

***KIA SUMNER***  
**1069 OAK HILL ROAD**  
**LAFAYETTE, CA 94549-0131**

December 30, 2014

**RECEIVED**

By Alameda County Environmental Health 12:39 pm, Jun 17, 2014

**Ms. Karel Detterman**  
Alameda County LOP  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

**SUBJECT: 4<sup>TH</sup> QUARTER 2014 GROUNDWATER  
MONITORING AND SAMPLING REPORT**  
3635 13<sup>th</sup> Avenue, Oakland, CA

Dear Ms. Detterman:

Enclosed, please find a copy of the November 25, 2014 subject 4<sup>th</sup> Quarter 2014 Groundwater Monitoring and Sampling Report prepared by my consultant, Enviro Soil Tech Consultants.

I declare, under penalty of perjury, that the information and/or recommendations contained in this report are true and correct to the best of my knowledge.

Sincerely,



**KIA SUMNER, ASSIGNEE**

**FOURTH QUARTER 2014 GROUNDWATER  
MONITORING AND SAMPLING  
LOCATED AT 3635 13<sup>TH</sup> AVENUE  
OAKLAND, CALIFORNIA  
NOVEMBER 25, 2014**

**PREPARED FOR:  
MR. KIA SUMNER, ASSIGNEE  
1069 OAK HILL ROAD  
LAFAYETTE, CALIFORNIA 94549-0131**

**BY:  
ENVIRO SOIL TECH CONSULTANTS  
131 TULLY ROAD  
SAN JOSE, CALIFORNIA 95111**

**ENVIRO SOIL TECH CONSULTANTS**

## **LIST OF TABLES**

**TABLE 1** ... Groundwater Monitoring Data and Analytical Results

**TABLE 2** ... Recent Groundwater Monitoring Data and Analytical Results

**TABLE 3** ... Summary of Monitoring Wells Data

## **LIST OF FIGURES**

**FIGURE 1** ... Site Vicinity Map Showing 3635 13<sup>th</sup> Avenue, Oakland, California

**FIGURE 2** ... Isocontours of Groundwater Gradient Map

**FIGURE 3** ... Isocontours of TPHg in Groundwater Map

**FIGURE 4** ... Isocontours of Benzene in Groundwater Map

**FIGURE 5** ... Isocontours of MTBE in Groundwater Map

## **LIST OF APPENDICES**

- APPENDIX "A"** ... Tables 1, 2 and 3
- APPENDIX "B"** ... Figures 1, 2, 3, 4 and 5
- APPENDIX "C"** ... Hydrographs
- APPENDIX "D"** ... Standard Operating Procedure
- APPENDIX "E"** ... Field Notes Data
- APPENDIX "F"** ... Laboratory Report and Chain-of-Custody Record

<b>TABLE OF CONTENTS</b>	<b><u>PAGE NO.</u></b>
Letter of Transmittal	1
Site Location and Description	2
Background	
<i>Tank Removal</i>	2-3
<i>Soil Removal</i>	3
<i>Site Assessment</i>	4
<i>Groundwater Monitoring</i>	5
<i>Receptor Survey and Remedial Action Plan</i>	5
<i>Further Assessment</i>	5-6
New Responsible Party and Consultant	6
Scope of Work	6-7
Monitoring Procedures	7
Results	
<i>Depth to Groundwater and Groundwater Gradient</i>	7-8
<i>Analytical Results</i>	8
Conclusions	8-9
Limitations	9
 <b><u>APPENDIX "A"</u></b>	
Table 1 - Groundwater Monitoring Data & Analytical Results	T1-T8
Table 2 - Recent Groundwater Monitoring Data and Analytical Results	T9-T10
Table 3 - Summary of Monitoring Wells Data	T11

**TABLE OF CONTENTS CONT'D**

**PAGE NO.**

**APPENDIX "B"**

Figure 1 - Vicinity Map	F1
Figure 2 - Groundwater Elevation Contour Map	F2
Figure 3 - Isocontours of TPHg in Groundwater Map	F3
Figure 4 - Isocontours of Benzene in Groundwater Map	F4
Figure 5 - Isocontours of MTBE in Groundwater Map	F5

**APPENDIX "C"**

Hydrographs

**APPENDIX "D"**

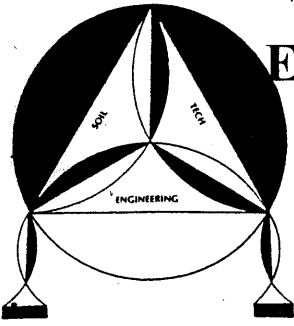
Groundwater Sampling Procedure	SOP1
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**APPENDIX "E"**

Field Notes Data

**APPENDIX "F"**

Curtis & Tompkins, Ltd. Laboratory Report and Chain-of-Custody Record



# ENVIRO SOIL TECH CONSULTANTS

Environmental & Geotechnical Consultants

131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111

Tel: (408) 297-1500

Fax: (408) 694-3447

Email: [info@envirosoiltech.com](mailto:info@envirosoiltech.com)

November 25, 2014

File No. 3-13-855-SC

**Mr. Kia Sumner**

1069 Oak Hill Road

Lafayette, California 94549

**SUBJECT: FOURTH QUARTER 2014 GROUNDWATER  
MONITORING & SAMPLING AT THE PROPERTY**

Located at 3635 13<sup>th</sup> Avenue, in  
Oakland, California

Dear Mr. Sumner,

Enviro Soil Tech is pleased to transmit our monitoring report for the fourth quarter of 2014 for the property located at 3635 13<sup>th</sup> Avenue, in Oakland, California. The wells were sampled on November 4, 2014.

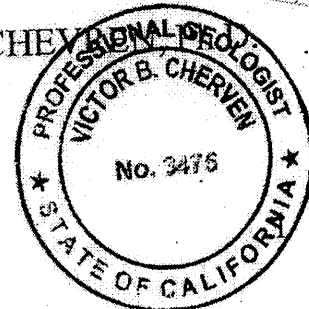
If you have any questions or require additional information, please feel free to contact our office at 408-297-1500 or via email at [info@envirosoiltech.com](mailto:info@envirosoiltech.com).

Sincerely,

**ENVIRO SOIL TECH CONSULTANTS**

FRANK HAMEDI  
GENERAL MANAGER

VICTOR B. CHERVEN  
R.G. #3475



## **SITE LOCATION AND DESCRIPTION**

The site is located at the intersection of 13<sup>th</sup> Avenue and Excelsior Street in east-central of Oakland, near the MacArthur Freeway (Figure 1). The topography in the area is hilly, and land use is primarily residential. The site was the location of a gasoline service station owned by Mr. John Williamson, but the structures have been removed and the property is currently vacant. It is a rectangular lot of approximately 4000 square feet and is bordered on the south by an apartment building, and on the west by residences. An Oakland fire station is located on the other side of 13<sup>th</sup> Avenue.

## **BACKGROUND**

### *TANK REMOVAL*

When it was in operation, the gasoline station employed three underground storage tanks. Two of the tanks stored gasoline, and were 500 and 1,000 gallons in capacity. The third tank was a 250-gallon tank that stored waste oil. The gasoline tanks were located toward the north end of the site, and the waste oil tank was inside an office and mechanics shop building near the south end (Figure 2).

The tanks were removed in 1992 and were not replaced. Soil around the margins of each excavation showed evidence of petroleum stains, and holes were observed in the waste oil tank. The other tanks appeared to be in tact. Five soil samples were collected from beneath the tanks for analysis.



No hydrocarbons were detected in the samples from the north end of the gasoline tanks, but fairly low concentrations (1 part per million and 27 parts per million) of Total Petroleum Hydrocarbons (TPHg) were detected from the south ends of both tanks. Benzene, Toluene, Ethylbenzene, and Xylene were also detected, at concentrations that ranged from 5 to 34 parts per billion.

The sample from beneath the waste oil tank was analyzed for Total Oil and Grease, and a concentration of 8,200 parts per million was reported by the laboratory. The TPHg concentration was also elevated (290 ppm), as was the total lead concentration (225 ppm). A total BTEX concentration of 4,490 ppb was also detected.

Water entered both gasoline tank excavations and was sampled. TPHg and BTEX were detected at elevated concentrations in both samples.

### *SOIL REMOVAL*

In late 1993, All Environmental, Inc. (AEI) removed the remaining site structures including the building, and the waste oil tank excavation was enlarged to remove the remaining contaminated soil. The excavation was deepened to 18 feet, and approximately 360 cubic yards of soil were excavated and disposed of. Uncontaminated native soil was bluish-gray, but exhibited a petroleum odor and greenish color due to gasoline staining. At the conclusion of the excavation work, eight soil samples were collected from the walls and floor of the excavation, and the results indicated that the contaminated soil had been removed.

*SITE ASSESSMENT*

Alameda County Health Care Service Agency (ACHCSA) requested assessment of the potential for groundwater contamination at the site, and work commenced in March 1994. AEI installed monitor wells MW-1 to MW-3 (Figure 2), but did not sample the wells until November. TPHg was detected in soil samples from MW-1 and MW-2 between 10 and 15 feet below surface grade, at concentrations that ranged from about 6 to 15 parts per million. All BTEX compounds were also detected, at concentrations up to 140 ppb (Benzene) and 240 ppb (Xylene). TPHg was detected in the water samples at 210 and 11,000 ppb, respectively. No hydrocarbons were detected in the soil samples from MW-3, but TPHg was present in the water sample at 200 ppb.

During drilling, groundwater entered the wells slowly or not at all, so they were drilled to depths ranging from 25 to 36 feet. The top of the screened interval ranged from 12 to 16 feet. By the time they were sampled in November, the water level had risen to between 11 and 12.5 feet below grade, meaning that the water level was above the screened interval at that time. Using the 3-point method, AEI determined that the hydraulic gradient was to the southeast and was “fairly steep”.

AEI extended the assessment in late 1997/early 1998, drilling nine soil borings on site, and again in 2003, drilling six more borings off site (Figure 2). The results showed high concentrations of gasoline, diesel, and BTEX in groundwater in all fourteen borings, but AEI did not include a groundwater isoconcentration map in their 2004 report of these investigations.

### *GROUNDWATER MONITORING*

AEI began groundwater monitoring on a quarterly basis in 1994, but changed to a semi-annual basis in 1995. Historical depth and concentration data are given in Table 1. The depth to groundwater has fluctuated between 6 and 15 feet over time. Even though the static water level has been above the screens on numerous occasions, this does not appear to account for the variation in hydrocarbon concentrations in the wells, because considerable variation has taken place even while the screens were submerged. Initially, the groundwater flow direction was inferred to be to the southeast, but by 2008 AEI concluded that the flow varies from southeast to south. A gradient of 0.05 ft/ft seems to be typical for the site.

### *RECEPTOR SURVEY AND REMEDIAL ACTION PLAN*

AEI also conducted a sensitive receptor survey and a preferential pathway study in conjunction with the preparation of an assessment of remedial options for the site. That report was completed in 2007, and led to further assessment later that year.

### *FURTHER ASSESSMENT*

ACHCSA required additional assessment of the soil and groundwater plume in 2006, and eight additional borings and three additional monitor wells were drilled in 2007. SB-16 through SB-23 were drilled to depths of 25 to 36 feet and sampled continuously. MW-4 was drilled adjacent to SB-18, MW-5 was drilled adjacent to SB-22, and MW-6 was drilled adjacent to SB-21 (Figure 2). Fifty-five soil samples and eleven water samples (plus three from the previously drilled wells) were analyzed and the results were presented in 2008. AEI included groundwater isoconcentration maps for TPHg, TPHd, and Benzene in that report. In addition to these, a significant concentrations of the gasoline oxygenates, Methyl Tertiary Butyl Ether (MTBE) and Di-isopropyl Ether (DIPE), along with the solvent 1,2-Dichloroethane (DCA) were reported.

In contrast to AEI's original interpretation that the waste oil tank was likely the principal environmental concern, these maps indicated that the plume originated beneath the gasoline tanks and spread to the southeast beneath 13<sup>th</sup> Avenue due to the prevailing groundwater flow in that direction. In view of the results, AEI proposed several additional activities for the site, and these were conditionally approved by ACHCSA later in 2008. As of the end of 2012, only one of these activities had been performed—installation of monitor well MW-7 in the southeastern portion of the site. Due to lack of activity since then, ACHCSA issued a Notice of Violation in December 2012. AEI responded with a letter in January 2013 that indicated when these activities would be performed. However, the dates were not met.

## **NEW RESPONSIBLE PARTY AND CONSULTANT**

The property was transferred to Kia Sumner in March of 2013, and Enviro Soil Tech Consultants (ESTC) was retained as the new consulting firm to continue the project. The files were transferred to ESTC's office in San Jose late in the year.

## **SCOPE OF WORK**

This is the second monitoring event conducted by ESTC. The scope of work was as follows:

- Measure depth to static water level in monitoring wells and check for presence of free product or gasoline odor.
- Purge and sample each well.

- Submit water samples to a State-Certified laboratory for analyses of Total Petroleum Hydrocarbons as gasoline (TPHg) per EPA Method 8015 MOD; Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX); and gasoline oxygenates Methyl Tertiary Butyl Ether (MTBE) and other petroleum hydrocarbons constituents per EPA Method 8260B.
- Review the results and prepare a monitoring report.

## **PROCEDURES**

ESTC personnel visited the site on November 4, 2014 to conduct the monitoring. After the wells were opened and allowed to equilibrate with atmospheric pressure, a water level meter was used to measure the depth to groundwater in each well and the results were recorded on the monitoring data sheet (Appendix "E"). Then a clear bailer was lowered into each well and approximately 3 to 4 gallons were purged. The purged water was stored in a 1000-gallon tank on site.

After the wells were purged, the water level was checked to make sure that the well had recovered to 90% of the pre-purging measurement and then the disposal bailer was used to collect samples from each well. The samples were poured into 40-ml glass vials, placed in a cooled ice chest, and transported to Curtis & Tompkins, Ltd. laboratory for analyses.

## **RESULTS**

### *DEPTH TO GROUNDWATER AND GROUNDWATER GRADIENT*

The depth to groundwater on November 4 was within a few hundredths of a foot of what it was in December 2013, ranged from 18.65 to 20.78 feet below surface grade (Table 2). This static water level was below the top of the screened interval in all seven wells.

The casing elevation in MW-7 still has not been surveyed, so this well was not used in mapping the hydraulic gradient. Depth data from the other wells were converted to elevation by subtracting from the elevation of the top of the well casings, and the results are contoured in Figure 2. The groundwater flow direction is still to the south, and our previous suggestion that it may be to the southwest appears to have been correct. Interpretation in the area to the south of the site continues to be tentative due to the lack of wells.

### *ANALYTICAL RESULTS*

The analytical results are shown in Table 2, and isoconcentration maps for TPHg, Benzene and MTBE are shown in Figures 3 through 5. This site appears to be unusual in more than one respect. The concentration of both TPHg and Benzene are anomalously low at MW-5 relative to the surrounding wells, which causes the contours to “pinch” between that well and MW-2. High concentrations of both analytes are present to the north and especially to the south. In contrast, the highest MTBE concentration is to the north, at MW-6, and there is no “pinching” of the contours near MW-5. The MTBE gradient from MW-2 and MW-4 toward MW-5 is not anomalous. Also, where as both Benzene and TPHg extend off-site beneath 13<sup>th</sup> Avenue, MTBE is more restricted to the immediate site. A more normal situation would be for MTBE to extend farther off-site than either of the other two analytes because it is more soluble and mobile in groundwater. Based on the available data, this does not appear to be the case here.

### **CONCLUSIONS**

ACHCSA has requested additional information and activities, some of which are the responsibility of the previous consultant. The agency has also requested that a work plan to be submitted to identify gaps in the existing database and perform the necessary activities to

complete these tasks. The deadline for submission of the plan has been extended to January 31, 2015. ESTC is currently attempting to assemble to the data that are needed for this work plan and expects to be able to meet this deadline.

**LIMITATIONS:**

This report and the associated work have been provided in accordance with the general principles and practices currently employed in the environmental consulting profession. The contents of this report reflect the conditions of the site at this particular time. The findings of this report are based on:

- 1) The observations of field personnel.
- 2) The results of laboratory analyses performed by a state-certified laboratory.

It is possible that variations in the soil and groundwater could exist beyond the points explored in this investigation. Also, changes in groundwater conditions of a property can occur with the passage of time due to variations in rainfall, temperature, regional water usage and other natural processes or the works of man on this property or adjacent properties.

This report is issued with the understanding that it is the responsibility of the owner or his/her representative to ensure that the information and recommendations contained herein are called to the attention of the Local Environmental Agency.

File No. 3-13-855-SC  
November 25, 2014

# **A P P E N D I X "A"**

## **TABLES**

**ENVIRO SOIL TECH CONSULTANTS**



**TABLE 1  
GROUNDWATER MONITORING DATA (feet)  
AND ANALYTICAL RESULTS (µg/L)**

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs
11/22/94 *	MW-1 (194.75)	25	12-25	10.92◊	183.83	Slightly turbid No odor	210	ND <50	ND <0.5	ND <0.5	ND <0.5	2.3	NA	NA	NA	NA	Not Analyzed
2/22/95*				10.58◊	184.17	No sheen or odor	140	ND <50	ND <0.5	ND <0.5	0.6	1.5	NA	NA	NA	NA	Not Analyzed
5/24/95*				10.94◊	183.81	No sheen or odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	NA	Not Analyzed
8/18/95*				14.52♦	180.23	No sheen or odor	2800	ND <50	25	6.2	22	30	NA	NA	NA	NA	Not Analyzed
2/07/96*				4.43◊	190.32	Slightly turbid No odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	NA	Not Analyzed
8/14/96^ 9/06/96*				13.60♦	181.15	No sheen or odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <5 <sup>B</sup>	NA	NA	NA	Not Analyzed
6/19/97*				13.07♦	181.68	Not Available	630	400	25	9.7	100	14	15 <sup>B</sup>	NA	NA	NA	Not Analyzed
1/24/02*				9.53◊	185.22	Beige sheen No odor	60	ND <50	3.3	2.8	2.0	6.0	ND <5 <sup>B</sup>	NA	NA	NA	Not Analyzed
7/15/03*				12.85♦	181.90	Brown sheen No odor	87	ND <50	15	4.9	3.3	9.2	ND <5 <sup>B</sup>	NA	NA	NA	Not Analyzed
10/10/03 *				14.58♦	180.17	Brown/Slight hydrocarbon odor	81	110	ND <0.5	0.62	0.57	0.5	ND <5 <sup>B</sup>	NA	NA	NA	Not Analyzed
4/06/04*				10.92◊	183.83	Brown/No odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND<5 <sup>B</sup> ND<0.5 <sup>C</sup>	NA	ND <5	NA	None Detected
7/09/04*				14.34♦	180.41	Brown/No odor	130	80	ND <0.5	ND <0.5	2.8	0.78	ND <35 <sup>B</sup>	NA	NA	NA	Not Analyzed
10/08/04 *				15.30♦	179.45	Brown/No odor	260	120	3.0	2.9	8.3	10	24 <sup>B</sup>	NA	NA	NA	Not Analyzed
4/05/07*				12.19♦	182.56	Brown to light Petroleum odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND<5 <sup>B</sup> ND<0.5 <sup>C</sup>	NA	ND <5	NA	None Detected
7/02/07*				13.28♦	181.47	Brown to light Petroleum odor	150	79	ND <0.5	1.0	ND <0.5	ND <0.5	ND<25 <sup>B</sup> 23 <sup>C</sup>	NA	ND <5	NA	None Detected
10/03/07 *				17.05♦	177.70	Milky brown No odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	5.8 <sup>B</sup> 7.4 <sup>C</sup>	NA	ND <5	NA	None Detected
1/09/08*	(197.28) Resurvey			6.74◊	190.54	Light brown No odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND<5 <sup>B</sup> ND<0.5 <sup>C</sup>	NA	ND <2	NA	None Detected

**ENVIRO SOIL TECH CONSULTANTS**

**TABLE 1 CONT'D  
GROUNDWATER MONITORING DATA (feet)  
AND ANALYTICAL RESULTS (µg/L)**

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs
4/04/08*	MW-1 (197.28)	25	12-25	13.16♦	184.12	Light brown No odor	130	NA	ND <0.5	1.2	22	0.93	ND<10 <sup>B</sup> 9.1 <sup>C</sup>	NA	ND <2	NA	None Detected
12/16/13				19.04♦	178.24	No sheen Petroleum odor	110	NA	ND <0.5	ND <0.5	0.7	ND <0.5	46	ND <0.5	ND <10	ND <0.5	Isopropylbenzene 4.4 Propylbenzene 3.5 sec-Butylbenzene 1.0
4/17/14				10.11◊	187.17	No sheen or odor	ND <50	NA	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <10	ND <0.5	None Detected<0.5
11/04/11				19.27♦	178.01	No sheen or odor	97	NA	21	ND <0.5	3.2	2.3	1.1	ND <0.5	ND <10	ND <0.5	Propylbenzene 0.5 1,2,4-Trimethylbenzene 1.3
11/22/94 *	MW-2 (196.44)	36	16-36	12.54◊	183.90	Slight turbid Strong gas odor	11,000	ND <50	35	21	7	50	NA	NA	NA	NA	Not Analyzed
2/23/95*				12.35◊	184.09	Sheen Fuel odor	4,000	ND <50	ND <0.5	ND <0.5	3	6	NA	NA	NA	NA	Not Analyzed
5/24/95*				12.11◊	184.33	Sheen Strong odor	8,600	ND <50	95	37	37	70	NA	NA	NA	NA	Not Analyzed
8/18/95*				16.25♦	180.19	No sheen/Strong hydrocarbon odor	7,200	ND <50	43	21	21	71	NA	NA	NA	NA	Not Analyzed
2/07/96*				9.34◊	187.10	Sheen/Strong hydrocarbon odor	11,000	ND <50	17	9	9	25	NA	NA	NA	NA	Not Analyzed
9/06/96*				15.22◊	181.22	Sheen/Strong hydrocarbon odor	15,000	1,900	4,300	920	460	1,600	ND <200 <sup>B</sup>	NA	NA	NA	Not Analyzed
6/19/97*				13.33◊	183.11	Not Available	26,000	2,900	5,300	1,500	910	3,200	ND <200 <sup>B</sup>	NA	NA	NA	Not Analyzed
1/24/02*				9.72◊	186.72	Sheen/Strong hydrocarbon odor	34,000	5,300	3,100	1,100	1,100	2,900	ND <200 <sup>B</sup>	NA	NA	NA	Not Analyzed
7/15/03*				12.42◊	184.02	Gray/Strong hydrocarbon odor	18,000	6,600	2,300	310	690	1,600	ND <1000 <sup>B</sup>	NA	NA	NA	Not Analyzed
10/10/03 *				13.79◊	182.65	Gray/Strong hydrocarbon odor	19,000	1,800	2,700	460	850	1,800	ND <500 <sup>B</sup>	NA	NA	NA	Not Analyzed
4/06/04*				10.55◊	185.89	Gray/Moderate hydrocarbon odor	6,900	1,300	1,100	100	380	780	ND<200 <sup>B</sup> 87 <sup>C</sup>	NA	110	NA	None Detected
7/09/04*				13.78◊	182.66	Dark gray/Strong hydrocarbon odor	17,000	4,400	2,800	240	710	1,300	ND<450 <sup>B</sup> 120 <sup>C</sup>	NA	98	NA	Not Analyzed

**TABLE 1 CONT'D  
GROUNDWATER MONITORING DATA (feet)  
AND ANALYTICAL RESULTS (µg/L)**

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs
10/08/04 ★	MW-2 (196.44)	36	16-36	14.78◊	181.66	Dark gray/Strong hydrocarbon odor	6,900	890	1,500	240	340	670	ND<150 <sup>B</sup> 84 <sup>C</sup>	NA	230	NA	Not Analyzed
4/02/07★				11.32◊	185.12	Gray/Strong petroleum odor	21,000	4,300	2,000	300	1,000	1,700	ND<450 <sup>B</sup> 81 <sup>C</sup>	NA	100	NA	None Detected
7/02/07★				13.18◊	183.26	Light gray/Strong petroleum odor	5,100	750	260	21	320	370	ND<180 <sup>B</sup> 88 <sup>C</sup>	NA	150	NA	None Detected
10/03/07 ★				16.71♦	179.73	Dark/Strong petroleum odor	8,600	1,500	1,700	140	520	790	ND<300 <sup>B</sup> 77 <sup>C</sup>	NA	ND <50	NA	None Detected
1/09/08★	(198.93) Resurvey			8.48◊	190.45	Dark/Strong petroleum odor	38,000	48,000	3,000	380	1,200	1,900	ND<400 <sup>B</sup> 63 <sup>C</sup>	NA	64	NA	None Detected
4/04/08★				12.60◊	186.33	No sheen/Strong hydrocarbon odor	5,100	NA	1,1000	72	120	330	ND<130 <sup>B</sup> 76 <sup>C</sup>	NA	100	NA	None Detected
12/16/13				18.72♦	180.21	No sheen Petroleum odor	3600	NA	160	20	120	129	20	ND <1.3	ND <25	ND <1.3	Carbon Disulfide 1.3 Isopropylbenzene 10 Propylbenzene 25 1,3,5-Trimethylbenzene 13 tert-Butylbenzene 1.3 sec-Butylbenzene 5.4 para-Isopropyl Toluene 3.4 n-Butylbenzene 22 Naphthalene 23 1,2,4-Trimethylbenzene 53
4/17/14				10.30◊	188.63	No sheen Gasoline odor	4800	NA	500	16	270	97	26	ND <2.5	ND <50	ND <2.5	Isopropylbenzene 17 Propylbenzene 44 1,3,5-Trimethylbenzene 4.8 1,2,4-Trimethylbenzene 100 sec-Butylbenzene 5.4 para-Isopropyl Toluene 3.7 Naphthalene 32

**ENVIRO SOIL TECH CONSULTANTS**

**TABLE 1 CONT'D  
GROUNDWATER MONITORING DATA (feet)  
AND ANALYTICAL RESULTS (µg/L)**

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs
11/04/14	MW-2 (198.93)	36	16-36	18.65♦	180.28	No sheen Petroleum odor	2100	NA	150	27	120	84	25	ND <1.0	ND <20	ND <1.0	Isopropylbenzene 7.5 Propylbenzene 18 1,3,5-Trimethylbenzene 6.2 tert-Butylbenzene 1.0 1,2,4-Trimethylbenzene 33 sec-Butylbenzene 3.5 para-Isopropyl Toluene 1.5 n-Butylbenzene 2.8 Naphthalene 28
11/22/94 *	MW-3 (198.93)	36.5	15.5-36	11.53◊	187.40	Slightly turbid No odor	200	ND <50	ND <0.5	ND <0.5	ND <0.5	2	NA	NA	NA	NA	Not Analyzed
2/23/95*				11.89◊	187.04	No sheen or odor	1,500	ND <50	6.6	6.4	4.2	13	NA	NA	NA	NA	Not Analyzed
5/24/95*				12.71◊	186.22	No sheen or odor	710	ND <50	2.5	3.2	3.1	16	NA	NA	NA	NA	Not Analyzed
8/18/95*				16.14♦	182.79	No sheen or odor	310	ND <50	3.1	2.1	2.2	11	NA	NA	NA	NA	Not Analyzed
2/07/96*				6.22◊	192.71	Sheen/No odor	400	ND <50	1.4	2.5	2.2	7	NA	NA	NA	NA	Not Analyzed
9/06/96*				13.51◊	185.42	No sheen or odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <5	NA	NA	NA	Not Analyzed
6/19/97*				12.46◊	186.47	Not Available	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <5	NA	NA	NA	Not Analyzed
1/24/02*				10.08◊	188.85	Not Available	58	ND <50	4	2.7	2.3	6.7	ND <5	NA	NA	NA	Not Analyzed
7/15/03*				12.45◊	186.48	Gray Slight odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <5	NA	NA	NA	Not Analyzed
10/10/03 *				14.00◊	184.93	Gray/Slight hydrocarbon odor	350	75	14	16	23	60	ND <5	NA	NA	NA	Not Analyzed
4/06/04*				10.78◊	188.15	Light brown No odor	ND <50	ND <50	ND <0.5	1.7	ND <0.5	1.7	ND<5 <sup>B</sup> ND<0.5 <sup>C</sup>	NA	ND <5	NA	None Detected
7/09/04*				14.14◊	184.79	Dark gray No odor	260	ND <50	12	13	14	36	ND <5 <sup>B</sup>	NA	NA	NA	Not Analyzed
10/08/04 *				14.99◊	183.94	Brown No odor	450	76	21	22	30	86	ND <5 <sup>B</sup>	NA	NA	NA	Not Analyzed

**TABLE 1 CONT'D  
GROUNDWATER MONITORING DATA (feet)  
AND ANALYTICAL RESULTS (µg/L)**

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs
4/02/07*	MW-3 (198.93)	36.5	15.5-36	11.87◊	187.06	No sheen or odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND<5 <sup>B</sup> ND<0.5 <sup>C</sup>	NA	ND <5	NA	None Detected
7/02/07*				14.45◊	184.48	No sheen or odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND<5 <sup>B</sup> ND<0.5 <sup>C</sup>	NA	ND <5	NA	None Detected
10/03/07 *				17.10♦	181.83	Brown No odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND<5 <sup>B</sup> ND<0.5 <sup>C</sup>	NA	ND <5	NA	None Detected
1/09/08*	(201.46) Resurvey			9.42◊	192.04	Brown No odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND<5 <sup>B</sup> ND<0.5 <sup>C</sup>	NA	ND <2	NA	None Detected
4/04/08*				15.16◊	186	No sheen or odor	ND <50	NA	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND<5 <sup>B</sup> ND<0.5 <sup>C</sup>	NA	ND <2	NA	None Detected
12/16/13				19.20♦	182.26	No sheen or odor	ND <50	NA	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	1.6	ND <10	0.9	cis-1,2-DCA 1.0
4/17/14				12.56◊	188.90	No sheen or odor	ND <50	NA	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	0.8	ND <10	ND <0.5	None Detected<0.5
11/04/14				19.17♦	182.27	No sheen or odor	ND <50	NA	ND <0.5	ND <0.5	ND <0.5	0.5	ND <0.5	2.0	ND <10	0.9	cis-1,2-Dichloroethene 0.6 1,2,4-Trimethylbenzene 0.7
10/03/07 *	MW-4 (200.23)	22	17-22	17.21♦	183.02	No sheen/Slight petroleum odor	11,000	2,000	1,100	87	ND <17	1,300	ND<1500 <sup>B</sup> 230 <sup>C</sup>	NA	ND <25	NA	1,2-Dichloroethane 6.4
1/09/08*				9.20◊	191.03	No sheen/Slight petroleum odor	17,000	2,600	1,300	120	580	790	ND<900 <sup>B</sup> 220 <sup>C</sup>	NA	79	NA	None Detected
4/04/08*				13.63◊	186.60	No sheen Petroleum odor	43,000	NA	1,600	200	500	1,300	ND<1500 <sup>B</sup> 190 <sup>C</sup>	NA	ND <20	NA	None Detected
12/16/13				20.44♦	179.79	No sheen Petroleum odor	4200	NA	370	26	130	100	43	ND <3.1	ND <63	ND <3.1	Isopropylbenzene 7.2 Propylbenzene 8.0 1,3,5-Trimethylbenzene 14 1,2,4-Trimethylbenzene 8.4 Naphthalene 100

**ENVIRO SOIL TECH CONSULTANTS**

**TABLE 1 CONT'D  
GROUNDWATER MONITORING DATA (feet)  
AND ANALYTICAL RESULTS (µg/L)**

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs
4/17/14	MW-4 (200.23)	22	17-22	10.97◊	189.26	No sheen Gasoline odor	7300	NA	550	55	540	305	45	ND <2.5	ND <100	ND <2.5	Isopropylbenzene 28 Propylbenzene 41 1,3,5-Trimethylbenzene 45 1,2,4-Trimethylbenzene 49 Naphthalene 310
11/04/14				20.78♦	179.45	No sheen Petroleum odor	4800	NA	220	21	190	66	33	ND <2.0	97	ND <2.0	Isopropylbenzene 17 Propylbenzene 24 1,3,5-Trimethylbenzene 6.2 tert-Butylbenzene 1.0 1,2,4-Trimethylbenzene 33 sec-Butylbenzene 3.5 para-Isopropyl Toluene 1.5 n-Butylbenzene 2.8 Naphthalene 28
10/03/07 ★	MW-5 (198.52)	22	17-22	17.44♦	181.08	No sheen/Strong petroleum odor	8,800	680	2,800	74	100	190	ND<250 <sup>B</sup> 150 <sup>C</sup>	NA	1,300	NA	1,2-Dichloroethane 66 Di-Isopropyl Ether.9
1/09/08★				10.01◊	188.51	No sheen/Strong hydrocarbon odor	7,400	580	2,000	5.6	93	29	ND<350 <sup>B</sup> 140 <sup>C</sup>	NA	1,000	NA	1,2-Dichloroethane 54 Di-Isopropyl Ether 5.6
4/04/08★				11.78◊	186.74	No sheen/Hydro- carbon odor	43,000	NA	12,000	2,800	670	2,500	ND<500 <sup>B</sup> 97 <sup>C</sup>	NA	1,200	NA	1,2-Dichloroethane 84
12/16/13				18.65♦	179.87	No sheen Petroleum odor	1300	NA	240	ND <2.5	5.7	ND <2.5	86	ND <2.5	460	ND <2.5	1,2-Dichloroethane 2.5
4/17/14				16.32◊	182.20	No sheen Gasoline odor	2100	NA	400	ND <2.5	30	ND <2.5	91	ND <2.5	440	ND <2.5	1,2-Dichloroethane 2.8 Isopropylbenzene 4.5 Propylbenzene 6.8
11/04/14				19.53♦	178.99	No sheen Petroleum odor	470 <sup>D</sup>	NA	1.1	ND <0.5	0.9	ND <0.5	59	ND <0.5	320	ND <0.5	1,2-Dichloroethane 2.1 tert-Butylbenzene 1.2 sec-Butylbenzene 1.2
10/03/07 ★	MW-6 (200.20)	22	17-22	18.46♦	181.74	No sheen Petroleum odor	11,000	1,00	1,400	64	74	320	ND<1200 <sup>B</sup> 210 <sup>C</sup>	NA	ND <50	NA	1,2-Dichloroethane 6.6
1/09/08★				11.93◊	188.27	No sheen/Strong petroleum odor	8,400	1,300	790	17	210	51	ND<400 <sup>B</sup> 160 <sup>C</sup>	NA	87	NA	None Detected

**TABLE 1 CONT'D  
GROUNDWATER MONITORING DATA (feet)  
AND ANALYTICAL RESULTS (µg/L)**

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs
4/04/08*	MW-6 (200.20)	22	17-22	15.69◊	184.51	No sheen/Strong petroleum odor	6,100	NA	630	52	430	130	ND<500 <sup>B</sup> 200 <sup>C</sup>	NA	ND <10	NA	1,2-Dichloroethane 2.7
12/16/13				19.60♦	180.60	No sheen Petroleum odor	1400 <sup>D</sup>	NA	100	1.9	9.0	5.0	170	ND <1.0	110	ND <1.0	Isopropylbenzene 7.13 Propylbenzene 13 1,3,5-Trimethylbenzene 74 sec-Butylbenzene 2.1 para-Isopropyl Toluene 1.1 Naphthalene 14
4/17/14				17.38♦	182.82	No sheen Gasoline odor	740 <sup>D</sup>	NA	49	1.1	22	0.9	97	ND <0.5	59	ND <0.5	Isopropylbenzene 8.1 Propylbenzene 11 sec-Butylbenzene 2.0 n-Butylbenzene 1.5
11/04/14				18.73♦	181.47	No sheen Petroleum odor	1300	NA	52	1.0	3.2	1.4	140	ND <0.5	110	ND <0.5	1,2-Dichloroethane 0.5 Isopropylbenzene 9.1 Propylbenzene 11 1,2,4-Trimethylbenzene 1.1 sec-Butylbenzene 3.5 para-Isopropyl Toluene 1.2 Naphthalene 3.6
12/16/13	MW-7			19.49	NA	No sheen Strong petroleum odor	21000	NA	7200	ND <50	280	164	ND <50	ND <50	2100	ND <50	None Detected
4/17/14				10.54	NA	No sheen Strong gasoline odor	11000	NA	3900	22	290	157	23	ND <5.0	1400	ND <5.0	Isopropylbenzene 24 Propylbenzene 38 1,3,5-Trimethylbenzene 19 1,2,4-Trimethylbenzene 78
11/04/14				20.32	NA	No sheen Strong petroleum odor	8400	NA	4100	ND <25	260	ND<2 5	ND <25	ND <25	1400	ND <25	Isopropylbenzene 35 Propylbenzene 49

**ENVIRO SOIL TECH CONSULTANTS**

**TABLE 1 CONT'D**  
**GROUNDWATER MONITORING DATA (feet)**  
**AND ANALYTICAL RESULTS (µg/L)**

**TPHg** - Total Petroleum Hydrocarbons as gasoline  
**BTEX** - Benzene, Toluene, Ethylbenzene, Total Xylenes  
**TBA** - tert-Butanol  
**PCE** - Tetrachloroethylene  
**GW Elev.** - Groundwater Elevation  
**NA** - Not Analyzed

**TPHd** - Total Petroleum Hydrocarbons as diesel  
**MTBE** - Methyl Tertiary Butyl Ether  
**TAME** - tert-Amyl Methyl Ether  
**TCE** - Trichloroethylene  
**Perf.** - Perforation  
**N/A** - Not Available

\* Samples were analyzed by Priority Environmental Labs for TPHg & TPHd by 8015M and BTEX by 8020/8021

★ Samples were analyzed by McCampbell Analytical Inc. for TPHg & TPHd by 8015M and BTEX by 8020/8021

<sup>A</sup> Date of well was monitored

<sup>B</sup> MTBE was analyzed by EPA Method 8020/8021

<sup>C</sup> MTBE and other fuel additives were analyzed by EPA Method 8260

<sup>D</sup> Sample exhibits chromatographic pattern which does not resemble standard

◆ Well screens are not submerged

◇ Well screens are submerged

**ND** - Not Detected (Below Laboratory Detection Limit)



**TABLE 2  
RECENT GROUNDWATER MONITORING DATA (feet)  
AND ANALYTICAL RESULTS (µg/L)**

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs
11/04/14	MW-1 (197.28)	25	12-25	19.27♦	178.01	No sheen or odor	97	21	ND <0.5	3.2	2.3	1.1	ND <0.5	ND <10	ND <0.5	Propylbenzene 0.5 1,2,4-Trimethylbenzene 1.3
11/04/14	MW-2 (198.93)	36	16-36	18.65♦	180.28	No sheen Petroleum odor	2100	150	27	120	84	25	ND <1.0	ND <20	ND <1.0	Isopropylbenzene 7.5 Propylbenzene 18 1,3,5-Trimethylbenzene 6.2 tert-Butylbenzene 1.0 1,2,4-Trimethylbenzene 33 sec-Butylbenzene 3.5 para-Isopropyl Toluene 1.5 n-Butylbenzene 2.8 Naphthalene 28
11/04/14	MW-3 (201.46)	36.5	15.5-36	19.19♦	182.27	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	0.5	ND <0.5	2.0	ND <10	0.9	cis-1,2-Dichloroethene 0.6 1,2,4-Trimethylbenzene 0.7
11/04/14	MW-4 (200.23)	22	17-22	20.78♦	179.45	No sheen Petroleum odor	4800	220	21	190	66	33	ND <2.0	97	ND <2.0	Isopropylbenzene 17 Propylbenzene 24 1,3,5-Trimethylbenzene 7.8 sec-Butylbenzene 2.7 para-Isopropyl Toluene 2.6 Naphthalene 73
11/04/14	MW-5 (198.52)	22	17-22	19.53♦	178.99	No sheen Slight petroleum odor	470 <sup>p</sup>	1.1	ND <0.5	0.9	ND <0.5	59	ND <0.5	320	ND <0.5	1,2-Dichloroethane 2.1 tert-Butylbenzene 1.2 sec-Butylbenzene 1.2
11/04/14	MW-6 (200.20)	22	17-22	18.73♦	181.47	No sheen Petroleum odor	1300	52	1.0	3.2	1.4	140	ND <0.5	110	ND <0.5	1,2-Dichloroethane 0.5 Isopropylbenzene 9.1 Propylbenzene 11 1,2,4-Trimethylbenzene 1.1 sec-Butylbenzene 3.5 para-Isopropyl Toluene 1.2 Naphthalene 3.6

**ENVIRO SOIL TECH CONSULTANTS**

**TABLE 2 CONT'D  
 RECENT GROUNDWATER MONITORING DATA (feet)  
 AND ANALYTICAL RESULTS (µg/L)**

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs
11/04/14	MW-7			20.32	NA	No sheen Strong petroleum odor	8400	4100	ND <25	260	ND <25	ND <25	ND <25	1400	ND <25	Isopropylbenzene 35 Propylbenzene 49

**TPHg** - Total Petroleum Hydrocarbons as gasoline  
**BTEX** - Benzene, Toluene, Ethylbenzene, Total Xylenes  
**TBA** - tert-Butanol  
**PCE** - Tetrachloroethylene  
**GW Elev.** - Groundwater Elevation  
 ♦ Well screens are not submerged  
**NA** - Not Analyzed  
<sup>D</sup> Sample exhibits chromatographic pattern which does not resemble standard

**TPHd** - Total Petroleum Hydrocarbons as diesel  
**MTBE** - Methyl Tertiary Butyl Ether  
**cis-1,2-DCE** - cis-1,2-Dichloroethene  
**TCE** - Trichloroethylene  
**Perf.** - Perforation  
 ♦ Well screens are submerged  
**ND** - Not Detected (Below Laboratory Detection Limit)

**TABLE 3  
SUMMARY OF MONITORING WELL DATA  
IN FEET**

<b>Well No.</b>	<b>Well Diameter (inch)</b>	<b>Depth of Well</b>	<b>Depth of Perforation</b>	<b>Depth of Blank</b>	<b>Depth of Cement</b>	<b>Depth of Bentonite</b>	<b>Depth of Sand</b>
MW-1	2	25	12-25	0-12	0.5-10	110-11	11-25
MW-2	2	36	16-36	0-16	0.5-14	14-15	15-36
MW-3	2	36.5	15.5-36	0-15.5	0.5-13.5	13.5-14.5	14-36.5
MW-4	2	22	17-22	0-17	0.5-15	15-16	16-22
MW-5	4	22	17-22	0-17	0.5-15	15-16	16-22
MW-6	2	22	17-22	0-17	0.5-15	15-16	16-22

File No. 3-13-855-SC  
November 25, 2014

## **A P P E N D I X "B"**

### **FIGURES**

**ENVIRO SOIL TECH CONSULTANTS**



**3635 13<sup>TH</sup> AVENUE, OAKLAND, CA**

**ENVIRO SOIL TECH CONSULTANTS**

Figure 1

Enviro Soil Tech  
Consultants

131 Tully Road  
San Jose, CA 95112

PROJECT

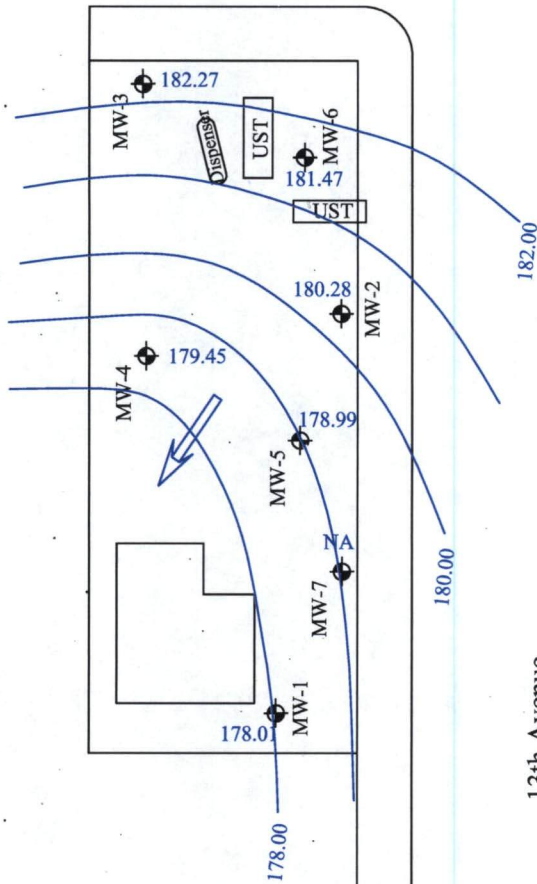
3635 13th Avenue  
Oakland, California

PROJECT # 3-13-855-SC  
DATE: 11/19/2014

Figure 2

Groundwater Gradient  
November 4, 2014

Excelsior Ave.

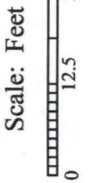


13th Avenue

Legend

◆ = Monitor Well

Contour Intervals = 1.0 feet





Enviro Soil Tech  
Consultants

131 Tully Road  
San Jose, CA 95112

PROJECT

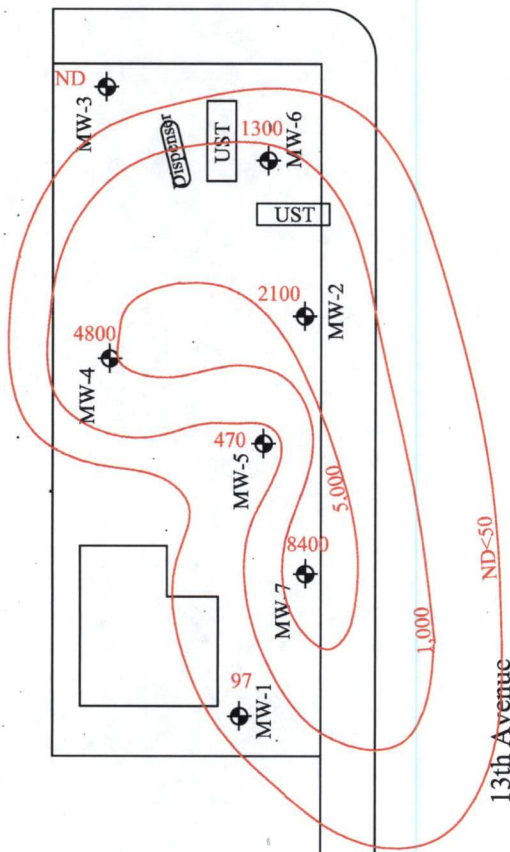
3635 13th Avenue  
Oakland, California

PROJECT # 3-13-855-SC  
DATE: 11/19/2014

Figure 3

Isocontours of TPH-g in  
Groundwater 11/4/2014

Excelsior Ave.



Legend

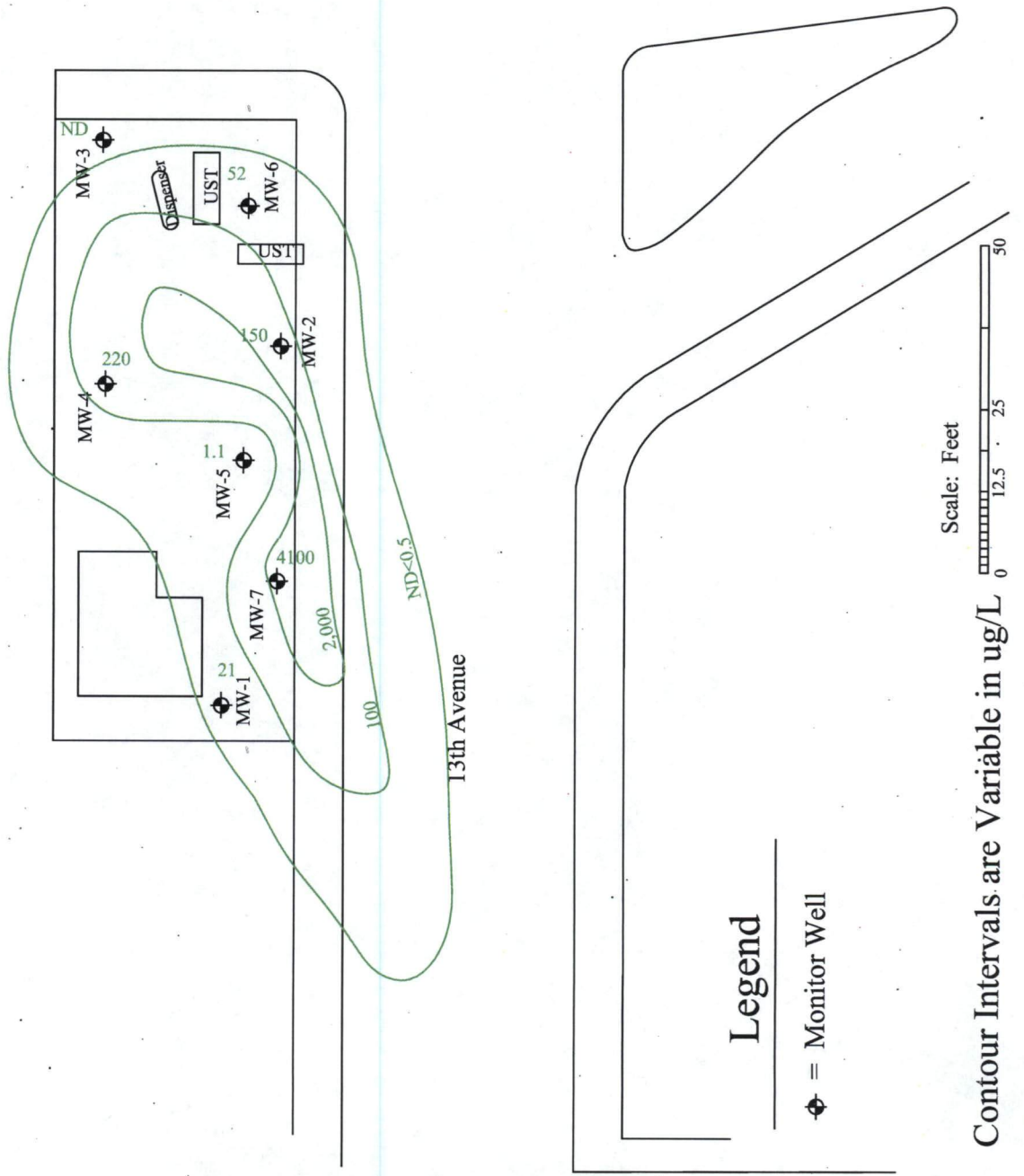
◆ = Monitor Well

Scale: Feet



Contour Intervals are Variable in ug/L

Excelsior Ave.







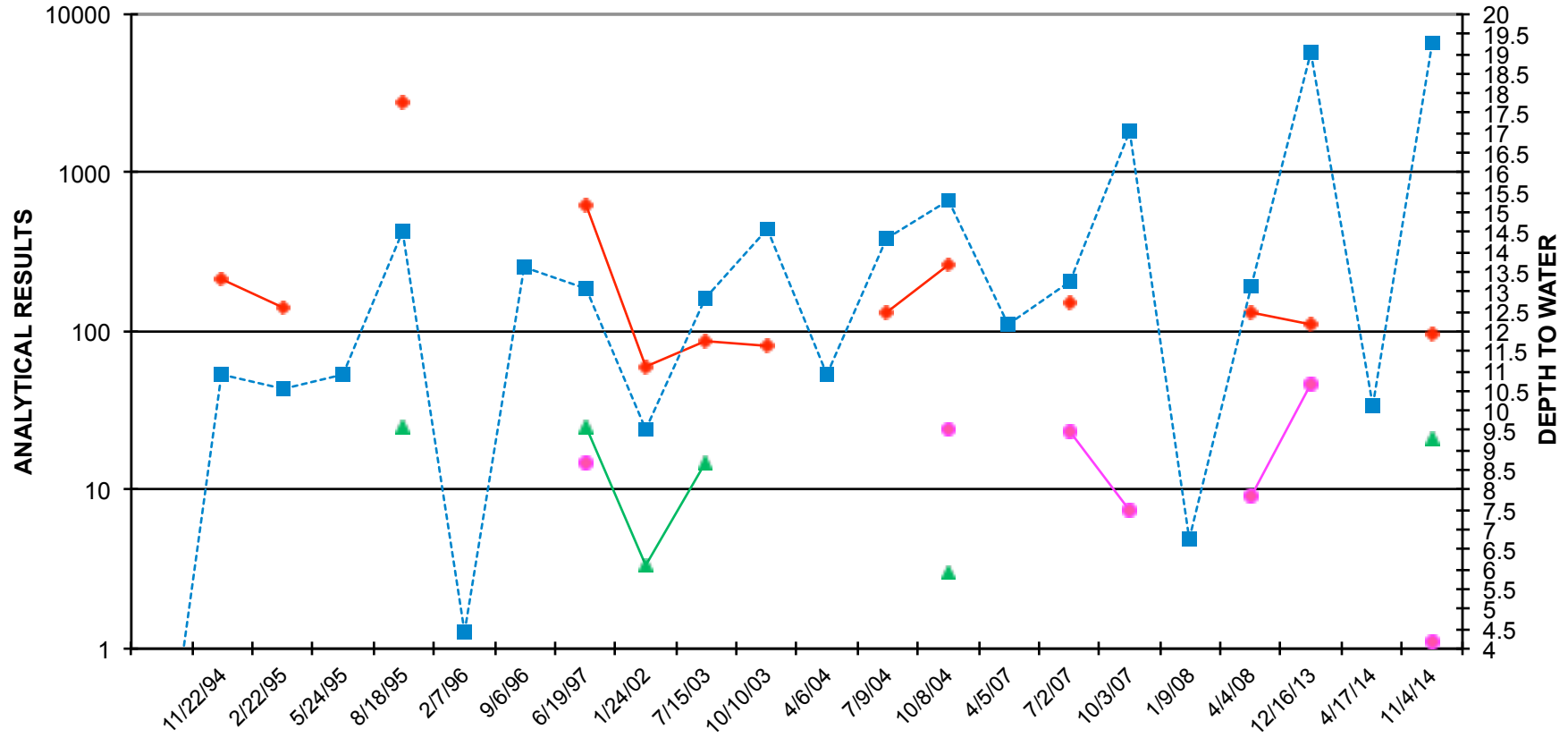
File No. 3-13-855-SC  
November 25, 2014

## **A P P E N D I X "C"**

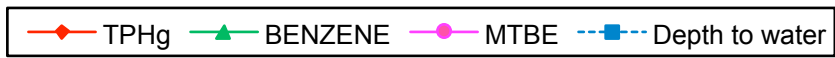
### **HYDROGRAPHS**

**ENVIRO SOIL TECH CONSULTANTS**

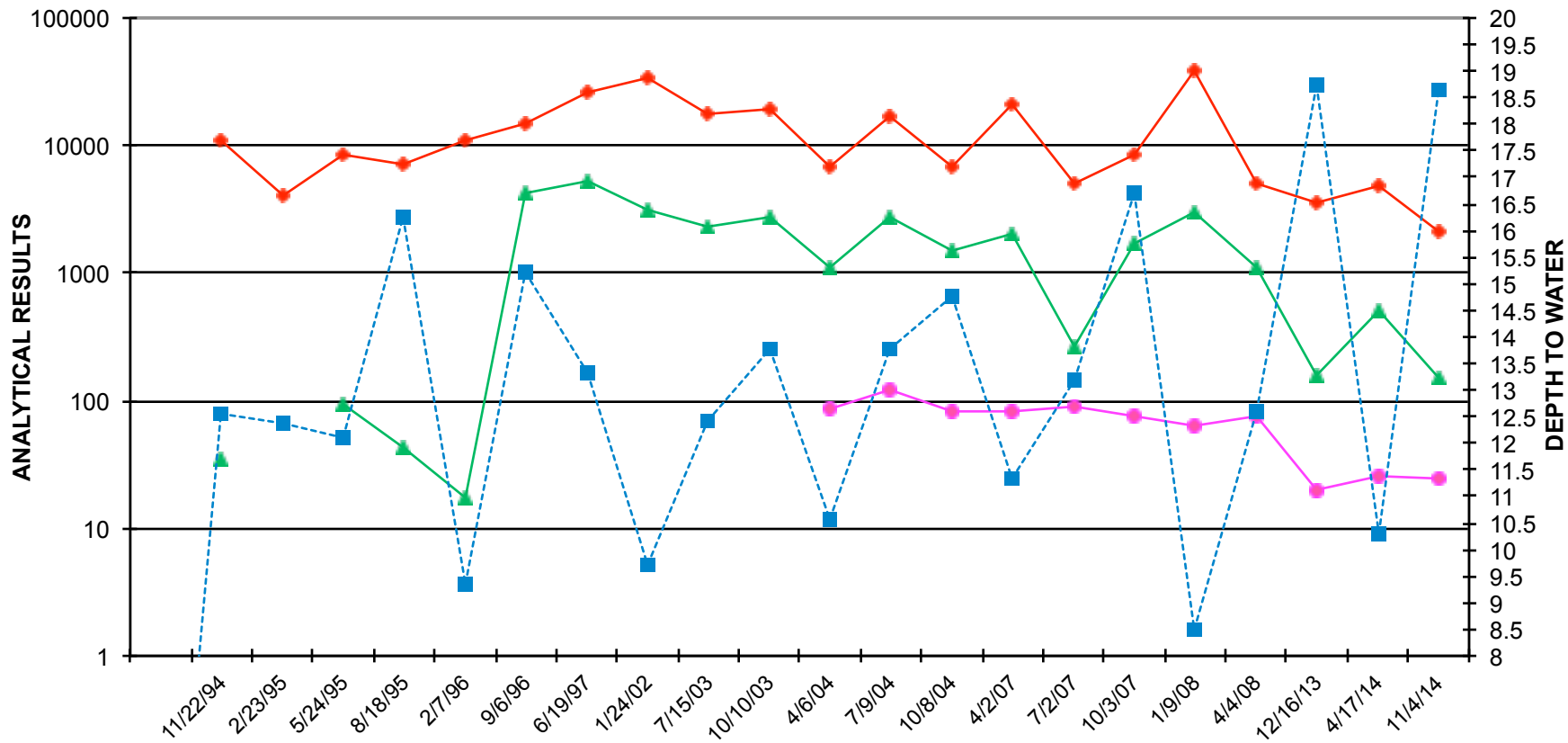
**FILE NO.: 3-13-855-SC**  
**TPHg, BENZENE & MTBE RESULTS FOR MW-1 (µg/L)**  
**DEPTH TO WATER MEASUREMENT (feet)**



**ENVIRO SOIL TECH CONSULTANTS**



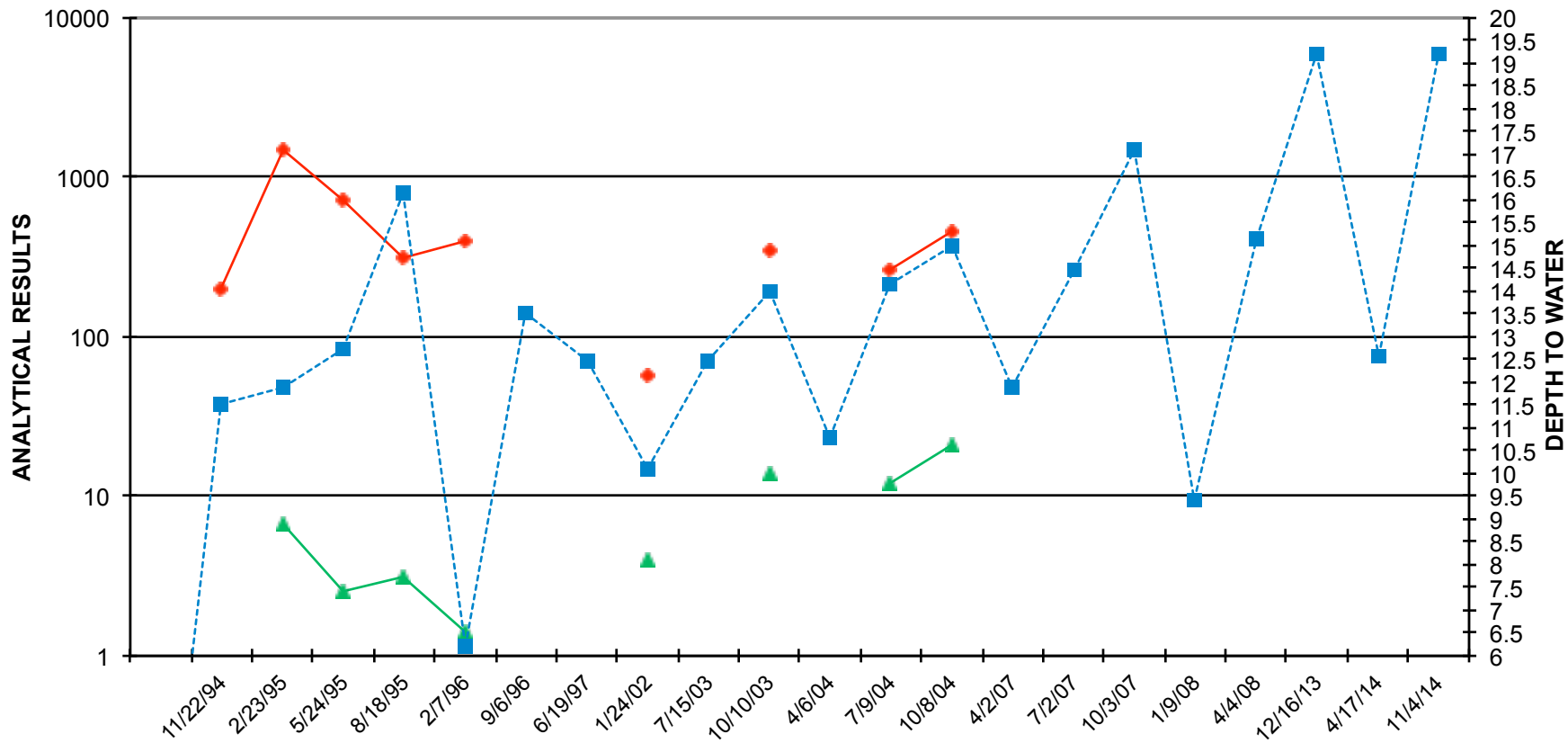
**FILE NO.: 3-13-855-SC**  
**TPHg, BENZENE & MTBE RESULTS FOR MW-2 (µg/L)**  
**DEPTH TO WATER MEASUREMENT (feet)**



**ENVIRO SOIL TECH CONSULTANTS**



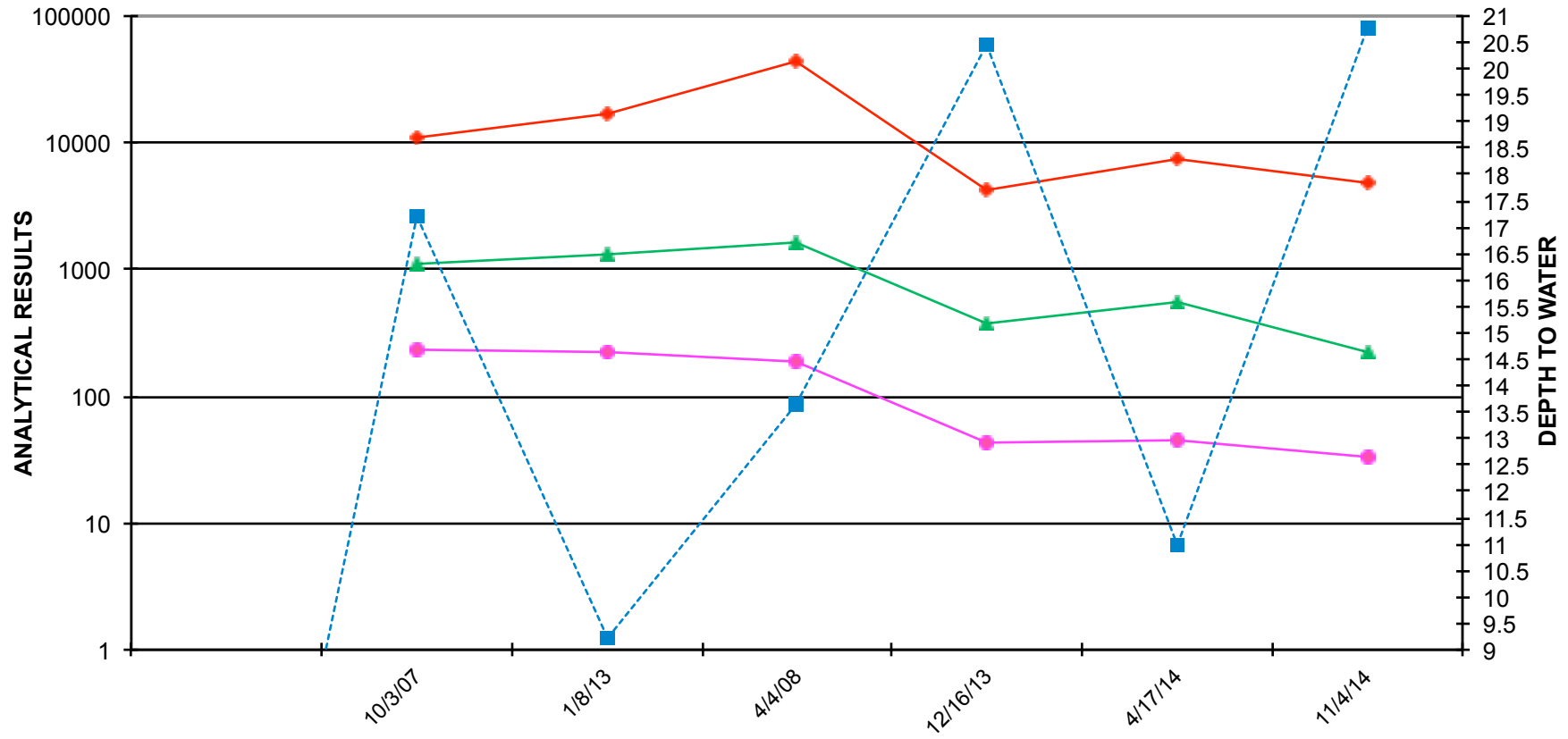
**FILE NO.: 3-13-855-SC**  
**TPHg, BENZENE & MTBE RESULTS FOR MW-3 (µg/L)**  
**DEPTH TO WATER MEASUREMENT (feet)**



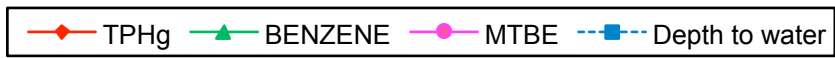
**ENVIRO SOIL TECH CONSULTANTS**



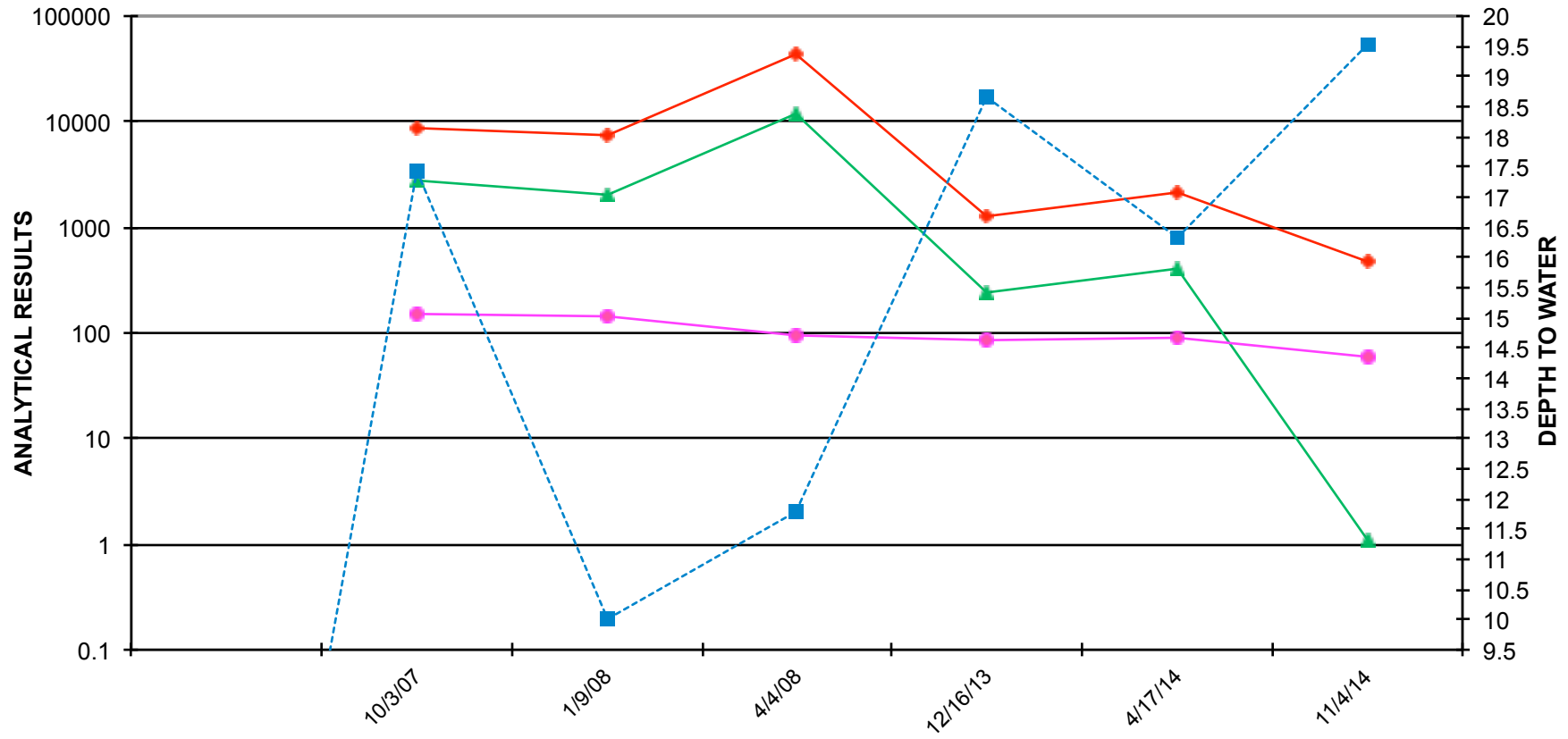
**FILE NO.: 3-13-855-SC**  
**TPHg, BENZENE & MTBE RESULTS FOR MW-4 (µg/L)**  
**DEPTH TO WATER MEASUREMENT (feet)**



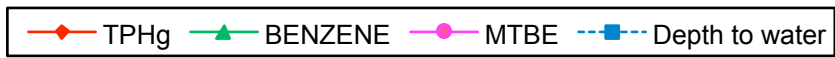
**ENVIRO SOIL TECH CONSULTANTS**



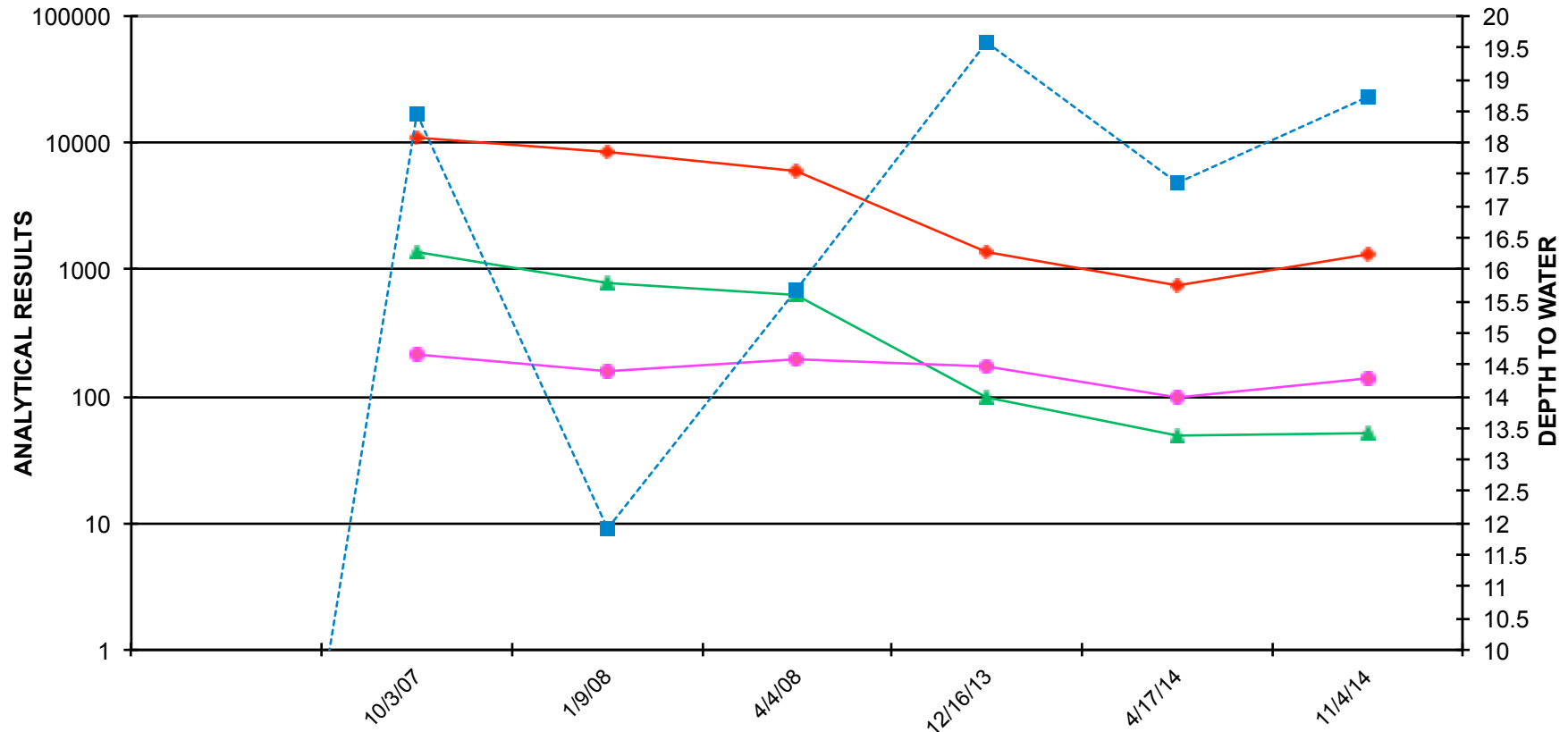
**FILE NO.: 3-13-855-SC**  
**TPHg, BENZENE & MTBE RESULTS FOR MW-5 (µg/L)**  
**DEPTH TO WATER MEASUREMENT (feet)**



**ENVIRO SOIL TECH CONSULTANTS**



**FILE NO.: 3-13-855-SC**  
**TPHg, BENZENE & MTBE RESULTS FOR MW-6 (µg/L)**  
**DEPTH TO WATER MEASUREMENT (feet)**

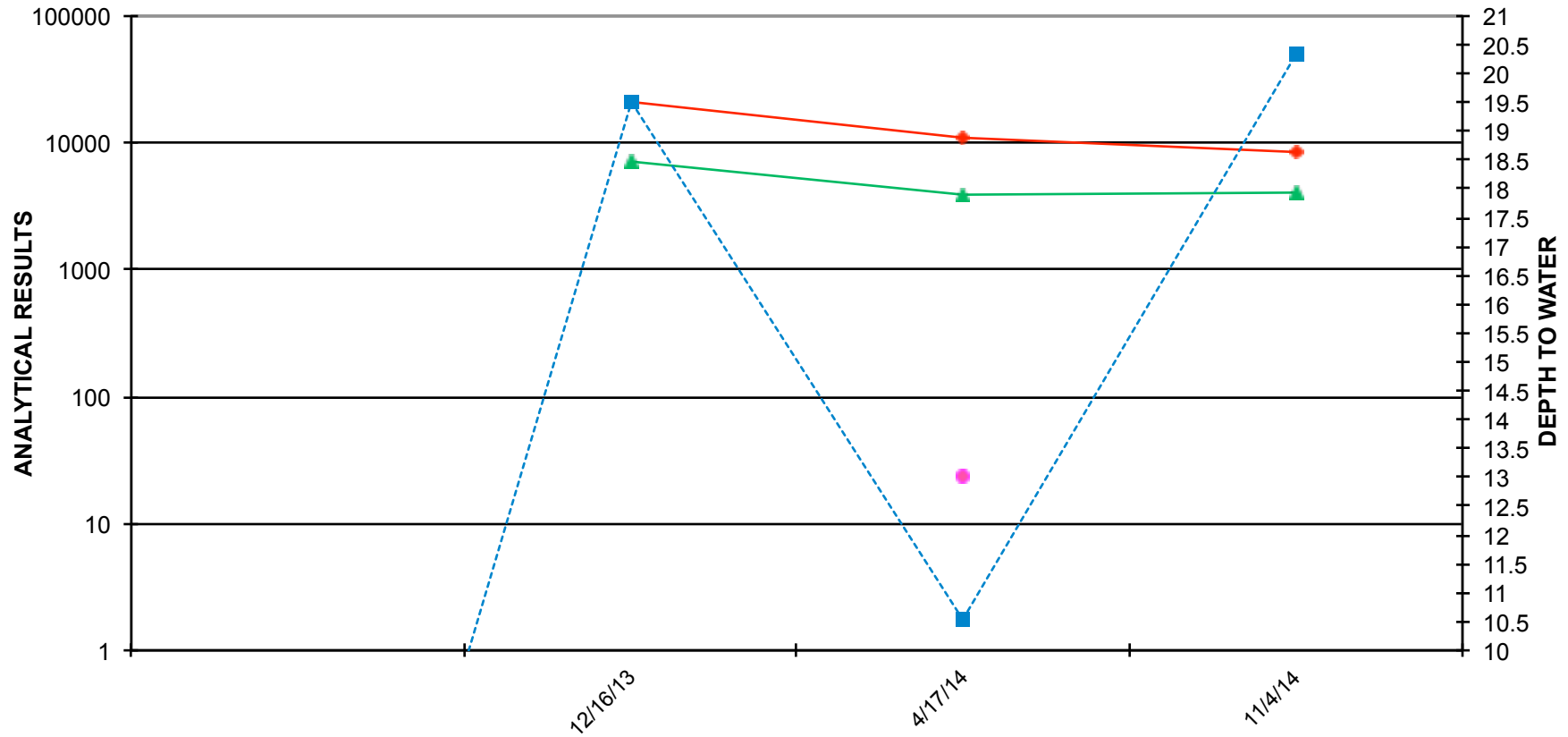


**ENVIRO SOIL TECH CONSULTANTS**





FILE NO.: 3-13-855-SC  
TPHg, BENZENE & MTBE RESULTS FOR MW-7 (µg/L)  
DEPTH TO WATER MEASUREMENT (feet)



ENVIRO SOIL TECH CONSULTANTS



File No. 3-13-855-SC  
November 25, 2014

## **A P P E N D I X "D"**

### **STANDARD OPERATION PROCEDURE**

**ENVIRO SOIL TECH CONSULTANTS**

## **GROUNDWATER SAMPLING**

All of the sampling equipment (i.e. bailer, cables, bladder pump, discharge lines and etc.) was cleaned by pumping TSP water solution followed by distilled water prior to collection of groundwater samples

Prior to purging, the well "Water Sampling Field Survey Forms" were filled out (depth to water and total depth of water column were measured and recorded). The well was then bailed or pumped to remove four to ten well volumes or until the discharged water temperature, conductivity and pH stabilized. "Stabilized" is defined as three consecutive readings within 15% of one another.

The groundwater sample was collected when the water level in the well recovered to 80% of its static level.

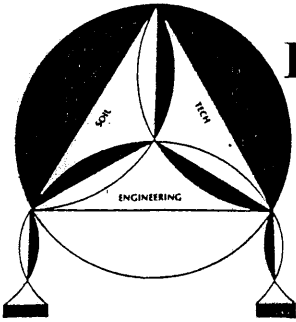
Forty milliliter (ml.), glass volatile organic analysis (VOA) vials with Teflon septa were used as sample containers. The groundwater sample was decanted into each VOA vial in such a manner that there was a meniscus at the top. The cap was quickly placed over the top of the vial and securely tightened. The VOA vials were then inverted and tapped to see if air bubbles were present. If none were present, the sample was labeled and refrigerated for delivery under chain-of-custody to the laboratory. The label information would include a sample identification number, job identification number, date, time, type of analysis requested and the sampler's name.

File No. 3-13-855-SC  
November 25, 2014

## **A P P E N D I X "E"**

### **FIELD NOTES**

**ENVIRO SOIL TECH CONSULTANTS**



# ENVIRO SOIL TECH CONSULTANTS

Environmental & Geotechnical Consultants

131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111

Tel: (408) 297-1500

Fax: (408) 694-3447

Email: [info@envirosoiltech.com](mailto:info@envirosoiltech.com)

FILE NO.: 3-13-855-SC

WELL NO.: MW-1

DATE: 11-4-14

SAMPLER: Frank

DEPTH TO WELL: 25'

1 WELL VOLUME: 0.94

DEPTH TO WATER: 19.27

5 WELL VOLUME: 4.7

HEIGHT OF WATER COLUMN: \_\_\_\_\_

ACTUAL PURGED VOLUME: 5

CASING DIAMETER: \_\_\_\_\_  2" \_\_\_\_\_ 4"

## CALCULATIONS:

2" - x 0.1632 x 5.73 = 0.94 x 5 = 4.7

4" - 0.653 \_\_\_\_\_

PURGE METHOD: \_\_\_\_\_ BAILER  DISPLACEMENT PUMP \_\_\_\_\_ OTHER

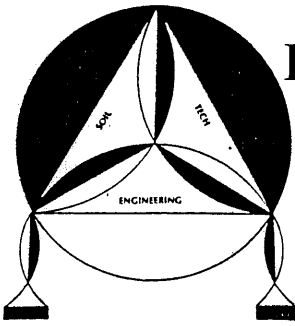
SAMPLE METHOD:  BAILER \_\_\_\_\_ OTHER

SHEEN:  NO \_\_\_\_\_ YES, DESCRIBE: \_\_\_\_\_

ODOR:  NO \_\_\_\_\_ YES, DESCRIBE: \_\_\_\_\_

## FIELD MEASUREMENTS

<u>TIME</u>	<u>VOLUME</u>	<u>pH</u>	<u>TEMP.</u>	<u>E.C.</u>
_____	<u>1</u>	<u>6.82</u>	<u>18.57</u>	<u>2705</u>
_____	<u>2</u>	<u>6.85</u>	<u>18.54</u>	<u>2731</u>
_____	<u>3</u>	<u>6.83</u>	<u>18.53</u>	<u>2739</u>
_____	<u>4</u>	<u>6.84</u>	<u>18.53</u>	<u>2727</u>
_____	<u>5</u>	<u>6.81</u>	<u>18.51</u>	<u>2720</u>



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Fax: (408) 694-3447

Email: [info@envirosoiltech.com](mailto:info@envirosoiltech.com)

FILE NO.: 3-13-855-SC

WELL NO.: MW-2

DATE: 11-4-14

SAMPLER: Frank

DEPTH TO WELL: 36'

1 WELL VOLUME: 2.83

DEPTH TO WATER: 18.65

5 WELL VOLUME: 14.15

HEIGHT OF WATER COLUMN: \_\_\_\_\_

ACTUAL PURGED VOLUME: 15

CASING DIAMETER: \_\_\_\_\_  2" \_\_\_\_\_ 4"

## CALCULATIONS:

2" - x 0.1632 x 17.35 = 2.83 x 5 = 14.15

4" - 0.653 \_\_\_\_\_

PURGE METHOD: \_\_\_\_\_ BAILER  DISPLACEMENT PUMP \_\_\_\_\_ OTHER

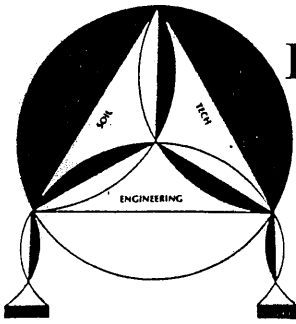
SAMPLE METHOD:  BAILER \_\_\_\_\_ OTHER

SHEEN:  NO \_\_\_\_\_ YES, DESCRIBE: \_\_\_\_\_

ODOR: \_\_\_\_\_ NO  YES, DESCRIBE: PBTW

## FIELD MEASUREMENTS

<u>TIME</u>	<u>VOLUME</u>	<u>pH</u>	<u>TEMP.</u>	<u>E.C.</u>
_____	<u>3</u>	<u>6.8</u>	<u>20.15</u>	<u>2291</u>
_____	<u>7</u>	<u>6.84</u>	<u>20.11</u>	<u>2297</u>
_____	<u>9</u>	<u>6.81</u>	<u>20.10</u>	<u>2290</u>
_____	<u>11</u>	<u>6.79</u>	<u>20.08</u>	<u>2283</u>
_____	<u>15</u>	<u>6.77</u>	<u>20.04</u>	<u>2281</u>



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Tel: (408) 297-1500

Fax: (408) 694-3447

Email: [info@envirosoiltech.com](mailto:info@envirosoiltech.com)

FILE NO.: 3-13-855-SC

WELL NO.: MW-3

DATE: 11-4-14

SAMPLER: Frank

DEPTH TO WELL: 36.5'

1 WELL VOLUME: 2.8

DEPTH TO WATER: 19.19

5 WELL VOLUME: 14

HEIGHT OF WATER COLUMN: \_\_\_\_\_

ACTUAL PURGED VOLUME: 14

CASING DIAMETER: \_\_\_\_\_  2" \_\_\_\_\_ 4"

## CALCULATIONS:

2" - x 0.1632 x 17.31 = 2.8 x 5 = 14

4" - 0.653 \_\_\_\_\_

PURGE METHOD: \_\_\_\_\_ BAILER  DISPLACEMENT PUMP \_\_\_\_\_ OTHER

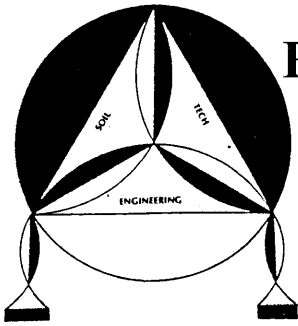
SAMPLE METHOD:  BAILER \_\_\_\_\_ OTHER

SHEEN:  NO \_\_\_\_\_ YES, DESCRIBE: \_\_\_\_\_

ODOR:  NO \_\_\_\_\_ YES, DESCRIBE: \_\_\_\_\_

## FIELD MEASUREMENTS

TIME	VOLUME	pH	TEMP.	E.C.
_____	<u>2</u>	<u>7.21</u>	<u>20.17</u>	<u>1429</u>
_____	<u>6</u>	<u>7.23</u>	<u>20.14</u>	<u>1420</u>
_____	<u>10</u>	<u>7.20</u>	<u>20.12</u>	<u>1435</u>
_____	<u>12</u>	<u>7.18</u>	<u>20.10</u>	<u>1422</u>
_____	<u>14</u>	<u>7.13</u>	<u>20.11</u>	<u>1417</u>



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Fax: (408) 694-3447

Email: [info@envirosoiltech.com](mailto:info@envirosoiltech.com)

FILE NO.: 3-13-855-SC

WELL NO.: MW-4

DATE: 11-4-14

SAMPLER: Frank

DEPTH TO WELL: 22'

1 WELL VOLUME: 0.2

DEPTH TO WATER: 20.78

5 WELL VOLUME: 1

HEIGHT OF WATER COLUMN: \_\_\_\_\_

ACTUAL PURGED VOLUME: 2

CASING DIAMETER: ✓ 2" \_\_\_\_\_ 4"

## CALCULATIONS:

2" - x 0.1632 x 1.22 = 0.2 x 5 = 1

4" - 0.653 \_\_\_\_\_

PURGE METHOD: \_\_\_\_\_ BAILER ✓ DISPLACEMENT PUMP \_\_\_\_\_ OTHER

SAMPLE METHOD: ✓ BAILER \_\_\_\_\_ OTHER

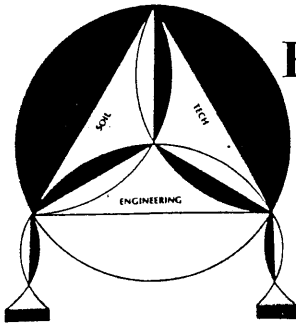
SHEEN: ✓ NO \_\_\_\_\_ YES, DESCRIBE: \_\_\_\_\_

ODOR: \_\_\_\_\_ NO ✓ YES, DESCRIBE: PEW

## FIELD MEASUREMENTS

TIME	VOLUME	pH	TEMP.	E.C.
_____	<u>1</u>	<u>7.0</u>	<u>19.25</u>	<u>2761</u>
_____	<u>2</u>	<u>7.08</u>	<u>19.29</u>	<u>2752</u>
_____	<u>Dry</u>	_____	_____	_____
_____	<u>Dry</u>	_____	_____	_____
_____	<u>Dry</u>	_____	_____	_____





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Environmental & Geotechnical Consultants

131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111

Tel: (408) 297-1500

Fax: (408) 694-3447

Email: [info@envirosoiltech.com](mailto:info@envirosoiltech.com)

FILE NO.: 3-13-855-SC

WELL NO.: MW-5

DATE: 11-4-14

SAMPLER: Frank

DEPTH TO WELL: 22'

1 WELL VOLUME: 0.4

DEPTH TO WATER: 19.53

5 WELL VOLUME: 2

HEIGHT OF WATER COLUMN: \_\_\_\_\_

ACTUAL PURGED VOLUME: 2

CASING DIAMETER:  2"

4"

## CALCULATIONS:

2" - x 0.1632 x 2.47 = 0.4 x 5 = 2

4" - 0.653 \_\_\_\_\_

PURGE METHOD:  BAILER  DISPLACEMENT PUMP  OTHER

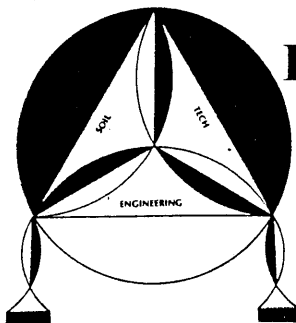
SAMPLE METHOD:  BAILER  OTHER

SHEEN:  NO  YES, DESCRIBE: \_\_\_\_\_

ODOR:  NO  YES, DESCRIBE: Petro

## FIELD MEASUREMENTS

<u>TIME</u>	<u>VOLUME</u>	<u>pH</u>	<u>TEMP.</u>	<u>E.C.</u>
	<u>1</u>	<u>6.65</u>	<u>19.87</u>	<u>3419</u>
	<u>2</u>	<u>6.67</u>	<u>19.84</u>	<u>3410</u>
	<u>Dry</u>			
	<u>Dry</u>			



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Environmental & Geotechnical Consultants

131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111

Tel: (408) 297-1500

Fax: (408) 694-3447

Email: [info@envirosoiltech.com](mailto:info@envirosoiltech.com)

FILE NO.: 3-13-855-SC

WELL NO.: MW-6

DATE: 11-4-14

SAMPLER: Frank

DEPTH TO WELL: 22'

1 WELL VOLUME: 0.53

DEPTH TO WATER: 18.73

5 WELL VOLUME: 2.65

HEIGHT OF WATER COLUMN: \_\_\_\_\_

ACTUAL PURGED VOLUME: 3

CASING DIAMETER:  2" \_\_\_\_\_

\_\_\_\_\_ 4"

### CALCULATIONS:

2" - x 0.1632 x 3.27 = 0.53 x 5 = 2.65

4" - 0.653 \_\_\_\_\_

PURGE METHOD: \_\_\_\_\_ BAILER  DISPLACEMENT PUMP \_\_\_\_\_ OTHER

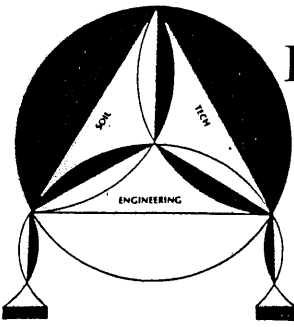
SAMPLE METHOD:  BAILER \_\_\_\_\_ OTHER

SHEEN:  NO \_\_\_\_\_ YES, DESCRIBE: \_\_\_\_\_

ODOR: \_\_\_\_\_ NO  YES, DESCRIBE: PEINOT

### FIELD MEASUREMENTS

<u>TIME</u>	<u>VOLUME</u>	<u>pH</u>	<u>TEMP.</u>	<u>E.C.</u>
_____	<u>1</u>	<u>6.73</u>	<u>20.25</u>	<u>2601</u>
_____	<u>2</u>	<u>6.71</u>	<u>20.21</u>	<u>2597</u>
_____	<u>3</u>	<u>6.68</u>	<u>20.17</u>	<u>2583</u>
_____	<u>Dry</u>	_____	_____	_____
_____	<u>Dry</u>	_____	_____	_____



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Fax: (408) 694-3447

Email: [info@envirosoiltech.com](mailto:info@envirosoiltech.com)

FILE NO.: 3-13-855-SC

WELL NO.: MW-7

DATE: 11-4-14

SAMPLER: Frank

DEPTH TO WELL: \_\_\_\_\_

1 WELL VOLUME: \_\_\_\_\_

DEPTH TO WATER: 20.32

5 WELL VOLUME: \_\_\_\_\_

HEIGHT OF WATER COLUMN: \_\_\_\_\_

ACTUAL PURGED VOLUME: 10

CASING DIAMETER: 2"

\_\_\_\_\_ 4"

## CALCULATIONS:

2" - x 0.1632 \_\_\_\_\_

4" - 0.653 \_\_\_\_\_

PURGE METHOD: \_\_\_\_\_ BAILER  DISPLACEMENT PUMP \_\_\_\_\_ OTHER

SAMPLE METHOD:  BAILER \_\_\_\_\_ OTHER

SHEEN:  NO \_\_\_\_\_ YES, DESCRIBE: \_\_\_\_\_

ODOR: \_\_\_\_\_ NO  YES, DESCRIBE: strong P2TD

## FIELD MEASUREMENTS

<u>TIME</u>	<u>VOLUME</u>	<u>pH</u>	<u>TEMP.</u>	<u>E.C.</u>
_____	<u>2</u>	<u>6.79</u>	<u>18.60</u>	<u>3030</u>
_____	<u>4</u>	<u>6.77</u>	<u>18.63</u>	<u>3012</u>
_____	<u>6</u>	<u>6.74</u>	<u>18.59</u>	<u>3021</u>
_____	<u>8</u>	<u>6.71</u>	<u>18.61</u>	<u>3029</u>
_____	<u>10</u>	<u>6.71</u>	<u>18.59</u>	<u>3020</u>

File No. 3-13-855-SC  
November 25, 2014

**A P P E N D I X "F"**

**LABORATORY REPORT**

**ENVIRO SOIL TECH CONSULTANTS**





**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 262264  
ANALYTICAL REPORT

Enviro Soil Tech Consultants  
131 Tully Road  
San Jose, CA 95111

Project : 3-13-855-SC  
Location : 3635 13th Avenue, Oakland  
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
MW-1	262264-001
MW-2	262264-002
MW-3	262264-003
MW-4	262264-004
MW-5	262264-005
MW-6	262264-006
MW-7	262264-007

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: \_\_\_\_\_

Will S Rice  
Project Manager  
will.rice@ctberk.com

Date: 11/17/2014

CA ELAP# 2896, NELAP# 4044-001

### CASE NARRATIVE

Laboratory number: 262264  
Client: Enviro Soil Tech Consultants  
Project: 3-13-855-SC  
Location: 3635 13th Avenue, Oakland  
Request Date: 11/04/14  
Samples Received: 11/04/14

This data package contains sample and QC results for seven water samples, requested for the above referenced project on 11/04/14. The samples were received cold and intact.

**TPH-Purgeables and/or BTXE by GC (EPA 8015B):**

No analytical problems were encountered.

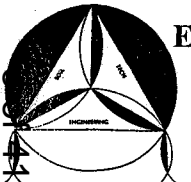
**Volatile Organics by GC/MS (EPA 8260B):**

Low response was observed for tert-butyl alcohol (TBA) in the CCV analyzed 11/13/14 08:40; this analyte met minimum response criteria, and affected data was qualified with "b". Low response was observed for tert-butyl alcohol (TBA) in the CCV analyzed 11/14/14 08:28; this analyte met minimum response criteria, and affected data was qualified with "b". No other analytical problems were encountered.

# CHAIN OF CUSTODY RECORD

202264

PROJ. NO. 3-13-855-SC		NAME 3635 13 <sup>th</sup> Avenue, Oakland					CON-TAINER	ANALYSES REQUESTED						REMARKS	
SAMPLERS: (Signature) 								Viols	TPHg(8015)	EPA 8260B*					
NO.	DATE	TIME	SOIL	WATER	AIR	LOCATION									
1	11/14/14			✓		MW-1	6	✓	✓						
2				✓		MW-2	6	✓	✓						
3				✓		MW-3	6	✓	✓						
4				✓		MW-4	6	✓	✓						
5				✓		MW-5	6	✓	✓						
6				✓		MW-6	6	✓	✓					*Full lists - please include TBA	
7				✓		MW-7	6	✓	✓						
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Date/Time		Received by: (Signature)			
		11/14/14 5:45				11/14/14 1:45									
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Date/Time		Received by: (Signature)			
Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Remarks: Please send lab report to Frank Hamedi							



**ENVIRO SOIL TECH CONSULTANTS**  
 Environmental & Geotechnical Consultants  
 131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111  
 Tel: (408) 297-1500 Fax: (408) 292-2116

rec'd on ice



**COOLER RECEIPT CHECKLIST**



Curtis & Tompkins, Ltd.

Login # 2102264 Date Received 11/04/14 Number of coolers 0  
 Client ESTC Project 3-13-855-SC

Date Opened 11/04 By (print) PM (sign) [Signature]  
 Date Logged in 11/04 By (print) PM (sign) [Signature]

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) \_\_\_\_\_

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

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) 1/6 VOAs for -007 read w/ bubbles > 6mm

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



Client Sample ID : MW-4

Laboratory Sample ID :

262264-004

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	4,800		50	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
MTBE	33		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
Benzene	220		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
Toluene	21		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
Ethylbenzene	190		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
m,p-Xylenes	54		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
o-Xylene	12		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
Isopropylbenzene	17		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
Propylbenzene	24		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
1,3,5-Trimethylbenzene	7.8		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
sec-Butylbenzene	2.7		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
para-Isopropyl Toluene	2.6		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
Naphthalene	73		8.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
tert-Butyl Alcohol (TBA)	97		40	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B

Client Sample ID : MW-5

Laboratory Sample ID :

262264-005

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	470	Y	50	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
MTBE	59		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichloroethane	2.1		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Benzene	1.1		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Ethylbenzene	0.9		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
tert-Butylbenzene	1.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
sec-Butylbenzene	1.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
tert-Butyl Alcohol (TBA)	320		10	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : MW-6

Laboratory Sample ID :

262264-006

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	1,300		50	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
MTBE	140		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
1,2-Dichloroethane	0.5		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Benzene	52		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Toluene	1.0		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Ethylbenzene	3.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
m,p-Xylenes	1.4		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Isopropylbenzene	9.1		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Propylbenzene	11		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2,4-Trimethylbenzene	1.1		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
sec-Butylbenzene	3.5		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
para-Isopropyl Toluene	1.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Naphthalene	3.6		2.0	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
tert-Butyl Alcohol (TBA)	110		20	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : MW-7

Laboratory Sample ID :

262264-007

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	8,400		50	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Benzene	4,100		25	ug/L	As Recd	50.00	EPA 8260B	EPA 5030B
Ethylbenzene	260		25	ug/L	As Recd	50.00	EPA 8260B	EPA 5030B
Isopropylbenzene	35		25	ug/L	As Recd	50.00	EPA 8260B	EPA 5030B
Propylbenzene	49		25	ug/L	As Recd	50.00	EPA 8260B	EPA 5030B
tert-Butyl Alcohol (TBA)	1,400		500	ug/L	As Recd	50.00	EPA 8260B	EPA 5030B

Y = Sample exhibits chromatographic pattern which does not resemble standard





## Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	217272
Units:	ug/L	Analyzed:	11/09/14
Diln Fac:	1.000		

Type: BS Lab ID: QC765128

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,119	112	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	116	77-128

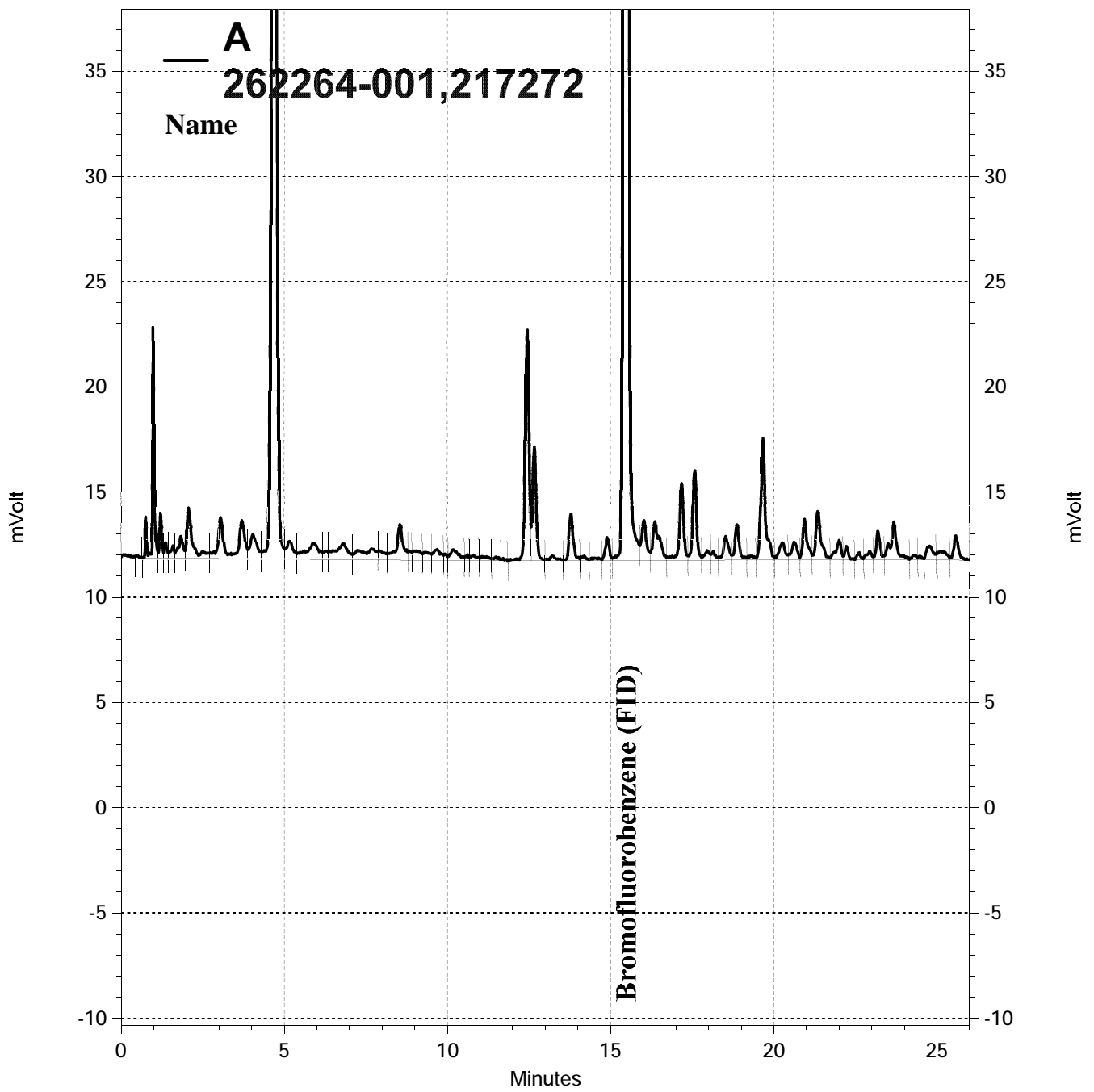
Type: BSD Lab ID: QC765129

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,124	106	80-120	5	20

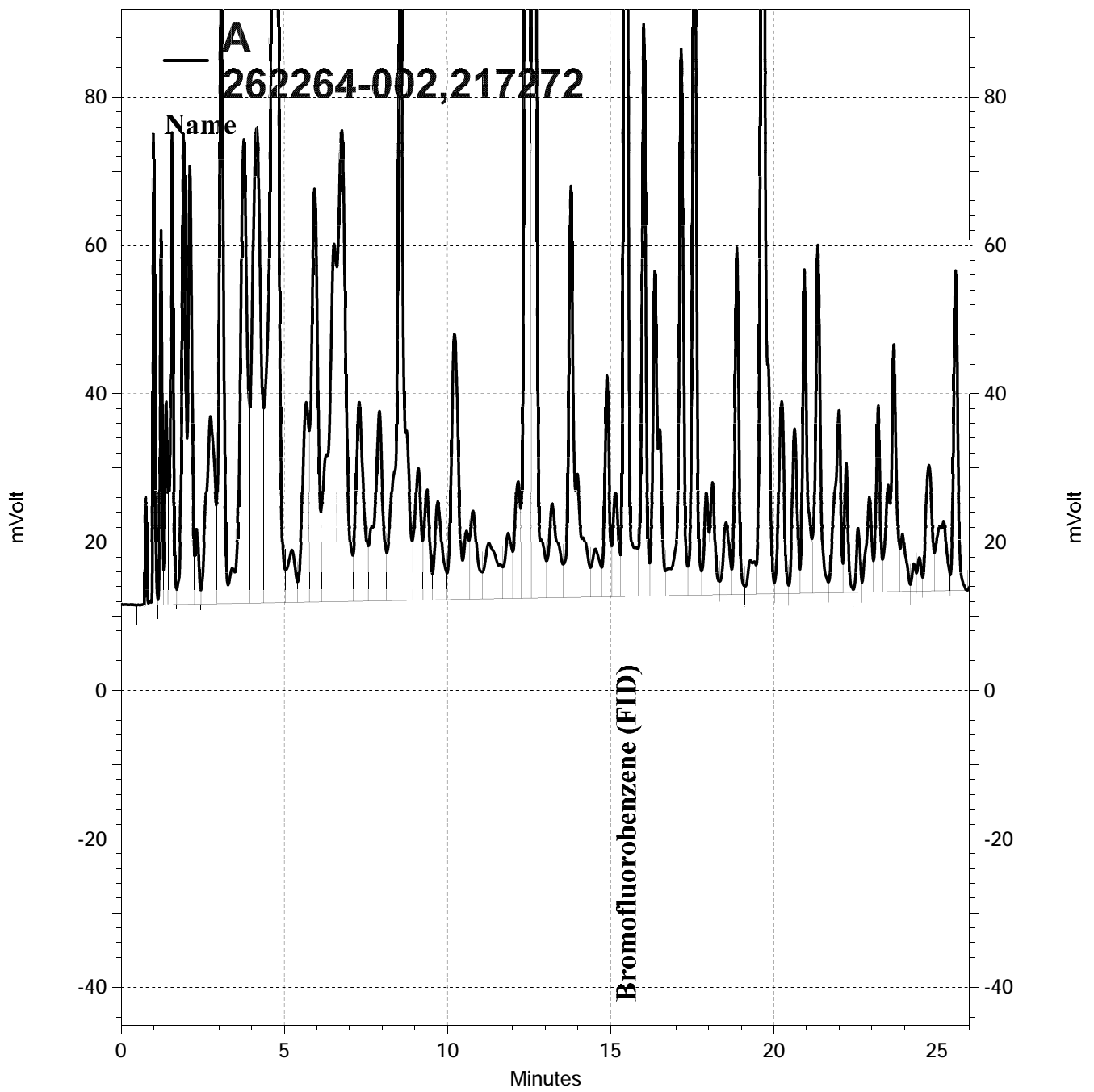
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	116	77-128

RPD= Relative Percent Difference

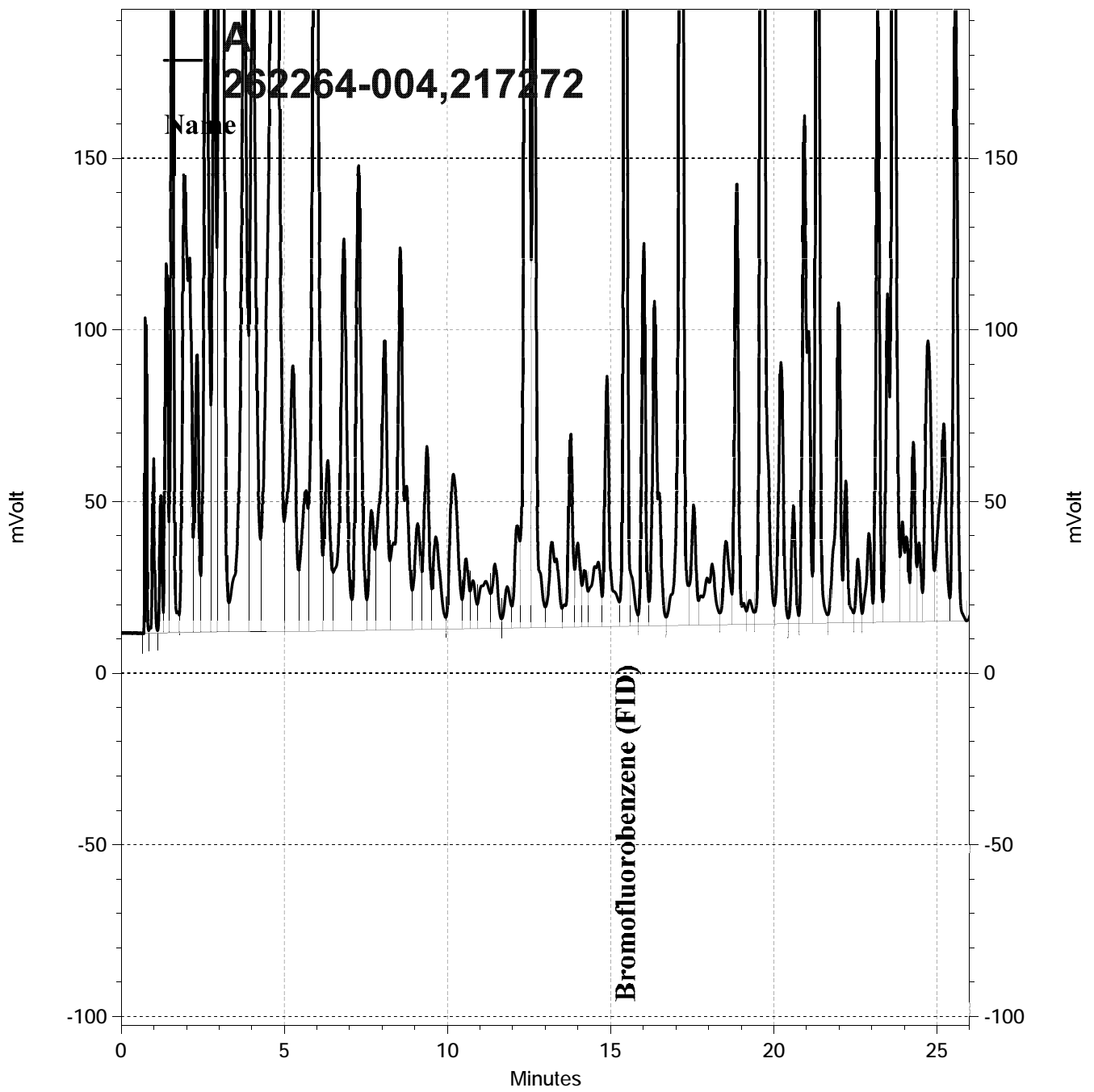


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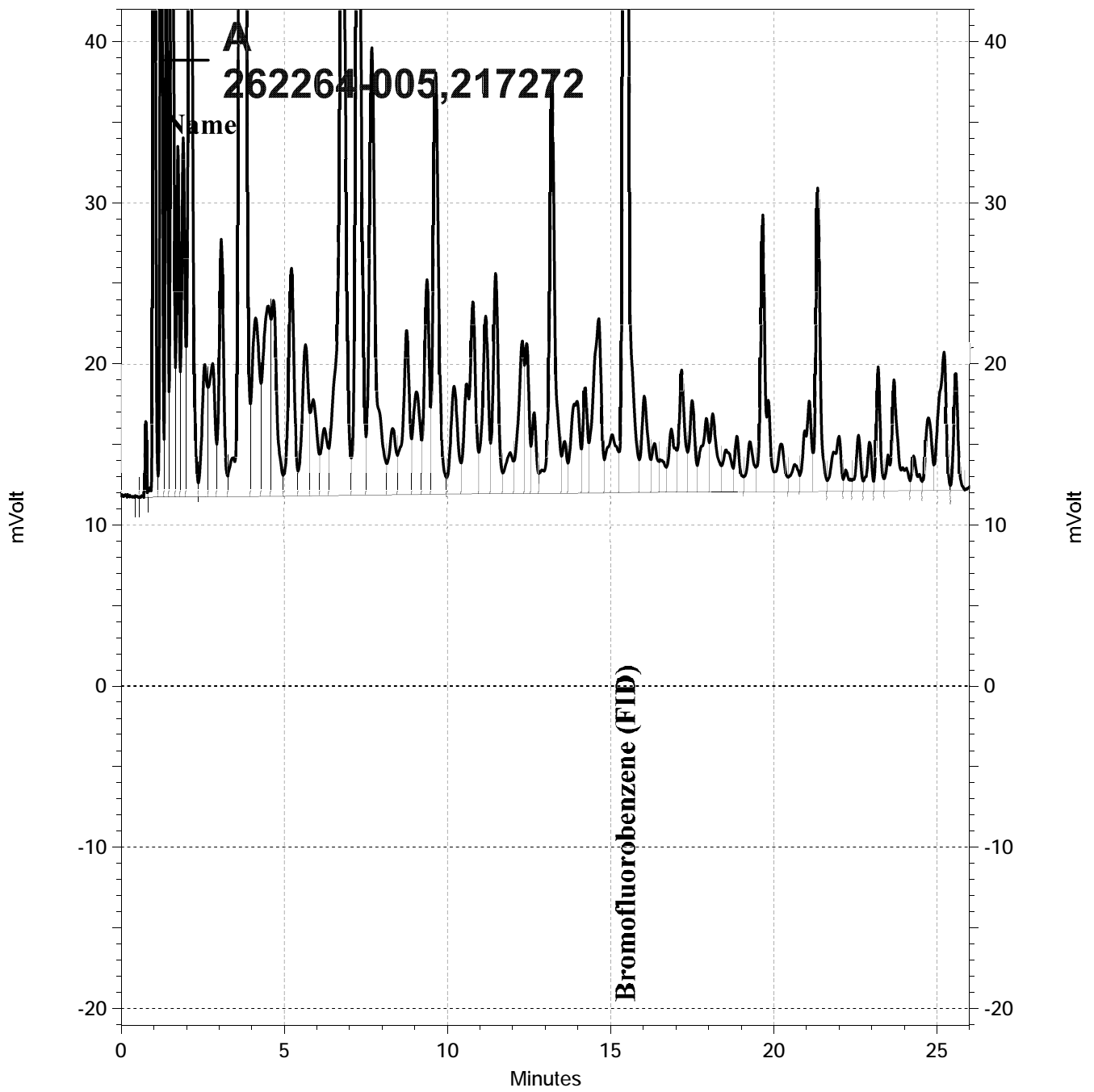




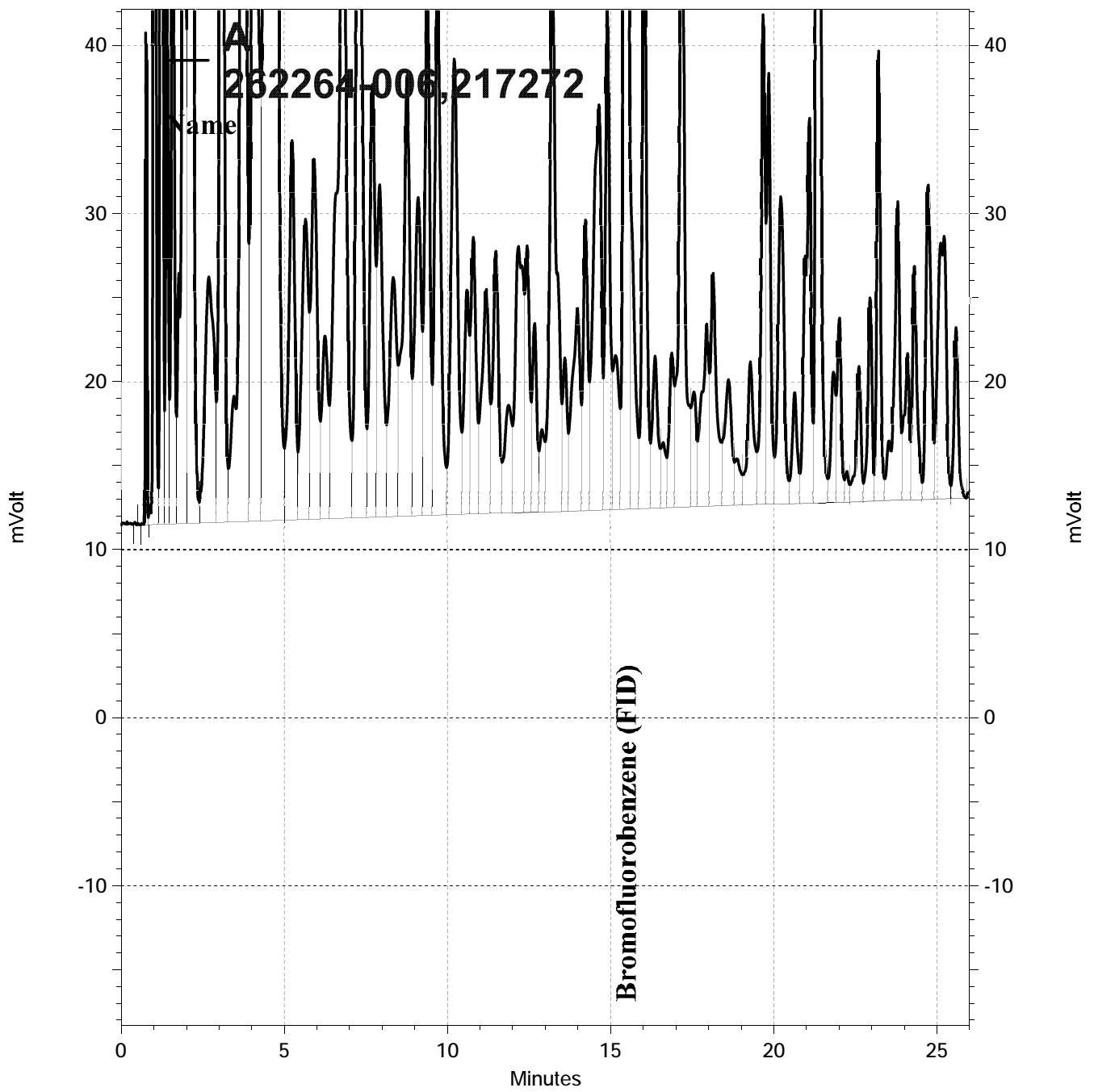
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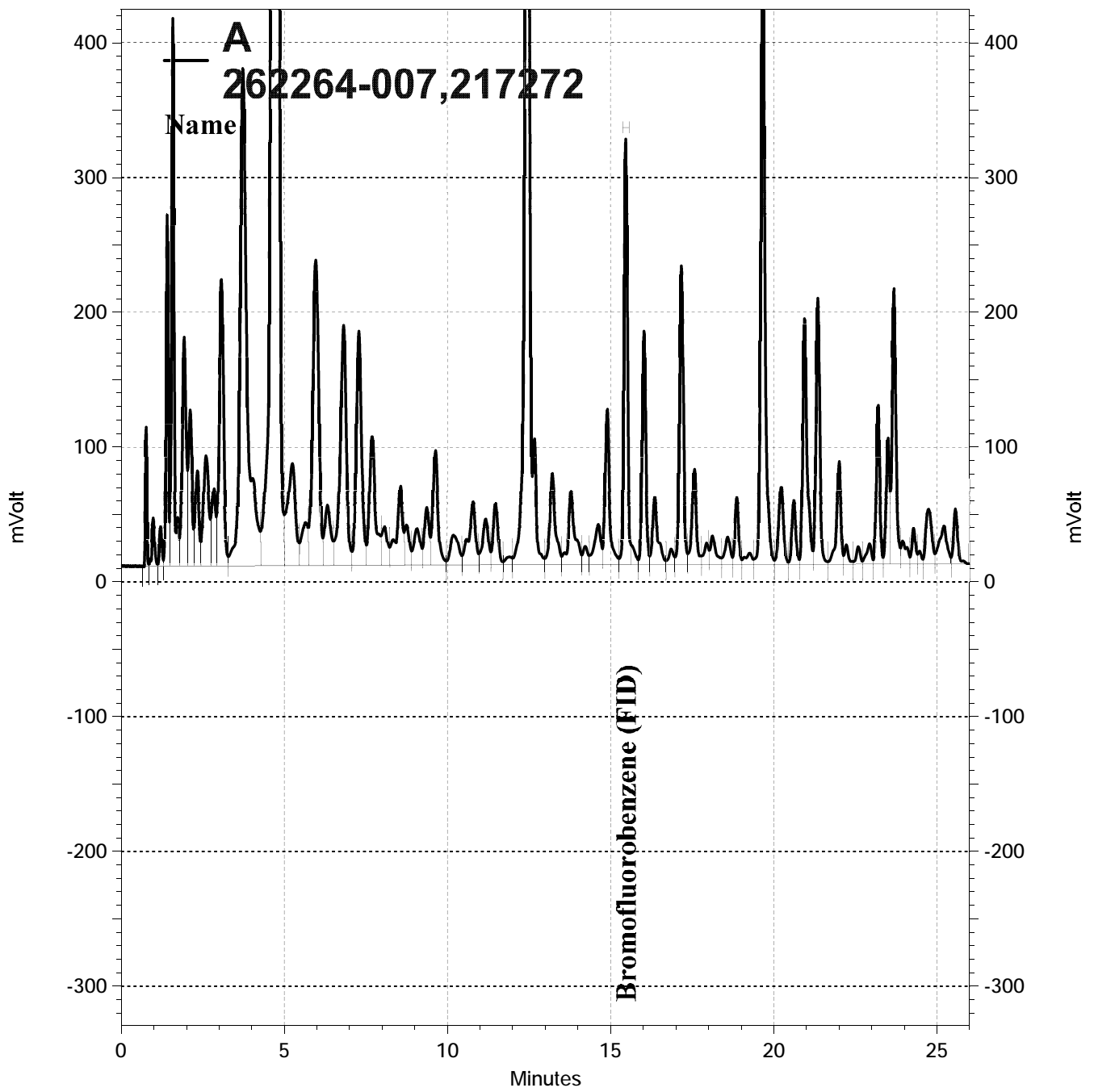
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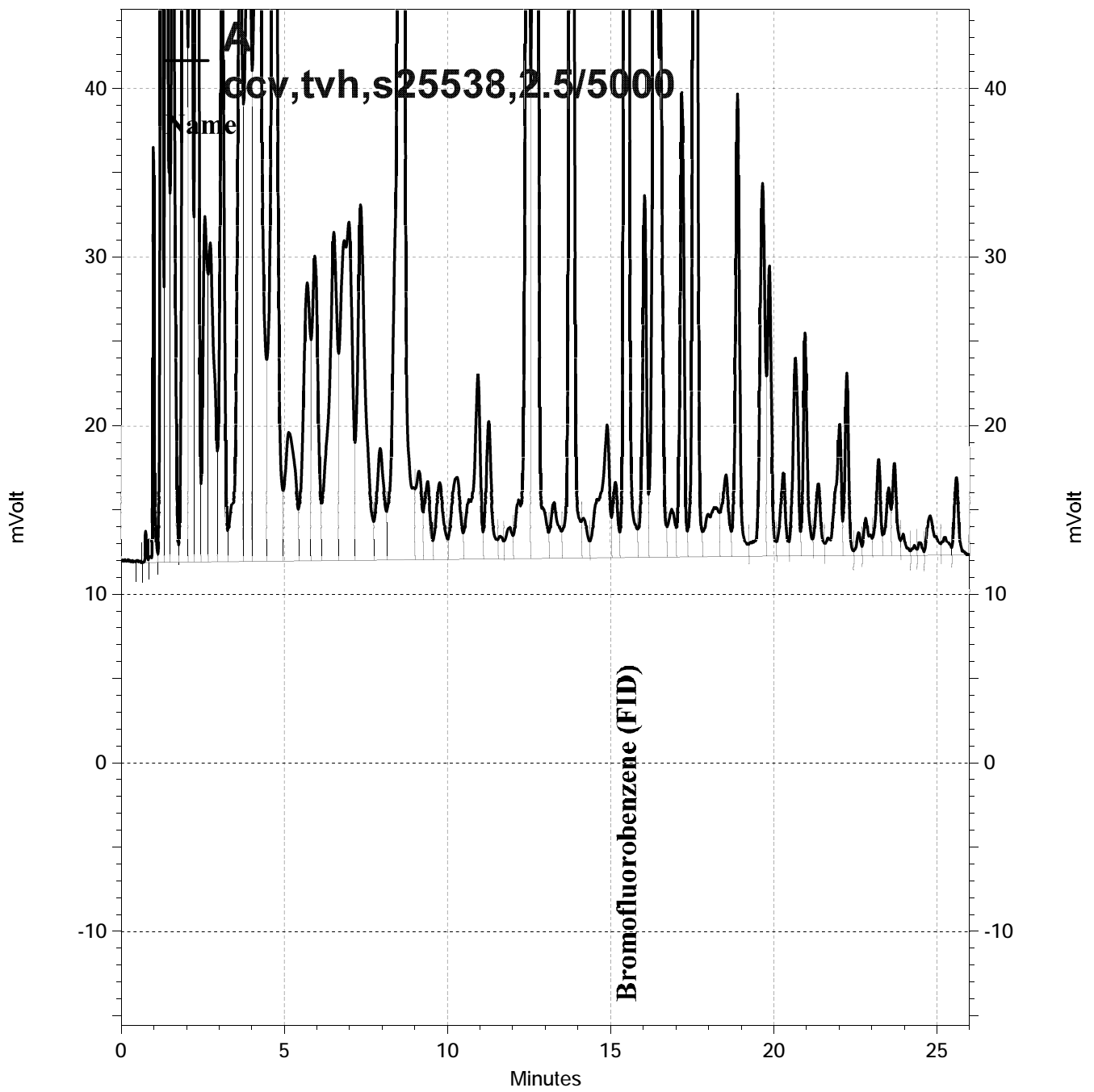
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\313-010, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\313-011, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\313-012, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\313-003, A

### Purgeable Organics by GC/MS

Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Field ID:	MW-1	Batch#:	217512
Lab ID:	262264-001	Sampled:	11/04/14
Matrix:	Water	Received:	11/04/14
Units:	ug/L	Analyzed:	11/15/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	1.1	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	21	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Field ID:	MW-1	Batch#:	217512
Lab ID:	262264-001	Sampled:	11/04/14
Matrix:	Water	Received:	11/04/14
Units:	ug/L	Analyzed:	11/15/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	3.2	0.5
m,p-Xylenes	1.7	0.5
o-Xylene	0.6	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	0.5	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	1.3	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5
tert-Butyl Alcohol (TBA)	ND	10

Surrogate	%REC	Limits
Dibromofluoromethane	97	77-136
1,2-Dichloroethane-d4	102	75-139
Toluene-d8	94	80-120
Bromofluorobenzene	107	80-120

ND= Not Detected

RL= Reporting Limit



### Purgeable Organics by GC/MS

Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Field ID:	MW-2	Batch#:	217512
Lab ID:	262264-002	Sampled:	11/04/14
Matrix:	Water	Received:	11/04/14
Units:	ug/L	Analyzed:	11/15/14
Diln Fac:	2.000		

Analyte	Result	RL
Freon 12	ND	2.0
Chloromethane	ND	2.0
Vinyl Chloride	ND	1.0
Bromomethane	ND	2.0
Chloroethane	ND	2.0
Trichlorofluoromethane	ND	2.0
Acetone	ND	20
Freon 113	ND	4.0
1,1-Dichloroethene	ND	1.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	1.0
MTBE	25	1.0
trans-1,2-Dichloroethene	ND	1.0
Vinyl Acetate	ND	20
1,1-Dichloroethane	ND	1.0
2-Butanone	ND	20
cis-1,2-Dichloroethene	ND	1.0
2,2-Dichloropropane	ND	1.0
Chloroform	ND	1.0
Bromochloromethane	ND	1.0
1,1,1-Trichloroethane	ND	1.0
1,1-Dichloropropene	ND	1.0
Carbon Tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Benzene	150	1.0
Trichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
Dibromomethane	ND	1.0
4-Methyl-2-Pentanone	ND	20
cis-1,3-Dichloropropene	ND	1.0
Toluene	27	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
2-Hexanone	ND	20
1,3-Dichloropropane	ND	1.0
Tetrachloroethene	ND	1.0

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Field ID:	MW-2	Batch#:	217512
Lab ID:	262264-002	Sampled:	11/04/14
Matrix:	Water	Received:	11/04/14
Units:	ug/L	Analyzed:	11/15/14
Diln Fac:	2.000		

Analyte	Result	RL
Dibromochloromethane	ND	1.0
1,2-Dibromoethane	ND	1.0
Chlorobenzene	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0
Ethylbenzene	120	1.0
m,p-Xylenes	70	1.0
o-Xylene	14	1.0
Styrene	ND	1.0
Bromoform	ND	2.0
Isopropylbenzene	7.5	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,2,3-Trichloropropane	ND	1.0
Propylbenzene	18	1.0
Bromobenzene	ND	1.0
1,3,5-Trimethylbenzene	6.2	1.0
2-Chlorotoluene	ND	1.0
4-Chlorotoluene	ND	1.0
tert-Butylbenzene	1.0	1.0
1,2,4-Trimethylbenzene	33	1.0
sec-Butylbenzene	3.5	1.0
para-Isopropyl Toluene	1.5	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
n-Butylbenzene	2.8	1.0
1,2-Dichlorobenzene	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	4.0
1,2,4-Trichlorobenzene	ND	1.0
Hexachlorobutadiene	ND	4.0
Naphthalene	28	4.0
1,2,3-Trichlorobenzene	ND	1.0
tert-Butyl Alcohol (TBA)	ND	20

Surrogate	%REC	Limits
Dibromofluoromethane	100	77-136
1,2-Dichloroethane-d4	116	75-139
Toluene-d8	93	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Field ID:	MW-3	Batch#:	217422
Lab ID:	262264-003	Sampled:	11/04/14
Matrix:	Water	Received:	11/04/14
Units:	ug/L	Analyzed:	11/13/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	0.6	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	0.9	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	2.0	0.5

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Field ID:	MW-3	Batch#:	217422
Lab ID:	262264-003	Sampled:	11/04/14
Matrix:	Water	Received:	11/04/14
Units:	ug/L	Analyzed:	11/13/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	0.5	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	0.7	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5
tert-Butyl Alcohol (TBA)	ND	10

Surrogate	%REC	Limits
Dibromofluoromethane	98	77-136
1,2-Dichloroethane-d4	95	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	95	80-120

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Field ID:	MW-4	Batch#:	217512
Lab ID:	262264-004	Sampled:	11/04/14
Matrix:	Water	Received:	11/04/14
Units:	ug/L	Analyzed:	11/15/14
Diln Fac:	4.000		

Analyte	Result	RL
Freon 12	ND	4.0
Chloromethane	ND	4.0
Vinyl Chloride	ND	2.0
Bromomethane	ND	4.0
Chloroethane	ND	4.0
Trichlorofluoromethane	ND	4.0
Acetone	ND	40
Freon 113	ND	8.0
1,1-Dichloroethene	ND	2.0
Methylene Chloride	ND	40
Carbon Disulfide	ND	2.0
MTBE	33	2.0
trans-1,2-Dichloroethene	ND	2.0
Vinyl Acetate	ND	40
1,1-Dichloroethane	ND	2.0
2-Butanone	ND	40
cis-1,2-Dichloroethene	ND	2.0
2,2-Dichloropropane	ND	2.0
Chloroform	ND	2.0
Bromochloromethane	ND	2.0
1,1,1-Trichloroethane	ND	2.0
1,1-Dichloropropene	ND	2.0
Carbon Tetrachloride	ND	2.0
1,2-Dichloroethane	ND	2.0
Benzene	220	2.0
Trichloroethene	ND	2.0
1,2-Dichloropropane	ND	2.0
Bromodichloromethane	ND	2.0
Dibromomethane	ND	2.0
4-Methyl-2-Pentanone	ND	40
cis-1,3-Dichloropropene	ND	2.0
Toluene	21	2.0
trans-1,3-Dichloropropene	ND	2.0
1,1,2-Trichloroethane	ND	2.0
2-Hexanone	ND	40
1,3-Dichloropropane	ND	2.0
Tetrachloroethene	ND	2.0

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Field ID:	MW-4	Batch#:	217512
Lab ID:	262264-004	Sampled:	11/04/14
Matrix:	Water	Received:	11/04/14
Units:	ug/L	Analyzed:	11/15/14
Diln Fac:	4.000		

Analyte	Result	RL
Dibromochloromethane	ND	2.0
1,2-Dibromoethane	ND	2.0
Chlorobenzene	ND	2.0
1,1,1,2-Tetrachloroethane	ND	2.0
Ethylbenzene	190	2.0
m,p-Xylenes	54	2.0
o-Xylene	12	2.0
Styrene	ND	2.0
Bromoform	ND	4.0
Isopropylbenzene	17	2.0
1,1,2,2-Tetrachloroethane	ND	2.0
1,2,3-Trichloropropane	ND	2.0
Propylbenzene	24	2.0
Bromobenzene	ND	2.0
1,3,5-Trimethylbenzene	7.8	2.0
2-Chlorotoluene	ND	2.0
4-Chlorotoluene	ND	2.0
tert-Butylbenzene	ND	2.0
1,2,4-Trimethylbenzene	ND	2.0
sec-Butylbenzene	2.7	2.0
para-Isopropyl Toluene	2.6	2.0
1,3-Dichlorobenzene	ND	2.0
1,4-Dichlorobenzene	ND	2.0
n-Butylbenzene	ND	2.0
1,2-Dichlorobenzene	ND	2.0
1,2-Dibromo-3-Chloropropane	ND	8.0
1,2,4-Trichlorobenzene	ND	2.0
Hexachlorobutadiene	ND	8.0
Naphthalene	73	8.0
1,2,3-Trichlorobenzene	ND	2.0
tert-Butyl Alcohol (TBA)	97	40

Surrogate	%REC	Limits
Dibromofluoromethane	91	77-136
1,2-Dichloroethane-d4	92	75-139
Toluene-d8	91	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Field ID:	MW-5	Batch#:	217512
Lab ID:	262264-005	Sampled:	11/04/14
Matrix:	Water	Received:	11/04/14
Units:	ug/L	Analyzed:	11/15/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	59	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	2.1	0.5
Benzene	1.1	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Field ID:	MW-5	Batch#:	217512
Lab ID:	262264-005	Sampled:	11/04/14
Matrix:	Water	Received:	11/04/14
Units:	ug/L	Analyzed:	11/15/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	0.9	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	1.2	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	1.2	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5
tert-Butyl Alcohol (TBA)	320	10

Surrogate	%REC	Limits
Dibromofluoromethane	96	77-136
1,2-Dichloroethane-d4	107	75-139
Toluene-d8	94	80-120
Bromofluorobenzene	104	80-120

ND= Not Detected

RL= Reporting Limit



### Purgeable Organics by GC/MS

Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Field ID:	MW-6	Units:	ug/L
Lab ID:	262264-006	Sampled:	11/04/14
Matrix:	Water	Received:	11/04/14

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	1.0	1.000	217458	11/13/14
Chloromethane	ND	1.0	1.000	217458	11/13/14
Vinyl Chloride	ND	0.5	1.000	217458	11/13/14
Bromomethane	ND	1.0	1.000	217458	11/13/14
Chloroethane	ND	1.0	1.000	217458	11/13/14
Trichlorofluoromethane	ND	1.0	1.000	217458	11/13/14
Acetone	ND	10	1.000	217458	11/13/14
Freon 113	ND	2.0	1.000	217458	11/13/14
1,1-Dichloroethene	ND	0.5	1.000	217458	11/13/14
Methylene Chloride	ND	10	1.000	217458	11/13/14
Carbon Disulfide	ND	0.5	1.000	217458	11/13/14
MTBE	140	1.7	3.333	217512	11/15/14
trans-1,2-Dichloroethene	ND	0.5	1.000	217458	11/13/14
Vinyl Acetate	ND	10	1.000	217458	11/13/14
1,1-Dichloroethane	ND	0.5	1.000	217458	11/13/14
2-Butanone	ND	10	1.000	217458	11/13/14
cis-1,2-Dichloroethene	ND	0.5	1.000	217458	11/13/14
2,2-Dichloropropane	ND	0.5	1.000	217458	11/13/14
Chloroform	ND	0.5	1.000	217458	11/13/14
Bromochloromethane	ND	0.5	1.000	217458	11/13/14
1,1,1-Trichloroethane	ND	0.5	1.000	217458	11/13/14
1,1-Dichloropropene	ND	0.5	1.000	217458	11/13/14
Carbon Tetrachloride	ND	0.5	1.000	217458	11/13/14
1,2-Dichloroethane	0.5	0.5	1.000	217458	11/13/14
Benzene	52	0.5	1.000	217458	11/13/14
Trichloroethene	ND	0.5	1.000	217458	11/13/14
1,2-Dichloropropane	ND	0.5	1.000	217458	11/13/14
Bromodichloromethane	ND	0.5	1.000	217458	11/13/14
Dibromomethane	ND	0.5	1.000	217458	11/13/14
4-Methyl-2-Pentanone	ND	10	1.000	217458	11/13/14
cis-1,3-Dichloropropene	ND	0.5	1.000	217458	11/13/14
Toluene	1.0	0.5	1.000	217458	11/13/14
trans-1,3-Dichloropropene	ND	0.5	1.000	217458	11/13/14
1,1,2-Trichloroethane	ND	0.5	1.000	217458	11/13/14
2-Hexanone	ND	10	1.000	217458	11/13/14
1,3-Dichloropropane	ND	0.5	1.000	217458	11/13/14
Tetrachloroethene	ND	0.5	1.000	217458	11/13/14
Dibromochloromethane	ND	0.5	1.000	217458	11/13/14
1,2-Dibromoethane	ND	0.5	1.000	217458	11/13/14

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Field ID:	MW-6	Units:	ug/L
Lab ID:	262264-006	Sampled:	11/04/14
Matrix:	Water	Received:	11/04/14

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Chlorobenzene	ND	0.5	1.000	217458	11/13/14
1,1,1,2-Tetrachloroethane	ND	0.5	1.000	217458	11/13/14
Ethylbenzene	3.2	0.5	1.000	217458	11/13/14
m,p-Xylenes	1.4	0.5	1.000	217458	11/13/14
o-Xylene	ND	0.5	1.000	217458	11/13/14
Styrene	ND	0.5	1.000	217458	11/13/14
Bromoform	ND	1.0	1.000	217458	11/13/14
Isopropylbenzene	9.1	0.5	1.000	217458	11/13/14
1,1,2,2-Tetrachloroethane	ND	0.5	1.000	217458	11/13/14
1,2,3-Trichloropropane	ND	0.5	1.000	217458	11/13/14
Propylbenzene	11	0.5	1.000	217458	11/13/14
Bromobenzene	ND	0.5	1.000	217458	11/13/14
1,3,5-Trimethylbenzene	ND	0.5	1.000	217458	11/13/14
2-Chlorotoluene	ND	0.5	1.000	217458	11/13/14
4-Chlorotoluene	ND	0.5	1.000	217458	11/13/14
tert-Butylbenzene	ND	0.5	1.000	217458	11/13/14
1,2,4-Trimethylbenzene	1.1	0.5	1.000	217458	11/13/14
sec-Butylbenzene	3.5	0.5	1.000	217458	11/13/14
para-Isopropyl Toluene	1.2	0.5	1.000	217458	11/13/14
1,3-Dichlorobenzene	ND	0.5	1.000	217458	11/13/14
1,4-Dichlorobenzene	ND	0.5	1.000	217458	11/13/14
n-Butylbenzene	ND	1.7	3.333	217512	11/15/14
1,2-Dichlorobenzene	ND	0.5	1.000	217458	11/13/14
1,2-Dibromo-3-Chloropropane	ND	2.0	1.000	217458	11/13/14
1,2,4-Trichlorobenzene	ND	0.5	1.000	217458	11/13/14
Hexachlorobutadiene	ND	2.0	1.000	217458	11/13/14
Naphthalene	3.6	2.0	1.000	217458	11/13/14
1,2,3-Trichlorobenzene	ND	0.5	1.000	217458	11/13/14
tert-Butyl Alcohol (TBA)	110	20	1.000	217458	11/13/14

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	99	77-136	1.000	217458	11/13/14
1,2-Dichloroethane-d4	104	75-139	1.000	217458	11/13/14
Toluene-d8	97	80-120	1.000	217458	11/13/14
Bromofluorobenzene	101	80-120	1.000	217458	11/13/14

ND= Not Detected  
 RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Field ID:	MW-7	Batch#:	217512
Lab ID:	262264-007	Sampled:	11/04/14
Matrix:	Water	Received:	11/04/14
Units:	ug/L	Analyzed:	11/15/14
Diln Fac:	50.00		

Analyte	Result	RL
Freon 12	ND	50
Chloromethane	ND	50
Vinyl Chloride	ND	25
Bromomethane	ND	50
Chloroethane	ND	50
Trichlorofluoromethane	ND	50
Acetone	ND	500
Freon 113	ND	100
1,1-Dichloroethene	ND	25
Methylene Chloride	ND	500
Carbon Disulfide	ND	25
MTBE	ND	25
trans-1,2-Dichloroethene	ND	25
Vinyl Acetate	ND	500
1,1-Dichloroethane	ND	25
2-Butanone	ND	500
cis-1,2-Dichloroethene	ND	25
2,2-Dichloropropane	ND	25
Chloroform	ND	25
Bromochloromethane	ND	25
1,1,1-Trichloroethane	ND	25
1,1-Dichloropropene	ND	25
Carbon Tetrachloride	ND	25
1,2-Dichloroethane	ND	25
Benzene	4,100	25
Trichloroethene	ND	25
1,2-Dichloropropane	ND	25
Bromodichloromethane	ND	25
Dibromomethane	ND	25
4-Methyl-2-Pentanone	ND	500
cis-1,3-Dichloropropene	ND	25
Toluene	ND	25
trans-1,3-Dichloropropene	ND	25
1,1,2-Trichloroethane	ND	25
2-Hexanone	ND	500
1,3-Dichloropropane	ND	25
Tetrachloroethene	ND	25

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Field ID:	MW-7	Batch#:	217512
Lab ID:	262264-007	Sampled:	11/04/14
Matrix:	Water	Received:	11/04/14
Units:	ug/L	Analyzed:	11/15/14
Diln Fac:	50.00		

Analyte	Result	RL
Dibromochloromethane	ND	25
1,2-Dibromoethane	ND	25
Chlorobenzene	ND	25
1,1,1,2-Tetrachloroethane	ND	25
Ethylbenzene	260	25
m,p-Xylenes	ND	25
o-Xylene	ND	25
Styrene	ND	25
Bromoform	ND	50
Isopropylbenzene	35	25
1,1,2,2-Tetrachloroethane	ND	25
1,2,3-Trichloropropane	ND	25
Propylbenzene	49	25
Bromobenzene	ND	25
1,3,5-Trimethylbenzene	ND	25
2-Chlorotoluene	ND	25
4-Chlorotoluene	ND	25
tert-Butylbenzene	ND	25
1,2,4-Trimethylbenzene	ND	25
sec-Butylbenzene	ND	25
para-Isopropyl Toluene	ND	25
1,3-Dichlorobenzene	ND	25
1,4-Dichlorobenzene	ND	25
n-Butylbenzene	ND	25
1,2-Dichlorobenzene	ND	25
1,2-Dibromo-3-Chloropropane	ND	100
1,2,4-Trichlorobenzene	ND	25
Hexachlorobutadiene	ND	100
Naphthalene	ND	100
1,2,3-Trichlorobenzene	ND	25
tert-Butyl Alcohol (TBA)	1,400	500

Surrogate	%REC	Limits
Dibromofluoromethane	90	77-136
1,2-Dichloroethane-d4	84	75-139
Toluene-d8	92	80-120
Bromofluorobenzene	95	80-120

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

Purgeable Organics by GC/MS			
Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	217422
Units:	ug/L	Analyzed:	11/13/14
Diln Fac:	1.000		

Type: BS Lab ID: QC765604

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.22	105	65-134
Benzene	25.00	24.50	98	80-124
Trichloroethene	25.00	26.56	106	80-120
Toluene	25.00	25.51	102	80-122
Chlorobenzene	25.00	26.14	105	80-120
tert-Butyl Alcohol (TBA)	125.0	84.08 b	67	37-151

Surrogate	%REC	Limits
Dibromofluoromethane	93	77-136
1,2-Dichloroethane-d4	94	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	94	80-120

Type: BSD Lab ID: QC765605

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	24.88	100	65-134	5	20
Benzene	25.00	23.49	94	80-124	4	20
Trichloroethene	25.00	25.10	100	80-120	6	20
Toluene	25.00	24.35	97	80-122	5	20
Chlorobenzene	25.00	25.34	101	80-120	3	20
tert-Butyl Alcohol (TBA)	125.0	85.16 b	68	37-151	1	30

Surrogate	%REC	Limits
Dibromofluoromethane	93	77-136
1,2-Dichloroethane-d4	91	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	95	80-120

b= See narrative

RPD= Relative Percent Difference

**Batch QC Report**

<b>Purgeable Organics by GC/MS</b>			
Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC765606	Batch#:	217422
Matrix:	Water	Analyzed:	11/13/14
Units:	ug/L		

<b>Analyte</b>	<b>Result</b>	<b>RL</b>
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

<b>Purgeable Organics by GC/MS</b>			
Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC765606	Batch#:	217422
Matrix:	Water	Analyzed:	11/13/14
Units:	ug/L		

<b>Analyte</b>	<b>Result</b>	<b>RL</b>
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5
tert-Butyl Alcohol (TBA)	ND	10

<b>Surrogate</b>	<b>%REC</b>	<b>Limits</b>
Dibromofluoromethane	95	77-136
1,2-Dichloroethane-d4	95	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	95	80-120

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

Purgeable Organics by GC/MS			
Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	217422
MSS Lab ID:	262273-012	Sampled:	11/04/14
Matrix:	Water	Received:	11/04/14
Units:	ug/L	Analyzed:	11/14/14
Diln Fac:	62.50		

Type: MS Lab ID: QC765680

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<7.923	1,563	1,646	105	69-129
Benzene	<6.250	1,563	1,516	97	80-127
Trichloroethene	238.3	1,563	1,902	106	70-127
Toluene	<6.250	1,563	1,565	100	80-123
Chlorobenzene	<6.250	1,563	1,621	104	80-120
tert-Butyl Alcohol (TBA)	<106.3	7,813	5,690 b	73	38-150

Surrogate	%REC	Limits
Dibromofluoromethane	96	77-136
1,2-Dichloroethane-d4	96	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	95	80-120

Type: MSD Lab ID: QC765681

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	1,563	1,658	106	69-129	1	26
Benzene	1,563	1,536	98	80-127	1	23
Trichloroethene	1,563	1,944	109	70-127	2	21
Toluene	1,563	1,587	102	80-123	1	22
Chlorobenzene	1,563	1,649	106	80-120	2	22
tert-Butyl Alcohol (TBA)	7,813	5,713 b	73	38-150	0	38

Surrogate	%REC	Limits
Dibromofluoromethane	95	77-136
1,2-Dichloroethane-d4	95	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	94	80-120

b= See narrative

RPD= Relative Percent Difference





**Batch QC Report**

<b>Purgeable Organics by GC/MS</b>			
Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC765753	Batch#:	217458
Matrix:	Water	Analyzed:	11/13/14
Units:	ug/L		

<b>Analyte</b>	<b>Result</b>	<b>RL</b>
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

<b>Purgeable Organics by GC/MS</b>			
Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC765753	Batch#:	217458
Matrix:	Water	Analyzed:	11/13/14
Units:	ug/L		

<b>Analyte</b>	<b>Result</b>	<b>RL</b>
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5
tert-Butyl Alcohol (TBA)	ND	20

<b>Surrogate</b>	<b>%REC</b>	<b>Limits</b>
Dibromofluoromethane	104	77-136
1,2-Dichloroethane-d4	102	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected

RL= Reporting Limit



**Batch QC Report**

<b>Purgeable Organics by GC/MS</b>			
Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC765945	Batch#:	217512
Matrix:	Water	Analyzed:	11/15/14
Units:	ug/L		

<b>Analyte</b>	<b>Result</b>	<b>RL</b>
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

<b>Purgeable Organics by GC/MS</b>			
Lab #:	262264	Location:	3635 13th Avenue, Oakland
Client:	Enviro Soil Tech Consultants	Prep:	EPA 5030B
Project#:	3-13-855-SC	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC765945	Batch#:	217512
Matrix:	Water	Analyzed:	11/15/14
Units:	ug/L		

<b>Analyte</b>	<b>Result</b>	<b>RL</b>
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5
tert-Butyl Alcohol (TBA)	ND	10

<b>Surrogate</b>	<b>%REC</b>	<b>Limits</b>
Dibromofluoromethane	97	77-136
1,2-Dichloroethane-d4	96	75-139
Toluene-d8	93	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected

RL= Reporting Limit