure 6-1



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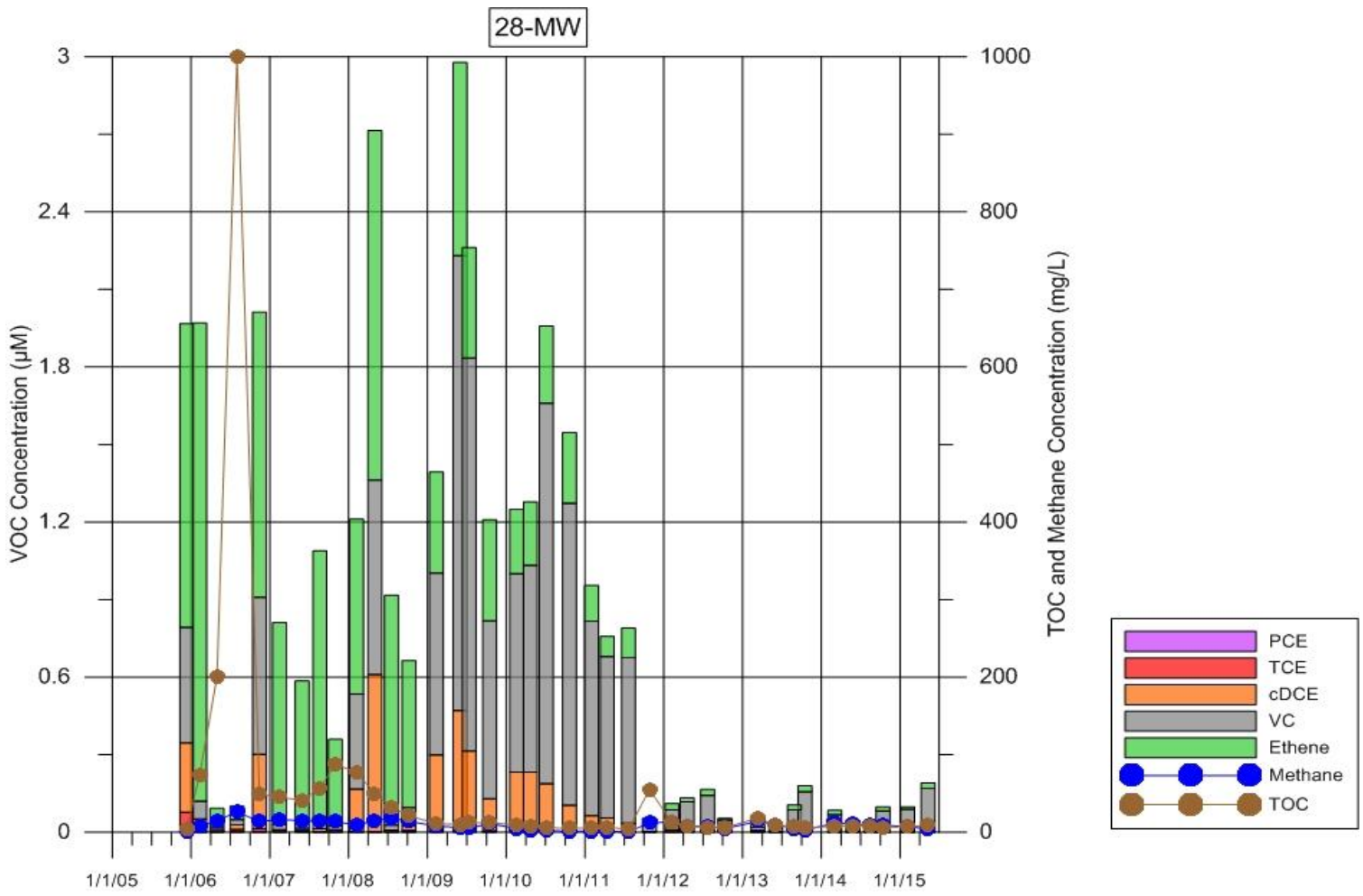
CONCENTRATION TREND PLOT FOR WELL 23-D

JULY 2015

FIGURE C-4

G:\38945 Cooper Drum\006\cumulative mass removed plot\[Figure template.xlsx]Figure 6-1



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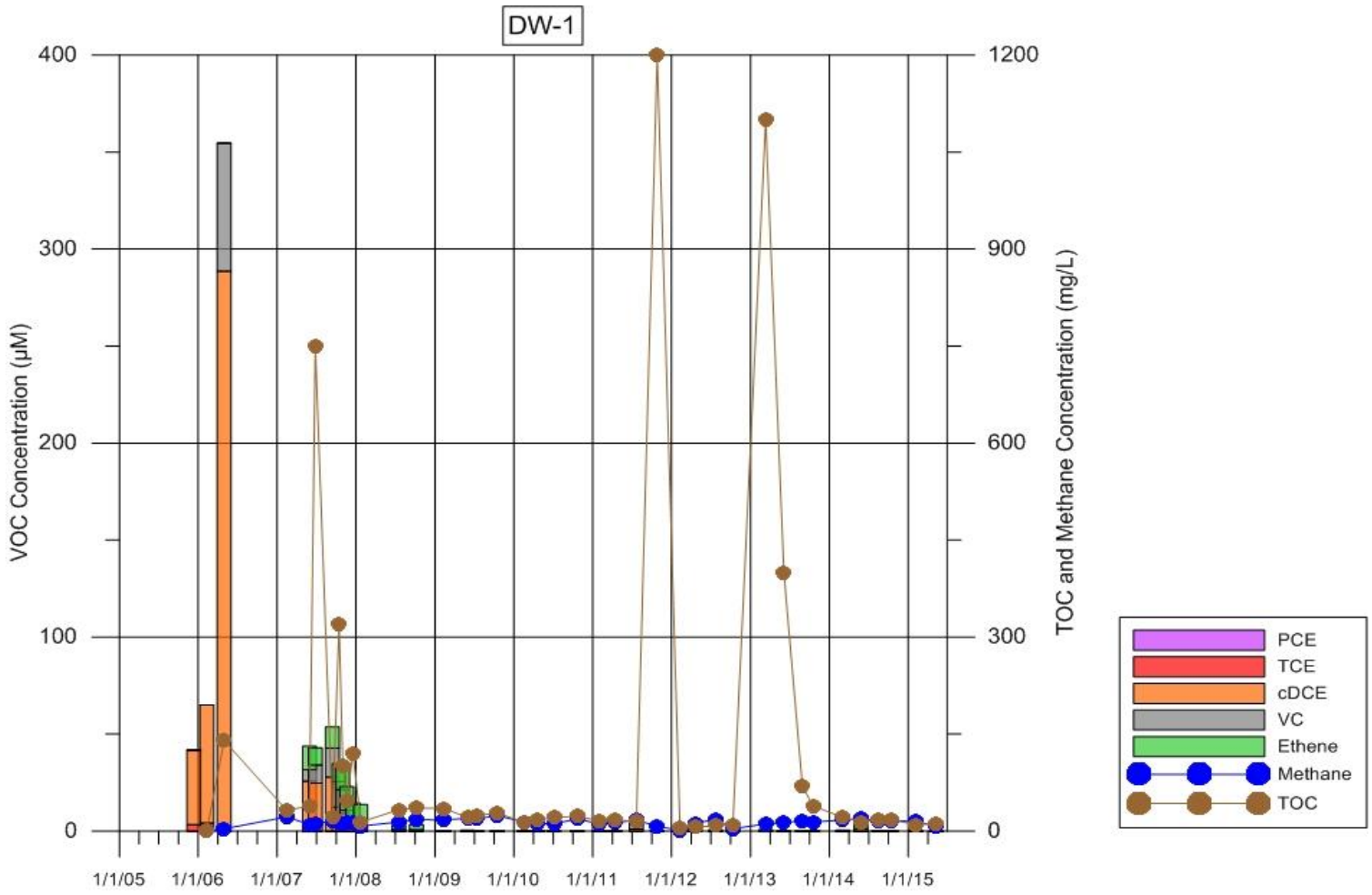
CONCENTRATION TREND PLOT FOR WELL 28-MW

JULY 2015

FIGURE C-5

G:\38945 Cooper Drum\006\cumulative mass removed plot\[Figure template.xlsx]Figure 6-1



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CONCENTRATION TREND PLOT FOR WELL DW-1

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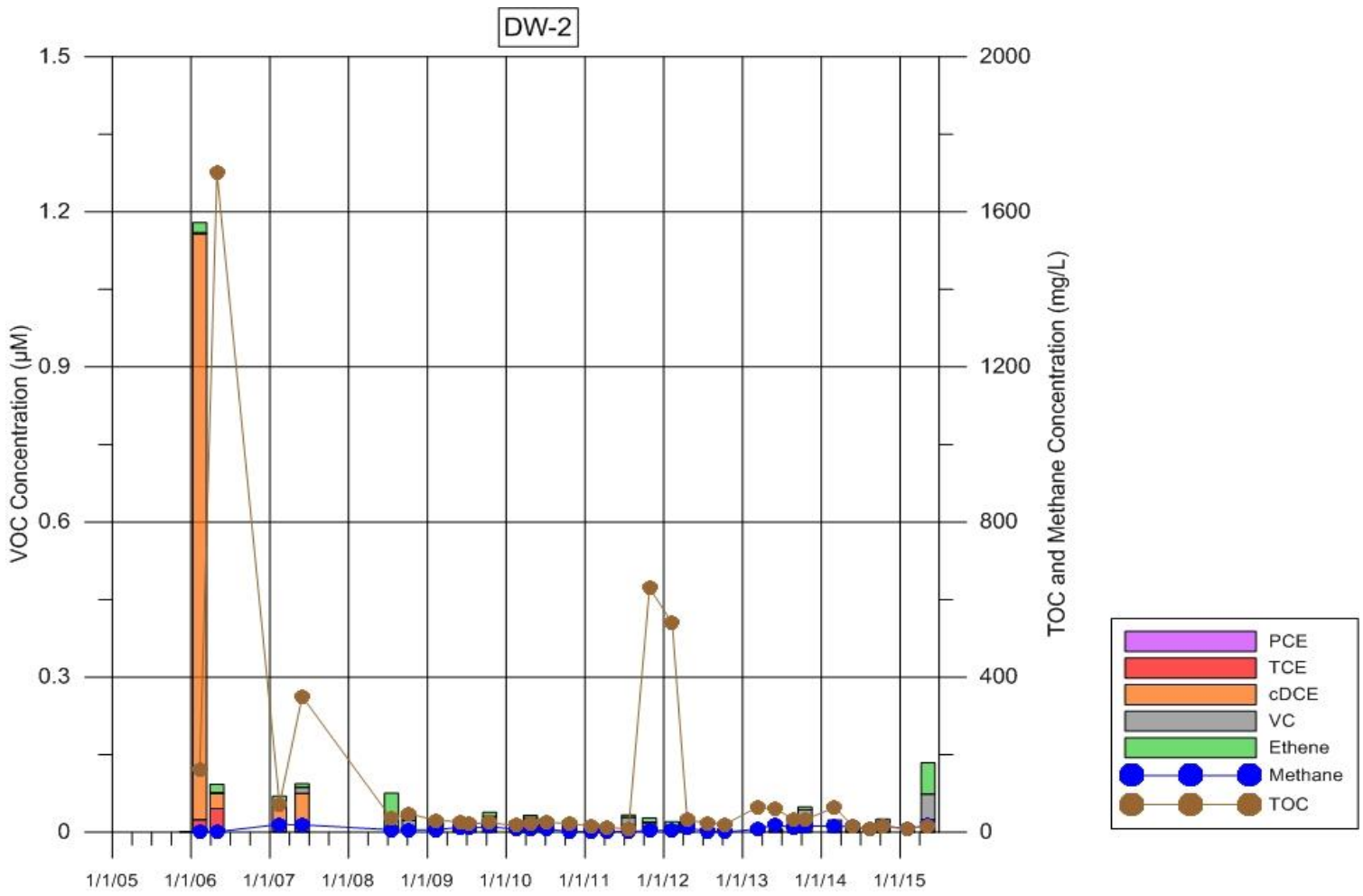
FIGURE C-6

G:\38945 Cooper Drum\006\cumulative mass removed plot\[Figure template.xlsx]Figure 6-1



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CONCENTRATION TREND PLOT FOR WELL DW-2

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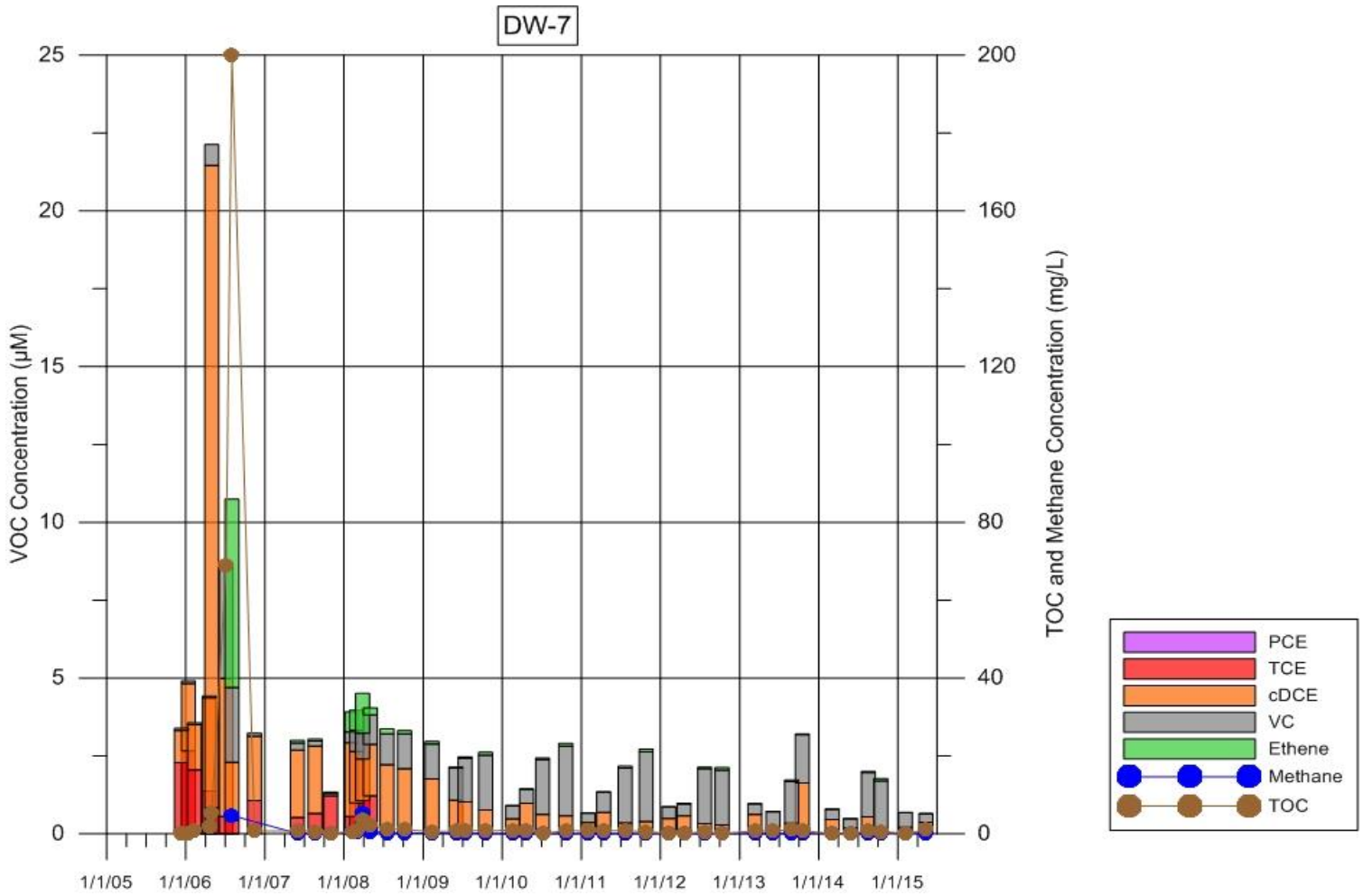
FIGURE C-7

G:\38945 Cooper Drum\006\cumulative mass removed plot\[Figure template.xlsx]Figure 6-1



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CONCENTRATION TREND PLOT FOR WELL DW-7

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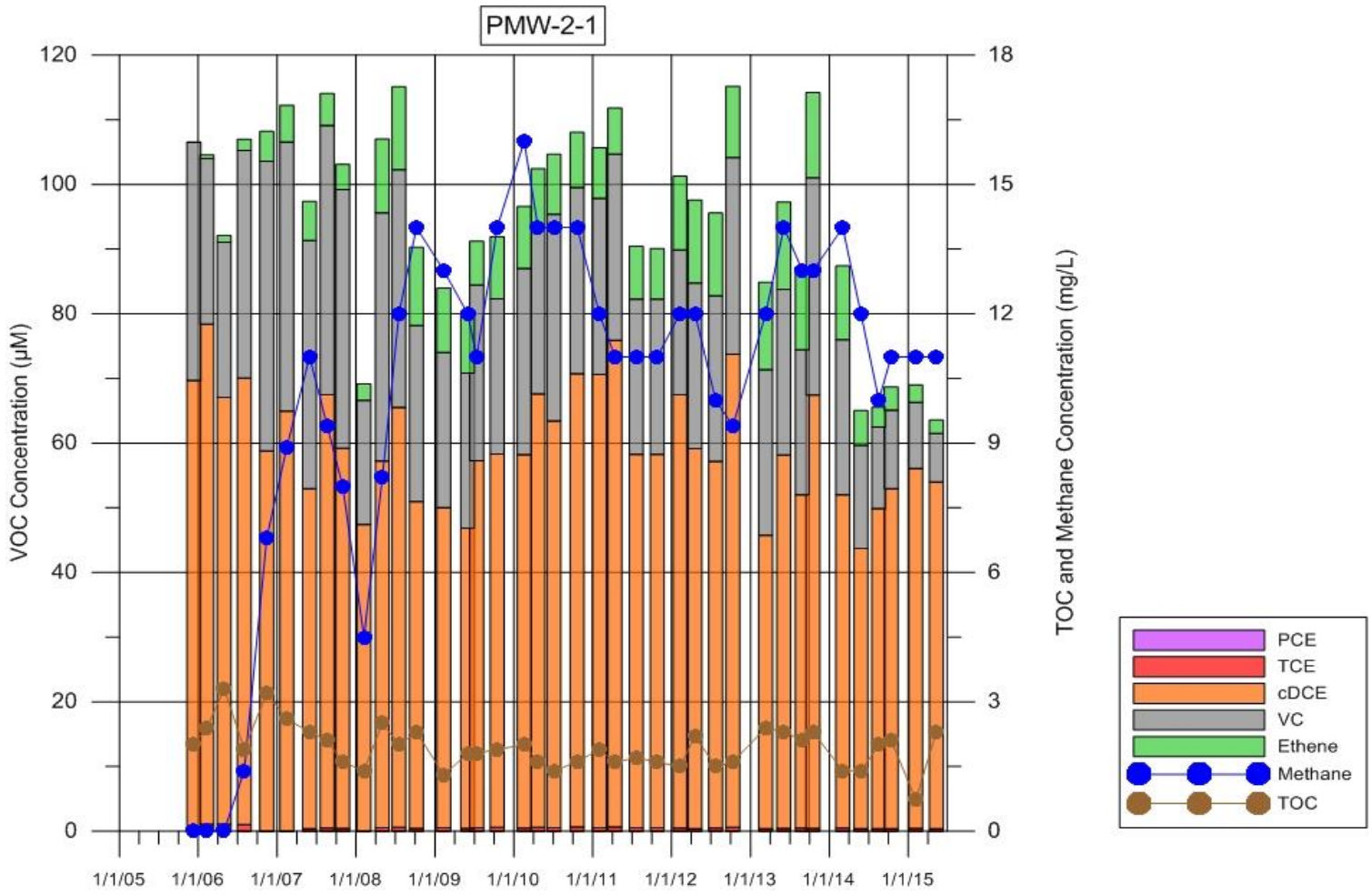
FIGURE C-8

G:\38945 Cooper Drum\006\cumulative mass removed plot\[Figure template.xlsx]Figure 6-1



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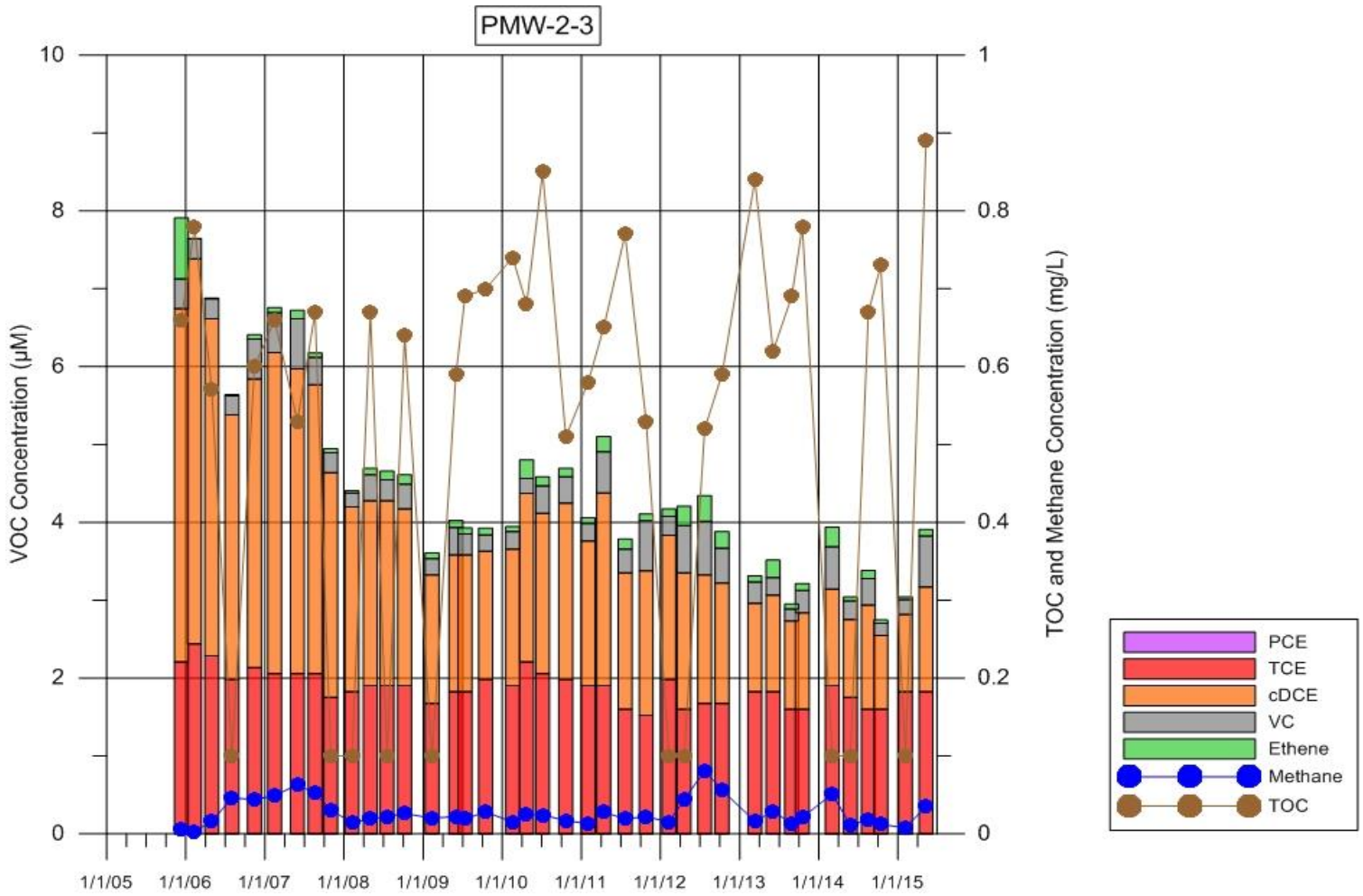
CONCENTRATION TREND PLOT FOR WELL PMW-2-1

JULY 2015

FIGURE C-9

G:\38945 Cooper Drum\006\cumulative mass removed plot\[Figure template.xlsx]Figure 6-1



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CONCENTRATION TREND PLOT FOR WELL PMW-2-3

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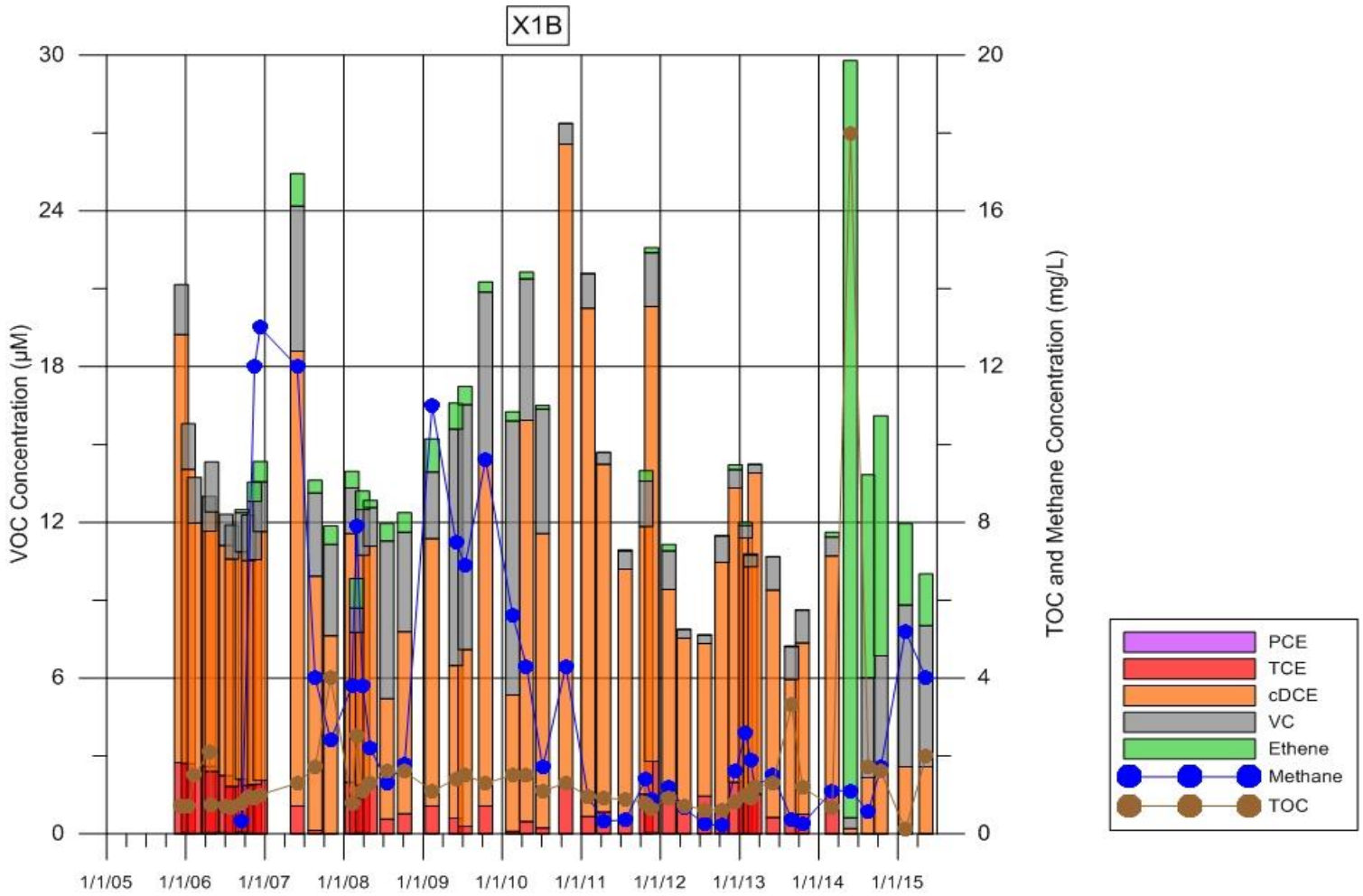
FIGURE C-10

G:\38945 Cooper Drum\006\cumulative mass removed plot\[Figure template.xlsx]Figure 6-1



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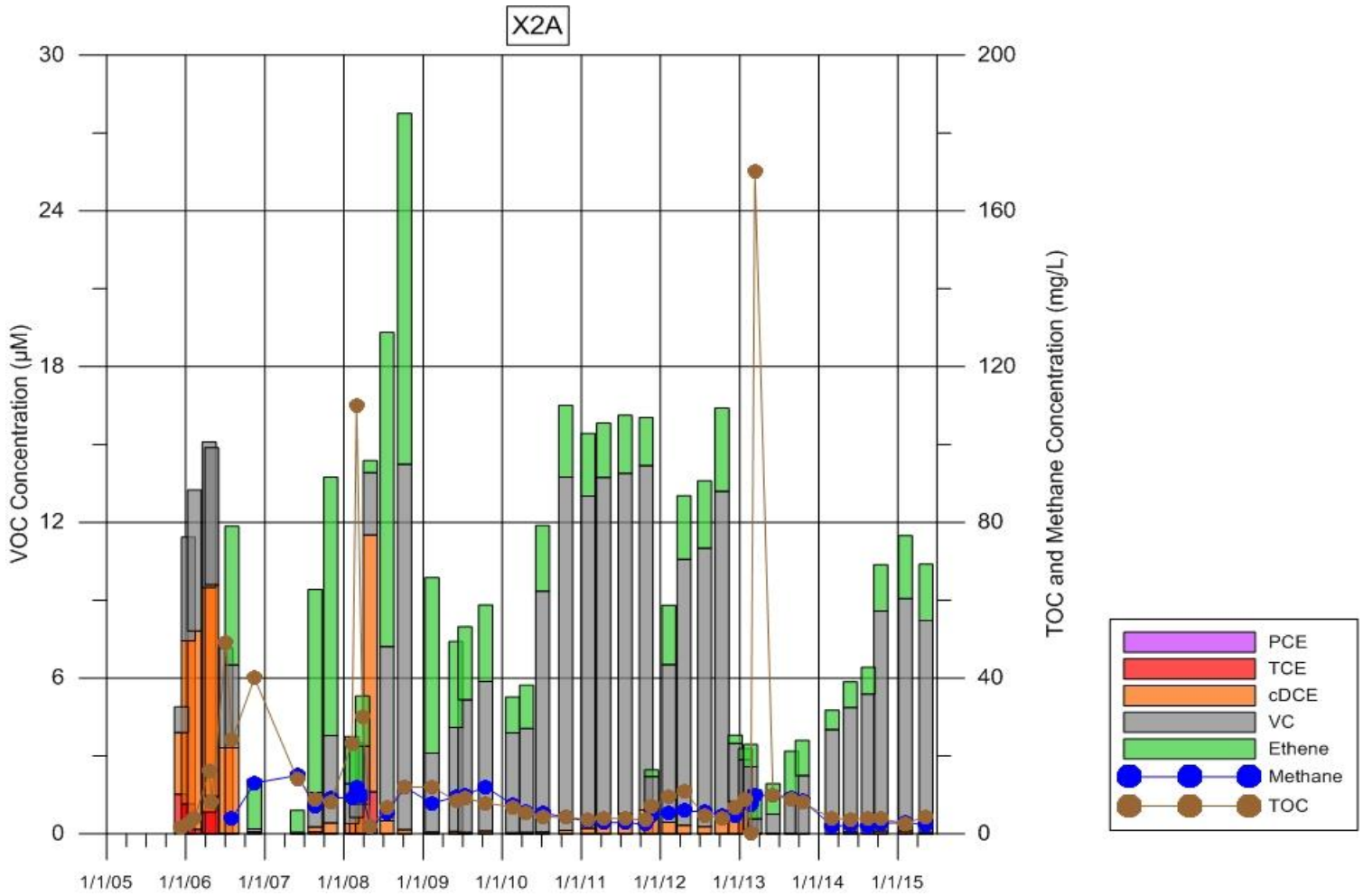
CONCENTRATION TREND PLOT FOR WELL X1B

JULY 2015

FIGURE C-11

G:\38945 Cooper Drum\006\cumulative mass removed plot\[Figure template.xlsx]Figure 6-1



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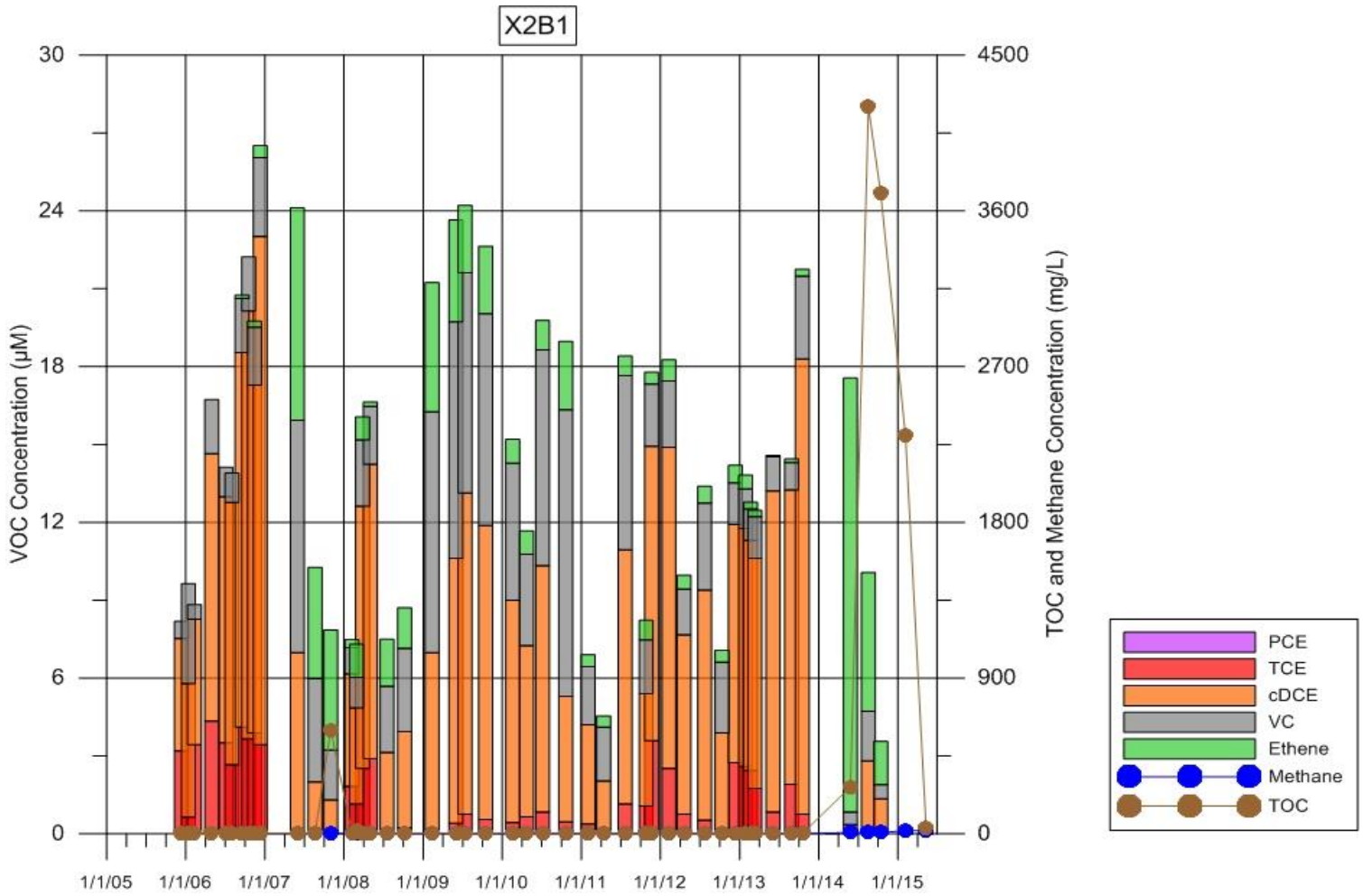
CONCENTRATION TREND PLOT FOR WELL X2A

JULY 2015

FIGURE C-12

G:\38945 Cooper Drum\006\cumulative mass removed plot\[Figure template.xlsx]Figure 6-1



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CONCENTRATION TREND PLOT FOR WELL X2B1

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FIGURE C-13

G:\38945 Cooper Drum\006\cumulative mass removed plot\[Figure template.xlsx]Figure 6-1