SOMA
ENVIRONMENTAL ENGINEERING, INC.
6620 Owens Drive, Suite A • Pleasanton, CA 94588
TEL (925)734-6400 • FAX (925)734-6401
www.somaenv.com

June 30, 2016

Mr. Mark Detterman, PG, CEG
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Freedom Food and Gas (Formerly Freedom ARCO Mini-Mart)
Site Address: 15101 Freedom Avenue, San Leandro, California
**STID 4473/RO0000473**

Dear Mr. Detterman:

SOMA's "Second Quarter 2016 Groundwater Monitoring and Remediation Progress Report" for the subject property has been uploaded to the State's GeoTracker database and Alameda County's FTP site for your review.

Thank you for your time in reviewing our report. Please do not hesitate to call me at (925) 734-6400, if you have questions or comments.

Sincerely,

Mansour Sepehr, Ph.D.,PE
Principal Hydrogeologist


cc: Mr. Mohammad Pazdel w/report enclosure

# Second Quarter 2016
# Groundwater Monitoring and
# Remediation Progress Report

## Freedom Food and Gas
## 15101 Freedom Avenue
## San Leandro, California

**June 30, 2016**

**Project 2551/2553**

**Prepared for**

**Mr. Mohammad Pazdel**
**1770 Pistacia Court**
**Fairfield, California**

SOMA ENVIRONMENTAL ENGINEERING, INC.
6620 Owens Drive Suite A Pleasanton CA 94588 Ph: 925.734.6400 F: 925.734-6401 www.somaenv.com

# PERJURY STATEMENT

Site Location: 15101 Freedom Avenue, San Leandro, California

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

M. Pazdel

Mohammad Pazdel
1770 Pistacia Court
Fairfield, California 94533
Responsible Party

## CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this report on behalf of the responsible party, Mr. Mohammad Pazdel, for property located at 15101 Freedom Avenue, San Leandro, California, to comply with Alameda County Health Care Services requirements for the Second Quarter 2016 groundwater monitoring event.

Mansour Sepehr, PhD, PE
Principal Hydrogeologist

# TABLE OF CONTENTS

## LIST OF FIGURES



## LIST OF TABLES

## LIST OF APPENDICES

# 1. INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) has prepared this report on behalf of the responsible party, Mr. Mohammad Pazdel, for property located at 15101 Freedom Avenue, San Leandro, California. The site is located in an area of primarily residential properties and adjacent commercial areas (Figure 1). The property was formerly owned by Mr. Mohammad Pazdel. In late 2009, the property was sold to DDH, LLC, Assignee and in early 2010 it was sold to Mr. Mohammad Mashhoon. Under the new management, the site is currently operational with the business name "Freedom Food and Gas" (formerly "Freedom Arco Mini-Mart").

This report summarizes results of the Second Quarter 2016 groundwater monitoring event conducted on June 15 and 16, 2016. It includes physical and chemical properties measured in the field and laboratory analysis results for each groundwater sample. It also presents the remediation progress report for Second Quarter 2016, which includes a status update of groundwater extraction and treatment system.

## 1.1 Field Activities

In June 2016, SOMA's field crew conducted a groundwater monitoring event in accordance with procedures and guidelines of Alameda County Health Care Services (ACHCS) and the California Regional Water Quality Control Board (CRWQCB). Figure 2 shows well locations.

On June 15, 2016, the following wells were measured for depth to groundwater: five on-site monitoring wells (MW-1 to MW-5) and four off-site wells (MW-6, MW-7, MW-10 and MW-11) in the First water-bearing zone (WBZ); two extraction wells (EX-1 and EX-2), and two MPE wells (MPE-1 and MPE-2). On March 23 and 24, 2016, additional field measurements and groundwater samples were collected from all First WBZ monitoring and remediation wells except EX-2. No sample could be retrieved from EX-2 due to equipment malfunction. Free product (FP) was not observed in any well during this monitoring event. Properties measured include pH, temperature, and electrical conductivity (EC).

Groundwater monitoring of Second WBZ was discontinued based on ACEH's directive dated October 28, 2015. Therefore, MW-1D, MW-3D, and MW-4D were not measured for depth to water or sampled during this monitoring event.

A natural attenuation study was conducted during this event to determine whether petroleum hydrocarbons in groundwater are biodegrading. Dissolved oxygen (DO) and oxidation reduction potential (ORP) measurements were taken for all monitoring and MPE wells.

### 1.2 Laboratory Analysis

Curtis & Tompkins Laboratories, a California state-certified laboratory, analyzed groundwater samples for the following: total petroleum hydrocarbons as gasoline (TPH-g); benzene, toluene, ethylbenzene, total xylenes (collectively termed BTEX); methyl tertiary-butyl ether (MtBE); and gasoline oxygenates, ethanol and lead scavengers. Samples were prepared using EPA Method 5030B and analyzed using EPA Method 8260B.

## 2. RESULTS

Following are results of field measurements and laboratory analysis for the Second Quarter 2016 groundwater monitoring event.

### 2.1 Field Measurements, First WBZ Wells

Table 1 presents calculated groundwater elevations and depths to groundwater for each monitoring well. Depths to groundwater ranged from 10.51 feet in MW-11 to 21.41 feet in MW-1. As mentioned above in Section 1.1, no FP was observed in any First WBZ well. Appendix A includes the procedure for FP measurement.

Corresponding groundwater elevations ranged from 31.44 feet in MW-6 to 33.53 feet in EX-1 (Table 1).

Figure 3 displays the contour map of groundwater elevations. As illustrated, groundwater flows southwesterly, at a gradient of 0.008 feet/feet. No capture zone can be seen in the figure because the groundwater treatment system has been offline since March 7, 2016, based on comments received from the UST Cleanup Fund. Groundwater gradient calculations are attached in Appendix B.

During this monitoring event measurement of bio attenuation parameters such as dissolved oxygen, oxidation-reduction potential, and turbidity was discontinued because sufficient data has been collected at the site and further measurement of these parameters is not required.

Field measurements recorded during this monitoring event are included in Appendix B.

### 2.2 Laboratory Analysis, First WBZ Wells

Appendix C includes the laboratory report and chain-of-custody form for this monitoring event.

Table 1 presents TPH-g, BTEX, and MtBE analysis results for the current and historical groundwater monitoring events.

TPH-g concentrations ranged from 100 µg/L in MW-11 to 28,000 µg/L in MW-10. Since the previous monitoring event (First Quarter 2016), TPH-g has increased in all tested wells except MW-11 where it has decreased slightly.

Figure 4 displays the contour map of TPH-g concentrations in groundwater. As illustrated, the highest TPH-g impact is observed offsite, to the southeast of the site in MW-10R.

The following BTEX concentrations were observed:

- Benzene was below laboratory-reporting limits in MW-2, MW-7, MW-10R, and MW-11. Detectable benzene concentrations ranged from 0.68 µg/L in MW-5 to 570 µg/L in MPE-2.
- Toluene was detected only in MW-3 and MW-4 at 2.6 µg/L and 0.75 µg/L, respectively and was below laboratory-reporting limits in all other wells.
- Ethylbenzene was below laboratory-reporting limits in MW-2, MW-5, MW-11, and EX-1 and was detected in concentrations ranging from 0.53 µg/L in MW-4 to 720 µg/L in MW-10R.
- Total xylenes were below laboratory-reporting limits in MW-2, MW-4, MW-5, MW-7, MW-11, and EX-1. Detectable concentrations ranged from 9.30 µg/L in MW-1 to 1,454 µg/L in MW-10R.

Figure 5 displays the contour map of benzene in groundwater. The highest benzene impact is in the northeast corner of the site in the vicinity of MPE-2. Since the previous monitoring event (First Quarter 2016), detectable benzene concentrations have increased in MW-1, MW-4, MW-5, MW-6, EX-1, and MPE-1, decreased in MW-3, MPE-2, and remained below laboratory-reporting limit in the remaining wells.

MtBE was below the laboratory-reporting limit in MW-2, MW-5, MW-6, MW-10R, MW-11, and EX-1. Detectable MtBE ranged from 0.68 µg/L in MPE-1 to 7 µg/L in MPE-2. Figure 6 displays the contour map of MtBE concentrations in groundwater. Since the previous monitoring event (First Quarter 2016), MtBE has increased slightly in MW-1 and MPE-1 and decreased in MW-3, MW-4, MW-7, EX-1, and MPE-2, and remained below laboratory-reporting limit in MW-2, MW-5, MW-6, MW-10, and MW-11.

MW-3, MPE-1, and MPE-2 are the more impacted on-site wells where free-product has been observed in the past and MW-6 and MW-10 are the more impacted off-site wells. As shown in Table 1, since the previous monitoring event (First Quarter 2016), detectable concentrations of TPH-g have increased in all MW-3, MW-6, MW-10R, MPE-1, and MPE-2; benzene has decreased in MW-3

and MPE-2, increased slightly in MW-6 and MPE-1, and remained below laboratory-reporting limit in MW-10R.

Table 2 shows analysis results for gasoline oxygenate and lead scavenger concentrations for the current as well as historical events.

The following gasoline oxygenate and lead scavenger concentrations were observed:

- In MW-1, MW-2, MW-5, MW-6, MW-7, MW-10R, MW-11, and EX-1 all gasoline oxygenates and lead scavengers were below laboratory-reporting limits.
- tertiary-butyl alcohol (TBA) was detected at concentrations ranging from 38 µg/L in MW-3 to 230 µg/L in MW-4. Figure 7 shows the contour map of TBA concentrations in First WBZ wells. Since the previous monitoring event (First Quarter 2016), TBA increased in MW-4 and decreased in MW-3, MW-5, and MPE-2.
- Methyl tertiary-amyl ether (TAME) was detected in MPE-1 at 0.67 µg/L and was below laboratory-reporting limit in other wells. Figure 7 shows the map of TAME concentrations in First WBZ wells. Since the previous monitoring event (First Quarter 2016), TAME slightly decreased in MW-4, and slightly increased in MPE-1.
- Ethyl tertiary-butyl ether (ETBE) was detected in MW-4 at 4.7 µg/L and was below laboratory-reporting limit in other wells. Figure 7 shows the map of ETBE concentrations in First WBZ wells. Since the previous monitoring event (First Quarter 2016), ETBE increased in MW-4.
- 1,2-dichloroethane (1,2-DCA), Isopropyl ether (DIPE), 1,2-dibromoethane (EDB), and ethanol were below laboratory-reporting limits in all groundwater samples. Analysis results for ethanol are shown in Appendix C.

## 3. OPERATION OF TREATMENT SYSTEM

SOMA installed a groundwater treatment system at the site in December 2009. The system includes two extraction wells (EX-1 and EX-2), trenching containing influent and effluent lines and electrical conduits, and the treatment system compound. During system operation, extracted groundwater is pumped from extraction wells through underground piping to a fenced treatment compound, adjacent to the existing service station building.

In the treatment compound, groundwater is treated using granular activated carbon (GAC) and subsequently discharged to the sanitary sewer. Two GAC vessels are connected in series. The first unit (1,000 gallons) serves as the

primary treatment unit, and the second (55 gallons) polishing drum provides an additional safety buffer prior to discharge. Effectiveness of the GAC units is monitored by collection and analysis of samples from the system discharge, including a sample collected from water that has passed only through the first GAC unit. When analytical results indicate that the first GAC unit is no longer effectively treating groundwater, the vessel will be removed from the treatment line and refurbished with new carbon. The polishing unit was replaced on June 16, 2014.

Since the system began discharging, approximately 3,972,753 gallons of groundwater have been treated and discharged at the site (as of March 7, 2016). As previously mentioned in this report, since March 7, 2016, the treatment system has been shut down.

The treatment system operates under discharge permit issued by Oro Loma Sanitary District (OLSD) in May 2009. This discharge permit was most recently renewed in May 2014. Treated groundwater has been discharging to the OLSD sewer since December 9, 2009. Figure 8 shows the schematic diagram of the groundwater treatment system. Treatment system effluent is sampled each month of operation to comply with OLSD discharge permit requirements. Table 3 includes analytical results and operational history of the treatment system. As shown in Table 4, as of January 12, 2016, cumulative masses of TPH-g and BTEX extracted from groundwater were approximately 40.32 pounds, 1.52 pounds, 0.37 pounds, 1.00 pounds, and 5.17 pounds, respectively. As mentioned previously, the treatment system was offline this reporting period. Therefore no samples were collected.

## 4. MULTI-PHASE EXTRACTION EVENTS

No MPE events were performed during the Second Quarter 2016. The overall estimated total mass of VOCs extracted by previous and the current MPE events is 3,582 pounds. This includes the following:

| Event | Mass Removed (pounds) |
|---|---|
| November 2007 (Pilot Test) | 106 |
| October 2009 | 243 |
| November 2009 | 72 |
| December 2009 | 97 |
| February 2010 | 17 |
| March 2010 | 11 |
| June 2010 | 30 |
| August 2010 | 30 |
| October 2010 | 79 |
| April 2011 | 27 |
| August 2011 | 94 |

| | |
|---|---|
| May 2013 | 300 |
| August 2013 | 841 |
| October 2013 | 790 |
| September 2014 | 565 |
| November 2015 | 280 |

Figure 9 shows the cumulative extracted mass of VOCs during different MPE events at the site.

# 5. CONCLUSIONS AND RECOMMENDATIONS

Second Quarter 2016 groundwater monitoring and MPE events results are summarized below.

- No FP was observed during this monitoring event.
- Groundwater flows southwesterly across the site in First WBZ. The groundwater treatment system has been offline since March 7, 2016 based on comments received from the UST Cleanup Fund.
- The highest TPH-g concentrations were observed off-site to the southeast of the site in MW-10R and highest benzene was observed in the northeast corner of the site.
- Since the previous monitoring event (First Quarter 2016), TPH-g has increased in all tested wells except MW-11 where it has decreased slightly; detectable benzene concentrations have increased in MW-1, MW-4, MW-5, MW-6, EX-1, and MPE-1, decreased in MW-3, MPE-2 and remained below laboratory-reporting limit in the remaining wells.
- Groundwater monitoring of Second WBZ wells has been discontinued based on the October 28, 2015 directive from ACEH.
- The total mass of hydrocarbon removed by MPE operations (as of November 2015) is estimated to be 3,582 pounds.

Based on results of this monitoring event and previous MPE events, SOMA recommends the following action items:

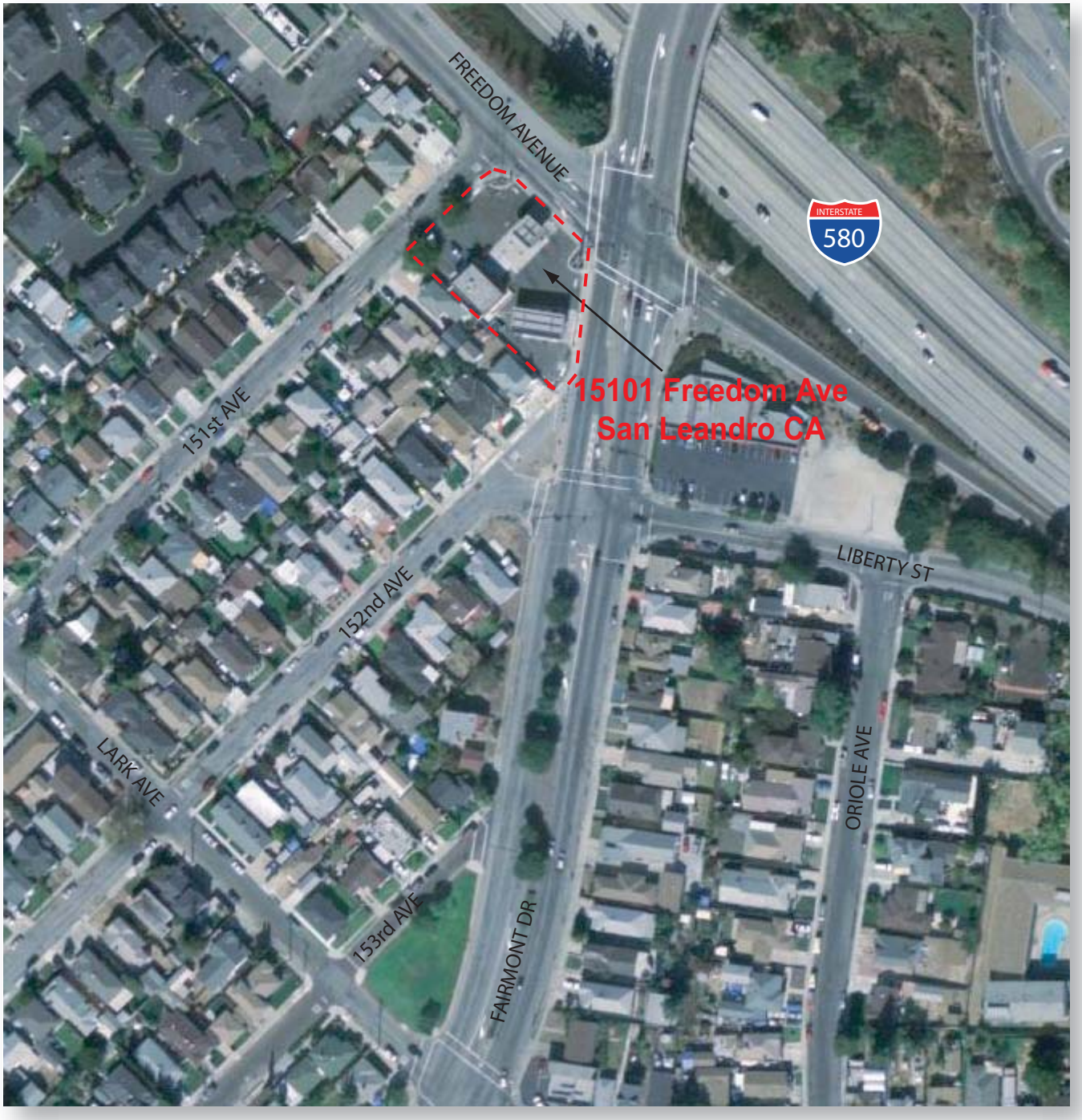
- Continue quarterly groundwater monitoring of First WBZ wells to assess plume stability for on-site wells which show a dramatic improvement and meet LTCP criteria for closure.
- As previously approved by the ACEH, SOMA will conduct an MPE event utilizing the newly reconstructed well MW-10R. Details and results of the MPE event will be documented in the next groundwater monitoring and remediation progress report.

# 6. REPORT LIMITATIONS

This report is the summary of work done by SOMA, including observations and descriptions of site conditions. It includes analysis results produced by Curtis & Tompkins Laboratories for the current groundwater monitoring event. Quantities and locations of wells were selected to provide the required information, but may not be representative of entire site conditions. All conclusions and recommendations are based on laboratory analysis results. Conclusions beyond those specifically stated in this document should not be inferred from this report.

SOMA warrants that services were provided in accordance with generally accepted practices in the environmental engineering and consulting field at the time of this sampling.

# Figures



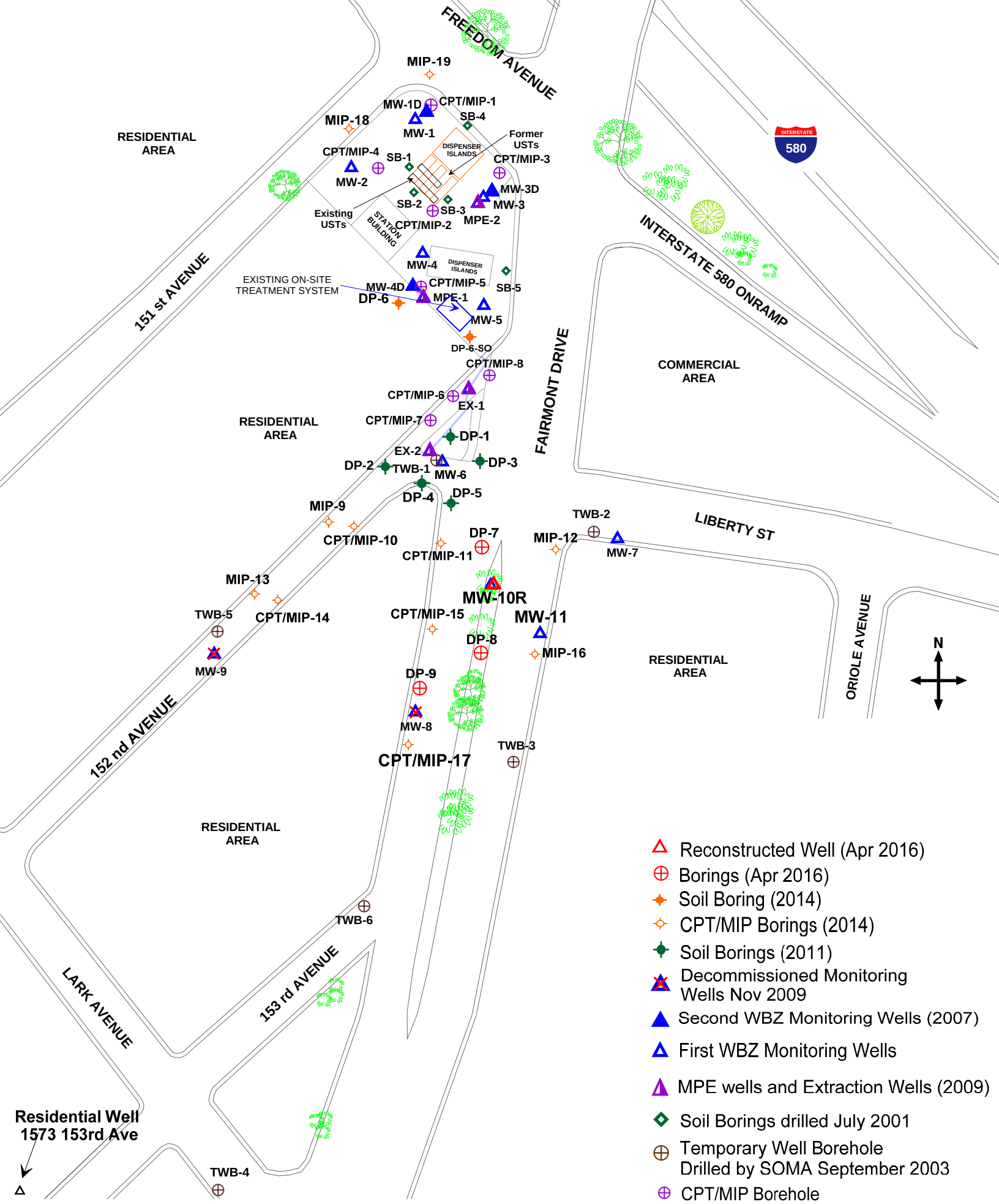

N

approximate scale in feet

0 150 300

Figure 1: Site vicinity map.

SOMA ENVIRONMENTAL ENGINEERING, INC.

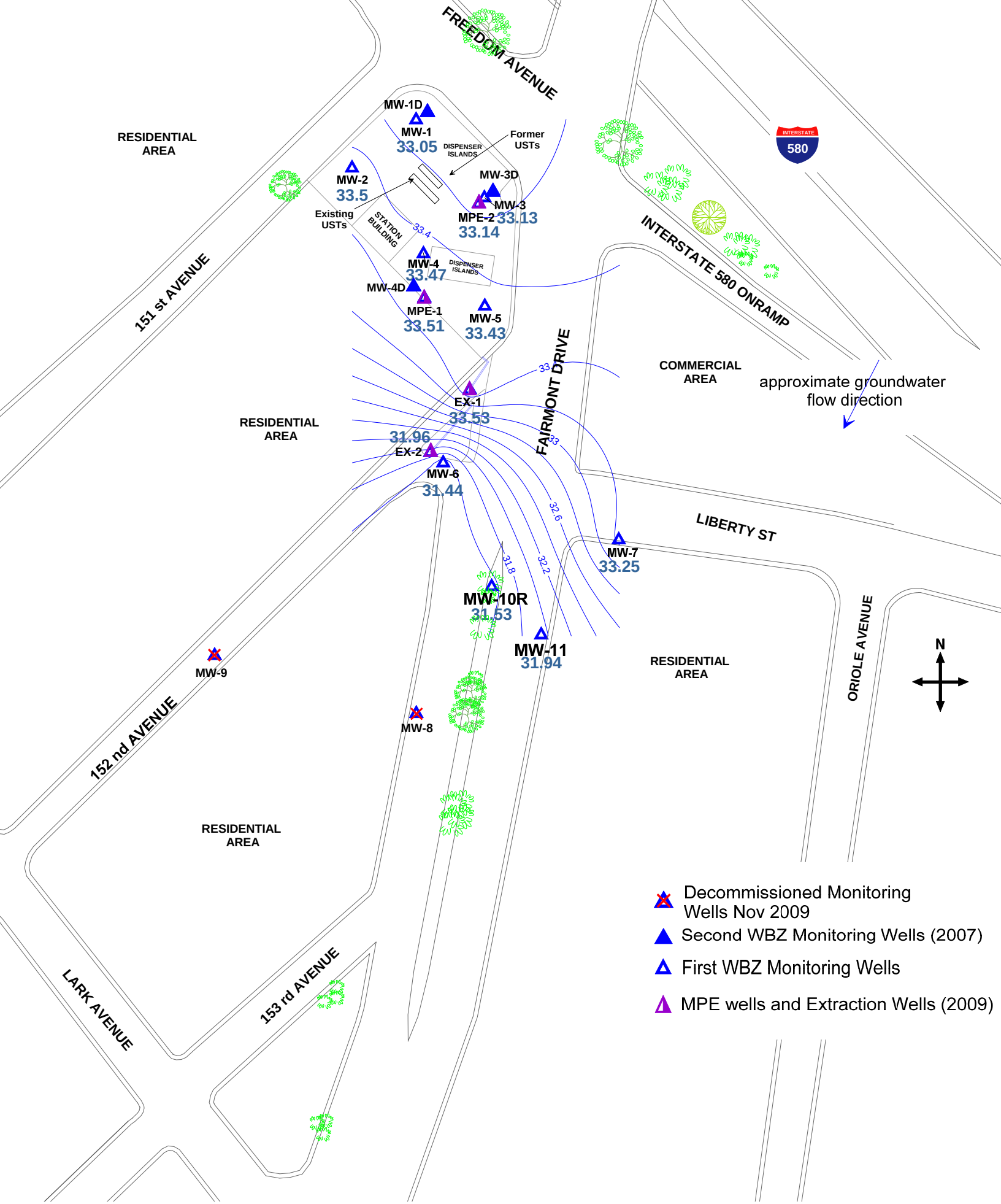



approximate scale in feet

0 50 100

Figure 2: Site Map Showing Locations of USTs, Fuel Dispensers, Soil Borings, Vapor Samples, and Groundwater Monitoring Wells

SOMA ENVIRONMENTAL ENGINEERING, INC.

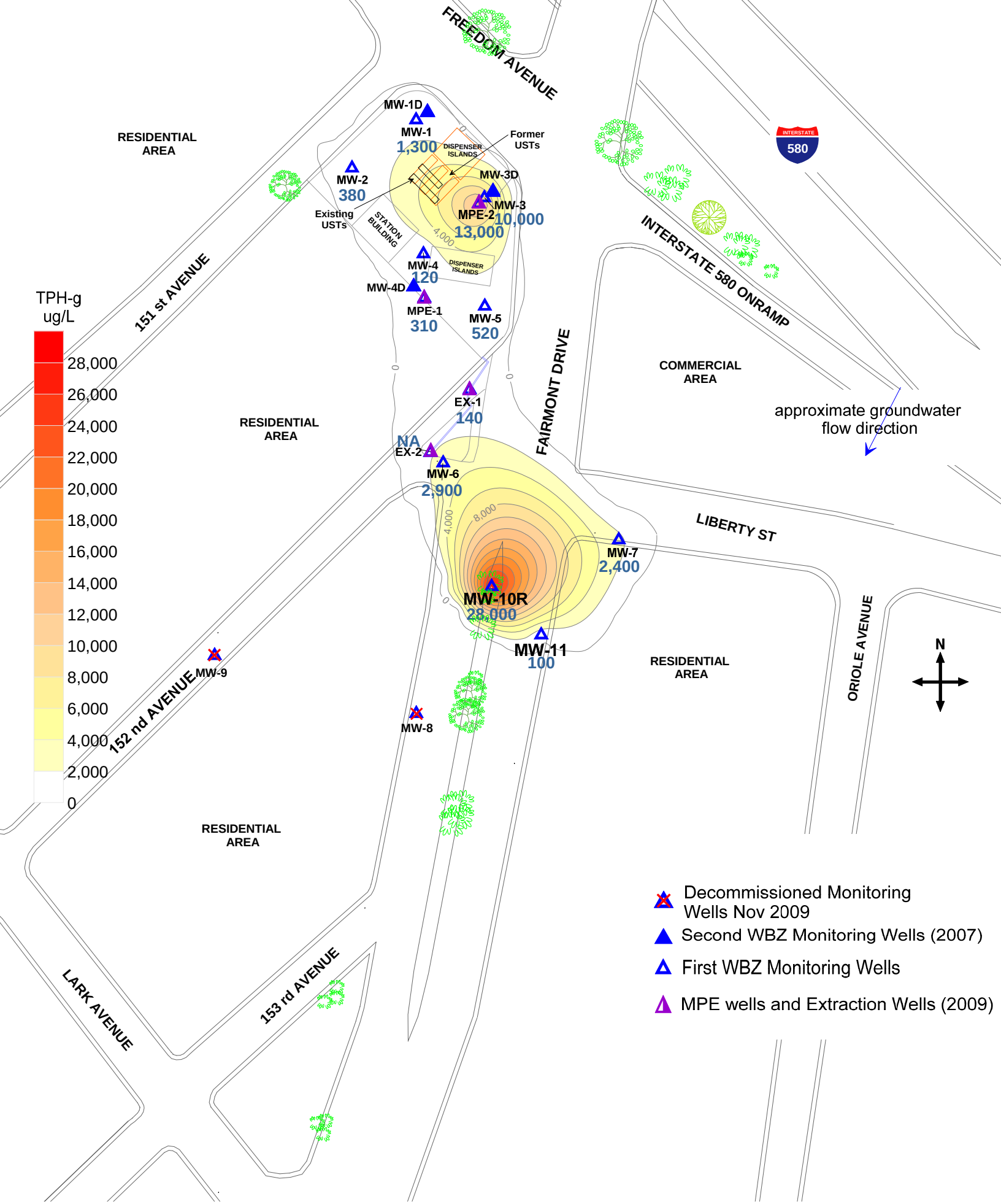



approximate scale in feet

0 50 100

Figure 3: Groundwater Elevation Contour Map in Feet, First WBZ, June 15, 2016

SOMA ENVIRONMENTAL ENGINEERING, INC.




approximate scale in feet

0 50 100

Figure 4: Contour Map of TPH-g Concentrations in Groundwater, First WBZ, June 15 and 16, 2016

SOMA ENVIRONMENTAL ENGINEERING, INC.

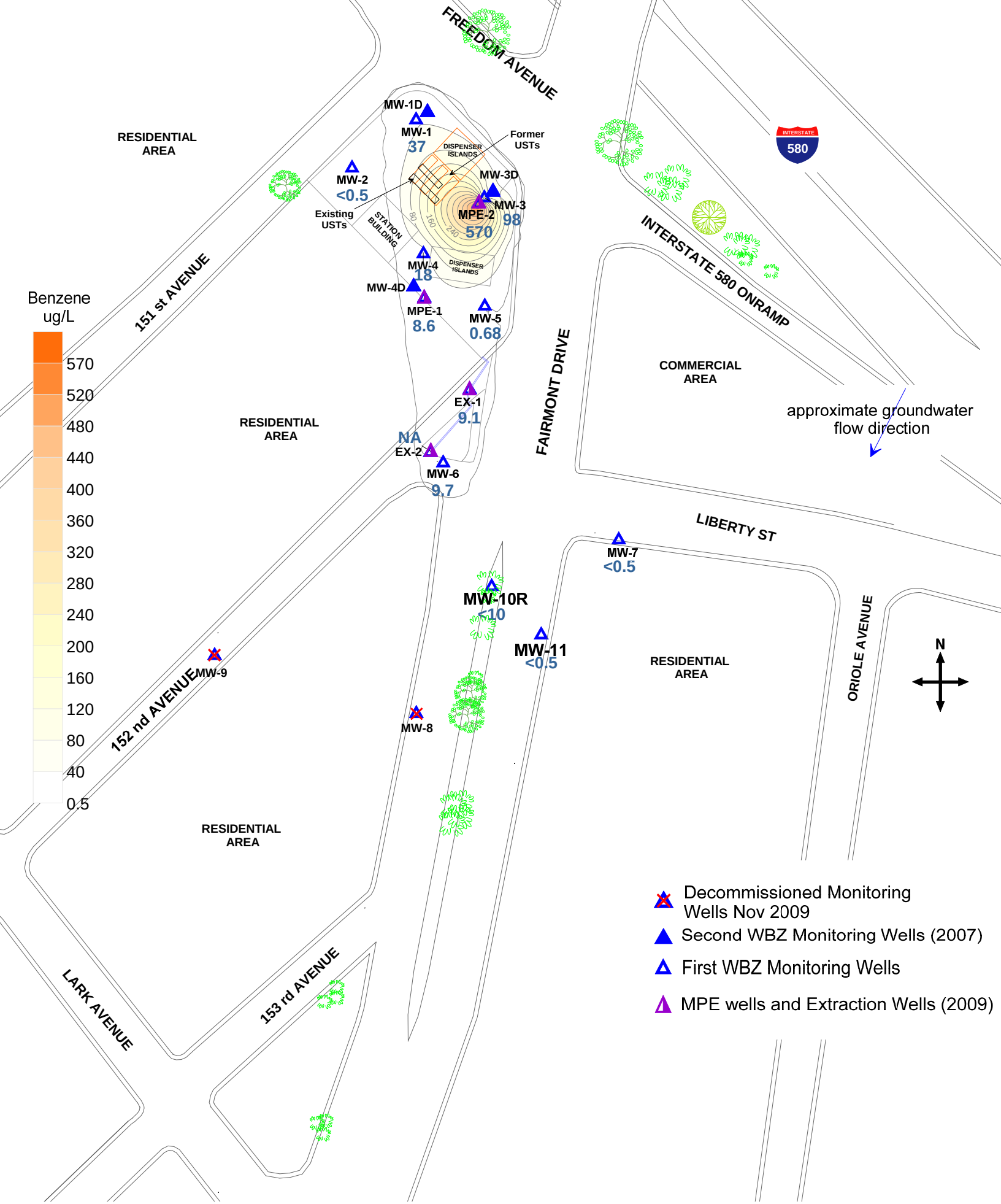
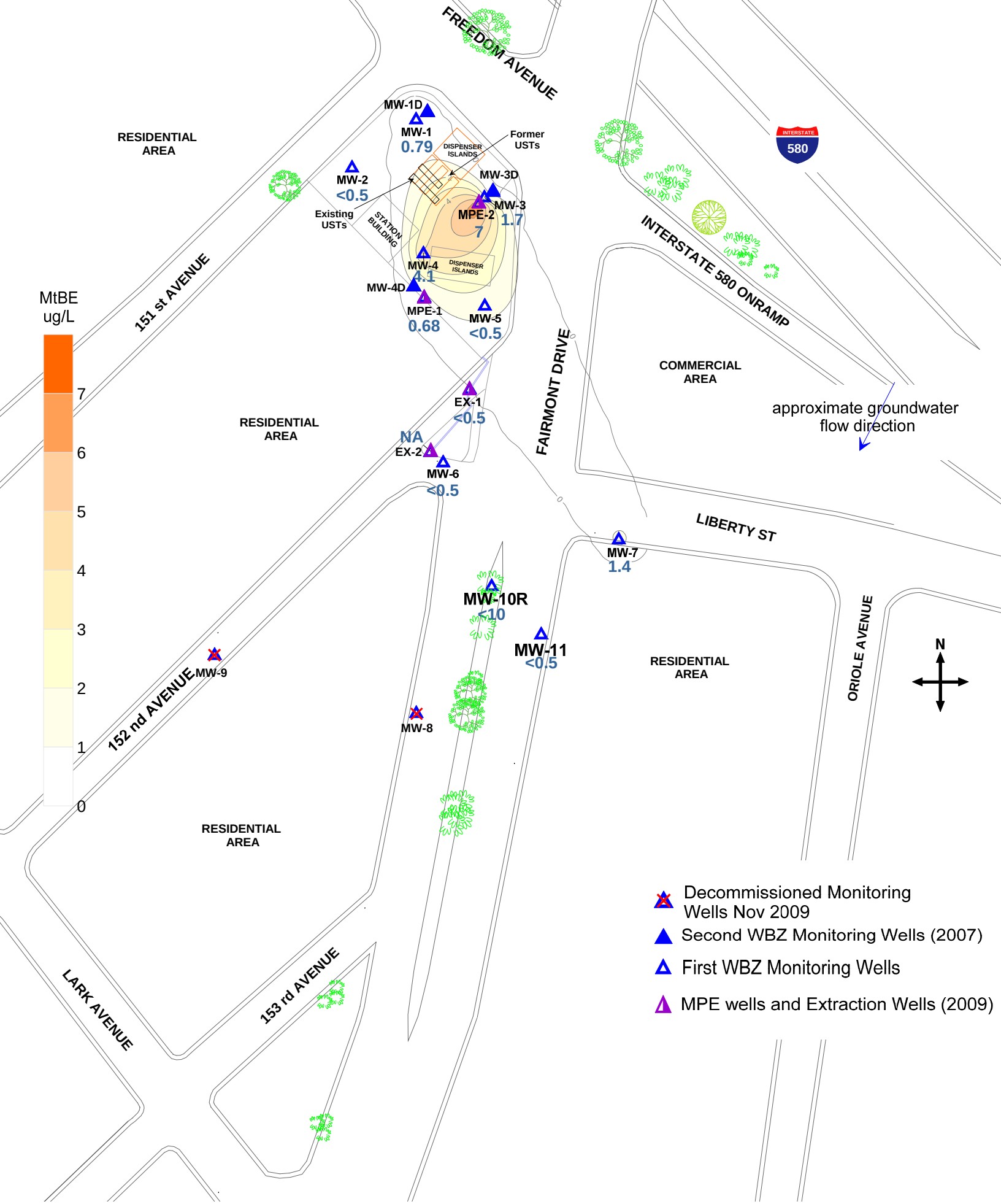



Figure 5: Contour Map of benzene Concentrations in Groundwater, First WBZ, June 15 and 16, 2016

SOMA ENVIRONMENTAL ENGINEERING, INC.

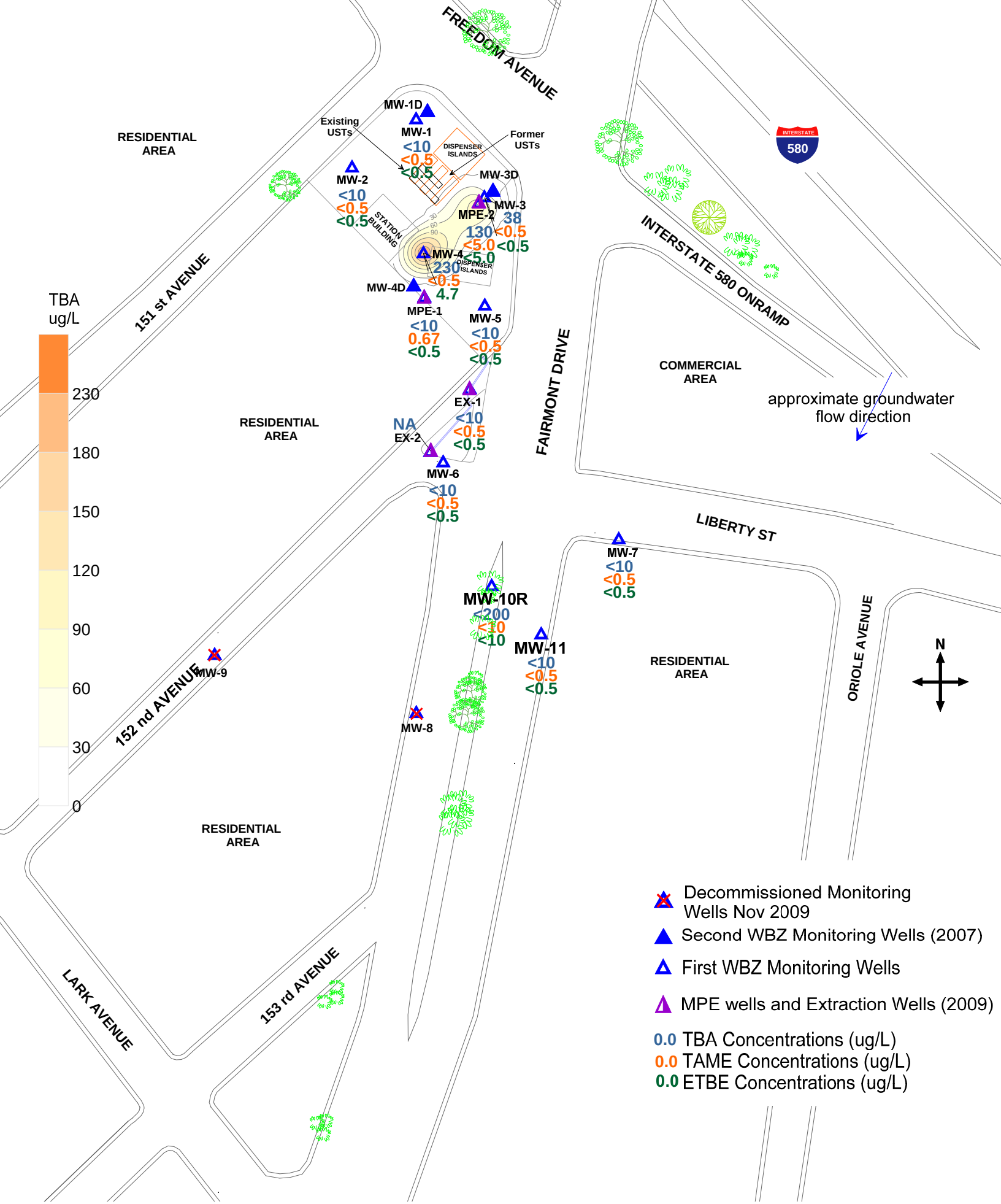



approximate scale in feet

0 50 100

Figure 6: Contour Map of MtBE Concentrations in Groundwater, First WBZ, June 15 and 16, 2016

SOMA ENVIRONMENTAL ENGINEERING, INC.




approximate scale in feet

0 50 100

Figure 7: Contour Map of TBA Concentrations and Map of TAME and ETBE Concentrations in Groundwater, First WBZ, June 15 and 16, 2016

SOMA ENVIRONMENTAL ENGINEERING, INC.

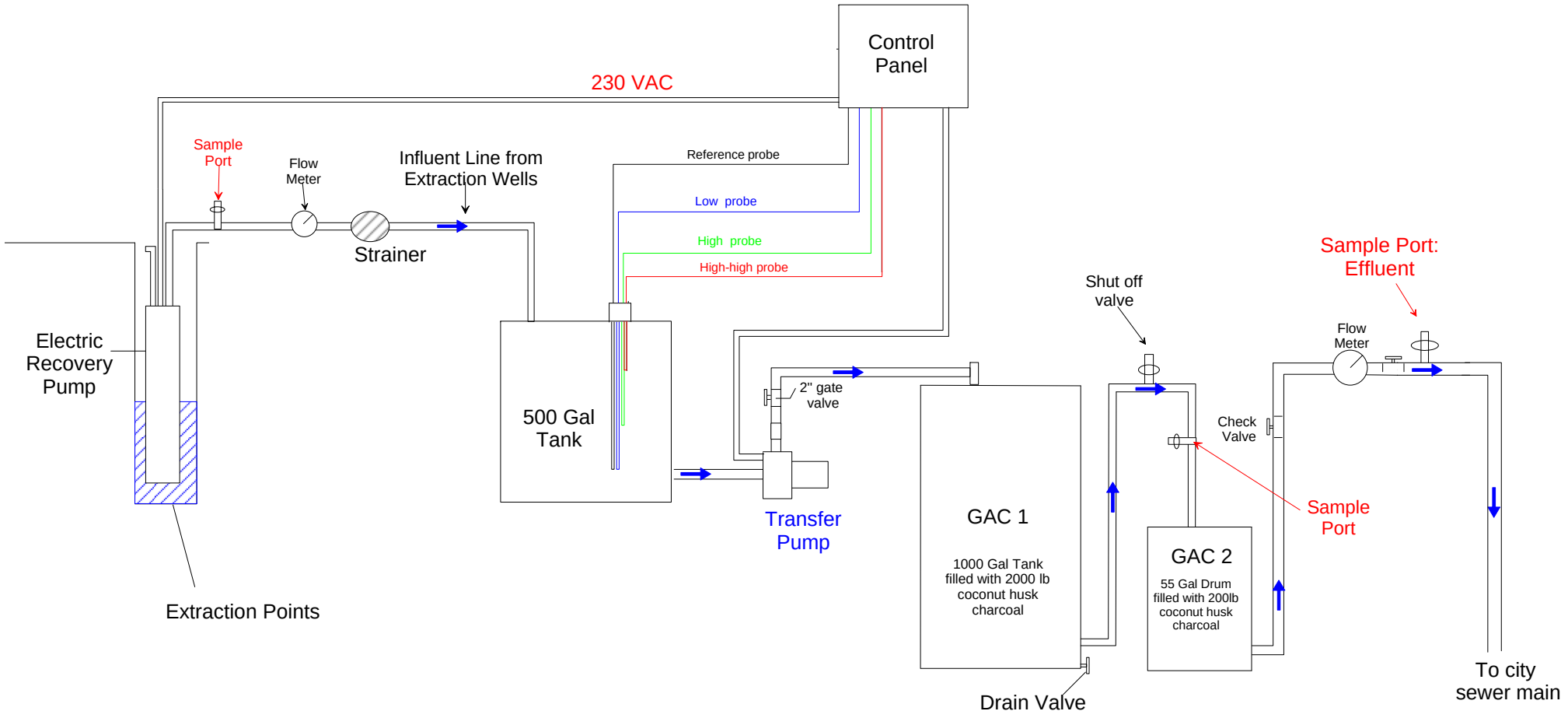



Figure 8: Schematic diagram of Groundwater Remediation System

ENVIRONMENTAL ENGINEERING, INC.

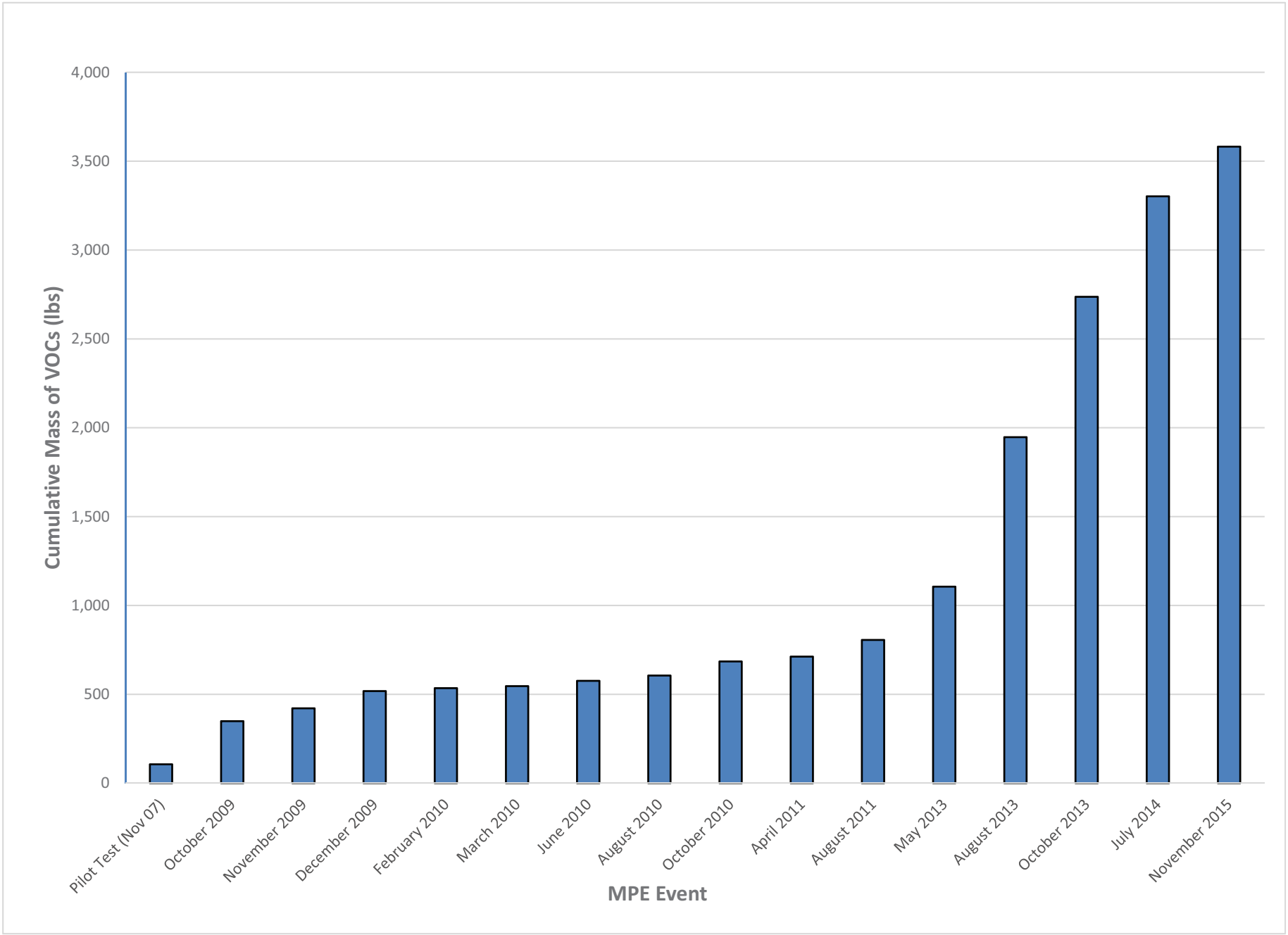



**Figure 9: Cumulative Mass of VOCs Removed**

# Tables

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1st WBZ | | | | | | | | | | | |
| MW-1 | 5/10/2002 | 51.71 | 22.85 | - | 28.86 | 5,700 | 360 | 4.5 | 340 | 450 | 2 |
| | 8/8/2002 | 51.71 | 23.31 | - | 28.40 | 9,100 | 590 | 2.6 | 830 | 362 | <1.3 |
| | 11/8/2002 | 51.71 | 23.58 | - | 28.13 | 7,900 | 570 | 3.1 | 680 | 392 | < 1.0 |
| | 2/21/2003 | 51.71 | 22.62 | - | 29.09 | 2,900 | 160 | 1.6 C | 170 | 211 | <0.5 |
| | 5/28/2003 | 51.71 | 22.43 | - | 29.28 | 1,700 | 55 | <0.5 | 90 | 115 | 2.00 |
| | 8/12/2003 | 51.71 | 21.30 | - | 30.41 | 2,600 | 2.5 | <0.5 | 190 | 130 | <0.5 |
| | 10/9/2003 | 51.71 | 23.49 | - | 28.22 | 9,200 | 560.0 | 2.7 C | 670 | 648 | <1.0 |
| | 1/15/2004 | 51.71 | 22.43 | - | 29.28 | 5,500 | 190 | <1.0 | 220 | 124.4 | <0.5 |
| | 5/25/2004 | 51.71 | 22.94 | - | 28.77 | 8,000 | 400 | 1.50 | 420 | 393 | 3.40 |
| | 9/21/2004 | 54.46 | 23.49 | - | 30.97 | 9,300 | 580 | 9.30 | 690 | 683 | 4.60 |
| | 12/14/2004 | 54.46 | 23.01 | - | 31.45 | 7,360 | 337 | <4.3 | 731 | 633 | <4.3 |
| | 3/11/2005 | 54.46 | 21.48 | - | 32.98 | 2,510 | 45.2 | <0.5 | 23.2 | 39.63 | 2.80 |
| | 6/15/2005 | 54.46 | 22.42 | - | 32.04 | 1,690 | 36.3 | <2.0 | 59.5 | 28.73 | 2.01 |
| | 8/26/2005 | 54.46 | 23.00 | - | 31.46 | 7,310 | 318 | <8.60 | 475 | 316 | 5.15 |
| | 11/11/2005 | 54.46 | 21.40 | - | 33.06 | 9,640 | 341 | <8.6 | 467 | 329.7 | 6.04 |
| | 2/9/2006 | 54.46 | 21.81 | - | 32.65 | 775 | 14 | <2.0 | 12.6 | 10.32 | 4.01 |
| | 5/9/2006 | 54.46 | 21.68 | - | 32.78 | 444 | 7.80 | <2.0 | 12.1 | 6.31 | 1.75 |
| | 8/10/2006 | 54.46 | 22.79 | - | 31.67 | 5,090 | 324 | <8.60 | 108 | 59.9 | 8.24 |
| | 10/26/2006 | 54.46 | 23.19 | - | 31.27 | 6,950 | 556 | <4.0 | 190 | 136.09 | 8.61 |
| | 1/25/2007 | 54.46 | 22.82 | - | 31.64 | 2,640 | 196 | <2.0 | 105 | 25.5 | 7.92 |
| | 4/26/2007 | 54.46 | 22.67 | - | 31.79 | 861 | 95.5 | <2.0 | 17 | 6.36 | 4.00 |
| | 7/25/2007 | 54.46 | 23.25 | - | 31.21 | 4,520 | 412 | <4.0 | 182 | 77.9 | 7.48 |
| | 10/23/2007 | 54.46 | 23.42 | - | 31.04 | 3,900 | 117 | <2.0 | 87.1 | 23.87 | 4.54 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-1** cont. | 1/22/2008 | 54.46 | 22.59 | - | 31.87 | 2,260 | 81.3 | <2.0 | 17.5 | <2.0 | 4.23 |
| | 4/16/2008 | 54.46 | 22.89 | - | 31.57 | 2,320 | 248 | <2.0 | 54.1 | 37.3 | <0.5 |
| | 7/3/2008 | 54.46 | 23.33 | - | 31.13 | 5,240 | 414 | <2.0 | 168 | 94 | 6.56 |
| | 10/15/2008 | 54.46 | 23.76 | - | 30.70 | 4,500 [Y] | 260 | <1.0 | 150 | 130 | 3.40 |
| | 1/7/2009 | 54.46 | 23.25 | - | 31.21 | 4,800 | 140 | <1.3 | 48 | 32 | 1.70 |
| | 4/14/2009 | 54.46 | 22.52 | - | 31.94 | 1,800 [Y] | 78 | <0.5 | 35 | 18 | 2.50 |
| | 8/27/2009 | 54.46 | 23.6 | - | 30.86 | 4,500 | 330 | <2.0 | 97 | 42 | 4.60 |
| | 12/2/2009 | 54.46 | 23.43 | - | 31.03 | 3,800 [Y] | 250 | <2.0 | 110 | 25 | 2.50 |
| | 3/17/2010 | 54.46 | 22.32 | - | 32.14 | 1,100 | 33 | <0.50 | 46 | 18 | 1.70 |
| | 6/3/2010 | 54.46 | 22.88 | - | 31.58 | 10,000 | 330 | 4.3 | 680 | 841.5 | 5.20 |
| | 9/2/2010 | 54.46 | 23.28 | - | 31.18 | 8,900 | 440 | <5.0 | 510 | 310 | <5.0 |
| | 12/2/2010 | 54.46 | 23.21 | - | 31.25 | 7,400 | 250 | <3.1 | 390 | 180 | <3.1 |
| | 3/4/2011 | 54.46 | 21.95 | N | 32.51 | 2,400 | 67 | <0.5 | 45 | 8.4 | 2.20 |
| | 5/20/2011 | 54.46 | 22.8 | N | 31.66 | 9,500 | 260 | 6.2 | 970 | 480 | <3.6 |
| | 9/9/2011 | 54.46 | 22.81 | N | 31.65 | 6,400 | 220 | <1.3 | 380 | 160 | 2.30 |
| | 12/2/2011 | 54.46 | 21.97 | N | 32.49 | 4,700 [X] | 96 | <1.7 | 310 | 200 | <3.3 |
| | 3/2/2012 | 54.46 | 22.82 | N | 31.64 | 6,800 | 320 | <2.5 | 430 | 120 | <2.5 |
| | 6/7/2012 | 54.46 | 22.92 | N | 31.54 | 5,600 | 130 | <2.5 | 360 | 160 | 2.9 |
| | 9/21/2012 | 54.46 | 23.56 | N | 30.90 | 8,000 | 300 | <2.5 | 410 | 340 | 2.6 |
| | 12/14/2012 | 54.46 | 22.77 | N | 31.69 | 5,900 | 130 | <2.5 | 320 | 97 | <2.5 |
| | 3/28/2013 | 54.46 | 23.15 | N | 31.31 | 5,100 | 230 | <2.5 | 280 | 48 | 3.6 |
| | 6/11/2013 | 54.46 | 23.48 | N | 30.98 | 6,800 | 200 | <2.5 | 300 | 120 | <2.5 |
| | 9/17/2013 | 54.46 | 23.84 | N | 30.62 | 7,500 | 120 | <2.5 | 410 | 260 | <2.5 |
| | 12/6/2013 | 54.46 | 24.16 | N | 30.30 | 5,300 | 71 | <1.7 | 240 | 84 | <1.7 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-1** cont. | 3/13/2014 | 54.46 | 23.47 | N | 30.99 | 2,800 | 16 | <0.5 | 74 | 15 | 1.4 |
| | 6/6/2014 | 54.46 | 23.46 | N | 31.00 | 5,000 | 47 | <0.5 | 240 | 58 | 0.9 |
| | 9/23/2014 | 54.46 | 24.49 | N | 29.97 | 6,700 | 44 | <1.7 | 200 | 71 | <1.7 |
| | 12/23/2014 | 54.46 | 21.52 | N | 32.94 | 730 | 2.2 | <0.5 | 0.84 | <0.5 | <0.5 |
| | 3/20/2015 | 54.46 | 22.83 | N | 31.63 | 1,200 | 8.6 | 1.9 | 17 | <0.5 | 0.59 |
| | 6/4/2015 | 54.46 | 23.22 | N | 31.24 | 5,100 | 23 | <0.71 | 110 | 3.6 | 0.73 |
| | 9/11/2015 | 54.46 | 23.76 | N | 30.70 | 4,200 | 3.3 | <1.7 | 18 | <1.7 | <1.7 |
| | 12/28/2015 | 54.46 | 23.39 | N | 31.07 | 590 | <0.5 | <0.5 | 1.4 | 0.55 | <0.5 |
| | 3/23/2016 | 54.46 | 21.38 | N | 33.08 | 98 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **6/15/2016** | **54.46** | **21.41** | **N** | **33.05** | **1,300** | **37** | **<0.5** | **99** | **9.3** | **0.79** |
| | | | | | | | | | | | |
| **MW-2** | 5/10/2002 | 49.66 | 22.83 | - | 26.83 * | 3,100 | 67 | 8 | 250 | 215 | 56 |
| | 8/8/2002 | 49.66 | 21.41 | - | 28.25 | 2,700 | 4.6 | <0.5 | 310 | 140 | <0.5 |
| | 11/8/2002 | 49.66 | 21.79 | - | 27.87 | 3,400 | 4.6 | < 0.5 | 310 | 160 | < 0.5 |
| | 2/21/2003 | 49.66 | 20.51 | - | 29.15 | 890 | 1.7 C | 0.80 C | 68 | 38.92 C | <0.5 |
| | 5/28/2003 | 49.66 | 20.33 | - | 29.33 | 2,700 | 5.2 C | <0.5 | 120 | 140 | 1.2 |
| | 8/12/2003 | 49.66 | 23.18 | - | 26.48* | 8,500 | 640 | <2.5 | 560 | 659 | <0.8 |
| | 10/9/2003 | 49.66 | 21.71 | - | 27.95 | 3100 H | 4.3 C | <0.5 | 210 | 160 | <0.5 |
| | 1/15/2004 | 49.66 | 20.31 | - | 29.35 | 660 H | 1.5 C | <0.5 | 8.9 | 25 | <0.5 |
| | 5/25/2004 | 49.66 | 21.09 | - | 28.57 | 4,500 | 5.1 C | <0.5 | 190 | 230 | 0.70 |
| | 9/21/2004 | 52.41 | 21.71 | - | 30.70 | 370 | 0.76 C | <0.5 | 25 | 16 | 0.50 |
| | 12/14/2004 | 52.41 | 21.20 | - | 31.21 | 880 | 1.0 | <0.5 | 66 | 52 | <0.5 |
| | 3/11/2005 | 52.41 | 19.15 | - | 33.26 | 564 | <0.5 | <0.5 | 21 | 11.9 | <0.5 |
| | 6/15/2005 | 52.41 | 20.30 | - | 32.11 | 2,040 | 1.2 | <2.0 | 78.2 | 22 | <0.5 |
| | 8/26/2005 | 52.41 | 20.97 | - | 31.44 | 1,500 | 0.930 | <2.00 | 87.6 | 21 | 0.86 |
| | 11/11/2005 | 52.41 | 25.30 | - | 27.11 | 2,140 | 1.08 | <2.0 | 104 | 29 | 0.79 |
| | 2/9/2006 | 52.41 | 19.41 | - | 33.00 | 1,410 | <0.5 | <2.0 | 99.6 | 21.4 | 0.72 |
| | 5/9/2006 | 52.41 | 19.41 | - | 33.00 | 1,100 | <0.5 | <2.0 | 86.5 | 17 | <0.5 |
| | 8/10/2006 | 52.41 | 20.8 | - | 31.61 | 3,180 | 2.87 | <2.0 | 88.9 | 24.8 | <0.50 |
| | 10/26/2006 | 52.41 | 21.22 | - | 31.19 | 1,200 | <0.5 | <2.0 | 23.5 | 4.79 | 0.6 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-2** cont. | 1/25/2007 | 52.41 | 20.89 | - | 31.52 | 623 | 0.64 | <2.0 | 42.4 | 4.37 | 0.66 |
| | 4/26/2007 | 52.41 | 20.65 | - | 31.76 | 169 | <0.5 | <2.0 | 15.2 | 2.3 | <0.5 |
| | 7/25/2007 | 52.41 | 21.43 | - | 30.98 | 276 | 0.78 | <2.0 | 22.1 | 4.04 | <0.5 |
| | 10/23/2007 | 52.41 | 21.59 | - | 30.82 | 535 | <0.5 | <2.0 | 18 | 5.11 | <0.5 |
| | 1/22/2008 | 52.31 | 20.45 | - | 31.86 | 132 | <0.5 | <2.0 | 12.2 | <2.0 | <0.5 |
| | 4/15/2008 | 52.41 | 20.89 | - | 31.52 | 852 | <0.5 | <2.0 | 27.2 | 4.78 | <0.5 |
| | 7/2/2008 | 52.41 | 21.5 | - | 30.91 | 98.3 | <0.5 | <2.0 | 2.76 | <2.0 | <0.5 |
| | 10/15/2008 | 52.41 | 22.06 | - | 30.35 | 1,400 [Y] | <0.5 | <0.5 | 60 | 17 | <0.5 |
| | 1/7/2009 | 52.41 | 21.35 | - | 31.06 | 93 | <0.5 | <0.5 | 2.1 | 0.74 | <0.5 |
| | 4/13/2009 | 52.41 | 20.52 | - | 31.89 | 480 [Y] | <0.5 | <0.5 | 20 | 5.5 | <0.5 |
| | 8/27/2009 | 52.41 | 21.85 | - | 30.56 | 130 | <0.5 | <0.5 | 2.5 | 0.61 | <0.5 |
| | 12/1/2009 | 52.41 | 21.59 | - | 30.82 | 760 [Y] | <0.5 | <0.5 | 14 | 1.5 | <0.5 |
| | 3/17/2010 | 52.41 | 20.11 | - | 32.30 | 480 | <0.5 | <0.5 | 30 | 6.9 | <0.5 |
| | 6/3/2010 | 52.41 | 21 | - | 31.41 | 690 | <0.5 | <0.5 | 14 | 2.6 | <0.5 |
| | 9/2/2010 | 52.41 | 21.42 | - | 30.99 | 470 | <0.5 | <0.5 | 7.6 | 1 | <0.5 |
| | 12/2/2010 | 52.41 | 21.44 | - | 30.97 | 470 | <0.5 | <0.5 | 7.6 | 3.3 | <0.5 |
| | 3/4/2011 | 52.41 | 19.65 | N | 32.76 | 240 | <0.5 | <0.5 | 6.6 | 0.8 | <0.5 |
| | 5/20/2011 | 52.41 | 20.75 | N | 31.66 | 310 | <0.5 | <0.5 | 4.8 | <0.5 | <0.5 |
| | 9/9/2011 | 52.41 | 21.05 | N | 31.36 | 1,000 | <0.5 | <0.5 | 12 | 0.76 | <0.5 |
| | 12/2/2011 | 52.41 | 20.14 | N | 32.27 | 900 [X] | <2.9 | <1.7 | 14 | 1.9 | <3.3 |
| | 3/2/2012 | 52.41 | 19.98 | N | 32.43 | 880 | <0.5 | <0.5 | 5.3 | 0.58 | <0.5 |
| | 6/7/2012 | 52.41 | 21.04 | N | 31.37 | 720 | <0.5 | <0.5 | 7.9 | 0.79 | <0.5 |
| | 9/21/2012 | 52.41 | 21.78 | N | 30.63 | 1,400 | <0.5 | <0.5 | 11 | <0.5 | <0.5 |
| | 12/14/2012 | 52.41 | 20.71 | N | 31.70 | 760 | <0.5 | <0.5 | 10 | 1.5 | <0.5 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-2** cont. | 3/28/2013 | 52.41 | 21.24 | N | 31.17 | 890 | <0.5 | <0.5 | 4.3 | <0.5 | <0.5 |
| | 6/11/2013 | 52.41 | 21.67 | N | 30.74 | 510 | 150 | <0.5 | 15 | 12.3 | 3.1 |
| | 9/16/2013 | 52.41 | 22.15 | N | 30.26 | 210 | <0.5 | <0.5 | 1.1 | <0.5 | <0.5 |
| | 12/6/2013 | 52.41 | 22.52 | N | 29.89 | 290 | 1.4 | <0.5 | 1.1 | <0.5 | <0.5 |
| | 3/13/2014 | 52.41 | 21.56 | N | 30.85 | 190 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/6/2014 | 52.41 | 21.7 | N | 30.71 | 97 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/23/2014 | 52.41 | 22.95 | N | 29.46 | 80 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/23/2014 | 52.41 | 18.91 | N | 33.50 | 140 | <0.5 | 0.7 | 1.8 | <0.5 | <0.5 |
| | 3/20/2015 | 52.41 | 20.76 | N | 31.65 | 380 | <0.5 | 0.8 | 0.86 | <0.5 | <0.5 |
| | 6/4/2015 | 52.41 | 21.3 | N | 31.11 | 700 | <0.5 | <0.5 | 0.72 | <0.5 | <0.5 |
| | 9/11/2015 | 52.41 | 21.95 | N | 30.46 | 1,900 | <1.0 | <1.0 | 2.3 | <1.0 | <1.0 |
| | 12/28/2015 | 52.41 | 21.38 | N | 31.03 | 170 | <0.5 | <0.5 | 0.51 | <0.5 | <0.5 |
| | 3/23/2016 | 52.41 | 18.88 | N | 33.53 | 170 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **6/15/2016** | **52.41** | **18.91** | **N** | **33.50** | **380** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| | | | | | | | | | | | |
| **MW-3** | 5/10/2002 | 51.16 | 22.28 | - | 28.88 | 44,000 | 6,000 | 900 | 1,500 | 6,200 | 2,400 |
| | 8/8/2002 | 51.16 | 22.88 | - | 28.28 | 40,000 | 5,800 | 1,100 | 1,600 | 6,500 | 1,300 |
| | 11/8/2002 | 51.16 | 23.19 | - | 27.97 | 47,000 | 5,300 | 1,200 | 2,200 | 8,600 | 1,000 |
| | 2/21/2003 | 51.16 | 22.02 | - | 29.14 | 39,000 | 5,500 | 1,500 | 2,000 | 8,600 | 1,300 |
| | 5/28/2003 | 51.16 | 21.89 | - | 29.27 | 52,000 | 7,300 | 3,000 | 2,800 | 12,700 | 2,100 |
| | 8/12/2003 | 51.16 | 22.66 | - | 28.50 | 31,000 | 6,100 | 860 | 1,500 | 6,900 | 1,200 |
| | 10/9/2003 | 51.16 | 23.06 | - | 28.10 | 41,000 | 6,100 | 1,100 | 2,200 | 10,200 | 960 |
| | 1/15/2004 | 51.16 | 21.85 | - | 29.31 | 51,000 | 4,100 | 1,100 | 2,000 | 8,400 | 590 |
| | 5/25/2004 | 51.16 | 22.55 | - | 28.61 | 65,000 | 4,300 | 1,300 | 2,500 | 10,500 | 720 |
| | 9/21/2004 | 53.91 | 23.08 | - | 30.83 | 42,000 | 4,900 | 890 | 2,200 | 8,700 | 480 |
| | 12/14/2004 | 53.91 | 22.52 | - | 31.39 | 35,151 | 4,066 | 972 | 2,942 | 13,032 | 491 |
| | 3/11/2005 | 53.91 | 20.90 | - | 33.01 | 42,600 | 3,040 | 1,100 | 1,530 | 6,670 | 968 |
| | 6/15/2005 | 53.91 | 21.85 | - | 32.06 | 84,100 | 5,110 | 2,160 | 3,030 | 8,800 | 2,670 |
| | 8/26/2005 | 53.91 | 22.49 | - | 31.42 | 43,500 | 3,630 | 1,080 | 2,500 | 6,830 | 1,440 |
| | 11/11/2005 | 53.91 | 22.81 | - | 31.10 | 47,700 | 4,240 | 520 | 2,170 | 6,320 | 1,390 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-3** cont. | 2/9/2006 | 53.91 | 21.12 | - | 32.79 | 44,500 | 5,070 | 1360 | 1,920 | 4,840 | 3,280 |
| | 5/9/2006 | 53.91 | 21.09 | - | 32.82 | 48,100 | 2,510 | 1,140 | 1,950 | 5,030 | 2,210 |
| | 8/10/2006 | 53.91 | 22.26 | - | 31.65 | 42,100 | 3,450 | 869 | 1,760 | 5,650 | 3,570 |
| | 10/26/2006 | 53.91 | 22.73 | - | 31.18 | 33,400 | 4,800 | 331 | 1,170 | 3,510 | 4,790 |
| | 1/25/2007 | 53.91 | 22.34 | - | 31.57 | 19,300 | 4,820 | 167 | 1,540 | 3,740 | 3,430 |
| | 4/26/2007 | 53.91 | 22.24 | - | 31.67 | 30,700 | 2,350 | 158 | 1,470 | 4,320 | 1,330 |
| | 7/25/2007 | 53.91 | 22.83 | - | 31.08 | 34,900 | 5,400 | 364 | 2,080 | 6,360 | 1,980 |
| | 10/23/2007 | 53.91 | 23.01 | - | 30.9 | 22,600 | 4,070 | <86 | 1,120 | 3,095 | 970 |
| | 1/22/2008 | 53.96 | 22.04 | - | 31.92 | 22,100 | 1,280 | 453 | 1,330 | 3,520 | 490 |
| | 4/16/2008 | 53.91 | 22.4 | - | 31.51 | 20,700 | 2,790 | 182 | 860 | 3,389 | 263 |
| | 7/3/2008 | 53.91 | 22.9 | - | 31.01 | 48,500 | 3,760 | 346 | 3,130 | 12,980 | 573 |
| | 10/16/2008 | 53.91 | 23.36 | - | 30.55 | 50,000 | 3,900 | 300 | 3,100 | 11,000 | 460 |
| | 1/8/2009 | 53.91 | 22.82 | - | 31.09 | 54,000 | 2,600 | 180 | 2,500 | 8,800 | 220 |
| | 4/13/2009 | 53.91 | 22.06 | - | 31.85 | 49,000 | 2,900 | 170 | 2,100 | 8,100 | 490 |
| | 8/27/2009 | 53.91 | 23.11 | - | 30.80 | 43,000 | 2,500 | 160 | 1,900 | 7,000 | 210 |
| | 12/2/2009 | 53.91 | 23.00 | - | 30.91 | 30,000 | 2,100 | 180 | 1,600 | 5,600 | 91 |
| | 3/17/2010 | 53.91 | 21.90 | - | 32.01 | 24,000 | 970 | 81 | 1,100 | 3,700 | 38 |
| | 6/3/2010 | 53.91 | 22.49 | - | 31.42 | 31,000 | 1,200 | 110 | 1,300 | 4,400 | 34 |
| | 9/2/2010 | 53.91 | 22.76 | - | 31.15 | 26,000 | 1,100 | 81 | 1,200 | 3,810 | 26 |
| | 12/2/2010 | 53.91 | 22.86 | - | 31.05 | 18,000 | 830 | 47 | 780 | 2,360 | 14 |
| | 3/4/2011 | 53.91 | 21.44 | N | 32.47 | 18,000 | 410 | 32 | 850 | 2,480 | 16 |
| | 5/20/2011 | 53.91 | 22.36 | N | 31.55 | 12,000 | 710 | 24 | 620 | 1,460 | 11 |
| | 9/9/2011 | 53.91 | 22.44 | N | 31.47 | 11,000 | 1,100 | 26 | 580 | 1,430 | 7.8 |
| | 12/2/2011 | 53.91 | 21.60 | N | 32.31 | 5,100 [x] | 280 | 12 | 370 | 740 | <1.7 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-3** cont. | 3/2/2012 | 53.91 | 22.39 | N | 31.52 | 13,000 | 440 | 23 | 690 | 1,570 | <5.0 |
| | 6/7/2012 | 53.91 | 22.50 | N | 31.41 | 9,000 | 290 | 9.3 | 520 | 900 | <5.0 |
| | 9/21/2012 | 53.91 | 23.17 | N | 30.74 | 12,000 | 710 | 26 | 630 | 1,230 | 8.2 |
| | 12/14/2012 | 53.91 | 22.32 | Y | 31.59 | 8,500 | 350 | 8.7 | 550 | 1,003 | <5 |
| | 3/28/2013 | 53.91 | 22.69 | Y | 31.22 | 9,300 | 790 | 8.2 | 760 | 974 | 8.7 |
| | 6/11/2013 | 53.91 | 23.06 | Y | 30.85 | 14,000 | 700 | 26 | 860 | 1,630 | 6.1 |
| | 9/17/2013 | 53.91 | 23.41 | Y | 30.50 | 28,000 | 570 | 37 | 1,800 | 3,560 | <10 |
| | 12/6/2013 | 53.91 | 23.76 | Y | 30.15 | 23,000 | 360 | 26 | 1,700 | 3,330 | <10 |
| | 3/12/2014 | 53.91 | 23.13 | 22.98 | 30.88 | FP | FP | FP | FP | FP | FP |
| | 6/5/2014 | 53.91 | 23.08 | 23.06 | 30.84 | FP | FP | FP | FP | FP | FP |
| | 9/23/2014 | 53.91 | 24.16 | Y | 29.75 | 41,000 | 230 | 84 | 1,000 | 4,500 | <10 |
| | 12/23/20014 | 53.91 | 20.83 | N | 33.08 | 13,000 | 64 | 28 | 250 | 1,250 | <3.6 |
| | 3/20/2015 | 53.91 | 22.32 | Y | 31.59 | 18,000 | 140 | 24 | 730 | 1,870 | <3.6 |
| | 6/4/2015 | 53.91 | 22.77 | Y | 31.14 | 32,000 | 200 | 17 | 680 | 1,820 | <6.3 |
| | 9/11/2015 | 53.91 | 23.31 | Y | 30.60 | 24,000 | 260 | <6.3 | 380 | 1,144 | <6.3 |
| | 12/29/2015 | 53.91 | 22.95 | Y | 30.96 | 13,000 | 74 | <5.0 | 220 | 628 | <5.0 |
| | 3/24/2016 | 53.91 | 20.75 | Y | 33.16 | 7,600 | 180 | 2 | 130 | 263 | 3.2 |
| | **6/16/2016** | **53.91** | **20.78** | **Y** | **33.13** | **10,000** | **98** | **2.6** | **250** | **507** | **1.7** |
| | | | | | | | | | | | |
| **MW-4** | 5/10/2002 | 50.54 | 21.78 | - | 28.76 | 880 | 25 | 1.0C | 110 | 52 | 12,000 |
| | 8/8/2002 | 50.54 | 22.50 | - | 28.04 | 3,800 | 70 | <5.0 | 300 | 115 | 4,800 |
| | 11/8/2002 | 50.54 | 22.81 | - | 27.73 | 5,100 | 150 | 10 | 460 | 258 | 2,400 |
| | 2/21/2003 | 50.54 | 21.48 | - | 29.06 | 3,200 | 98 | 66 | 220 | 360 | 6,600 |
| | 5/28/2003 | 50.54 | 21.24 | - | 29.30 | 6,200 | 140 | 46 | 200 | 790 | 2,300 |
| | 8/12/2003 | 50.54 | 22.32 | - | 28.22 | 7,500 | 180 | 57 | 220 | 1450 | 1,900 |
| | 10/9/2003 | 50.54 | 22.74 | - | 27.80 | 5,800 | 250 | 32 | 300 | 970 | 7,800 |
| | 1/15/2004 | 50.54 | 21.19 | - | 29.35 | 5,900 | 270 | 17 C | 150 | 640 | 7,300 |
| | 5/25/2004 | 50.54 | 22.03 | - | 28.51 | 9,100 | 210 | 51 | 200 | 1190 | 1800 |
| | 9/21/2004 | 53.31 | 22.76 | - | 30.55 | 5,200 | 290 | 12 | 370 | 600 | 7300 |
| | 12/14/2004 | 53.31 | 21.99 | - | 31.32 | 8,937 | 538 | 114 | 416 | 2379 | 5021 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-4** cont. | 3/11/2005 | 53.31 | 20.01 | - | 33.30 | 12,300 | 225 | 39.6 | 80.1 | 1465 | 3870 |
| | 6/15/2005 | 53.31 | 21.25 | - | 32.06 | 7,690 | 114 | 32.6 | 77.1 | 555 | 1150 |
| | 8/26/2005 | 53.31 | 22.03 | - | 31.28 | 8,850 | 175 | 24.6 | 150 | 851 | 1380 |
| | 11/11/2005 | 53.31 | 22.43 | - | 30.88 | 9,990 | 356 | <43 | 196 | 700 | 3,640 |
| | 2/9/2006 | 53.31 | 20.31 | - | 33.00 | 6,850 | 205 | <43 | 67.2 | 255.2 | 5,120 |
| | 5/9/2006 | 53.31 | 20.33 | - | 32.98 | 1,290 | 18.1 | <8.6 | 12.9 | 25.87 | 799 |
| | 8/10/2006 | 53.31 | 21.74 | - | 31.57 | 7,830 | 118 | <8.60 | 25.3 | 174.6 | 919 |
| | 10/26/2006 | 53.31 | 22.29 | - | 31.02 | 1,540 | 81.9 | <43 | 96 | 46.4 | 3,610 |
| | 1/25/2007 | 53.31 | 21.86 | - | 31.45 | 4,370 | 163 | <8.6 | 85.1 | 269.1 | 1,050 |
| | 4/26/2007 | 53.31 | 21.63 | - | 31.68 | 4,380 | 140 | <8.6 | 67 | 276.8 | 576 |
| | 7/25/2007 | 53.31 | 22.49 | - | 30.82 | 4,970 | 220 | <8.60 | 198 | 241.5 | 1,040 |
| | 10/23/2007 | 53.31 | 22.69 | - | 30.62 | 4,200 | 267 | <8.6 | 147 | 155.5 | 1,220 |
| | 1/22/2008 | 53.36 | 21.39 | - | 31.97 | 2,180 | 133 | <22.0 | 43.1 | 32.2 | 1,800 |
| | 4/15/2008 | 53.31 | 21.9 | - | 31.41 | 4,240 | 90.4 | <22.0 | 107 | 380 | 674 |
| | 7/2/2008 | 53.31 | 22.55 | - | 30.76 | 2,300 | 193 | <22.0 | 212 | 183 | 4,050 |
| | 10/16/2008 | 53.31 | 23.13 | - | 30.18 | 8,900 | 320 | 3.7 | 430 | 1,160 | 450 |
| | 1/8/2009 | 53.31 | 22.42 | - | 30.89 | 19,000 | 430 | 44 | 590 | 3,380 | 440 |
| | 4/13/2009 | 53.31 | 21.51 | - | 31.80 | 21,000 | 400 | 38 | 450 | 2,880 | 330 |
| | 8/27/2009 | 53.31 | 22.94 | - | 30.37 | 16,000 | 960 | 64 | 560 | 2,120 | 290 |
| | 12/2/2009 | 53.31 | 22.36 | - | 30.95 | 4,400 | 480 | 6 | 170 | 640 | 110 |
| | 3/17/2010 | 53.31 | 21.39 | - | 31.92 | 14,000 | 260 | 6 | 230 | 1,220 | 93 |
| | 6/3/2010 | 53.31 | 22.23 | - | 31.08 | 18,000 | 240 | 4 | 310 | 770 | 41 |
| | 9/2/2010 | 53.31 | 22.51 | - | 30.80 | 1,800 | 800 | <3.6 | 150 | 25 | 33 |
| | 12/2/2010 | 53.31 | 22.71 | - | 30.60 | 3,800 | 1,500 | <10 | 200 | 115 | 29 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-4** cont. | 3/3/2011 | 53.31 | 20.64 | N | 32.67 | 2,400 | 28 | <0.71 | 28 | 17 | 3 |
| | 5/19/2011 | 53.31 | 21.84 | N | 31.47 | 1,800 | 27 | <0.5 | 29 | 11.2 | 4.8 |
| | 9/8/2011 | 53.31 | 22.11 | N | 31.20 | 3,600 | 300 | 2.6 | 270 | 68.5 | 59 |
| | 12/1/2011 | 53.31 | 21.38 | N | 31.93 | 1,400 [x] | 370 | <0.84 | 110 | 30.6 | 110 |
| | 3/2/2012 | 53.31 | 22.02 | N | 31.29 | 3,100 | 780 | <2.0 | 150 | 59.6 | 50 |
| | 6/7/2012 | 53.31 | 22.24 | N | 31.07 | 2,000 | 290 | <2.5 | 66 | 23 | 29 |
| | 9/21/2012 | 53.31 | 22.87 | N | 30.44 | 2,900 | 820 | <2.5 | 75 | 17 | 72 |
| | 12/14/2012 | 53.31 | 21.84 | N | 31.47 | 840 | 48 | <0.5 | 14 | 4.5 | 2.5 |
| | 3/28/2013 | 53.31 | 22.24 | N | 31.07 | 790 | 650 | <5.0 | 26 | <5.0 | 15 |
| | 6/11/2013 | 53.31 | 22.71 | N | 30.60 | 1,100 | 860 | <5.0 | 64 | <5.0 | 35 |
| | 9/17/2013 | 53.31 | 23.23 | N | 30.08 | <1,000 | 1,300 | <10 | 22 | <10 | 44 |
| | 12/6/2013 | 53.31 | 23.6 | N | 29.71 | 2,300 | 3,300 | <10 | 78 | 199 | 42 |
| | 3/13/2014 | 53.31 | 22.6 | N | 30.71 | <630 | 600 | <6.3 | 7.0 | 21 | 6.8 |
| | 6/6/2014 | 53.31 | 22.97 | N | 30.34 | <630 | 710 | <6.3 | 21 | <6.3 | 17.0 |
| | 9/23/2014 | 53.31 | 24.22 | N | 29.09 | <630 | 1,100 | <6.3 | 10 | 6.6 | 7.5 |
| | 12/23/2014 | 53.31 | 19.78 | N | 33.53 | <50 | 0.95 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/20/2015 | 53.31 | 21.75 | N | 31.56 | 56 | 1.8 | <0.5 | 2.00 | <0.5 | 8.7 |
| | 6/4/2015 | 53.31 | 22.29 | N | 31.02 | 210 | 35 | <0.5 | 4.10 | 0.54 | 12 |
| | 9/11/2015 | 53.31 | 23.02 | N | 30.29 | 1,200 | 140 | 1.1 | 7.30 | 19 | 39 |
| | 12/29/2015 | 53.31 | 24.5 | N | 28.81 | 440 | 91 | <0.5 | 0.84 | 0.74 | 17 |
| | 3/23/2016 | 53.31 | 19.81 | N | 33.50 | 62 | 12 | <0.5 | <0.5 | <0.5 | 7.4 |
| | **6/16/2016** | **53.31** | **19.84** | **N** | **33.47** | **120** | **18** | **0.75** | **0.53** | **<0.5** | **4.1** |
| | | | | | | | | | | | |
| **MW-5** | 5/10/2002 | 47.79 | 19.02 | - | 28.77 | 25,000 | 1,000 | 1200 | 1,100 | 3,060 | 1,800 |
| | 8/8/2002 | 47.79 | 19.80 | - | 27.99 | 18,000 | 1,000 | 660 | 950 | 1,720 | 1,500 |
| | 11/8/2002 | 47.79 | 20.14 | - | 27.65 | 16,000 | 1,300 | 380 | 930 | 1,550 | 1,200 |
| | 2/21/2003 | 47.79 | 18.70 | - | 29.09 | 12,000 | 390 | 71 | 770 | 1,100 | 860 |
| | 5/28/2003 | 47.79 | 18.52 | - | 29.27 | 9,100 | 210 | 31 | 560 | 790 | 600 |
| | 8/12/2003 | 47.79 | 19.54 | - | 28.25 | 12,000 | 660 | 75 | 660 | 1,110 | 1,000 |
| | 10/9/2003 | 47.79 | 20.06 | - | 27.73 | 15,000 | 1,000 | 130 | 1,000 | 1,430 | 1,700 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-5** cont. | 1/15/2004 | 47.79 | 18.42 | - | 29.37 | 9,900 | 450 C | 16 | 500 | 431 | 1,100 |
| | 5/25/2004 | 47.79 | 19.30 | - | 28.49 | 9,200 | 380 | 24 | 490 | 536 | 720 |
| | 9/21/2004 | 50.53 | 20.15 | - | 30.38 | 10,000 | 980 | 71 | 560 | 770 | 1200 |
| | 12/14/2004 | 50.53 | 19.30 | - | 31.23 | 10,502 | 587 | 64 | 1040 | 1133 | 1015 |
| | 3/11/2005 | 50.53 | 17.20 | - | 33.33 | 8,390 | 407 | <5.5 | 83 | 42.5 | 1530 |
| | 6/15/2005 | 50.53 | 18.54 | - | 31.99 | 9,350 | 147 | 18.3 | 435 | 146.2 | 573 |
| | 8/26/2005 | 50.53 | 19.31 | - | 31.22 | 9,500 | 261 | <22 | 726 | 321.3 | 749 |
| | 11/11/2005 | 50.53 | 19.75 | - | 30.78 | 10,000 | 443 | 41.5 | 527 | 278.5 | 1,430 |
| | 2/9/2006 | 50.53 | 17.58 | - | 32.95 | 7,640 | 237 | <22 | 187 | 50.2 | 2,050 |
| | 5/9/2006 | 50.53 | 17.54 | - | 32.99 | 8,360 | 111 | <8.6 | 300 | 75.84 | 566 |
| | 8/10/2006 | 50.53 | 19.02 | - | 31.51 | 16,100 | 250 | <22 | 455 | 187.4 | 1,590 |
| | 10/26/2006 | 50.53 | 19.61 | - | 30.92 | 10,100 | 430 | <22 | 375 | 192.6 | 3,060 |
| | 1/25/2007 | 50.53 | 19.19 | - | 31.34 | 3,960 | 340 | <22 | 323 | 150.1 | 1,740 |
| | 4/26/2007 | 50.53 | 18.89 | - | 31.64 | 4,590 | 187 | <8.6 | 307 | 116.5 | 861 |
| | 7/25/2007 | 50.53 | 19.81 | - | 30.72 | 6,490 | 419 | 21.8 | 413 | 223.2 | 913 |
| | 10/23/2007 | 50.53 | 19.98 | - | 30.55 | 6,120 | 550 | 11 | 284 | 141.4 | 433 |
| | 1/22/2008 | 50.18 | 18.69 | - | 31.49 | 9,810 | 572 | 22 | 574 | 184.1 | 126 |
| | 4/15/2008 | 50.18 | 19.16 | - | 31.02 | 8,890 | 335 | 15.1 | 477 | 397.5 | 136 |
| | 7/3/2008 | 50.53 | 19.88 | - | 30.65 | 13,100 | 949 | 34.4 | 875 | 825.5 | 176 |
| | 10/16/2008 | 50.53 | 20.45 | - | 30.08 | 11,000 | 870 | 25 | 820 | 668 | 160 |
| | 1/8/2009 | 50.53 | 19.72 | - | 30.81 | 12,000 | 490 | 21 | 690 | 456 | 76 |
| | 4/13/2009 | 50.53 | 18.81 | - | 31.72 | 9,000 [Y] | 200 | 11 | 390 | 198 | 44 |
| | 8/27/2009 | 50.53 | 21.30 | - | 29.23 | 7,400 | 610 | 15 | 320 | 185 | 66 |
| | 12/2/2009 | 50.53 | 20.00 | - | 30.53 | 8,400 [Y] | 400 | 12 | 540 | 296 | 45 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-5** cont. | 3/17/2010 | 50.53 | 18.73 | - | 31.80 | 4,800 | 120 | 8.7 | 120 | 107 | 14 |
| | 6/4/2010 | 50.53 | 19.60 | - | 30.93 | 7,200 | 160 | 5.7 | 190 | 149.2 | 24 |
| | 9/2/2010 | 50.53 | 19.82 | - | 30.71 | 9,200 | 110 | 12 | 270 | 318 | 35 |
| | 12/2/2010 | 50.53 | 20.10 | - | 30.43 | 9,100 | 170 | 6.7 | 350 | 442 | 23 |
| | 3/4/2011 | 50.53 | 18.00 | N | 32.53 | 2,600 | 18 | 0.62 | 54 | 18.1 | 3 |
| | 5/20/2011 | 50.53 | 19.18 | N | 31.35 | 4,000 | 91 | 8.5 | 110 | 106 | 33 |
| Pre-MPE | 8/4/2011 | 50.53 | NM | - | NC | 3,000 | 23 | 0.95 | 92 | 43.7 | 5.4 |
| | 9/9/2011 | 50.53 | 19.41 | N | 31.12 | 4,200 | 120 | 2.8 | 140 | 61.1 | 22 |
| | 12/2/2011 | 50.53 | 18.59 | N | 31.94 | 6,900 [x] | 96 | 12 | 220 | 104 | 32 |
| | 3/2/2012 | 50.53 | 19.30 | N | 31.23 | 5,400 | 43 | 1.8 | 110 | 85 | 7 |
| | 6/7/2012 | 50.53 | 19.45 | N | 31.08 | 3,700 | 32 | <1.0 | 100 | 59 | 4.4 |
| | 9/21/2012 | 50.53 | 20.17 | N | 30.36 | 3,900 | 68 | 1.5 | 140 | 88.5 | 9.8 |
| | 12/14/2012 | 50.53 | 19.12 | N | 31.41 | 3,100 | 48 | 6.7 | 100 | 62.3 | 5.2 |
| | 3/28/2013 | 50.53 | 19.47 | N | 31.06 | 1,900 | 30 | <1.0 | 59 | 48.4 | 4.5 |
| | 6/11/2013 | 50.53 | 20.03 | N | 30.50 | 2,900 | 22 | 3.9 | 110 | 131 | 3.0 |
| | 9/17/2013 | 50.53 | 20.54 | N | 29.99 | 4,200 | 55 | 7.9 | 180 | 229 | 5.2 |
| | 12/6/2013 | 50.53 | 20.86 | N | 29.67 | 3,600 | 35 | 2.1 | 160 | 241 | 2.5 |
| | 3/13/2014 | 50.53 | 19.91 | N | 30.62 | 2,100 | 23 | <1.0 | 130 | 73 | 1.4 |
| | 6/6/2014 | 50.53 | 20.27 | N | 30.26 | 1,700 | 8.2 | 0.56 | 63 | 40.2 | 0.75 |
| | 9/23/2014 | 50.53 | 21.61 | N | 28.92 | 1,700 | 38 | 0.52 | 45 | 29.8 | 1.60 |
| | 12/23/2014 | 50.53 | 17.12 | N | 33.41 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/20/2015 | 50.53 | 18.91 | N | 31.62 | 130 | <0.5 | <0.5 | 4.5 | 3.4 | <0.5 |
| | 6/4/2015 | 50.53 | 19.49 | N | 31.04 | 340 | 0.7 | <0.5 | 4 | 3.7 | <0.5 |
| | 9/11/2015 | 50.53 | 20.29 | N | 30.24 | 1,300 | 3.1 | <0.5 | 13 | 13 | <0.5 |
| | 12/29/2015 | 50.53 | 19.89 | N | 30.64 | 260 | 1.5 | <0.5 | 1.1 | 0.89 | <0.5 |
| | 3/23/2016 | 50.53 | 17.07 | N | 33.46 | 300 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **6/16/2016** | **50.53** | **17.10** | **N** | **33.43** | **520** | **0.68** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| | | | | | | | | | | | |
| **MW-6** | 9/21/2004 | 45.82 | 17.64 | - | 28.18 | 34,000 | 150 | 130 | 2200 | 8100 | 0.6 |
| | 12/14/2004 | 45.82 | 15.75 | - | 30.07 | 5,161 | 137 | 7 | 436 | 1136 | <5.5 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-6** cont. | 3/11/2005 | 45.82 | 13.80 | - | 32.02 | 6,040 | 125 | 3.22 | 260 | 722.1 | 4.94 |
| | 6/15/2005 | 45.82 | 14.78 | - | 31.04 | 5,590 | 44.3 | 6.60 | 272 | 382 | 5.85 |
| | 8/26/2005 | 45.82 | 15.91 | - | 29.91 | 6,130 | 99 | <8.6 | 378 | 492.9 | 5.66 |
| | 11/11/2005 | 45.82 | 16.55 | - | 29.27 | 11,400 | 101 | <8.6 | 645 | 834.7 | 4.33 |
| | 2/9/2006 | 45.82 | 13.92 | - | 31.90 | 2,790 | 32.3 | <8.6 | 131 | 131.22 | 7.30 |
| | 5/9/2006 | 45.82 | 13.95 | - | 31.87 | 3,730 | 25 | <2.0 | 213 | 207.82 | 5.87 |
| | 8/10/2006 | 45.82 | 15.28 | - | 30.54 | 4,800 | 41.9 | <2.0 | 201 | 189 | 10.4 |
| | 10/26/2006 | 45.82 | 16.11 | - | 29.71 | 6,080 | 37.4 | <2.0 | 116 | 183 | 9.78 |
| | 1/25/2007 | 45.82 | 15.76 | - | 30.06 | 3,220 | 25.2 | <2.0 | 219 | 174 | 14.7 |
| | 4/26/2007 | 45.82 | 15.18 | - | 30.64 | 3,110 | 28 | <2.0 | 165 | 138.47 | 14.6 |
| | 7/25/2007 | 45.82 | 16.82 | - | 29.00 | 4,960 | 54.1 | <2.0 | 199 | 255.87 | 8.05 |
| | 10/23/2007 | 45.82 | 16.91 | - | 28.91 | 9,610 | 64.3 | <2.0 | 188 | 302.6 | 5.81 |
| | 1/21/2008 | 45.82 | 15.36 | - | 30.46 | 3,290 | 33 | <2.0 | 149 | 131.31 | 3.86 |
| | 4/15/2008 | 45.82 | 15.73 | - | 30.09 | 2,070 | 10.8 | <2.0 | 51.1 | 67 | <0.5 |
| | 7/2/2008 | 45.82 | 16.9 | - | 28.92 | 7,900 | 42.4 | <2.0 | 194 | 296 | 3.58 |
| | 10/15/2008 | 45.82 | 17.21 | - | 28.61 | 18,000 [Y] | 42 | 1.4 | 320 | 673 | 1.7 |
| | 1/7/2009 | 45.82 | 17.08 | - | 28.74 | 13,000 | 47 | <3.1 | 210 | 425 | <3.1 |
| | 4/13/2009 | 45.82 | 15.52 | - | 30.30 | 7,200 [Y] | 26 | <1.3 | 170 | 312.6 | 2.6 |
| | 8/26/2009 | 45.82 | 17.82 | - | 28.00 | 10,000 [Y] | 25 | <2.0 | 130 | 294 | 2.2 |
| | 12/1/2009 | 45.82 | 17.34 | - | 28.48 | 11,000 [Y] | 31 | 6.1 | 220 | 539 | <2.0 |
| | 3/16/2010 | 45.82 | 14.81 | - | 31.01 | 31,000 | 63 | 140 | 970 | 4,200 | 64 |
| | 6/3/2010 | 45.82 | 15.72 | - | 30.10 | 27,000 | 22 | 67 | 840 | 3,100 | 32 |
| | 9/1/2010 | 45.82 | 16.86 | - | 28.96 | 33,000 | 24 | 34 | 1,100 | 3,780 | 12 |
| | 12/2/2010 | 45.82 | 16.98 | - | 28.84 | 70,000 | 32 | 55 | 1,700 | 5,670 | 18 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-6** cont. | 3/3/2011 | 45.82 | 14.35 | Y | 31.47 | 7,000 | 18 | <2.5 | 97 | 237 | 11 |
| | 5/20/2011 | 45.82 | 14.95 | Y | 30.87 | 14,000 | 14 | <2.5 | 300 | 823 | 7.2 |
| | 9/8/2011 | 45.82 | 16.14 | Y | 29.68 | 23,000 | 28 | <2.5 | 360 | 812 | 3.4 |
| | 12/1/2011 | 45.82 | 16.17 | 16.15 | 29.66 | FP | FP | FP | FP | FP | FP |
| | 3/2/2012 | 45.82 | 16.11 | Y | 29.71 | 14,000 | 23 | <4.2 | 400 | 694.4 | <4.2 |
| | 6/6/2012 | 45.82 | 16.31 | Y | 29.51 | 9,200 | 12 | <1.7 | 210 | 320 | <1.7 |
| | 9/20/2012* | 45.82 | 17.36 | 17.32 | 28.49 | FP | FP | FP | FP | FP | FP |
| | 12/13/2012 | 45.82 | 15.46 | Y | 30.36 | 13,000 | 22 | <0.71 | 83 | 62.8 | 5.1 |
| | 3/27/2013 | 45.82 | 16.3 | Y | 29.52 | 7,400 | 27 | <1.3 | 190 | 221.8 | <1.3 |
| | 6/10/2013 | 45.82 | 17.37 | Y | 28.45 | 12,000 | 20 | <2.5 | 280 | 230 | <2.5 |
| | 9/16/2013 | 45.82 | 18.11 | 18.06 | 27.74 | FP | FP | FP | FP | FP | FP |
| | 12/5/2013 | 45.82 | 18.75 | Y | 27.07 | 18,000 | 220 | 330 | 460 | 2,030 | 6.1 |
| | 3/12/2014 | 45.82 | 17 | Y | 28.82 | 8,900 | 42 | 5.4 | 290 | 760 | <2.5 |
| | 6/5/2014 | 45.82 | 18.15 | Y | 27.67 | 9,600 | 29 | <2.5 | 370 | 295 | <2.5 |
| | 9/22/2014 | 45.82 | 19.33 | Y | 26.49 | 31,000 | 140 | 140 | 1,600 | 3,590 | 4.3 |
| | 12/22/2014 | 45.82 | 13.43 | Y | 32.39 | 2,700 | 20 | <0.5 | 70 | 55.4 | 0.63 |
| | 3/19/2015 | 45.82 | 16.1 | N | 29.72 | 2,900 | 8.2 | <0.5 | 48 | 3.6 | <0.5 |
| | 6/3/2015 | 45.82 | 17.21 | N | 28.61 | 4,600 | 13 | <0.5 | 53 | 3.4 | <0.5 |
| | 9/10/2015 | 45.82 | 18.25 | N | 27.57 | 4,200 | 8.8 | <5.0 | 27 | <5.0 | <5.0 |
| | 12/28/2015 | 45.82 | 16.64 | N | 29.18 | 4,600 | 27 | <1.0 | 160 | 24 | <1.0 |
| | 3/24/2016 | 45.82 | 14.35 | N | 31.47 | 700 | 3.4 | <0.5 | 4.4 | 2.64 | <0.5 |
| | **6/16/2016** | **45.82** | **14.38** | **N** | **31.44** | **2,900** | **9.7** | **<0.5** | **18** | **17** | **<0.5** |
| | | | | | | | | | | | |
| **MW-7** | 9/21/2004 | 44.74 | 15.21 | - | 29.53 | 2,900 | <0.5 | <0.5 | 52 | 61 | 8.1 |
| | 12/14/2004 | 44.74 | 13.90 | - | 30.84 | <50 | 1.6 | <0.5 | 29 | 58 | 6.0 |
| | 3/11/2005 | 44.74 | 11.46 | - | 33.28 | 2,230 | <2.5 | <2.5 | 39.4 | 51.4 | 12.4 |
| | 6/15/2005 | 44.74 | 12.97 | - | 31.77 | 2,940 | 0.85 | <2.0 | 50.6 | 31.9 | 13.7 |
| | 8/26/2005 | 44.74 | 14.10 | - | 30.64 | 2,310 | <0.50 | <2.0 | 55.7 | 29.6 | 4.01 |
| | 11/11/2005 | 44.74 | 14.59 | - | 30.15 | 3,030 | <0.5 | <2.0 | 66.5 | 42.3 | 9.76 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-7** cont. | 2/9/2006 | 44.74 | NM | - | NM | NA | NA | NA | NA | NA | NA |
| | 5/9/2006 | 44.74 | 12.02 | - | 32.72 | 1,400 | <0.5 | <2.0 | 19.8 | 12.4 | 2.30 |
| | 8/10/2006 | 44.74 | 13.72 | - | 31.02 | 604 | <0.50 | <2.0 | 6.2 | 4.63 | 1.42 |
| | 10/26/2006 | 44.74 | 14.38 | - | 30.36 | 1350 | <0.50 | <2.0 | 16.6 | 10.8 | 1.87 |
| | 1/25/2007 | 44.74 | 13.93 | - | 30.81 | 340 | <0.5 | <2.0 | 6.84 | 2.44 | 1.63 |
| | 4/26/2007 | 44.74 | 14.44 | - | 30.30 | 552 | <0.5 | <2.0 | 11.4 | 6.11 | 4.12 |
| | 7/25/2007 | 44.74 | 14.79 | - | 29.95 | 1,230 | <0.5 | <2.0 | 27 | 19.24 | 3.2 |
| | 10/23/2007 | 44.74 | 14.88 | - | 29.86 | 1,730 | 0.67 | <2.0 | 20.7 | 17.31 | 8.44 |
| | 1/21/2008 | 44.74 | 13.34 | - | 31.40 | 610 | 1.15 | <2.0 | 8.4 | 4.34 | 17.2 |
| | 4/15/2008 | 44.74 | 13.91 | - | 30.83 | 1,460 | <0.5 | <2.0 | 15.9 | 19.7 | 17.3 |
| | 7/2/2008 | 44.74 | 14.87 | - | 29.87 | 1,450 | <0.5 | <2.0 | 11 | 6.8 | 22.1 |
| | 10/15/2008 | 44.74 | 15.68 | - | 29.06 | 1,900 [Y] | 0.56 | 1.2 | 27 | 39.5 | 55 |
| | 1/7/2009 | 44.74 | 14.72 | - | 30.02 | 2,700 | 1.2 | 2.9 | 11 | 25 | 39 |
| | 4/13/2009 | 44.74 | 13.54 | - | 31.20 | 2,300 [Y] | <0.5 | <0.5 | 15 | 6.3 | 63 |
| | 8/26/2009 | 44.74 | 15.84 | - | 28.90 | 2,700 [Y] | <0.5 | <0.5 | 48 | 53 | 140 |
| | 12/1/2009 | 44.74 | 15.03 | - | 29.71 | 1,800 [Y] | <0.5 | <0.5 | 22 | 15 | 120 |
| | 3/16/2010 | 44.74 | 12.56 | - | 32.18 | 1,100 | <0.5 | <0.5 | 3.2 | 1.4 | 65 |
| | 6/3/2010 | 44.74 | 13.80 | - | 30.94 | 740 | <0.5 | <0.5 | 1.8 | 0.62 | 28 |
| | 9/1/2010 | 44.74 | 14.84 | - | 29.90 | 1,200 | <0.5 | <0.5 | 10 | 3.2 | 29 |
| | 12/2/2010 | 44.74 | 14.74 | - | 30.00 | 1,400 | <0.5 | <0.5 | 8 | 0.74 | 21 |
| | 3/3/2011 | 44.74 | 13.31 | N | 31.43 | 1,000 | <0.5 | <0.5 | 1.8 | <0.5 | 16 |
| | 5/19/2011 | 44.74 | 13.43 | N | 31.31 | 810 | <0.5 | <0.5 | 2.2 | 0.79 | 7.8 |
| | 9/8/2011 | 44.74 | 14.38 | N | 30.36 | 1,000 | <0.5 | <0.5 | 8.3 | 2.9 | 5.4 |
| | 12/1/2011 | 44.74 | 13.57 | N | 31.17 | 1,500 [X] | <0.33 | <0.19 | 12 | 5.7 | 13 |
| | 3/2/2012 | 44.74 | 14.16 | N | 30.58 | 1,000 | <0.5 | <0.5 | 4 | 1.1 | 5.1 |
| | 6/6/2012 | 44.74 | 14.00 | N | 30.74 | 780 | <0.5 | <0.5 | 2.9 | 1.0 | 2.6 |
| | 9/20/2012 | 44.74 | 15.26 | N | 29.48 | 1,200 | <0.5 | <0.5 | 4.3 | 0.92 | 2.7 |
| | 12/13/2012 | 44.74 | 13.34 | N | 31.40 | 1,100 | <0.5 | <0.5 | 0.99 | <0.5 | 3.4 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-7** cont. | 3/27/2013 | 44.74 | 14.30 | N | 30.44 | 680 | <0.5 | <0.5 | 1.8 | <0.5 | 4.2 |
| | 6/10/2013 | 44.74 | 15.06 | N | 29.68 | 890 | <0.5 | <0.5 | 2.6 | <0.5 | 2.3 |
| | 9/16/2013 | 44.74 | 15.78 | N | 28.96 | 1,400 | <0.5 | <0.5 | 7.9 | 2.7 | 4.1 |
| | 12/5/2013 | 44.74 | 16.21 | N | 28.53 | 1,800 | <0.5 | <0.5 | 8 | 3.1 | 5.7 |
| | 3/12/2014 | 44.74 | 14.56 | N | 30.18 | 920 | <0.5 | <0.5 | 3.7 | 1.5 | 4.6 |
| | 6/5/2014 | 44.74 | 15.18 | N | 29.56 | 1,600 | <0.5 | <0.5 | 11 | 3.0 | 5.7 |
| | 9/22/2014 | 44.74 | 16.63 | N | 28.11 | 1,900 | <0.5 | <0.5 | 9.6 | 3.5 | 5.3 |
| | 12/22/2014 | 44.74 | 11.37 | N | 33.37 | 320 | <0.5 | <0.5 | 2.2 | 2.3 | 1.7 |
| | 3/19/2015 | 44.74 | 13.82 | N | 30.92 | 1,400 | <0.5 | <0.5 | 4.6 | 2.0 | 4.7 |
| | 6/3/2015 | 44.74 | 14.53 | N | 30.21 | 2,000 | <0.5 | <0.5 | 12 | 5.4 | 4.4 |
| | 9/10/2015 | 44.74 | 15.62 | N | 29.12 | 2,200 | <1.7 | <1.7 | 9.9 | 1.7 | 4.0 |
| | 12/28/2015 | 44.74 | 14.75 | N | 29.99 | 2,500 | <0.5 | <0.5 | 5.2 | 4.0 | 3.1 |
| | 3/24/2016 | 44.74 | 11.46 | N | 33.28 | 1,800 | <0.5 | <0.5 | 1.7 | <0.5 | 3.1 |
| | **6/16/2016** | **44.74** | **11.49** | **N** | **33.25** | **2,400** | **<0.5** | **<0.5** | **2.3** | **<0.5** | **1.4** |
| | | | | | | | | | | | |
| **MW-8** | 9/21/2004 | 41.14 | 12.98 | - | 28.16 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/14/2004 | 41.14 | 11.22 | - | 29.92 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 |
| | 3/11/2005 | 41.14 | NM | - | NM | NA | NA | NA | NA | NA | NA |
| | 6/15/2005 | 41.14 | 10.46 | - | 30.68 | <200 | 0.53 | <2.0 | <0.5 | <1.0 | <0.5 |
| | 8/26/2005 | 41.14 | 11.53 | - | 29.61 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 11/11/2005 | 41.14 | 11.92 | - | 29.22 | <50 | <0.5 | <2.0 | 1.36 | 1.8 | <0.5 |
| | 2/9/2006 | 41.14 | 9.74 | - | 31.40 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 5/9/2006 | 41.14 | 9.90 | - | 31.24 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 8/10/2006 | 41.14 | 10.9 | - | 30.24 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 10/26/2006 | 41.14 | 11.68 | - | 29.46 | <50 | <0.50 | <2.0 | 3.37 | <1.0 | <0.50 |
| | 1/25/2007 | 41.14 | 11.44 | - | 29.70 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 4/26/2007 | 41.14 | 10.81 | - | 30.33 | <50 | <0.5 | <2.0 | 4.29 | <2.0 | <0.5 |
| | 7/25/2007 | 41.14 | 12.31 | - | 28.83 | <50 | <0.5 | <2.0 | 4.39 | <2.0 | <0.5 |
| | 10/23/2007 | 41.14 | 12.37 | - | 28.77 | <50 | <0.5 | <2.0 | 4.31 | <2.0 | <0.5 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-8** cont. | 1/21/2008 | 41.14 | 11.02 | - | 30.12 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 4/15/2008 | 41.14 | 11.44 | - | 29.70 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 7/2/2008 | 41.14 | 12.39 | - | 28.75 | 94.8 | <0.5 | <2.0 | 1 | <2.0 | <0.5 |
| | 10/15/2008 | 41.14 | 13.42 | - | 27.72 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 1/7/2009 | 41.14 | 12.50 | - | 28.64 | <50 | <0.5 | <0.5 | <0.5 | 0.6 | <0.5 |
| | 4/13/2009 | 41.14 | 11.23 | - | 29.91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 8/27/2009 | 41.14 | 13.24 | - | 27.90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **Well Decommissioned 11/13/2009** | | | | | | | | | | |
| | | | | | | | | | | | |
| **MW-9** | 9/21/2004 | 40.26 | 12.18 | - | 28.08 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/14/2004 | 40.26 | 10.91 | - | 29.35 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 |
| | 3/11/2005 | 40.26 | 10.52 | - | 29.74 | <200 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 |
| | 6/15/2005 | 40.26 | 14.73 | - | 25.53 | <200 | <0.5 | <2.0 | <0.5 | <1.0 | <0.5 |
| | 8/26/2005 | 40.26 | 10.59 | - | 29.67 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 11/11/2005 | 40.26 | 11.25 | - | 29.01 | <50 | <0.5 | <2.0 | <0.5 | <1.0 | <0.5 |
| | 2/9/2006 | 40.26 | 10.05 | - | 30.21 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 5/9/2006 | 40.26 | 9.06 | - | 31.20 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 8/10/2006 | 40.26 | 10.01 | - | 30.25 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 10/26/2006 | 40.26 | 10.81 | - | 29.45 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 1/25/2007 | 40.26 | 10.67 | - | 29.59 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 4/26/2007 | 40.26 | 10.05 | - | 30.21 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 7/25/2007 | 40.26 | 11.44 | - | 28.82 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 10/23/2007 | 40.26 | 11.59 | - | 28.67 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 1/21/2008 | 40.26 | 10.37 | - | 29.89 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 4/15/2008 | 40.26 | 10.56 | - | 29.70 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 7/2/2008 | 40.26 | 11.95 | - | 28.31 | 161 | <0.5 | <2.0 | 2.15 | <2.0 | <0.5 |
| | 10/15/2008 | 40.26 | 12.64 | - | 27.62 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-9** cont. | 1/7/2009 | 40.26 | 11.75 | - | 28.51 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 4/13/2009 | 40.26 | 10.89 | - | 29.37 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 8/26/2009 | 40.26 | 12.50 | - | 27.76 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **Well Decommissioned 11/13/2009** | | | | | | | | | | |
| **MW-10** | 9/22/2014 | 44.66 | 17.84 | N | 26.82 | 23,000 | <10 | <10 | 1200 | 2,610 | <10 |
| | 12/22/2014 | 44.66 | 12.33 | N | 32.33 | 6,000 | <2.5 | <2.5 | 390 | 802 | <2.5 |
| | 3/19/2015 | 44.66 | 15.01 | N | 29.65 | 3,500 | <1.0 | <1.0 | 130 | 279 | <1.0 |
| | 6/3/2015 | 44.66 | 15.81 | N | 28.85 | 24,000 | <5.0 | <5.0 | 870 | 1,358 | <5.0 |
| | 9/10/2015 | 44.66 | 17.03 | N | 27.63 | 28,000 | <10 | <10 | 1,200 | 2,173 | <10 |
| | 12/28/2015 | 44.66 | 15.18 | N | 29.48 | 22,000 | <10 | <10 | 930 | 1,737 | <10 |
| | 3/24/2016 | 44.66 | 13.1 | N | 31.56 | 22,000 | <5 | <5 | 620 | 1,038 | <5 |
| **MW-10R** | **6/15/2016** | **45.13** | **13.6** | **N** | **31.53** | **28,000** | **<10** | **<10** | **720** | **1,454** | **<10** |
| **MW-11** | 9/22/2014 | 42.45 | 15.52 | N | 26.93 | 2,100 | <0.5 | <0.5 | 2.7 | 4.5 | <0.5 |
| | 12/22/2014 | 42.45 | 10.08 | N | 32.37 | 310 | <0.5 | <0.5 | 1.8 | 2.7 | <0.5 |
| | 3/19/2015 | 42.45 | 12.77 | N | 29.68 | 870 | <0.5 | <0.5 | 1.4 | 2.2 | <0.5 |
| | 6/3/2015 | 42.45 | 13.5 | N | 28.95 | 330 | <0.5 | <0.5 | 2.0 | 3.1 | <0.5 |
| | 9/10/2015 | 42.45 | 14.79 | N | 27.66 | 78 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/28/2015 | 42.45 | 13.07 | N | 29.38 | 170 | <0.5 | <0.5 | 3.0 | 4.2 | <0.5 |
| | 3/23/2016 | 42.45 | 10.48 | N | 31.97 | 110 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **6/16/2016** | **42.45** | **10.51** | **N** | **31.94** | **100** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| **Extraction Wells** | | | | | | | | | | | |
| **EX-1** | 12/2/2009 | 47.36 | 17.02 | - | 30.34 | 2,900 | 120 | 4 | 64 | 410 | 25 |
| | 3/16/2010 | 47.36 | 19.08 | - | 28.28 | 2,200 | 150 | 18 | 94 | 326 | 210 |
| | 6/3/2010 | 47.36 | 17.02 | - | 30.34 | 3,600 | 180 | 6.3 | 150 | 428 | 83 |
| | 9/1/2010 | 47.36 | 16.88 | - | 30.48 | 550 | 6.5 | 0.5 | 6.9 | 31.7 | 38 |
| | 12/2/2010 | 47.36 | 19.84 | - | 27.52 | <200 | 3.1 | <2.0 | <2.0 | <2.0 | 210 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **EX-1** cont. | 3/3/2011 | 47.36 | 14.96 | N | 32.4 | 530 | 51 | 0.94 | 15 | 31.3 | 110 |
| | 5/19/2011 | 47.36 | 16.12 | N | 31.24 | 370 | 42 | <0.71 | 7.6 | 17.2 | 110 |
| | 9/8/2011 | 47.36 | 16.47 | N | 30.89 | 110 | 5 | <0.5 | 2.2 | 6.4 | 12 |
| | 12/1/2011 | 47.36 | 16.1 | N | 31.26 | 780 [x] | 91 | 3 | 29 | 85 | 150 |
| | 3/2/2012 | 47.36 | 16.35 | N | 31.01 | 140 | 6 | <0.5 | 3.5 | 8 | 14 |
| | 6/6/2012 | 47.36 | 24.76 | N | 22.6 | 250 | 22 | <0.5 | 4.7 | 20 | 71 |
| | 9/20/2012 | 47.36 | 17.26 | N | 30.1 | 95 | 24 | <0.5 | <0.5 | 2.61 | 36 |
| | 12/13/2012 | 47.36 | 16.55 | N | 30.81 | 1,000 | 73 | 2.3 | 47 | 110 | 48 |
| | 3/27/2013 | 47.36 | 16.15 | N | 31.21 | 69 | 4.1 | <0.5 | 3.3 | 10 | 1.8 |
| | 6/10/2013 | 47.36 | 24.25 | N | 23.11 | 340 | 37 | <0.5 | 5.9 | 15.1 | 62 |
| | 9/16/2013 | 47.36 | 22.54 | N | 24.82 | 97 | 14 | <0.5 | <0.5 | <0.5 | 65 |
| | 12/5/2013 | 47.36 | 22.53 | N | 24.83 | 390 | 42 | 2.5 | 9.8 | 32.6 | 76 |
| | 3/12/2014 | 47.36 | 21.15 | N | 26.21 | 250 | 12 | <0.5 | 4.7 | 17.2 | 40 |
| | 6/5/2014 | 47.36 | 21.31 | N | 26.05 | 1,700 | 70 | 11 | 92 | 208 | 40 |
| | 9/22/2014 | 47.36 | 21.15 | N | 26.21 | 1,500 | 23 | 1.3 | 73 | 161 | 51 |
| | 12/22/2014 | 47.36 | 19.74 | N | 27.62 | 530 | 8.6 | <0.5 | 3.2 | 29.3 | 11 |
| | 3/19/2015 | 47.36 | 15.59 | N | 31.77 | <50 | 1.2 | <0.5 | <0.5 | 1.0 | <0.5 |
| | 6/3/2015 | 47.36 | 22.89 | N | 24.47 | 770 | 31 | <0.5 | 8.2 | 17.1 | 22 |
| | 9/10/2015 | 47.36 | 22.57 | N | 24.79 | <50 | 0.66 | <0.5 | <0.5 | 1.53 | <0.5 |
| | 12/28/2015 | 47.36 | 22.7 | N | 24.66 | 400 | 27 | <0.5 | 4.6 | 10.9 | 21 |
| | 3/24/2016 | 47.36 | 13.45 | N | 33.91 | 57 | 3.9 | <0.5 | <0.5 | <0.5 | 3.5 |
| | **6/15/2016** | **47.36** | **13.83** | **N** | **33.53** | **140** | **9.1** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| | | | | | | | | | | | |
| **EX-2** | 12/2/2009 | 45.96 | 17.56 | - | 28.4 | 7,100 [Y] | 9.3 | 3.2 | 440 | 770 | <3.1 |
| | 3/16/2010 | 45.96 | 19.65 | - | 26.31 | 13,000 | 600 | 360 | 770 | 2,250 | 15 |
| | 6/3/2010 | 45.96 | 17.10 | - | 28.86 | 16,000 | 590 | 400 | 700 | 2,500 | 9.5 |
| | 9/1/2010 | 45.96 | 16.99 | - | 28.97 | 6,100 | 230 | 74 | 200 | 890 | 11 |
| | 12/2/2010 | 45.96 | 20.87 | - | 25.09 | 14,000 | 510 | 270 | 640 | 2,170 | 15 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **EX-2** cont. | 3/3/2011 | 45.96 | 14.61 | N | 31.35 | 8,600 | 340 | 52 | 460 | 1,350 | 13 |
| | 5/19/2011 | 45.96 | 15.08 | N | 30.88 | 7,500 | 260 | 65 | 390 | 1,080 | 11 |
| | 9/8/2011 | 45.96 | 16.34 | N | 29.62 | 3,400 | 190 | 28 | 160 | 451 | 5.4 |
| | 12/1/2011 | 45.96 | 22.60 | N | 23.36 | 9,900 [x] | 630 | 200 | 690 | 1,760 | <3.3 |
| | 3/2/2012 | 45.96 | 16.48 | N | 29.48 | 5,000 | 220 | 25 | 200 | 600 | 7.1 |
| | 6/6/2012 | 45.96 | 18.90 | N | 27.06 | 6,900 | 290 | 97 | 310 | 790 | 5.2 |
| | 9/20/2012 | 45.96 | 17.49 | N | 28.47 | 1,800 | 170 | 14 | 62 | 204 | 5.0 |
| | 12/13/2012 | 45.96 | 15.96 | N | 30 | 7,300 | 490 | 180 | 610 | 1,290 | 5.2 |
| | 3/27/2013 | 45.96 | 16.59 | N | 29.37 | 2,200 | 130 | 9.6 | 100 | 288 | 4.3 |
| | 6/10/2013 | 45.96 | 23.11 | N | 22.85 | 2,600 | 190 | 20 | 100 | 248 | 6.8 |
| | 9/20/2013 | 45.96 | 23.11 | N | 22.85 | 3,900 | 210 | 37 | 170 | 450 | 6.3 |
| | 12/5/2013 | 45.96 | 23.28 | N | 22.68 | 3,700 | 160 | 46 | 110 | 394 | 7.2 |
| | 3/12/2014 | 45.96 | 22.04 | N | 23.92 | 3,700 | 100 | 9.8 | 220 | 498 | 5.7 |
| | 6/5/2014 | 45.96 | 23.41 | N | 22.55 | 4,400 | 120 | 37 | 280 | 590 | 5.4 |
| | 9/22/2014 | 45.96 | 23.20 | N | 22.76 | 2,200 | 63 | 8.8 | 88 | 240 | 7.1 |
| | 12/22/2014 | 45.96 | 20.22 | N | 25.74 | 1,600 | 42 | 4.2 | 94 | 148 | 6.0 |
| | 3/19/2015 | 45.96 | 16.46 | N | 29.50 | 890 | 42 | <0.5 | 54 | 10.5 | <0.5 |
| | 6/3/2015 | 45.96 | 21.06 | N | 24.90 | 4,700 | 100 | 8.7 | 120 | 311 | 1.9 |
| | 9/10/2015 | 45.96 | 21.15 | N | 24.81 | 670 | 8.1 | <1.0 | 13 | 27.4 | <1.0 |
| | 12/28/2015 | 45.96 | 20.75 | N | 25.21 | 3,500 | 46 | 6 | 120 | 266 | 4.5 |
| | 3/24/2016 | 45.96 | 13.97 | N | 31.99 | 1,500 | 22 | 0.86 | 42 | 75 | 1.7 |
| | **6/15/2016** | **45.96** | **14.00** | **-** | **31.96** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** |
| **MPE Wells** | | | | | | | | | | | |
| **MPE-1** | 12/1/2009 | 51.96 | 21.41 | - | 30.55 | NA | NA | NA | NA | NA | NA |
| | 3/16/2010 | 51.96 | 20.22 | - | 31.74 | NA | NA | NA | NA | NA | NA |
| | 6/3/2010 | 51.96 | 21.18 | - | 30.78 | NA | NA | NA | NA | NA | NA |
| | 9/1/2010 | 51.96 | 21.25 | - | 30.71 | NA | NA | NA | NA | NA | NA |
| | 12/2/2010 | 51.96 | 21.64 | - | 30.32 | NA | NA | NA | NA | NA | NA |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPE-1** cont. | 3/3/2011 | 51.96 | 19.33 | - | 32.63 | NA | NA | NA | NA | NA | NA |
| | 5/19/2011 | 51.96 | 20.6 | - | 31.36 | NA | NA | NA | NA | NA | NA |
| Pre-MPE | 8/4/2011 | 51.96 | NM | - | NC | 49,000 | 210 | 100 | 840 | 7,070 | 45 |
| | 9/8/2011 | 51.96 | 20.83 | - | 31.13 | NA | NA | NA | NA | NA | NA |
| Post-MPE | 9/26/2011 | 51.96 | 20.94 | Y | 31.02 | 62,000 | 6,300 | 3,700 | 1,800 | 9,400 | 1,200 |
| | 12/2/2011 | 51.96 | 20.14 | Y | 31.82 | 56,000 | 9,000 | 7,700 | 2,200 | 10,800 | 2,600 |
| | 3/2/2012 | 51.96 | 20.73 | Y | 31.23 | 97,000 | 11,000 | 11,000 | 2,600 | 12,600 | 2,700 |
| | 6/6/2012 | 51.96 | 20.96 | Y | 31.00 | 78,000 | 4,500 | 4,900 | 2,300 | 10,700 | 750 |
| | 9/20/2012 | 51.96 | 21.58 | Y | 30.38 | 89,000 | 8,600 | 9,200 | 3,400 | 14,800 | 1,900 |
| | 12/14/2012 | 51.96 | 20.57 | Y | 31.39 | 98,000 | 7,400 | 9,600 | 2,900 | 13,300 | 1,300 |
| | 3/27/2013 | 51.96 | 20.91 | Y | 31.05 | 61,000 | 6,600 | 4,500 | 2,200 | 9,400 | 1,500 |
| | 6/10/2013 | 51.96 | 21.47 | Y | 30.49 | 42,000 | 1,900 | 980 | 630 | 4,400 | 670 |
| | 9/17/2013 | 51.96 | 21.98 | Y | 29.98 | 45,000 | 2,400 | 1,400 | 1,200 | 8,000 | 150 |
| | 12/6/2013 | 51.96 | 22.41 | Y | 29.55 | 27,000 | 1,600 | 220 | 990 | 5,000 | 110 |
| | 3/13/2014 | 51.96 | 21.33 | Y | 30.63 | 67,000 | 1,800 | 3,500 | 1,800 | 10,100 | 170 |
| | 6/5/2014 | 51.96 | 21.89 | 21.8 | 30.13 | FP | FP | FP | FP | FP | FP |
| | 9/23/2014 | 51.96 | 23.12 | Y | 28.84 | 12,000 | 380 | 31 | 100 | 1,630 | 39 |
| | 12/23/2014 | 51.96 | 18.3 | Y | 33.66 | 3,100 | 23 | 24 | 23 | 220 | <1.0 |
| | 3/20/2015 | 51.96 | 20.14 | Y | 31.82 | 9,700 | 58 | 43 | 77 | 1,000 | <2.5 |
| | 6/4/2015 | 51.96 | 21.00 | Y | 30.96 | 14,000 | 110 | 49 | 66 | 620 | 10 |
| | 9/11/2015 | 51.96 | 21.77 | Y | 30.19 | 9,600 | 590 | 150 | 83 | 590 | 50 |
| | 12/29/2015 | 51.96 | 21.13 | Y | 30.83 | 3,100 | 24 | 11 | 8.2 | 237 | 0.88 |
| | 3/24/2016 | 51.96 | 18.22 | N | 33.74 | 98 | <0.5 | <0.5 | <0.5 | 0.79 | <0.5 |
| | **6/16/2016** | **51.96** | **18.45** | **Y** | **33.51** | **310** | **8.6** | **<0.5** | **1.2** | **16.10** | **0.68** |
| | | | | | | | | | | | |
| **MPE-2** | 12/1/2009 | 53.72 | 22.87 | - | 30.85 | NA | NA | NA | NA | NA | NA |
| | 3/16/2010 | 53.72 | 21.7 | - | 32.02 | NA | NA | NA | NA | NA | NA |
| | 6/3/2010 | 53.72 | 22.35 | - | 31.37 | NA | NA | NA | NA | NA | NA |
| | 9/1/2010 | 53.72 | 23.7 | - | 30.02 | NA | NA | NA | NA | NA | NA |
| | 12/2/2010 | 53.72 | 22.7 | - | 31.02 | NA | NA | NA | NA | NA | NA |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPE-2** cont. | 3/3/2011 | 53.72 | 21.25 | - | 32.47 | NA | NA | NA | NA | NA | NA |
| | 5/19/2011 | 53.72 | 22.19 | - | 31.53 | NA | NA | NA | NA | NA | NA |
| Pre-MPE | 8/4/2011 | 53.72 | NM | - | NC | 46,000 | 2,100 | 80 | 1,900 | 5,300 | 75 |
| | 9/8/2011 | 53.72 | 22.31 | - | 31.41 | NA | NA | NA | NA | NA | NA |
| Post-MPE | 9/26/2011 | 53.72 | 22.38 | N | 31.34 | 37,000 | 1,800 | 33 | 1,700 | 2,760 | <17 |
| | 12/2/2011 | 53.72 | 21.44 | N | 32.28 | 26,000 | 1,600 | 43 | 1,800 | 3,370 | <17 |
| | 3/2/2012 | 53.72 | 22.24 | N | 31.48 | 36,000 | 1,100 | 19 | 1,700 | 2,970 | <17 |
| | 6/7/2012 | 53.72 | 22.35 | N | 31.37 | 33,000 | 1,800 | 27 | 1,600 | 2,700 | 29 |
| | 9/21/2012 | 53.72 | 23.03 | N | 30.69 | 31,000 | 1,700 | 13 | 1,900 | 2,747 | 14 |
| | 12/14/2012 | 53.72 | 22.17 | N | 31.55 | 31,000 | 1,700 | 20 | 1,800 | 2,490 | 16 |
| | 3/28/2013 | 53.72 | 22.53 | N | 31.19 | 20,000 | 2,200 | <20 | 1,300 | 960 | <20 |
| | 6/11/2013 | 53.72 | 22.9 | N | 30.82 | 26,000 | 920 | <13 | 1,500 | 1,352 | <13 |
| | 9/17/2013 | 53.72 | 23.29 | N | 30.43 | 23,000 | 680 | 15 | 1,400 | 1,059 | <13 |
| | 12/5/2013 | 53.72 | 23.73 | 23.61 | 30.07 | FP | FP | FP | FP | FP | FP |
| | 3/12/2014 | 53.72 | 22.89 | 22.85 | 30.86 | FP | FP | FP | FP | FP | FP |
| | 6/5/2014 | 53.72 | 22.96 | 22.94 | 30.77 | FP | FP | FP | FP | FP | FP |
| | 9/23/2014 | 53.72 | 24.05 | Y | 29.67 | 22,000 | 550 | 340 | 760 | 2,760 | <6.3 |
| | 12/23/2014 | 53.72 | 20.65 | N | 33.07 | 12,000 | 430 | 77 | 420 | 1,670 | 4.6 |
| | 3/20/2015 | 53.72 | 22.16 | Y | 31.56 | 14,000 | 670 | 21 | 630 | 1,150 | 6.9 |
| | 6/4/2015 | 53.72 | 22.6 | Y | 31.12 | 27,000 | 730 | 6.5 | 930 | 1,343 | 6.9 |
| | 9/11/2015 | 53.72 | 23.15 | Y | 30.57 | 21,000 | 1,000 | <7.1 | 1,200 | 760 | 9.3 |
| | 12/29/2015 | 53.72 | 22.86 | Y | 30.86 | 16,000 | 220 | 10 | 210 | 990 | <6.3 |
| | 3/24/2016 | 53.72 | 20.55 | Y | 33.17 | 9,500 | 960 | <6.3 | 180 | 370 | 11 |
| | **6/16/2016** | **53.72** | **20.58** | **Y** | **33.14** | **13,000** | **570** | **<5.0** | **350** | **351** | **7** |
| **2nd WBZ** | | | | | | | | | | | |
| **MW-1D** | 1/3/2008 | 54.42 | | - | - | <50 | <0.50 | <2.0 | <0.50 | <2.0 | <0.50 |
| | 1/22/2008 | 54.42 | 22.85 | - | 31.57 | <50 | <0.50 | <2.0 | <0.50 | <2.0 | <0.50 |
| | 4/16/2008 | 54.42 | 23.10 | - | 31.32 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 7/3/2008 | 54.42 | 23.44 | - | 30.98 | 75.9 | <0.5 | <2.0 | 0.54 | <2.0 | <0.5 |
| | 10/15/2008 | 54.42 | 23.82 | - | 30.60 | 120 | 1.6 | <0.5 | 2.8 | 3.6 | <0.5 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-1D** cont. | 1/8/2009 | 54.42 | 23.44 | - | 30.98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 4/14/2009 | 54.42 | 23.06 | - | 31.36 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 8/26/2009 | 54.42 | 23.73 | - | 30.69 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/1/2009 | 54.42 | 23.59 | - | 30.83 | 330 [Y] | <0.5 | <0.5 | 1.3 | 2.2 | <0.5 |
| | 3/16/2010 | 54.42 | 22.60 | - | 31.82 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/4/2010 | 54.42 | 23.10 | - | 31.32 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/1/2010 | 54.42 | 23.51 | - | 30.91 | <50 | <0.5 | <0.5 | 0.52 | 1.8 | <0.5 |
| | 12/3/2010 | 54.42 | 23.41 | - | 31.01 | 61 | <0.5 | <0.5 | 1.0 | 3.73 | <0.5 |
| | 3/3/2011 | 54.42 | 22.27 | N | 32.15 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 5/19/2011 | 54.42 | 22.89 | N | 31.53 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/8/2011 | 54.42 | 23.08 | N | 31.34 | 220 | <0.5 | <0.5 | 0.6 | 1.4 | <0.5 |
| | 12/1/2011 | 54.42 | 22.26 | N | 32.16 | <22 | <0.33 | <0.19 | <0.15 | <0.20 | <0.38 |
| | 3/2/2012 | 54.42 | 23.01 | N | 31.41 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/6/2012 | 54.42 | 23.18 | N | 31.24 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/20/2012 | 54.42 | 23.76 | N | 30.66 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/13/2012 | 54.42 | 23.04 | N | 31.38 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/27/2013 | 54.42 | 23.34 | N | 31.08 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/10/2013 | 54.42 | 23.69 | N | 30.73 | 110 | <0.5 | <0.5 | 0.55 | <0.5 | <0.5 |
| | 9/16/2013 | 54.42 | 24.02 | N | 30.40 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/5/2013 | 54.42 | 24.31 | N | 30.11 | <50 | <0.5 | <0.5 | <0.5 | 1.3 | <0.5 |
| | 3/12/2014 | 54.42 | 23.68 | N | 30.74 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/5/2014 | 54.42 | 23.68 | N | 30.74 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/22/2014 | 54.42 | 24.65 | N | 29.77 | <50 | <0.5 | <0.5 | <0.5 | 0.88 | <0.5 |
| | 12/23/2014 | 54.42 | 21.84 | N | 32.58 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/19/2015 | 54.42 | 23.04 | N | 31.38 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/3/2015 | 54.42 | 23.43 | N | 30.99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/10/2015 | 54.42 | 23.91 | N | 30.51 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-3D | 1/3/2008 | 54.10 | | - | - | <50 | <0.50 | <2.0 | <0.50 | <2.0 | 87.6 |
| | 1/22/2008 | 54.10 | 22.31 | - | 31.79 | <50 | <0.50 | <2.0 | <0.50 | <2.0 | 88.3 |
| | 4/16/2008 | 54.10 | 22.64 | - | 31.46 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | 71.1 |
| | 7/3/2008 | 54.10 | 23.17 | - | 30.93 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | 67.4 |
| | 10/16/2008 | 54.10 | 23.62 | - | 30.48 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 37 |
| | 1/8/2009 | 54.10 | 23.07 | - | 31.03 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 29 |
| | 4/14/2009 | 54.10 | 22.36 | - | 31.74 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 44 |
| | 8/26/2009 | 54.10 | 23.41 | - | 30.69 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 20 |
| | 12/1/2009 | 54.10 | 23.27 | - | 30.83 | 110 Y | <0.5 | <0.5 | <0.5 | 0.52 | 24 |
| | 3/16/2010 | 54.10 | 22.10 | - | 32.00 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 7.1 |
| | 6/4/2010 | 54.10 | 22.70 | - | 31.40 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 17 |
| | 9/1/2010 | 54.10 | 23.09 | - | 31.01 | 78 | <0.5 | <0.5 | 1.1 | 4.71 | 24 |
| | 12/3/2010 | 54.10 | 22.90 | - | 31.20 | <50 | <0.5 | <0.5 | 0.56 | 1.4 | 13 |
| | 3/3/2011 | 54.10 | 21.66 | N | 32.44 | <50 | 1.3 | <0.5 | <0.5 | 0.59 | 14 |
| | 5/19/2011 | 54.10 | 22.61 | N | 31.49 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 5.2 |
| | 9/8/2011 | 54.10 | 22.68 | N | 31.42 | 69 | <0.5 | <0.5 | <0.5 | 0.62 | 4.8 |
| | 12/1/2011 | 54.10 | 22.86 | N | 31.24 | <22 | <0.33 | <0.19 | <0.15 | <0.20 | 10 |
| | 3/2/2012 | 54.10 | 22.60 | N | 31.50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4.2 |
| | 6/6/2012 | 54.10 | 22.77 | N | 31.33 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4.8 |
| | 9/20/2012 | 54.10 | 23.42 | N | 30.68 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 5.1 |
| | 12/13/2012 | 54.10 | 22.57 | N | 31.53 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4.4 |
| | 3/27/2013 | 54.10 | 22.87 | N | 31.23 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4.4 |
| | 6/10/2013 | 54.10 | 23.27 | N | 30.83 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3.5 |
| | 9/16/2013 | 54.10 | 23.65 | N | 30.45 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2.1 |
| | 12/5/2013 | 54.10 | 23.97 | N | 30.13 | <50 | <0.5 | <0.5 | <0.5 | 0.53 | 1.6 |
| | 3/13/2014 | 54.10 | 23.22 | N | 30.88 | 130 | <0.5 | 2.9 | 2.5 | 16.6 | 0.97 |
| | 6/5/2014 | 54.10 | 23.33 | N | 30.77 | <50 | <0.5 | <0.5 | <0.5 | 0.77 | 1.5 |
| | 9/22/2014 | 54.10 | 24.40 | N | 29.70 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.96 |
| | 12/23/2014 | 54.10 | 21.09 | N | 33.01 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-3D** cont. | 3/19/2015 | 54.10 | 22.50 | N | 31.60 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1.6 |
| | 6/3/2015 | 54.10 | 22.85 | N | 31.25 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1.6 |
| | 9/10/2015 | 54.10 | 23.53 | N | 30.57 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1.4 |
| | | | | | | | | | | | |
| **MW-4D** | 1/4/2008 | 53.12 | | - | - | <50 | <0.50 | <2.0 | <0.50 | <2.0 | <0.50 |
| | 1/22/2008 | 53.12 | 21.11 | - | 32.01 | 91.5 | 18.7 | <2.0 | 7.08 | 11.42 | 219 |
| | 4/15/2008 | 53.12 | 21.67 | - | 31.45 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | 27 |
| | 7/3/2008 | 53.12 | 22.39 | - | 30.73 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | 6.27 |
| | 10/16/2008 | 53.12 | 22.98 | - | 30.14 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1.9 |
| | 1/8/2009 | 53.12 | 22.25 | - | 30.87 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2 |
| | 4/14/2009 | 53.12 | 21.34 | - | 31.78 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2.2 |
| | 8/27/2009 | 53.12 | 22.79 | - | 30.33 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2.2 |
| | 12/1/2009 | 53.12 | 22.49 | - | 30.63 | 120 [Y] | <0.5 | <0.5 | 1.4 | 2.3 | 2.3 |
| | 3/16/2010 | 53.12 | 21.02 | - | 32.10 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.65 |
| | 6/4/2010 | 53.12 | 21.93 | - | 31.19 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1.1 |
| | 9/1/2010 | 53.12 | 23.32 | - | 29.80 | <50 | <0.5 | <0.5 | 0.85 | 3.76 | 2.2 |
| | 12/3/2010 | 53.12 | 22.46 | - | 30.66 | <50 | <0.5 | <0.5 | <0.5 | 0.67 | <0.5 |
| | 3/3/2011 | 53.12 | 20.45 | N | 32.67 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.58 |
| | 5/19/2011 | 53.12 | 21.57 | N | 31.55 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/8/2011 | 53.12 | 21.92 | N | 31.20 | 59 | <0.5 | <0.5 | <0.5 | 0.51 | 1.7 |
| | 12/1/2011 | 53.12 | 21.19 | N | 31.93 | <22 | <0.33 | <0.19 | <0.15 | <0.20 | 4.2 |
| | 3/2/2012 | 53.12 | 21.8 | N | 31.32 | <50 | <0.5 | <0.5 | 0.85 | 1.2 | 2.7 |
| | 6/6/2012 | 53.12 | 22.00 | N | 31.12 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1.3 |
| | 9/20/2012 | 53.12 | 22.67 | N | 30.45 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1.6 |
| | 12/13/2012 | 53.12 | 21.55 | N | 31.57 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.94 |
| | 3/27/2013 | 53.12 | 21.98 | N | 31.14 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2.1 |
| | 6/10/2013 | 53.12 | 22.55 | N | 30.57 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1.7 |
| | 9/16/2013 | 53.12 | 23.05 | N | 30.07 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4.6 |
| | 12/6/2013 | 53.12 | 23.43 | N | 29.69 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3.4 |

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-4D** cont. | 3/13/2014 | 53.12 | 22.38 | N | 30.74 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4.0 |
| | 6/6/2014 | 53.12 | 22.78 | N | 30.34 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1.8 |
| | 9/23/2014 | 53.12 | 24.05 | N | 29.07 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/23/2014 | 53.12 | 19.66 | N | 33.46 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/19/2015 | 53.12 | 21.54 | N | 31.58 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/3/2015 | 53.12 | 22.10 | N | 31.02 | 75 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/10/2015 | 53.12 | 22.89 | N | 30.23 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **1573 153 RD** | 1/3/2008 | NS | NM | - | NC | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 7/2/2008 | NS | NM | - | NC | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 10/16/2008 | NS | NM | - | NC | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **Equipment Blanks** | | | | | | | | | | | |
| **EB-PMP** | 1/21/2008 | - | - | - | - | <50 | <0.50 | <2.0 | <0.50 | <2.0 | <0.50 |
| **EB-PRB** | 1/21/2008 | - | - | - | - | <50 | <0.50 | <2.0 | <0.50 | <2.0 | <0.50 |
| **EB-PMP2** | 1/22/2008 | - | - | - | - | <50 | <0.50 | <2.0 | <0.50 | <2.0 | <0.50 |
| **EB-PRB2** | 1/22/2008 | - | - | - | - | <50 | <0.50 | <2.0 | <0.50 | <2.0 | <0.50 |
| **ESL (ug/L)** | - | - | - | - | - | **100** | **1** | **40** | **13** | **20** | **5** |

Notes:

The first time SOMA monitored this Site was in May 2002.

*: Due to minimal recharge rates in well MW-2, the groundwater elevation recorded on these dates did not match the overall site conditions, May 2002 & August 2003.

NC: Not Calculated

[1] : Top of casing elevations were surveyed to a datum of 67.07 M.S.L by Kier & Wright Civil Engineers & Land Surveyors on May 7, 2002. On October 11, 2004, the site was re-surveyed by Harrington Surveys, Inc. of Walnut Creek, CA to a datum of California Coordinate System, Zone 3, NAD 83.

[2] MtBE analyzed by EPA Method 8021B, and confirmed by EPA Method 8260B.

<: Not detected above the laboratory reporting limit.

Y: Sample exhibits chromatographic pattern which does not resemble standard

[c] Presence confirmed, but confirmation concentration differed by more than a factor of two.

C: Presence confirmed, but RPD between columns exceeds 40%.

H: Heavier hydrocarbons contributed to the quantitation.

x: Does not match pattern of reference Gasoline Standard. Hydrocarbons in the range of C5-C12 quantified as gasoline (possibly aged gasoline)

NA: Not Analyzed. Well MW-8 was inaccessible during the First Quarter 2005, car was parked over well.
Not Analyzed. Well MW-7 was inaccessible during the First Quarter 2006, car was parked over well.

NM: Not Measured. Well MW-8 was inaccessible during the First Quarter 2005, car was parked over well.
Not Measured. Well MW-7 was inaccessible during the First Quarter 2006, car was parked over well.

The first time SOMA monitored wells MW-6 to MW-9 was in September 2004.

# Table 1

## Historical Groundwater Elevation Data and Analytical Results

### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation [1] (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B [2] (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|

EB-PMP/EB-PRB: Equipment Blanks for Pump and Probe

ESL: Environmental Screening Levels per CRWQCB SFBay Region (Revised February 2016)

Tier 1 ESL (Groundwater Screening Levels (groundwater is a drinking water resource)

MW-8 and MW-9 were decommissioned November 13, 2009

FP: Groundwater not sampled due to presence of free-product

Groundwater elevation corrected upon presence of FP as follows:

Corrected depth to groundwater is equal to (measured depth)- 0.68(free product thickness)

The correction factor is derived by the following: specific gravity of gas at 20$^{o}$C is 0.68, then specific gravity is multiplied by the thickness of free product

# Table 2
## Historical Gasoline Oxygenates Results
## 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|---|---|---|---|---|---|---|---|
| | | | 1st WBZ | | | | |
| **MW-1** | 8/8/2002 | 78 | <1.3 | <1.3 | <1.3 | NA | NA |
| | 11/1/2002 | 42 | < 1.0 | < 1.0 | < 1.0 | NA | NA |
| | 2/21/2003 | 47 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 5/28/2003 | 25 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 8/12/2003 | <10 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 10/9/2003 | 70 | <1.0 | <1.0 | <1.0 | NA | NA |
| | 1/15/2004 | 55 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 5/25/2004 | 62 | <0.7 | <0.7 | <0.7 | NA | NA |
| | 9/21/2004 | <10 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 12/14/2004 | <21.5 | <4.3 | <4.3 | <17.2 | NA | NA |
| | 3/11/2005 | 81 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 6/15/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 8/26/2005 | 68.9 | <2.15 | <2.15 | <8.6 | NA | NA |
| | 11/11/2005 | 46 | <2.15 | <2.15 | <8.6 | NA | NA |
| | 2/9/2006 | 11.3 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 5/9/2006 | <10 | <0.5 | <0.5 | <2.0 | 0.51 | <0.5 |
| | 8/10/2006 | <43 | <2.15 | <2.15 | <8.60 | 3.37 | <2.15 |
| | 10/26/2006 | 39.4 | <1.0 | <1.0 | <4.0 | 2.92 | <1.0 |
| | 1/25/2007 | 41.4 | <0.5 | <0.5 | <2.0 | 1.36 | <0.5 |
| | 4/26/2007 | 39.6 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 7/25/2007 | 46.5 | <1.0 | <1.0 | <4.0 | <1.0 | <1.0 |
| | 10/23/2007 | 53.7 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 1/22/2008 | 23.8 | <0.5 | <0.5 | 2.16 | <0.5 | <0.5 |
| | 4/16/2008 | 8.36 | <0.5 | <0.5 | <2.0 | 164 | <0.5 |
| | 7/3/2008 | 30.5 | <0.5 | <0.5 | <2.0 | 1.08 | <0.5 |
| | 10/15/2008 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 1/7/2009 | <25 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| | 4/14/2009 | 15 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 8/27/2009 | <40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| | 12/2/2009 | <40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| | 3/17/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/3/2010 | 26 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/2/2010 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/2/2010 | <63 | <3.1 | <3.1 | <3.1 | <3.1 | <3.1 |
| | 3/4/2011 | 40 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 5/20/2011 | <71 | <3.6 | <3.6 | <3.6 | <3.6 | <3.6 |
| | 9/9/2011 | 33 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| | 12/2/2011 | 49 | <3.2 | <3.5 | <2.8 | <2.4 | <1.7 |
| | 3/2/2012 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 6/7/2012 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 9/21/2012 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 12/14/2012 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 3/28/2013 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 6/11/2013 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 9/17/2013 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 12/6/2013 | <33 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 |
| | 3/13/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/6/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/23/2014 | <33 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 |
| | 12/23/2014 | 4.7 J | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/20/2015 | 11 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/4/2015 | 14 J | <0.71 | <0.71 | <0.71 | <0.71 | <0.71 |
| | 9/11/2015 | <33 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 |
| | 12/2/2015 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/23/2016 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **6/15/2016** | **<10** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| | | | | | | | |
| **MW-2** | 8/8/2002 | 21 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 11/1/2002 | 15 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 2/21/2003 | 12 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 5/28/2003 | 31 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 8/12/2003 | 69 | <0.8 | <0.8 | <0.8 | NA | NA |
| | 10/9/2003 | 12 | <0.5 | <0.5 | <0.5 | NA | NA |

# Table 2
## Historical Gasoline Oxygenates Results
## 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|---|---|---|---|---|---|---|---|
| **MW-2** cont. | 1/15/2004 | <10 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 5/25/2004 | 14 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 9/21/2004 | <10 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 12/14/2004 | <2.5 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 3/11/2005 | <2.5 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 6/15/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 8/26/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 11/11/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 2/9/2006 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 5/9/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 8/10/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/26/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 1/25/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 4/26/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 7/25/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/23/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 1/22/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 4/15/2008 | <2.0 | <0.5 | <0.5 | <2.0 | 2.44 | <0.5 |
| | 7/2/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/15/2008 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 1/7/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 4/13/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 8/27/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/1/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/17/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/3/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/2/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/2/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/4/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 5/20/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/9/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/2/2011 | <13 | <3.2 | <3.5 | <2.8 | <2.4 | <1.7 |
| | 3/2/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/7/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/21/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/14/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/28/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/11/2013 | 150 | <0.5 | 1.6 | <0.5 | <0.5 | <0.5 |
| | 9/16/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/6/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/13/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/6/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/23/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/23/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/20/2015 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/4/2015 | <1.7 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/11/2015 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 12/2/2015 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/23/2016 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **6/15/2016** | **<10** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| | | | | | | | |
| **MW-3** | 8/8/2002 | <330 | <8.3 | <8.3 | 330 | NA | NA |
| | 11/1/2002 | 85 | < 1.3 | <1.3 | 220 | NA | NA |
| | 2/21/2003 | 140 | <5.0 | <5.0 | 320 | NA | NA |
| | 5/28/2003 | 520 | <10 | <10 | 530 | NA | NA |
| | 8/12/2003 | 180 | <4.2 | <4.2 | 270 | NA | NA |
| | 10/9/2003 | <170 | <8.3 | <8.3 | 200 | NA | NA |
| | 1/15/2004 | <100 | <5.0 | <5.0 | 150 | NA | NA |
| | 5/25/2004 | <100 | <5.0 | <5.0 | 270 | NA | NA |
| | 9/21/2004 | <140 | <7.1 | <7.1 | 110 | NA | NA |
| | 12/14/2004 | <100 | <20 | <20 | 154 | NA | NA |
| | 3/11/2005 | <215 | <43 | <43 | 256 | NA | NA |
| | 6/15/2005 | <215 | <10.8 | <10.8 | 374 | NA | NA |
| | 8/26/2005 | 699 | <21.5 | <21.5 | 277 | NA | NA |
| | 11/11/2005 | <430 | <21.5 | <21.5 | 171 | NA | NA |

## Table 2
### Historical Gasoline Oxygenates Results
### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|---|---|---|---|---|---|---|---|
| **MW-3** cont. | 2/9/2006 | <430 | <21.5 | <21.5 | 620 | NA | NA |
| | 5/9/2006 | 367 | <10.8 | <10.8 | 594 | <10.8 | <10.8 |
| | 8/10/2006 | 365 | <10.8 | <10.8 | 727 | <10.8 | <10.8 |
| | 10/26/2006 | 591 | <10.8 | <10.8 | 899 | <10.8 | <10.8 |
| | 1/25/2007 | 711 | <10.8 | <10.8 | 768 | <10.8 | <10.8 |
| | 4/26/2007 | 690 | <10.8 | <10.8 | 369 | <10.8 | <10.8 |
| | 7/25/2007 | 1,340 | <10.8 | <10.8 | 565 | <10.8 | <10.8 |
| | 10/23/2007 | 1,050 | <21.5 | <21.5 | 301 | <21.5 | <21.5 |
| | 1/22/2008 | 373 | <10.8 | <10.8 | 170 | <0.5 | <0.5 |
| | 4/16/2008 | 881 | <5.50 | <5.50 | <22.0 | 1,850 | 12.1 |
| | 7/3/2008 | 426 | <10.8 | <10.8 | 124 | <10.8 | <10.8 |
| | 10/16/2008 | <400 | <20 | <20 | <20 | <20 | <20 |
| | 1/8/2009 | <500 | <25 | <25 | <25 | <25 | <25 |
| | 4/13/2009 | <500 | <25 | <25 | <25 | <25 | <25 |
| | 8/27/2009 | <500 | <25 | <25 | <25 | <25 | <25 |
| | 12/2/2009 | 270 | <13 | <13 | <13 | <13 | <13 |
| | 3/17/2010 | <250 | <13 | <13 | <13 | <13 | <13 |
| | 6/3/2010 | <250 | <13 | <13 | <13 | <13 | <13 |
| | 9/2/2010 | <250 | <13 | <13 | <13 | <13 | <13 |
| | 12/2/2010 | <130 | <6.3 | <6.3 | <6.3 | <6.3 | <6.3 |
| | 3/4/2011 | <170 | <8.3 | <8.3 | <8.3 | <8.3 | <8.3 |
| | 5/20/2011 | <130 | <6.3 | <6.3 | <6.3 | <6.3 | <6.3 |
| | 9/9/2011 | <140 | <7.1 | <7.1 | <7.1 | <7.1 | <7.1 |
| | 12/2/2011 | <6.6 | <1.6 | <1.7 | <1.4 | <1.2 | <0.86 |
| | 3/2/2012 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 6/7/2012 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/21/2012 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/14/2012 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 3/28/2013 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 6/11/2013 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/17/2013 | <200 | <10 | <10 | <10 | <10 | <10 |
| | 12/6/2013 | <200 | <10 | <10 | <10 | <10 | <10 |
| | 3/12/2014 | FP | FP | FP | FP | FP | FP |
| | 6/5/2014 | FP | FP | FP | FP | FP | FP |
| | 9/23/2014 | <200 | <10 | <10 | <10 | <10 | <10 |
| | 12/23/2014 | <71 | <3.6 | <3.6 | <3.6 | <3.6 | <3.6 |
| | 3/20/2015 | 29 J | <3.6 | <3.6 | <3.6 | <3.6 | <3.6 |
| | 6/4/2015 | <17 | <6.3 | <6.3 | <6.3 | <6.3 | <6.3 |
| | 9/11/2015 | <130 | <6.3 | <6.3 | <6.3 | <6.3 | <6.3 |
| | 12/29/2015 | <100 | <5 | <5 | <5 | <5 | <5 |
| | 3/24/2016 | 60 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| | **6/16/2016** | **38** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| | | | | | | | |
| **MW-4** | 8/8/2002 | 1500 | <17 | <17 | 18 | NA | NA |
| | 11/1/2002 | 580 | < 5.0 | 6 | 13 | NA | NA |
| | 2/21/2003 | 1600 | <20 | 22 | <20 | NA | NA |
| | 5/28/2003 | 690 | <8.3 | <8.3 | 17 | NA | NA |
| | 8/12/2003 | 550 | <7.1 | 7.3 | 18 | NA | NA |
| | 10/9/2003 | 1400 | <31 | 50 | <31 | NA | NA |
| | 1/15/2004 | 1,300 | <20 | 25 | 21 | NA | NA |
| | 5/25/2004 | 560 | <8.3 | <8.3 | 24 | NA | NA |
| | 9/21/2004 | 1,300 | <50 | <50 | <50 | NA | NA |
| | 12/14/2004 | 826 | <10.75 | 21 | 49 | NA | NA |
| | 3/11/2005 | 1,110 | <10.8 | 12.1 | <43 | NA | NA |
| | 6/15/2005 | <110 | <5.5 | <5.5 | 22.9 | NA | NA |
| | 8/26/2005 | 902 | <5.50 | <5.50 | 37.4 | NA | NA |
| | 11/11/2005 | 884 | <10.8 | <10.8 | <43 | NA | NA |
| | 2/9/2006 | 769 | <10.8 | 16.4 | 45.6 | NA | NA |
| | 5/9/2006 | 405 | <2.15 | 2.95 | 31.3 | <2.15 | <2.15 |
| | 8/10/2006 | 306 | <2.15 | <2.15 | 35.3 | <2.15 | <2.15 |
| | 10/26/2006 | 3430 | <10.8 | 13.8 | <43 | <10.8 | <10.8 |
| | 1/25/2007 | 822 | <2.15 | 2.4 | 28 | 2.25 | <2.15 |
| | 4/26/2007 | 556 | <2.15 | 2.28 | 29.2 | <2.15 | <2.15 |
| | 7/25/2007 | 1,860 | <2.15 | 9.94 | 24 | <2.15 | <2.15 |
| | 10/23/2007 | 3,400 | <2.15 | 18.4 | 25.9 | <2.15 | <2.15 |

# Table 2
## Historical Gasoline Oxygenates Results
## 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|---|---|---|---|---|---|---|---|
| **MW-4** cont. | 1/22/2008 | 2,580 | <5.50 | 64.7 | <22 | <0.5 | <0.5 |
| | 4/15/2008 | 1,100 | <5.50 | 11.7 | <22 | 39.9 | <5.50 |
| | 7/2/2008 | 8,720 | <5.50 | 75.2 | <22 | <5.50 | <5.50 |
| | 10/16/2008 | 700 | <3.6 | 4.2 | 37 | 5.4 | <3.6 |
| | 1/8/2009 | 1,500 | <3.6 | 9.9 | 41 | 3.6 | <3.6 |
| | 4/13/2009 | 1,100 | <8.3 | <8.3 | 28 | <8.3 | <8.3 |
| | 8/27/2009 | 4,900 | <5.0 | 24 | <5.0 | <5.0 | <5.0 |
| | 12/2/2009 | 6,800 | <5.0 | 69 | <5.0 | <5.0 | <5.0 |
| | 3/17/2010 | 1,900 | <3.6 | 18 | <3.6 | <3.6 | <3.6 |
| | 6/3/2010 | 930 | <3.6 | 7.7 | <3.6 | <3.6 | <3.6 |
| | 9/2/2010 | 7,200 | <3.6 | 57 | <3.6 | <3.6 | <3.6 |
| | 12/2/2010 | 3,800 | <10 | 30 | <10 | <10 | <10 |
| | 3/3/2011 | 410 | <0.71 | 3.2 | <0.71 | <0.71 | <0.71 |
| | 5/19/2011 | 130 | <0.5 | 1.4 | <0.5 | <0.5 | <0.5 |
| | 9/8/2011 | 380 | <0.5 | 3.5 | <0.5 | 1.1 | <0.5 |
| | 12/1/2011 | 790 | <1.6 | 5.4 | 8.2 | <1.2 | <0.86 |
| | 3/2/2012 | 920 | <2.0 | 5.9 | 24 | <2.0 | <2.0 |
| | 6/7/2012 | 1,000 | <2.5 | 13 | <2.5 | <2.5 | <2.5 |
| | 9/21/2012 | 1,300 | <2.5 | 14 | <2.5 | <2.5 | <2.5 |
| | 12/14/2012 | 36 | <0.5 | 0.65 | <0.5 | <0.5 | <0.5 |
| | 3/28/2013 | 2,500 | <5.0 | 29 | <5.0 | <5.0 | <5.0 |
| | 6/11/2013 | 890 | <5.0 | 12 | <5.0 | <5.0 | <5.0 |
| | 9/17/2013 | 1,100 | <10 | <10 | <10 | <10 | <10 |
| | 12/6/2013 | 1,500 | <10 | <10 | <10 | <10 | <10 |
| | 3/13/2014 | 190 | <6.3 | <6.3 | <6.3 | <6.3 | <6.3 |
| | 6/6/2014 | 360 | <6.3 | <6.3 | <6.3 | <6.3 | <6.3 |
| | 9/23/2014 | 1,100 | <6.3 | 6.3 | <6.3 | <6.3 | <6.3 |
| | 12/23/2014 | 8.1 J | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/20/2015 | 29 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/4/2015 | 62 | <0.5 | 0.62 | <0.5 | <0.5 | <0.5 |
| | 9/11/2015 | 82 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 12/29/2015 | 32 | <0.5 | <0.5 | 1.4 | <0.5 | <0.5 |
| | 3/23/2016 | 14 | <0.5 | <0.5 | 0.88 | <0.5 | <0.5 |
| | **6/16/2016** | **230** | **<0.5** | **4.7** | **<0.5** | **<0.5** | **<0.5** |
| | | | | | | | |
| **MW-5** | 8/8/2002 | <250 | <6.3 | <6.3 | 510 | NA | NA |
| | 11/1/2002 | 66 | < 2.0 | < 2.0 | 560 | NA | NA |
| | 2/21/2003 | <63 | <3.1 | <3.1 | 280 | NA | NA |
| | 5/28/2003 | <33 | <1.7 | <1.7 | 110 | NA | NA |
| | 8/12/2003 | 130 | <3.6 | <3.6 | 270 | NA | NA |
| | 10/9/2003 | <100 | <5.0 | <5.0 | 740 | NA | NA |
| | 1/15/2004 | <63 | <3.1 | <3.1 | 300 | NA | NA |
| | 5/25/2004 | <100 | <5.0 | <5.0 | 210 | NA | NA |
| | 9/21/2004 | <130 | <6.3 | <6.3 | 550 | NA | NA |
| | 12/14/2004 | 40 | <5.5 | <5.5 | 444 | NA | NA |
| | 3/11/2005 | 88.8 | <5.5 | <5.5 | 448 | NA | NA |
| | 6/15/2005 | <43 | <2.15 | <2.15 | 88.1 | NA | NA |
| | 8/26/2005 | 274 | <5.50 | <5.50 | 195 | NA | NA |
| | 11/11/2005 | 192 | <5.50 | <5.50 | 360 | NA | NA |
| | 2/9/2006 | 218 | <5.50 | <5.50 | 523 | NA | NA |
| | 5/9/2006 | 91.8 | <2.15 | <2.15 | 163 | <2.15 | <2.15 |
| | 8/10/2006 | 138 | <5.50 | <5.50 | 342 | <5.50 | <5.50 |
| | 10/26/2006 | 322 | <5.50 | <5.50 | 712 | <5.50 | <5.50 |
| | 1/25/2007 | 878 | <5.50 | <5.50 | 552 | <5.50 | <5.50 |
| | 4/26/2007 | 708 | <2.15 | <2.15 | 310 | <2.15 | <2.15 |
| | 7/25/2007 | 1,020 | <2.15 | <2.15 | 356 | <2.15 | <2.15 |
| | 10/23/2007 | 1,510 | <2.15 | <2.15 | 181 | <2.15 | <2.15 |
| | 1/22/2008 | 470 | <0.5 | 4.56 | 62.1 | <0.5 | <0.5 |
| | 4/15/2008 | 566 | <1.0 | <1.0 | 29.6 | 231 | 5.66 |
| | 7/3/2008 | 2,320 | <2.15 | <2.15 | 53.3 | <2.15 | <2.15 |
| | 10/16/2008 | 990 | <5.0 | <5.0 | 82 | <5.0 | <5.0 |
| | 1/8/2009 | 360 | <6.3 | <6.3 | 51 | <6.3 | <6.3 |
| | 4/13/2009 | 280 | <3.1 | <3.1 | <3.1 | <3.1 | <3.1 |
| | 8/27/2009 | 1,300 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/2/2009 | 320 | <5.0 | <5.0 | 25 | <5.0 | <5.0 |

## Table 2
### Historical Gasoline Oxygenates Results
### 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|---|---|---|---|---|---|---|---|
| **MW-5** cont. | 3/17/2010 | 570 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 6/4/2010 | 340 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 9/2/2010 | 320 | <2.5 | <2.5 | 13 | <2.5 | <2.5 |
| | 12/2/2010 | 200 | <3.1 | <3.1 | <3.1 | <3.1 | <3.1 |
| | 3/4/2011 | 180 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 5/20/2011 | 480 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Pre- MPE | 8/4/2011 | 110 | <0.71 | <0.71 | 2.6 | <0.71 | <0.71 |
| | 9/9/2011 | 260 | <1.0 | <1.0 | 11 | <1.0 | <1.0 |
| | 12/2/2011 | 95 | <3.2 | <3.5 | 14 | <2.4 | <1.7 |
| | 3/2/2012 | 59 | <1.0 | <1.0 | 4.1 | <1.0 | <1.0 |
| | 6/7/2012 | 22 | <1.0 | <1.0 | 2.8 | <1.0 | <1.0 |
| | 9/21/2012 | 66 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 12/14/2012 | <20 | <1.0 | <1.0 | 4.2 | <1.0 | <1.0 |
| | 3/28/2013 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 6/11/2013 | <20 | <1.0 | <1.0 | 2.5 | <1.0 | <1.0 |
| | 9/17/2013 | 20 | <1.0 | <1.0 | 5.7 | <1.0 | <1.0 |
| | 12/6/2013 | <20 | <1.0 | <1.0 | 3.9 | <1.0 | <1.0 |
| | 3/13/2014 | <20 | <1.0 | <1.0 | 2.2 | <1.0 | <1.0 |
| | 6/6/2014 | <10 | <0.5 | <0.5 | 0.81 | <0.5 | <0.5 |
| | 9/23/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/23/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/20/2015 | 3.1 J | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/4/2015 | <1.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/11/2015 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/29/2015 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/23/2016 | 19 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **6/16/2016** | **<10** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| | | | | | | | |
| **MW-6** | 9/21/2004 | <10 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 12/14/2004 | <5.5 | <5.5 | <5.5 | <22 | NA | NA |
| | 3/11/2005 | 2.54 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 6/15/2005 | <20 | <1.0 | <1.0 | <4.0 | NA | NA |
| | 8/26/2005 | <43 | <2.15 | <2.15 | <8.6 | NA | NA |
| | 11/11/2005 | <43 | <2.15 | <2.15 | <8.6 | NA | NA |
| | 2/9/2006 | <43 | <2.15 | <2.15 | <8.6 | NA | NA |
| | 5/9/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 8/10/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/26/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 1/25/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 4/26/2007 | 7.21 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 7/25/2007 | 5.66 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/23/2007 | 6.68 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 1/21/2008 | 13.9 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 4/15/2008 | <2.0 | <0.5 | <0.5 | <2.0 | 6.78 | 1.49 |
| | 7/2/2008 | 4.54 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/15/2008 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 1/7/2009 | <63 | <3.1 | <3.1 | <3.1 | <3.1 | <3.1 |
| | 4/13/2009 | <25 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| | 8/26/2009 | <40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| | 12/1/2009 | <40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| | 3/16/2010 | <40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| | 6/3/2010 | <40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| | 9/1/2010 | <200 | <10 | <10 | <10 | <10 | <10 |
| | 12/2/2010 | <330 | <17 | <17 | <17 | <17 | <17 |
| | 3/3/2011 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 5/20/2011 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 9/8/2011 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 12/1/2011 | NA | NA | NA | NA | NA | NA |
| | 3/2/2012 | <83 | <4.2 | <4.2 | <4.2 | <4.2 | <4.2 |
| | 6/6/2012 | <33 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 |
| | 9/20/2012 | NA | NA | NA | NA | NA | NA |
| | 12/13/2012 | 29 | <0.71 | <0.71 | <0.71 | <0.71 | <0.71 |
| | 3/27/2013 | <25 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| | 6/10/2013 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 9/16/2013 | FP | FP | FP | FP | FP | FP |
| | 12/5/2013 | 270 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |

# Table 2
## Historical Gasoline Oxygenates Results
## 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|---|---|---|---|---|---|---|---|
| **MW-6** cont. | 3/12/2014 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 6/5/2014 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 9/22/2014 | 160 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 12/22/2014 | 13 J | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/19/2015 | 4.1 J | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/3/2015 | <1.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/10/2015 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/28/2015 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 3/24/2016 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **6/16/2016** | **<10** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| | | | | | | | |
| **MW-7** | 9/21/2004 | <10 | <0.5 | <0.5 | 1.5 | NA | NA |
| | 12/14/2004 | <2.5 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 3/11/2005 | <12.5 | <2.5 | <2.5 | <10 | NA | NA |
| | 6/15/2005 | <10 | <0.5 | <0.5 | 2.23 | NA | NA |
| | 8/26/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 11/11/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 2/9/2006 | NA | NA | NA | NA | NA | NA |
| | 5/9/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 8/10/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/26/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 1/25/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 4/26/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 7/25/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/23/2007 | 6.49 | <0.5 | <0.5 | 2.58 | <0.5 | <0.5 |
| | 1/21/2008 | <2.0 | <0.5 | <0.5 | 6.01 | <0.5 | <0.5 |
| | 4/15/2008 | 8.8 | <0.5 | <0.5 | <2.0 | <0.5 | 1.26 |
| | 7/2/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/15/2008 | <10 | <0.5 | <0.5 | 14 | <0.5 | <0.5 |
| | 1/7/2009 | <10 | <0.5 | <0.5 | 11 | <0.5 | <0.5 |
| | 4/13/2009 | <10 | <0.5 | <0.5 | 16 | <0.5 | <0.5 |
| | 8/26/2009 | <33 | <0.5 | <0.5 | 33 | <0.5 | <0.5 |
| | 12/1/2009 | <10 | <0.5 | <0.5 | 30 | <0.5 | <0.5 |
| | 3/16/2010 | 11 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/3/2010 | 20 | <0.5 | <0.5 | 7.1 | <0.5 | <0.5 |
| | 9/1/2010 | 47 | <0.5 | <0.5 | 7.2 | <0.5 | <0.5 |
| | 12/2/2010 | 22 | <0.5 | <0.5 | 4.9 | <0.5 | <0.5 |
| | 3/4/2011 | 14 | <0.5 | <0.5 | 4.0 | <0.5 | <0.5 |
| | 5/19/2011 | <10 | <0.5 | <0.5 | 2.1 | <0.5 | <0.5 |
| | 9/8/2011 | <10 | <0.5 | <0.5 | 1.6 | <0.5 | <0.5 |
| | 12/1/2011 | 15 | <0.36 | <0.40 | 2.4 | <0.28 | <0.19 |
| | 3/2/2012 | <10 | <0.5 | <0.5 | 0.82 | <0.5 | <0.5 |
| | 6/6/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/20/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/13/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/27/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/10/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/16/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/5/2013 | <10 | <0.5 | <0.5 | 0.73 | <0.5 | <0.5 |
| | 3/12/2014 | <10 | <0.5 | <0.5 | 0.64 | <0.5 | <0.5 |
| | 6/5/2014 | <10 | <0.5 | <0.5 | 0.76 | <0.5 | <0.5 |
| | 9/22/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/22/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/19/2015 | 3.0 J | <0.5 | <0.5 | 0.68 | <0.5 | <0.5 |
| | 6/3/2015 | <1.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/10/2015 | <33 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 |
| | 12/28/2015 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/24/2016 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **6/16/2016** | **<10** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| | | | | | | | |
| **MW-8** | 9/21/2004 | <10 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 12/14/2004 | <2.5 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 3/11/2005 | NA | NA | NA | NA | NA | NA |
| | 6/15/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 8/26/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 11/11/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |

# Table 2
## Historical Gasoline Oxygenates Results
## 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|---|---|---|---|---|---|---|---|
| **MW-8** cont. | 2/9/2006 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 5/9/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 8/10/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/26/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 1/25/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 4/26/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 7/25/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/23/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 1/21/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 4/15/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 7/2/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/15/2008 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 1/7/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 4/13/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 8/27/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **Well Decommissioned 11/13/2009** | | | | | | |
| **MW-9** | 9/21/2004 | <10 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 12/14/2004 | <2.5 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 3/11/2005 | <2.5 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 6/15/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 8/26/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 11/11/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 2/9/2006 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 5/9/2006 | <10 | <0.5 | <0.5 | <2.0 | 2.8 | <0.5 |
| | 8/10/2006 | <10 | <0.5 | <0.5 | <2.0 | 1.83 | <0.5 |
| | 10/26/2006 | <10 | <0.5 | <0.5 | <2.0 | 3.07 | <0.5 |
| | 1/25/2007 | <2.0 | <0.5 | <0.5 | <2.0 | 2.92 | <0.5 |
| | 4/26/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 7/25/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/23/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 1/21/2008 | <2.0 | <0.5 | <0.5 | <2.0 | 1.18 | <0.5 |
| | 4/15/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 7/2/2008 | <2.0 | <0.5 | <0.5 | <2.0 | 2.07 | <0.5 |
| | 10/15/2008 | <10 | <0.5 | <0.5 | <0.5 | 1.5 | <0.5 |
| | 1/7/2009 | <10 | <0.5 | <0.5 | <0.5 | 1.4 | <0.5 |
| | 4/13/2009 | <10 | <0.5 | <0.5 | <0.5 | 0.97 | <0.5 |
| | 8/26/2009 | <10 | <0.5 | <0.5 | <0.5 | 2.6 | <0.5 |
| | **Well Decommissioned 11/13/2009** | | | | | | |
| **MW-10** | 9/22/2014 | <200 | <10 | <10 | <10 | <10 | <10 |
| | 12/22/2014 | 30 J | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 3/19/2015 | 85 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 6/3/2015 | 170 J | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/10/2015 | <200 | <10 | <10 | <10 | <10 | <10 |
| | 12/28/2015 | <200 | <10 | <10 | <10 | <10 | <10 |
| | 3/24/2016 | 140 | <5 | <5 | <5 | <5 | <5 |
| **MW-10R** | **6/15/2016** | **<200** | **<10** | **<10** | **<10** | **<10** | **<10** |
| **MW-11** | 9/22/2014 | 69 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/22/2014 | 15 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/19/2015 | 3.5 J | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/3/2015 | <2.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/10/2015 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/28/2015 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/23/2016 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **6/16/2016** | **<10** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| **EX-1** | 12/2/2009 | 150 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| | 3/16/2010 | 980 | <1.3 | 2.4 | 27 | <1.3 | <1.3 |
| | 6/3/2010 | 570 | <1.3 | 1.9 | <1.3 | <1.3 | <1.3 |
| | 9/1/2010 | 470 | <0.5 | 1.4 | 2 | <0.5 | <0.5 |
| | 12/2/2010 | 1,300 | <2.0 | 3.6 | 15 | <2.0 | <2.0 |
| | 3/3/2011 | 690 | <0.71 | 2.5 | 12 | <0.71 | <0.71 |
| | 5/19/2011 | 370 | <0.71 | 1.9 | 13 | <0.71 | <0.71 |
| | 9/8/2011 | 32 | <0.5 | <0.5 | 0.53 | <0.5 | <0.5 |
| | 12/1/2011 | 1,200 | <1.6 | 8.3 | 6.8 | <1.2 | <0.86 |

# Table 2
## Historical Gasoline Oxygenates Results
## 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|---|---|---|---|---|---|---|---|
| **EX-1** cont. | 3/2/2012 | 31 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/6/2012 | 390 | <0.5 | 2.9 | 4.8 | 0.57 | <0.5 |
| | 9/20/2012 | 170 | <0.5 | 1.5 | <0.5 | <0.5 | <0.5 |
| | 12/13/2012 | 210 | <0.5 | 2.7 | 5.2 | <0.5 | <0.5 |
| | 3/27/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/10/2013 | 280 | <0.5 | 4.0 | 1.6 | <0.5 | <0.5 |
| | 9/16/2013 | 450 | <0.5 | 2.4 | 1.9 | <0.5 | <0.5 |
| | 12/5/2013 | 230 | <0.5 | 1.7 | 5.5 | <0.5 | <0.5 |
| | 3/12/2014 | 48 | <0.5 | 0.77 | 3.1 | <0.5 | <0.5 |
| | 6/5/2014 | 70 | <0.5 | 1.1 | 3.9 | 0.69 | <0.5 |
| | 9/22/2014 | 96 | <0.5 | 0.94 | 5.6 | <0.5 | <0.5 |
| | 12/22/2014 | 91 | <0.5 | 0.84 | <0.5 | <0.5 | <0.5 |
| | 3/19/2015 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/3/2015 | 35 | <0.5 | 1.4 | <0.5 | <0.5 | <0.5 |
| | 9/10/2015 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/28/2015 | 38 | <0.5 | 0.7 | 2.4 | <0.5 | <0.5 |
| | 3/24/2016 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **6/15/2016** | **<10** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| | | | | | | | |
| **EX-2** | 12/2/2009 | <63 | <3.1 | <3.1 | <3.1 | <3.1 | <3.1 |
| | 3/16/2010 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 6/3/2010 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/1/2010 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 12/2/2010 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 3/3/2011 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 5/19/2011 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/8/2011 | <25 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| | 12/1/2011 | 74 | <3.2 | <3.5 | <2.8 | <2.4 | <1.7 |
| | 3/2/2012 | <25 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| | 6/6/2012 | <33 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 |
| | 9/20/2012 | <33 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 |
| | 12/13/2012 | <71 | <3.6 | <3.6 | <3.6 | <3.6 | <3.6 |
| | 3/27/2013 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 6/10/2013 | 32 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 9/20/2013 | <20 | <1.0 | <1.0 | <1.0 | 1.4 | <1.0 |
| | 12/5/2013 | 30 | <1.0 | <1.0 | <1.0 | 1.2 | <1.0 |
| | 3/12/2014 | <40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| | 6/5/2014 | <40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| | 9/22/2014 | <10 | <0.5 | <0.5 | <0.5 | 1.1 | <0.5 |
| | 12/22/2014 | 37 | <0.5 | <0.5 | <0.5 | 0.8 | <0.5 |
| | 3/19/2015 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/3/2015 | 17 J | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 9/10/2015 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 12/28/2015 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 3/24/2016 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **6/15/2016** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** |
| **MPE Wells** | | | | | | | |
| **MPE-1** | 8/4/2011 | <500 | <25 | <25 | <25 | <25 | <25 |
| | 9/26/2011 | <500 | <25 | <25 | 600 | <25 | <25 |
| | 12/2/2011 | 830 | <32 | <35 | 750 | <24 | <17 |
| | 3/2/2012 | <710 | <36 | <36 | 1,200 | <36 | <36 |
| | 6/6/2012 | <630 | <31 | <31 | 430 | <31 | <31 |
| | 9/20/2012 | <1,300 | <63 | <63 | 1,200 | <63 | <63 |
| | 12/14/2012 | <1,300 | <63 | <63 | 940 | <63 | <63 |
| | 3/27/2013 | <710 | <36 | <36 | 890 | <36 | <36 |
| | 6/10/2013 | 660 | <13 | <13 | 380 | <13 | <13 |
| | 9/17/2013 | 1,400 | <13 | <13 | <13 | <13 | <13 |
| | 12/6/2013 | 1,500 | <20 | <20 | 30 | <20 | <20 |
| | 3/13/2014 | 1,100 | <20 | <20 | 160 | <20 | <20 |
| | 6/5/2014 | FP | FP | FP | FP | FP | FP |
| | 9/23/2014 | 420 | <3.6 | 3.7 | 24 | <3.6 | <3.6 |
| | 12/23/2014 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 3/20/2015 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 6/4/2015 | <13 | <5.0 | <5.0 | 9.2 | <5.0 | <5.0 |
| | 9/11/2015 | <100 | <5.0 | <5.0 | 85 | <5.0 | <5.0 |
| | 12/29/2015 | <10 | <0.5 | <0.5 | 1.6 | <0.5 | <0.5 |

# Table 2
## Historical Gasoline Oxygenates Results
## 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|---|---|---|---|---|---|---|---|
| **MPE-1** cont. | 3/24/2016 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **6/16/2016** | **<10** | **<0.5** | **<0.5** | **0.67** | **<0.5** | **<0.5** |
| | | | | | | | |
| **MPE-2** | 8/4/2011 | <330 | <17 | <17 | <17 | <17 | <17 |
| | 9/26/2011 | <330 | <17 | <17 | <17 | <17 | <17 |
| | 12/2/2011 | <66 | <16 | <17 | <14 | <12 | <8.6 |
| | 3/2/2012 | <330 | <17 | <17 | <17 | <17 | <17 |
| | 6/7/2012 | <250 | <13 | <13 | <13 | <13 | <13 |
| | 9/21/2012 | <250 | <13 | <13 | <13 | <13 | <13 |
| | 12/14/2012 | <250 | <13 | <13 | <13 | <13 | <13 |
| | 3/28/2013 | <400 | <20 | <20 | <20 | <20 | <20 |
| | 6/11/2013 | <250 | <13 | <13 | <13 | <13 | <13 |
| | 9/17/2013 | <250 | <13 | <13 | <13 | <13 | <13 |
| | 12/5/2013 | FP | FP | FP | FP | FP | FP |
| | 3/12/2014 | FP | FP | FP | FP | FP | FP |
| | 6/5/2014 | FP | FP | FP | FP | FP | FP |
| | 9/23/2014 | <130 | <6.3 | <6.3 | <6.3 | <6.3 | <6.3 |
| | 12/23/2014 | 23 J | <4.2 | <4.2 | <4.2 | <4.2 | <4.2 |
| | 3/20/2015 | 57 J | <4.2 | <4.2 | 5.2 | <4.2 | <4.2 |
| | 6/4/2015 | 66 J | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/11/2015 | <140 | <7.1 | <7.1 | <7.1 | <7.1 | <7.1 |
| | 12/29/2015 | <130 | <6.3 | <6.3 | <6.3 | <6.3 | <6.3 |
| | 3/24/2016 | 250 | <6.3 | <6.3 | <6.3 | <6.3 | <6.3 |
| | **6/16/2016** | **130** | **<5.0** | **<5.0** | **<5.0** | **<5.0** | **<5.0** |
| | | | **2nd WBZ** | | | | |
| **MW-1D** | 1/3/2008 | 111 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 1/22/2008 | 12.9 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 4/16/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 7/3/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/15/2008 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 1/8/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 4/14/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 8/26/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/1/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/16/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/4/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/1/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/3/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/3/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 5/19/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/8/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/1/2011 | <1.5 | <0.36 | <0.40 | <0.32 | <0.28 | <0.19 |
| | 3/2/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/6/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/20/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/13/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/27/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/10/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/16/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/5/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/12/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/5/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/22/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/23/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/19/2015 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/3/2015 | <2.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/10/2015 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | | | | | | | |
| **MW-3D** | 1/3/2008 | 37.3 | <0.5 | 3.12 | 15.3 | NA | NA |
| | 1/22/2008 | 15.6 | <0.5 | 3.1 | 15.3 | <0.5 | <0.5 |
| | 4/16/2008 | 17.7 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 7/3/2008 | <2.0 | <0.5 | <0.5 | 7.45 | <0.5 | <0.5 |
| | 10/16/2008 | <10 | <0.5 | <0.5 | 4.7 | <0.5 | <0.5 |
| | 1/8/2009 | <10 | <0.5 | <0.5 | 3.4 | <0.5 | <0.5 |
| | 4/14/2009 | <10 | <0.5 | <0.5 | 5 | <0.5 | <0.5 |
| | 8/26/2009 | <10 | <0.5 | <0.5 | 1.6 | <0.5 | <0.5 |
| | 12/1/2009 | <10 | <0.5 | <0.5 | 2.2 | <0.5 | <0.5 |

# Table 2
## Historical Gasoline Oxygenates Results
## 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|---|---|---|---|---|---|---|---|
| **MW-3D** cont. | 3/16/2010 | <10 | <0.5 | <0.5 | 0.65 | <0.5 | <0.5 |
| | 6/4/2010 | <10 | <0.5 | <0.5 | 1.8 | <0.5 | <0.5 |
| | 9/1/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/3/2010 | <10 | <0.5 | <0.5 | 0.93 | <0.5 | <0.5 |
| | 3/3/2011 | <10 | <0.5 | <0.5 | 1.0 | <0.5 | <0.5 |
| | 5/19/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/8/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/1/2011 | <1.5 | <0.36 | <0.40 | 0.52 | <0.28 | <0.19 |
| | 3/2/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/6/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/20/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/13/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/27/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/10/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/16/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/5/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/13/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/5/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/22/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/23/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/19/2015 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/3/2015 | <2.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/10/2015 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **MW-4D** | 1/4/2008 | 25 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 1/22/2008 | 124 | <0.5 | 4.9 | 3.32 | <0.5 | <0.5 |
| | 4/15/2008 | 25.7 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 7/3/2008 | 3.38 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/16/2008 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 1/8/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 4/14/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 8/27/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/1/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/16/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/4/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/1/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/3/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/3/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 5/19/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/8/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/1/2011 | <1.5 | <0.36 | <0.40 | <0.32 | <0.28 | <0.19 |
| | 3/2/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/6/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/20/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/13/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/27/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/10/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/16/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/6/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/13/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/6/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/23/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/23/2014 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/19/2015 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/3/2015 | 4.8 J | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/10/2015 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **1573 153 RD** | 1/3/2008 | 21 | <0.5 | <0.5 | <2.0 | <0.5 | <2.0 |
| | 7/2/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/16/2008 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EB-PMP** | 1/21/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| **EB-PRB** | 1/21/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| **EB-PMP2** | 1/22/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| **EB-PRB2** | 1/22/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| **ESL** | | **12** | **NE** | **NE** | **NE** | **0.5** | **0.05** |

# Table 2
## Historical Gasoline Oxygenates Results
## 15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|---|---|---|---|---|---|---|---|

Notes:
August 8, 2002 was the first time that samples were analyzed for Gasoline Oxygenates
<: Not detected above the laboratory reporting limit.
NA: Not Analyzed. Well MW-8 was inaccessible during the 1Q05
& well MW-7 (1Q06) car was parked over each well.
NE: Not Established
TBA: tert-Butyl Alcohol
DIPE: Isopropyl Ether
ETBE: Ethyl tert-Butyl Ether
TAME: Methyl tert-Amyl Ether
ESL: Environmental Screening Levels per CRWQCB SFBay Region (Revised February 2016)
Tier 1 ESL (Groundwater Screening Levels (groundwater is a drinking water resource)
MW-8 and MW-9 were decommissioned November 13, 2009
FP: Groundwater not sampled due to presence of free-product in MW-6

# Appendix A

Standard Operating Procedures for
Conducting Groundwater Monitoring Activities

# Standard Operating Procedures for Conducting Groundwater Monitoring Activities

## Water Level and Free-Product Measurements

Prior to measurement of groundwater depth at each well, equalization with the surrounding aquifer must be achieved. Initially, the well cap is removed and the pressure is allowed to dissipate, creating a more stable water table level within the well. After about 10-15 minutes, once the water level in the well stabilizes, the depth to groundwater is measured from the top of the casing to the nearest 0.01 foot using an electric sounder.

For free-product (FP) measurement, an oil-water interface probe is used. When the probe is lowered into the FP, the oil/water light and beeper are continuously on at which point a reading for depth to FP is noted. The probe is lowered further into the well until the water signal is given (light flashes and beeps intermittently). Then the probe is carefully raised until the FP signal is given and the reading is noted. This gives the depth to interface of product and water.

## Purging and Field Measurements

Prior to sample collection, each well is purged using a battery-operated, 2-inch-diameter pump (Model ES-60 DC). During purging, groundwater is measured for parameters such as dissolved oxygen (DO), pH, temperature, electrical conductivity (EC), and oxygen-reduction potential (ORP) using a Hanna HI-9828 multi-parameter instrument. Turbidity is measured using a Hanna HI-98703 portable turbidimeter. The equipment is calibrated at the site using standard solutions and procedures provided by the manufacturer.

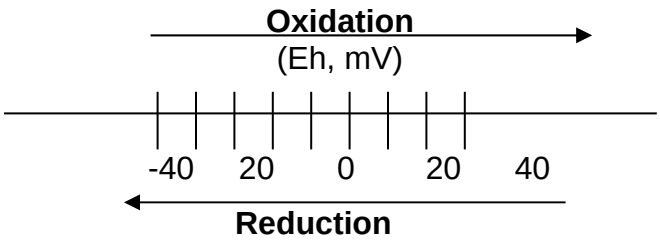
The pH of groundwater has an effect on the activity of microbial populations in the groundwater. The groundwater temperature affects the metabolic activity of bacteria. The groundwater EC is directly related to the concentration of total dissolved solids (TDS) in solution.

There is a strong correlation between the turbidity level and the biological oxygen demand of natural water bodies. The main purpose for checking the turbidity level is to provide a general overview of the extent of the suspended solids in the groundwater.

ORP is the measure of the potential for an oxidation or reduction process to occur. In the oxidation process, a molecule or ion loses one or several electrons. In the reduction process, a molecule or ion gains one or several electrons. The unit of the redox potential is the volt or millivolt. The most important redox reaction in petroleum-contaminated groundwater is the oxidation of petroleum hydrocarbons in the presence of bacteria and free molecular oxygen. Because the solubility of $O_2$ in water is low (9 mg/L at 25 $^{o}$C and 11 mg/L at 5 $^{o}$C), and

because the rate of $O_2$ replenishment in subsurface environments is limited, DO can be entirely consumed when the oxidation of only a small amount of petroleum hydrocarbons occurs.

Oxidation of petroleum hydrocarbons can still occur when all the dissolved $O_2$ in the groundwater is consumed; however, the oxidizing agents (i.e., the constituents that undergo reduction) now become $NO^-_3$, $MnO_2$, $Fe(OH)_3$, $SO_4^{2-}$ and others (Freeze and Cherry, 1979). As these oxidizing agents are consumed, the groundwater environment becomes more and more reduced. If the process advances far enough, the environment may become so strongly reduced that the petroleum hydrocarbons undergo anaerobic degradation, resulting in the production of methane and carbon dioxide. The concept of oxidation and reduction in terms of changes in oxidation states is illustrated below.




Purging of wells continues until the parameters for DO, pH, temperature, EC, turbidity, and redox stabilize, or three casing volumes are purged.

Once stabilization occurs, the groundwater samples are also tested on-site for ferrous iron ($Fe^{+2}$), nitrate ($NO_3^-$), and sulfate ($SO_4^{-2}$) concentrations.

$Fe^{+2}$, $NO_3^-$, and $SO_4^{-2}$ are measured colorimetrically using the Hach Colorimeter Model 890, a microprocessor-controlled photometer suitable for colorimetric testing in the laboratory or the field. The required reagents for each specific test are provided in AccuVac ampuls.

**Sampling**

For sampling purposes, after purging a disposable polyethylene bailer is used to collect sufficient samples from each monitoring well for laboratory analyses. Groundwater samples are transferred into 40-mL VOA vials and preserved with hydrochloric acid. The vials are sealed to prevent air bubbles from developing within the headspace. For TPH-d analysis, groundwater samples are collected using 1-L, amber, non-preserved glass containers. Samples are placed in an ice-filled cooler and maintained at 4°C. A chain of custody form for all samples is prepared to accompany the samples, which are promptly delivered to a California state-certified analytical laboratory.

# Appendix B

Elevations and Coordinates on Monitoring Wells, Field Measurements of Physical and Chemical Parameters of Groundwater Samples, and Groundwater Gradient Calculations

# *Harrington Surveys Inc.*

*Land Surveying & Mapping*

*2278 Larkey Lane, Walnut Creek, Ca. 94596 Phone (925)935-7228 Fax (925)935-5118*
*Cel (925)788-7359 E-Mail (ben5132@pacbell.net)*


**Soma Environmental Engineering**
**2680 Bishop Dr. # 203**
**San Ramon, Ca. 94583**

**Oct. 14, 2004**

**Attn: Elena Manzo**
**Job # 2445**

**Ref: 15101 Freedom Ave, San Leandro, Ca.**

**HORZONTAL CONTROL, NAD 88:**

**Survey based on California Coordinate System, Zone 3, NAD 83.**

**CHABOT "B', NORTH 2,087,731.02 EAST 6,094,039.23 sft. LAT. N37°43'02.71762" W122°07"00.46339", NAVD 88, ELEV. 134.957.**

**CHABOT "A", NORTH 2,088,584.99 EAST 6,093,351.39 sft. LAT. N37°43'11.04190" W122°07'09.20691", NAVD 88, ELEV. 492.08.**

**VERTICAL CONTROL, NAVD 88:**

**NGS 1974, STATION K 1256, NAVD 88 ELEV. 58.50.**
**PID # HT1871**

**GPS: TRIMBLE 5800, LEICA TCA 1800, 1" HORZ. & VERT.**

**EPOCH DATE 1998.5**

**OBSERVATION: EPOCH=180.**

**FIELD SURVEY: OCT. 11, 2004.**

**Ben Harrington**
**PLS 5132**

SURVEY REPORT
15101 FREEDOM AVE
SAN LEANDRO, CA.

*HARRINGTON SURVEYS INC.*
*2278 LARKEY LANE*
*WALNUT CREEK, CA. 94597*
*925-935-7228 FAX. 935-5118*

JOB NO. 2445
DATE: OCT. 12, 2004

| | NAD 83 | NAD 83 | NAVD 88 | | NORTH | WEST |
|---|---|---|---|---|---|---|
| PT | NORTH (sft) | EAST(sft) | ELEV. | DESCRIPTION | LATITUDE (DMS) | LONGITUDE (DMS) |
| 1 | 2087731.02 | 6094039.23 | 442.77 | FD CHABOT B | 37°43'02.71762" | 122°07'00.46339" |
| 2 | 2088584.99 | 6093351.39 | 492.08 | FD CHABOT A | 37°43'11.04190" | 122°07'09.20691" |
| 51 | 2084348.54 | 6092159.32 | 55.44 | FD. X-8 | | |
| 52 | 2084073.17 | 6092141.24 | 46.15 | MW-6 PAV | | |
| 53 | 2084072.72 | 6092140.95 | 46.15 | MW-6 PUNCH | | |
| 54 | 2084072.47 | 6092140.95 | 45.82 | MW-6 NOTCH | 37°42'26.22635" | 122°07'23.29643 |
| 55 | 2083909.71 | 6091947.10 | 40.61 | MW-9 PAV | | |
| 56 | 2083909.10 | 6091946.97 | 40.61 | MW-9 PUNCH | | |
| 57 | 2083908.71 | 6091947.00 | 40.26 | MW-9 NOTCH | 37°42'24.57425" | 122°07'25.67431" |
| 58 | 2083861.20 | 6092118.11 | 41.38 | MW-8 PAV | | |
| 59 | 2083860.43 | 6092118.36 | 41.44 | MW-8 PUNCH | | |
| 60 | 2083860.03 | 6092118.52 | 41.14 | MW-8 NOTCH | 37°42'24.12245" | 122°07'23.52966" |
| 61 | 2084008.21 | 6092290.11 | 44.94 | MW-7 PAV | | |
| 62 | 2084007.88 | 6092290.27 | 44.95 | MW-7 PVNCH | | |
| 63 | 2084007.68 | 6092290.40 | 44.74 | MW-7 NOTCH | 37°42'25.61150" | 122°07'21.42290" |
| 64 | 2084206.49 | 6092175.95 | 51.03 | MW-5 PAV | | |
| 65 | 2084206.17 | 6092176.55 | 50.96 | MW-5 PUNCH | | |
| 66 | 2084206.01 | 6092176.79 | 50.53 | MW-5 NOTCH | 37°42'27.55260 | 122°07'22.87930 |
| 67 | 2084670.41 | 6092307.68 | 69.79 | FD BM FAIR580 | | |
| 68 | 2084443.65 | 6092198.88 | 53.70 | MW-4 PAV | | |
| 69 | 2084444.39 | 6092199.72 | 53.74 | MW-4 PUNCH | | |
| 70 | 2084444.59 | 6092199.51 | 53.31 | MW-4 NOTCH | 37°42'29.91496" | 122°07'22.64809" |
| 71 | 2084399.10 | 6092145.43 | 54.37 | MW-3 PAV | | |
| 72 | 2084399.78 | 6092145.28 | 54.33 | MW-3 PUNCH | | |
| 73 | 2084400.15 | 6092145.27 | 53.91 | MW-3 NOTCH | 37°42'29.46636" | 122°07'23.31339" |
| 74 | 2084329.47 | 6092199.72 | 54.82 | MW-1 PAV | | |
| 75 | 2084330.44 | 6092199.45 | 54.79 | MW-1 PUNCH | | |
| 76 | 2084330.75 | 6092199.20 | 54.46 | MW-1 NOTCH | 37°42'28.78955" | 122°07'22.62738" |
| 77 | 2084367.59 | 6092256.38 | 52.88 | MW-2 PAV | | |
| 78 | 2084368.15 | 6092256.14 | 52.92 | MW-2 PUNCH | | |
| 79 | 2084368.53 | 6092256.06 | 52.41 | MW-2 NOTCH | 37°42'29.17277" | 122°07'21.92804" |
| 80 | 2084930.49 | 6091759.33 | 58.50 | FD BM K1256 | 37°42'34.64279" | 122°07'28.23011" |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

DATE: 1/08/2008
JOB NUMBER 0208101
DATE OF SURVEY 1/03/08
INSTRUMENT LIECA SR520

TABLE OF ELEVATIONS & COORDINATES
ON MONITORING WELLS
SOMA ENVIRONMENTAL, PROJECT 15101 FREEDOM DRIVE - SAN LEANDRO

| WELL ID# | NORTHING (ft.)<br>LATITUDE | EASTING (ft.)<br>LONGITUDE | ELEVATION (ft.) | DESCRIPTION |
|---|---|---|---|---|
| MW-1D | 2084371.23 | 6092127.90 | 54.42 | MW-1D NOTCH |
| | 37.708104856 | 122.123200912 | 54.94 | MW-1D RIM |
| | 37º 42' 29.1" N | 122º 07' 23" W | 54.74 | PAVEMENT |
| | | | | |
| MW-3D | 2084303.98 | 6092183.53 | 54.10 | MW-3D NOTCH |
| | 37.707922851 | 122.123004590 | 54.56 | MW-3D RIM |
| | 37º 42' 28.5" N | 122º 07' 22" W | 54.47 | PAVEMENT |
| | | | | |
| MW-4D | 2084222.77 | 6092116.37 | 53.12 | MW-4D NOTCH |
| | 37.707696648 | 122.123231858 | 53.37 | MW-4D RIM |
| | 37º 42' 27.7" N | 122º 07' 23" W | 53.39 | PAVEMENT |
| | | | | |

BENCH MARK: NGS BENCH MARK NO. HT1871

3.0 KM (1.85 MI) NORTH FROM SAM LORENZO. 1.85 MILES NORTH ALONG INTERSTATE HIGHWAY 580 FROM THE JUNCTION OF STATE HIGHWAY 238 IN SAN LORENZO, IN THE WEST CORNER OF THE CROSSING OF 150TH AVENUE, IN TOP OF THE CONCRETE BRIDGE DECK, 15.5 FEET NORTHWEST OF THE SOUTHWEST BOUND LANES OF THE AVENUE, 10.9 FEET NORTHEAST OF THE SOUTH CORNER OF THE SOUTHWEST END OF THE NORTHWEST CONCRETE GUARDRAIL, 0.7 FOOT NORTHEAST OF THE SOUTHWEST EDGE OF THE DECK, 0.9 FOOT SOUTHEAST OF THE NORTHWEST CONCRETE GUARDRAIL, AND ABOUT LEVEL WITH THE HIGHWAY.

ELEVATION = 58.50 NAVD 88 DATUM

HORIZONTAL AND VERTICAL CONTROL BASED ON HARRINGTON SURVEY DATED 10-12-2004

FD CHABOT A, CALIFORNIA STATE PLAIN COORDINATE SYSTEM, NAD 83, ZONE 3. NORTH 2,088,584.99 EAST 6,093,351.39. LAT N 37º43'11.04190" LONG W 122º07'09.20691", ELEVATION 492.08 NAVD 88.

FD CHABOT B, CALIFORNIA STATE PLAIN COORDINATE SYSTEM, NAD 83, ZONE 3. NORTH 2,087,731.02 EAST 6,094,039.23. . LAT N 37º43'02.71762" LONG W 122º07'00.46339", ELEVATION 442.77 NAVD 88.

DATE: 12/11/2009

JOB# 09039

# TABLE OF ELEVATIONS & COORDINATES
## ON MONITORING WELLS

SOMA ENVIRONMENTAL ENGINEERING
15101 FREEDOM AVENUE
SAN LEANDRO, CA 94579

| WELL ID # | NORTHING (FT.) / LATITUDE (D.DEG.) | EASTING (FT.) / LONGITUDE (D.DEG.) | ELEVATION (FT.) | DESCRIPTION |
|---|---|---|---|---|
| EX-1 | 2084135.454 | 6092163.720 | 47.36 | 4" PVC NOTCH NORTH SIDE |
| | 37.707459134 | 122.123062972 | 47.61 | SET PUNCH NORTH SIDE RIM |
| | | | 47.60 | PAVEMENT NORTH SIDE |
| EX-2 | 2084082.018 | 6092130.224 | 45.96 | 4" PVC NOTCH NORTH SIDE |
| | 37.707310806 | 122.123175540 | 47.04 | SET PUNCH NORTH SIDE RIM |
| | | | 47.00 | CONCRETE NORTH SIDE |
| MPE-1 | 2084213.168 | 6092125.258 | 51.96 | 4" PVC NOTCH NORTH SIDE |
| | 37.707670702 | 122.123200567 | 52.49 | SET PUNCH NORTH SIDE RIM |
| | | | 52.51 | CONCRETE NORTH SIDE |
| MPE-2 | 2084293.133 | 6092171.374 | 53.72 | 4" PVC NOTCH NORTH SIDE |
| | 37.707892479 | 122.123045970 | 54.29 | SET PUNCH NORTH SIDE RIM |
| | | | 54.27 | PAVEMENT NORTH SIDE |

HORIZONTAL AND VERTICAL CONTROL
SURVEY BASED ON PREVIOUS SURVEY BY HARRINGTON SURVEY INC. DATED: 2/21/2008
COORDINATE VALUES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE 3, NAD83.
ELEVATIONS ARE NAVD 88 DATUM.

MW-2, PUNCH
NORTHING 2,084323.44, EASTING 6,092063.77, ELEVATION 52.92

MW-4 PUNCH
NORTHING 2,084250.55, EASTING 6,092124.46, ELEVATION 53.74

EQUIPMENT USED: TRIMBLE S6

**Edgis Land Surveying**
Land Surveying and mapping
1374 Garland Avenue, Clovis, CA 93612
Phone (559) 906-3554 Fax (559) 292-0560
email: edgis@aol.com

PROFESSIONAL LAND SURVEYOR
EDUARDO A. ESPINOZA
EXP. 9/30/10
No. L 6772
STATE OF CALIFORNIA

DATE: 9/27/2014
JOB#

# TABLE OF ELEVATIONS & COORDINATES ON MONITORING WELLS

SOMA ENVIRONMENTAL ENGINEERING
15101 FREEDOM AVENUE
SAN LEANDRO, CA 94579

| WELL ID # | NORTHING (FT.) / LATITUDE (D.DEG.) | EASTING (FT.) / LONGITUDE (D.DEG.) | ELEVATION (FT.) | DESCRIPTION |
|---|---|---|---|---|
| MW-10 | 2083967.378 | 6092174.688 | 44.66 | 2" PVC NOTCH NORTH SIDE |
| | 37.706998127N | 122.123014988W | 45.08 | PUNCH NORTH SIDE RIM |
| | | | 44.98 | GROUNDNORTH SIDE |
| MW-11 | 2083923.210 | 6092215.039 | 42.45 | 2" PVC NOTCH NORTH SIDE |
| | 37.706878766N | 122.122872877W | 42.83 | PUNCH NORTH SIDE RIM |
| | | | 42.84 | PAVEMENT NORTH SIDE |

HORIZONTAL AND VERTICAL CONTROL
SURVEY BASED ON PREVIOUS SURVEY BY EDGIS LAND SURVEYING DATED: 12/11/2009
COORDINATE VALUES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE 3, NAD83.
ELEVATIONS ARE NAVD 88 DATUM.

EX-1, PUNCH
NORTHING 2,084,135.63, EASTING 6,092,163.63, ELEVATION 47.61

EX-2, PUNCH
NORTHING 2,084,082, EASTING 6,092,129.99, ELEVATION 47.04

EQUIPMENT USED: TRIMBLE S6


9/27/14

**EDGIS LAND SURVEYING**
Land Surveying and mapping
**2519 W. Shaw** Avenue, Ste. 111
Fresno, CA 93711
Phone (559) 803-2679 Fax (559) 823-9037
email: edgis@aol.com

DATE: 5/07/2016
JOB#

# TABLE OF ELEVATIONS & COORDINATES ON MONITORING WELLS

SOMA ENVIRONMENTAL ENGINEERING
15101 FREEDOM AVENUE
SAN LEANDRO, CA 94579

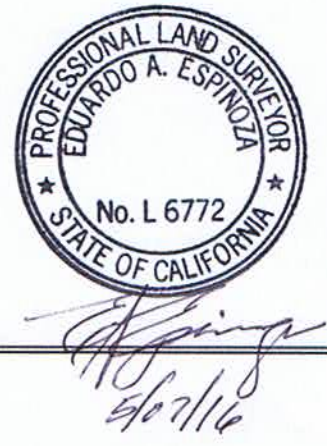
| WELL ID # | NORTHING (FT.) / LATITUDE (D.DEG.) | EASTING (FT.) / LONGITUDE (D.DEG.) | ELEVATION (FT.) | DESCRIPTION |
|---|---|---|---|---|
| MW-10R | 2083967.610 | 6092174.730 | 45.13 | 4.5" PVC NOTCH NORTH SIDE |
| | 37.706998767N | 122.123014857W | 45.38 | PUNCH NORTH SIDE RIM |
| | | | 45.10 | GROUND NORTH SIDE |

HORIZONTAL AND VERTICAL CONTROL
SURVEY BASED ON PREVIOUS SURVEY BY EDGIS LAND SURVEYING DATED: 9/14/2014
COORDINATE VALUES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE 3, NAD83.
ELEVATIONS ARE NAVD 88 DATUM.

EX-2, PUNCH
NORTHING 2,084,082.266, EASTING 6,092,129.987, ELEVATION 47.04

MW-11, PUNCH
NORTHING 2,083,923.462, EASTING 6,092,214.817, ELEVATION 42.83

EQUIPMENT USED: TRIMBLE S6




5/07/16

**EDGIS LAND SURVEYING**
Land Surveying and Mapping
2519 W. Shaw Avenue, Ste. 111
Fresno, CA 93711
Phone (559) 803-2679
email: edgis@aol.com

ENVIRONMENTAL ENGINEERING, INC

| | | | |
|---|---|---|---|
| **Well No.:** | MW-1 | **Project No.:** | 2551 |
| **Casing Diameter:** | 4 inches | **Address:** | 15101 Freedom Ave. |
| **Depth of Well:** | 29.90 feet | | San Leandro, CA |
| **Top of Casing Elevation:** | 54.46 feet | **Date:** | June 15 , 2016 |
| **Depth to Groundwater:** | 21.41 feet | **Sampler:** | Davoud Bazrpash |
| **Groundwater Elevation:** | 33.05 feet | | Mansour Sepehr |
| **Water Column Height:** | 8.49 feet | | |
| **Purged Volume:** | 4 gallons | | |

**Purging Method:** **Bailer** ☐ **Pump** ☑

**Sampling Method:** **Bailer** ☑ **Pump** ☐

**Color:** **Yes** ☐ **No** ☑ **Describe:** _____

**Sheen:** **Yes** ☐ **No** ☑ **Describe:** _____

**Odor:** **Yes** ☐ **No** ☑ **Describe:** _____

**Field Measurements:**

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|---|---|---|---|---|---|---|---|
| 11:10 | 1 | | 7.04 | 21.1 | 635 | | |
| 11:15 | 2 | | 6.70 | 21.0 | 569 | | |
| 11:18 | 4 | | 6.68 | 20.7 | 539 | | |
| 11:22 | Sampled | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

ENVIRONMENTAL ENGINEERING, INC

| | | | |
|---|---|---|---|
| **Well No.:** | MW-2 | **Project No.:** | 2551 |
| **Casing Diameter:** | 4 inches | **Address:** | 15101 Freedom Ave. |
| **Depth of Well:** | 30.15 feet | | San Leandro, CA |
| **Top of Casing Elevation:** | 52.41 feet | **Date:** | June 15 , 2016 |
| **Depth to Groundwater:** | 18.91 feet | **Sampler:** | Davoud Bazrpash |
| **Groundwater Elevation:** | 33.50 feet | | Mansour Sepehr |
| **Water Column Height:** | 11.24 feet | | |
| **Purged Volume:** | 5 gallons | | |

**Purging Method:** Bailer ☐ Pump ☑

**Sampling Method:** Bailer ☑ Pump ☐

**Color:** Yes ☐ No ☑ **Describe:** _____

**Sheen:** Yes ☐ No ☑ **Describe:** _____

**Odor:** Yes ☑ No ☐ **Describe:** minor petro

**Field Measurements:**

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|---|---|---|---|---|---|---|---|
| 10:44 | 1.5 | | 6.9 | 21.1 | 785 | | |
| 10:45 | 2.5 | | 6.61 | 19.7 | 710 | | |
| 10:50 | 5.0 | | 6.62 | 19.8 | 634 | | |
| 10:55 | Sampled | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

ENVIRONMENTAL ENGINEERING, INC

| | | | |
|---|---|---|---|
| **Well No.:** | MW-3 | **Project No.:** | 2551 |
| **Casing Diameter:** | 4 inches | **Address:** | 15101 Freedom Ave. |
| **Depth of Well:** | 29.90 feet | | San Leandro, CA |
| **Top of Casing Elevation:** | 53.91 feet | **Date:** | June 16, 2016 |
| **Depth to Groundwater:** | 20.78 feet | **Sampler:** | Davoud Bazrpash |
| **Groundwater Elevation:** | 33.13 feet | | Mansour Sepehr |
| **Water Column Height:** | 9.12 feet | | |
| **Purged Volume:** | 5 gallons | | |

**Purging Method:** Bailer ☐ Pump ☑

**Sampling Method:** Bailer ☑ Pump ☐

**Color:** Yes ☐ No ☑ **Describe:** _____

**Sheen:** Yes ☑ No ☐ **Describe:** rainbow

**Odor:** Yes ☑ No ☐ **Describe:** petro

**Field Measurements:**

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|---|---|---|---|---|---|---|---|
| 3:14 | 1.5 | | 6.47 | 29.1 | 1044 | | |
| 3:15 | 3 | | 6.44 | 24.1 | 955 | | |
| 3:17 | 5 | | 6.38 | 23.0 | 949 | | |
| 3:21 | Sampled | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

ENVIRONMENTAL ENGINEERING, INC

| | | | |
|---|---|---|---|
| **Well No.:** | MW-4 | **Project No.:** | 2551 |
| **Casing Diameter:** | 4 inches | **Address:** | 15101 Freedom Ave. |
| **Depth of Well:** | 30.20 feet | | San Leandro, CA |
| **Top of Casing Elevation:** | 53.31 feet | **Date:** | June 16 , 2016 |
| **Depth to Groundwater:** | 19.84 feet | **Sampler:** | Davoud Bazrpash |
| **Groundwater Elevation:** | 33.47 feet | | Mansour Sepehr |
| **Water Column Height:** | 10.36 feet | | |
| **Purged Volume:** | 6 gallons | | |

**Purging Method:** Bailer ☐ Pump ☑

**Sampling Method:** Bailer ☑ Pump ☐

**Color:** Yes ☑ No ☐ **Describe:** Cloudy

**Sheen:** Yes ☐ No ☑ **Describe:**

**Odor:** Yes ☐ No ☑ **Describe:**

**Field Measurements:**

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|---|---|---|---|---|---|---|---|
| 13:38 | 2 | | 6.37 | 22.5 | 921 | | |
| 13:40 | 4 | | 6.45 | 21.5 | 927 | | |
| 13:42 | 6 | | 6.67 | 24.3 | 926 | | |
| 13:50 | Sampled | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

ENVIRONMENTAL ENGINEERING, INC

| | | | |
|---|---|---|---|
| **Well No.:** | MW-5 | **Project No.:** | 2551 |
| **Casing Diameter:** | 4 inches | **Address:** | 15101 Freedom Ave. |
| **Depth of Well:** | 29.80 feet | | San Leandro, CA |
| **Top of Casing Elevation:** | 50.53 feet | **Date:** | June 16 , 2016 |
| **Depth to Groundwater:** | 17.10 feet | **Sampler:** | Davoud Bazrpash |
| **Groundwater Elevation:** | 33.43 feet | | Mansour Sepehr |
| **Water Column Height:** | 12.7 feet | | |
| **Purged Volume:** | 6 gallons | | |

**Purging Method:** **Bailer** ☐ **Pump** ☑

**Sampling Method:** **Bailer** ☑ **Pump** ☐

**Color:** **Yes** ☐ **No** ☑ **Describe:** _____

**Sheen:** **Yes** ☐ **No** ☑ **Describe:** _____

**Odor:** **Yes** ☑ **No** ☐ **Describe:** petro

**Field Measurements:**

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|---|---|---|---|---|---|---|---|
| 10:30 | 2 | | 6.78 | 23.1 | 859 | | |
| 10:32 | 4 | | 6.80 | 22.2 | 843 | | |
| 10:34 | 6 | | 6.81 | 22.0 | 844 | | |
| 10:42 | Sampled | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

ENVIRONMENTAL ENGINEERING, INC

| | | | |
|---|---|---|---|
| **Well No.:** | MW-6 | **Project No.:** | 2551 |
| **Casing Diameter:** | 4 inches | **Address:** | 15101 Freedom Ave. |
| **Depth of Well:** | 27.30 feet | | San Leandro, CA |
| **Top of Casing Elevation:** | 45.82 feet | **Date:** | June 16 , 2016 |
| **Depth to Groundwater:** | 14.38 feet | **Sampler:** | Davoud Bazrpash |
| **Groundwater Elevation:** | 31.44 feet | | Mansour Sepehr |
| **Water Column Height:** | 12.92 feet | | |
| **Purged Volume:** | 6 gallons | | |

**Purging Method:** **Bailer** ☐ **Pump** ☑

**Sampling Method:** **Bailer** ☑ **Pump** ☐

**Color:** **Yes** ☐ **No** ☑ **Describe:** _____

**Sheen:** **Yes** ☐ **No** ☑ **Describe:** _____

**Odor:** **Yes** ☑ **No** ☐ **Describe:** petro

**Field Measurements:**

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|---|---|---|---|---|---|---|---|
| 9:46 | 2 | | 6.69 | 22.4 | 811 | | |
| 9:48 | 4 | | 6.67 | 22.0 | 804 | | |
| 9:50 | 6 | | 6.69 | 21.9 | 803 | | |
| 10:02 | sampled | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

ENVIRONMENTAL ENGINEERING, INC

| | | | |
|---|---|---|---|
| **Well No.:** | MW-7 | **Project No.:** | 2551 |
| **Casing Diameter:** | 2 inches | **Address:** | 15101 Freedom Ave. |
| **Depth of Well:** | 21.00 feet | | San Leandro, CA |
| **Top of Casing Elevation:** | 44.74 feet | **Date:** | June 16 , 2016 |
| **Depth to Groundwater:** | 11.49 feet | **Sampler:** | Davoud Bazrpash |
| **Groundwater Elevation:** | 33.25 feet | | Mansour Sepehr |
| **Water Column Height:** | 9.51 feet | | |
| **Purged Volume:** | 5 gallons | | |

**Purging Method:** **Bailer** ☐ **Pump** ☑

**Sampling Method:** **Bailer** ☑ **Pump** ☐

**Color:** **Yes** ☑ **No** ☐ **Describe:** Cloudy

**Sheen:** **Yes** ☐ **No** ☑ **Describe:**

**Odor:** **Yes** ☐ **No** ☑ **Describe:**

**Field Measurements:**

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|---|---|---|---|---|---|---|---|
| 9:06 | 2 | | 6.50 | 19.9 | 992 | | |
| 9:08 | 4 | | 6.55 | 19.5 | 987 | | |
| 9:10 | 6 | | 6.53 | 19.2 | 967 | | |
| 9:18 | Sampled | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

ENVIRONMENTAL ENGINEERING, INC

| | | | |
|---|---|---|---|
| **Well No.:** | MW-10R | **Project No.:** | 2551 |
| **Casing Diameter:** | 4 inches | **Address:** | 15101 Freedom Ave. |
| **Depth of Well:** | 26.42 feet | | San Leandro, CA |
| **Top of Casing Elevation:** | 45.13 feet | **Date:** | June 15 , 2016 |
| **Depth to Groundwater:** | 13.60 feet | **Sampler:** | Davoud Bazrpash |
| **Groundwater Elevation:** | 31.53 feet | | Mansour Sepehr |
| **Water Column Height:** | 12.82 feet | | |
| **Purged Volume:** | 6 gallons | | |

**Purging Method:** **Bailer** ☐ **Pump** ☑

**Sampling Method:** **Bailer** ☑ **Pump** ☐

**Color:** **Yes** ☐ **No** ☑ **Describe:** _____

**Sheen:** **Yes** ☐ **No** ☑ **Describe:** _____

**Odor:** **Yes** ☑ **No** ☐ **Describe:** petro

**Field Measurements:**

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|---|---|---|---|---|---|---|---|
| 4:50 | 2 | | 8.46 | 21.7 | 1086 | | |
| 4:52 | 4 | | 8.60 | 20.3 | 1076 | | |
| 4:54 | 6 | | 8.75 | 19.9 | 1059 | | |
| 5:03 | Sampled | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

ENVIRONMENTAL ENGINEERING, INC

| | | | |
|---|---|---|---|
| **Well No.:** | MW-11 | **Project No.:** | 2551 |
| **Casing Diameter:** | 2 inches | **Address:** | 15101 Freedom Ave. |
| **Depth of Well:** | 28.50 feet | | San Leandro, CA |
| **Top of Casing Elevation:** | 42.45 feet | **Date:** | June 16 , 2016 |
| **Depth to Groundwater:** | 10.51 feet | **Sampler:** | Davoud Bazrpash |
| **Groundwater Elevation:** | 31.94 feet | | Mansour Sepehr |
| **Water Column Height:** | 17.99 feet | | |
| **Purged Volume:** | 8 gallons | | |

**Purging Method:** **Bailer** ☐ **Pump** ☑

**Sampling Method:** **Bailer** ☑ **Pump** ☐

**Color:** **Yes** ☑ **No** ☐ **Describe:** Cloudy

**Sheen:** **Yes** ☐ **No** ☑ **Describe:** _____

**Odor:** **Yes** ☐ **No** ☑ **Describe:** _____

**Field Measurements:**

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|---|---|---|---|---|---|---|---|
| 8:24 | 2 | | 7.14 | 19.0 | 799 | | |
| 8:26 | 4 | | 6.83 | 18.5 | 795 | | |
| 8:28 | 6 | | 6.82 | 18.2 | 791 | | |
| 8:30 | 8 | | 6.81 | 18.0 | 780 | | |
| 8:40 | Sampled | | | | | | |
| | | | | | | | |
| | | | | | | | |

ENVIRONMENTAL ENGINEERING, INC

| | | | |
|---|---|---|---|
| **Well No.:** | EX-1 | **Project No.:** | 2551 |
| **Casing Diameter:** | 4 inches | **Address:** | 15101 Freedom Ave. |
| **Depth of Well:** | 29.20 feet | | San Leandro, CA |
| **Top of Casing Elevation:** | 47.36 feet | **Date:** | June 15 , 2016 |
| **Depth to Groundwater:** | 13.83 feet | **Sampler:** | Davoud Bazrpash |
| **Groundwater Elevation:** | 33.53 feet | | Mansour Sepehr |
| **Water Column Height:** | 15.37 feet | | |
| **Purged Volume:** | 6 gallons | | |

**Purging Method:** **Bailer** ☐ **Pump** ☑

**Sampling Method:** **Bailer** ☑ **Pump** ☐

**Color:** **Yes** ☐ **No** ☑ **Describe:** _____

**Sheen:** **Yes** ☐ **No** ☑ **Describe:** _____

**Odor:** **Yes** ☐ **No** ☑ **Describe:** _____

**Field Measurements:**

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|---|---|---|---|---|---|---|---|
| 11:45 | 2 | | 6.73 | 22.1 | 749 | | |
| 11:47 | 4 | | 6.76 | 21.0 | 731 | | |
| 11:49 | 6 | | 6.82 | 21.6 | 750 | | |
| 11:55 | Sampled | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

ENVIRONMENTAL ENGINEERING, INC

| | | | |
|---|---|---|---|
| **Well No.:** | EX-2 | **Project No.:** | 2551 |
| **Casing Diameter:** | 4 inches | **Address:** | 15101 Freedom Ave. |
| **Depth of Well:** | — feet | | San Leandro, CA |
| **Top of Casing Elevation:** | 45.96 feet | **Date:** | June 15, 2016 |
| **Depth to Groundwater:** | 14.0 feet | **Sampler:** | Davoud Bazrpash |
| **Groundwater Elevation:** | 31.96 feet | | Mansour Sepehr |
| **Water Column Height:** | - feet | | |
| **Purged Volume:** | - gallons | | |

**Purging Method:** **Bailer** ☐ **Pump** ☐

**Sampling Method:** **Bailer** ☐ **Pump** ☐

**Color:** **Yes** ☐ **No** ☐ **Describe:** Unknown

**Sheen:** **Yes** ☐ **No** ☐ **Describe:** Unknown

**Odor:** **Yes** ☐ **No** ☐ **Describe:** Unknown

**Field Measurements:**

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|---|---|---|---|---|---|---|---|
| Pump stuck in the well due to presence of a downhole pump for remediation system. Unable to obtain groundwater sample. | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

ENVIRONMENTAL ENGINEERING, INC

| | | | |
|---|---|---|---|
| **Well No.:** | MPE-1 | **Project No.:** | 2551 |
| **Casing Diameter:** | 4 inches | **Address:** | 15101 Freedom Ave. |
| **Depth of Well:** | 30.00 feet | | San Leandro, CA |
| **Top of Casing Elevation:** | 51.96 feet | **Date:** | June 16 , 2016 |
| **Depth to Groundwater:** | 18.45 feet | **Sampler:** | Davoud Bazrpash |
| **Groundwater Elevation:** | 33.51 feet | | Mansour Sepehr |
| **Water Column Height:** | 11.55 feet | | |
| **Purged Volume:** | 6 gallons | | |

**Purging Method:** **Bailer** ☐ **Pump** ☑

**Sampling Method:** **Bailer** ☑ **Pump** ☐

**Color:** **Yes** ☐ **No** ☑ **Describe:** _____

**Sheen:** **Yes** ☑ **No** ☐ **Describe:** rainbow

**Odor:** **Yes** ☐ **No** ☑ **Describe:** _____

**Field Measurements:**

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|---|---|---|---|---|---|---|---|
| 11:02 | 2 | | 7.00 | 22.8 | 777 | | |
| 11:04 | 4 | | 6.93 | 21.9 | 771 | | |
| 11:06 | 6 | | 6.93 | 21.2 | 777 | | |
| 11:14 | Sampled | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

ENVIRONMENTAL ENGINEERING, INC

| | | | |
|---|---|---|---|
| **Well No.:** | MPE-2 | **Project No.:** | 2551 |
| **Casing Diameter:** | 4 inches | **Address:** | 15101 Freedom Ave. |
| **Depth of Well:** | 30.00 feet | | San Leandro, CA |
| **Top of Casing Elevation:** | 53.72 feet | **Date:** | June 16 , 2016 |
| **Depth to Groundwater:** | 20.58 feet | **Sampler:** | Davoud Bazrpash |
| **Groundwater Elevation:** | 33.14 feet | | Mansour Sepehr |
| **Water Column Height:** | 9.42 feet | | |
| **Purged Volume:** | 4.5 gallons | | |

**Purging Method:** **Bailer** ☐ **Pump** ☑

**Sampling Method:** **Bailer** ☑ **Pump** ☐

**Color:** **Yes** ☐ **No** ☑ **Describe:** _____

**Sheen:** **Yes** ☑ **No** ☐ **Describe:** rainbow

**Odor:** **Yes** ☑ **No** ☐ **Describe:** petro

**Field Measurements:**

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|---|---|---|---|---|---|---|---|
| 2:33 | 1.5 | | 6.44 | 26.7 | 1108 | | |
| 2:34 | 3.0 | | 6.48 | 24.2 | 1115 | | |
| 2:35 | 4.5 | | 6.53 | 23.6 | 1102 | | |
| 2:41 | Sampled | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

EPA United States Environmental Protection Agency

# EPA On-line Tools for Site Assessment Calculation

**Hydraulic Gradient -- Magnitude and Direction**

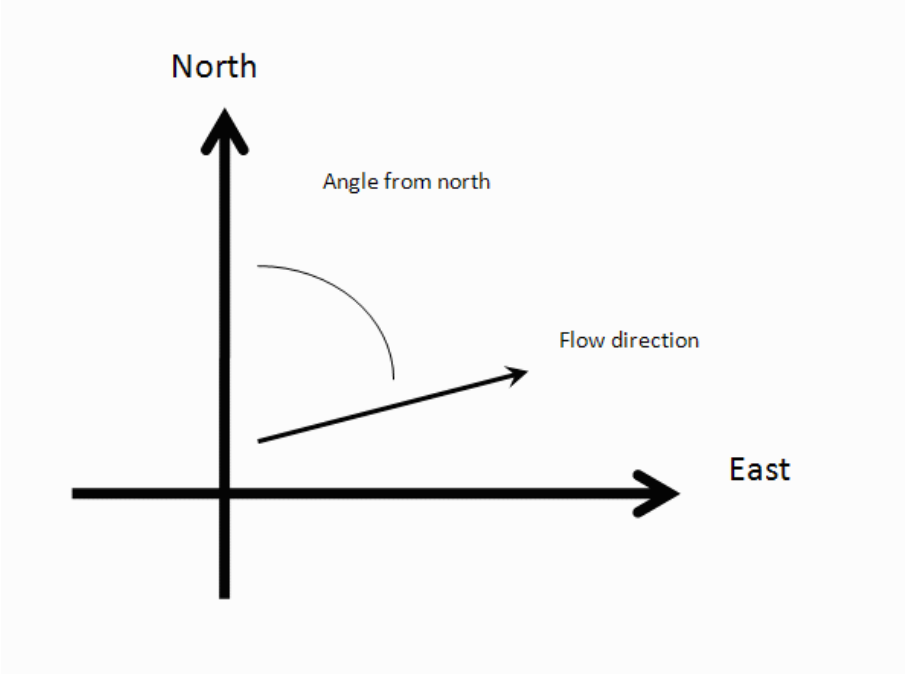
**Gradient Calculation** from fitting a plane to as many as thirty points

$a\,x_1 + b\,y_1 + c = h_1$
$a\,x_2 + b\,y_2 + c = h_2$
$a\,x_3 + b\,y_3 + c = h_3$
. . .
$a\,x_{30} + b\,y_{30} + c = h_{30}$

where $(x_i,y_i)$ are the coordinates of the well and
$h_i$ is the head

i = 1,2,3, ... , 30
The coefficients a, b, and c are calculated by a least-squares fitting of the the data to a plane

The gradient is calculated from the square root of $(a^2 + b^2)$ and the angle from the arctangent of a/b or b/a depending on the quadrant




**Inputs**

Example Data Set 1 | Example Data Set 2 | Calculate | Clear
Save Data | Recall Data | Go Back
Site Name: 15101 Freedom Ave, San L
Date: June 15, 2016 | Current Date
Calculation basis: Head
Coordinates: ft

| I.D. | | x-coordinate | y-coordinate | head ft |
|---|---|---|---|---|
| 1) | MW-1 | 6092119.016 | 2084364.691 | 33.05 |
| 2) | MW-2 | 6092063.978 | 2084323.224 | 33.5 |
| 3) | MW-3 | 6092176.317 | 2084298.343 | 33.13 |
| 4) | MW-4 | 6092124.294 | 2084251.598 | 33.47 |
| 5) | MW-5 | 6092177.071 | 2084206.361 | 33.43 |
| 6) | MW-6 | 6092140.881 | 2084072.911 | 31.44 |
| 7) | MW-7 | 6092290.918 | 2084008.071 | 33.25 |
| 8) | MW-10R | 6092182.374 | 2083967.53 | 31.53 |
| 9) | MW-11 | 6092224.568 | 2083926.493 | 31.94 |
| 10) | EX-1 | 6092163.5 | 2084133.982 | 33.53 |
| 11) | EX-2 | 6092131.08 | 2084082.713 | 31.96 |

| | | | | |
|---|---|---|---|---|
| 12) | MPE-1 | 6092125.048 | 2084212.393 | 33.51 |
| 13) | MPE-2 | 6092171.793 | 2084292.312 | 33.14 |
| 14) | | | | |
| 15) | | | | |
| 16) | | | | |
| 17) | | | | |
| 18) | | | | |
| 19) | | | | |
| 20) | | | | |
| 21) | | | | |
| 22) | | | | |
| 23) | | | | |
| 24) | | | | |
| 25) | | | | |
| 26) | | | | |
| 27) | | | | |
| 28) | | | | |
| 29) | | | | |
| 30) | | | | |

**Results**

| | |
|---|---|
| Number of Points Used in Calculation | 13 |
| Max. Difference Between Head Values | 0.6370 |
| Gradient Magnitude (i) | 0.008375 |
| Flow direction as degrees from North (positive y axis) | 230.7 |
| Coefficient of Determination ($R^2$) | 0.566 |

WCMS

Last updated on 2/21/2016

# Appendix C

Laboratory Reports and Chain of Custody Forms
for the Second Quarter 2016 Monitoring Event

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

**Laboratory Job Number 277775**
**ANALYTICAL REPORT**

SOMA Environmental Engineering Inc.
6620 Owens Dr.
Pleasanton, CA 94588

Project : 2551
Location : 15101 Freedom Avenue San Leandro
Level : II

| Sample ID | Lab ID |
|---|---|
| MW-1 | 277775-001 |
| MW-2 | 277775-002 |
| MW-3 | 277775-003 |
| MW-4 | 277775-004 |
| MW-5 | 277775-005 |
| MW-6 | 277775-006 |
| MW-7 | 277775-007 |
| MW-10R | 277775-008 |
| MW-11 | 277775-009 |
| EX-1 | 277775-010 |
| MPE_1 | 277775-011 |
| MPE_2 | 277775-012 |

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

Signature: Tracy Babjar Date: 06/23/2016

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

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

# CASE NARRATIVE

| | |
|---|---|
| Laboratory number: | **277775** |
| Client: | **SOMA Environmental Engineering Inc.** |
| Project: | **2551** |
| Location: | **15101 Freedom Avenue San Leandro** |
| Request Date: | **06/17/16** |
| Samples Received: | **06/17/16** |

This data package contains sample and QC results for twelve water samples, requested for the above referenced project on 06/17/16. The samples were received cold and intact.

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

# CHAIN OF CUSTODY



**Curtis & Tompkins, Ltd.**
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

C&T LOGIN # 277775

**Sampler:** Davoud Bazrpash

**Project No:** 2551

**Report To:** Joyce Bobek

**Project Name:** 15101 Freedom Ave.,San Leandro

**Company :** SOMA Environmental

**Turnaround Time:** Standard

**Telephone:** 925-734-6400

**Fax:** 925-734-6401

| Lab No. | Sample ID. | Sampling Date Time | Matrix: Soil | Water | Waste | | # of Containers | Preservative: HCL | $H_2SO_4$ | $HNO_3$ | ICE | | Analyses: TPHg, BTEX, MtBE 8260B | Gasoline Oxygenates & Lead Scavengers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-1 | 6/15/16 11:22 | | * | | | 3-VOAs | * | | | * | | * | * |
| 2 | MW-2 | 6/15/16 10:55 | | * | | | 3-VOAs | * | | | * | | * | * |
| 3 | MW-3 | 6/16/16 3:21 | | * | | | 3-VOAs | * | | | * | | * | * |
| 4 | MW-4 | 6/16/16 1:50 | | * | | | 3-VOAs | * | | | * | | * | * |
| 5 | MW-5 | 6/16/16 10:42 | | * | | | 3-VOAs | * | | | * | | * | * |
| 6 | MW-6 | 6/16/16 10:22 | | * | | | 3-VOAs | * | | | * | | * | * |
| 7 | MW-7 | 6/16/16 9:18 | | * | | | 3-VOAs | * | | | * | | * | * |
| 8 | MW-10R | 6/15/16 5:03 | | * | | | 3-VOAs | * | | | * | | * | * |
| 9 | MW-11 | 6/16/16 8:40 | | * | | | 3-VOAs | * | | | * | | * | * |
| 10 | EX-1 | 6/15/16 11:55 | | * | | | 3-VOAs | * | | | * | | * | * |
| | ~~EX-2~~ | | | * | | | 3-VOAs | * | | | * | | * | * |
| 11 | MPE-1 | 6/16/16 11:14 | | * | | | 3-VOAs | * | | | * | | * | * |
| 12 | MPE-2 | 6/16/16 2:41 | | * | | | 3-VOAs | * | | | * | | * | * |
| | | | | | | | | | | | | | | |

**Notes:** **EDF OUTPUT REQUIRED**
Ethanol

| RELINQUISHED BY: | RECEIVED BY: |
|---|---|
| 6/17/16 8137 DATE/TIME | 6.17.16@ 837 DATE/TIME |
| 6/17/16@1510 DATE/TIME | dnguyen 6.17.16@ 1510 DATE/TIME |
| DATE/TIME | DATE/TIME |

**COOLER RECEIPT CHECKLIST**

Curtis & Tompkins, Ltd.

Login # 277775 Date Received 6/17/16 Number of coolers 1
Client SOMA Environmental Project 15101 Freedom Ave.

Date Opened 6/17 By (print) CB (sign) [signature]
Date Logged in ↓ By (print) DTN (sign) [signature]
Date Labelled ↓ By (print) CJN (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) 13.1

☐ Temperature blank(s) included? ☐ Thermometer# ____ ☒ IR Gun# A

☐ 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? (pH strip lot# ____) 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 VOAs
1/3 received w/ bubble >6mm for sample 2
2/3 received w/ bubble >6mm for sample 4
VOA

Curtis & Tompkins, Ltd.

# Detections Summary for 277775

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

Client : SOMA Environmental Engineering Inc.
Project : 2551
Location : 15101 Freedom Avenue San Leandro

Client Sample ID : MW-1 Laboratory Sample ID : 277775-001

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 1,300 | | 50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| MTBE | 0.79 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Benzene | 37 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Ethylbenzene | 99 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| m,p-Xylenes | 9.3 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |

Client Sample ID : MW-2 Laboratory Sample ID : 277775-002

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 380 | | 50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |

Client Sample ID : MW-3 Laboratory Sample ID : 277775-003

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 10,000 | | 500 | ug/L | As Recd | 10.00 | EPA 8260B | EPA 5030B |
| tert-Butyl Alcohol (TBA) | 38 | | 10 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| MTBE | 1.7 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Benzene | 98 | | 5.0 | ug/L | As Recd | 10.00 | EPA 8260B | EPA 5030B |
| Toluene | 2.6 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Ethylbenzene | 250 | | 5.0 | ug/L | As Recd | 10.00 | EPA 8260B | EPA 5030B |
| m,p-Xylenes | 460 | | 5.0 | ug/L | As Recd | 10.00 | EPA 8260B | EPA 5030B |
| o-Xylene | 47 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |

Client Sample ID : MW-4 Laboratory Sample ID : 277775-004

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 120 | | 50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| tert-Butyl Alcohol (TBA) | 230 | | 10 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Ethyl tert-Butyl Ether (ETBE) | 4.7 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| MTBE | 4.1 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Benzene | 18 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Toluene | 0.75 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Ethylbenzene | 0.53 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |

Client Sample ID : MW-5 Laboratory Sample ID : 277775-005

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 520 | | 50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Benzene | 0.68 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |

Client Sample ID : MW-6 Laboratory Sample ID : 277775-006

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 2,900 | | 50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Benzene | 9.7 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Ethylbenzene | 18 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| m,p-Xylenes | 17 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |

Client Sample ID : MW-7 Laboratory Sample ID : 277775-007

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 2,400 | | 50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| MTBE | 1.4 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Ethylbenzene | 2.3 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |

Client Sample ID : MW-10R Laboratory Sample ID : 277775-008

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 28,000 | | 1,000 | ug/L | As Recd | 20.00 | EPA 8260B | EPA 5030B |
| Ethylbenzene | 720 | | 10 | ug/L | As Recd | 20.00 | EPA 8260B | EPA 5030B |
| m,p-Xylenes | 1,400 | | 10 | ug/L | As Recd | 20.00 | EPA 8260B | EPA 5030B |
| o-Xylene | 54 | | 10 | ug/L | As Recd | 20.00 | EPA 8260B | EPA 5030B |

Client Sample ID : MW-11 Laboratory Sample ID : 277775-009

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 100 | | 50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |

Client Sample ID : EX-1 Laboratory Sample ID : 277775-010

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 140 | | 50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Benzene | 9.1 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |

Curtis & Tompkins, Ltd.

Client Sample ID : MPE_1 Laboratory Sample ID : 277775-011

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 310 | | 50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Methyl tert-Amyl Ether (TAME) | 0.67 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| MTBE | 0.68 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Benzene | 8.6 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Ethylbenzene | 1.2 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| m,p-Xylenes | 6.8 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| o-Xylene | 9.3 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |

Client Sample ID : MPE_2 Laboratory Sample ID : 277775-012

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 13,000 | | 500 | ug/L | As Recd | 10.00 | EPA 8260B | EPA 5030B |
| tert-Butyl Alcohol (TBA) | 130 | | 100 | ug/L | As Recd | 10.00 | EPA 8260B | EPA 5030B |
| MTBE | 7.0 | | 5.0 | ug/L | As Recd | 10.00 | EPA 8260B | EPA 5030B |
| Benzene | 570 | | 5.0 | ug/L | As Recd | 10.00 | EPA 8260B | EPA 5030B |
| Ethylbenzene | 350 | | 5.0 | ug/L | As Recd | 10.00 | EPA 8260B | EPA 5030B |
| m,p-Xylenes | 330 | | 5.0 | ug/L | As Recd | 10.00 | EPA 8260B | EPA 5030B |
| o-Xylene | 21 | | 5.0 | ug/L | As Recd | 10.00 | EPA 8260B | EPA 5030B |

Curtis & Tompkins, Ltd.

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Field ID: | MW-1 | Diln Fac: | 1.000 |
| Lab ID: | 277775-001 | Sampled: | 06/15/16 |
| Matrix: | Water | Received: | 06/17/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Analyzed |
|---|---|---|---|---|
| Gasoline C7-C12 | 1,300 | 50 | 236213 | 06/20/16 |
| tert-Butyl Alcohol (TBA) | ND | 10 | 236213 | 06/20/16 |
| Isopropyl Ether (DIPE) | ND | 0.50 | 236213 | 06/20/16 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | 236213 | 06/20/16 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 | 236213 | 06/20/16 |
| Ethanol | ND | 1,000 | 236281 | 06/21/16 |
| MTBE | 0.79 | 0.50 | 236213 | 06/20/16 |
| 1,2-Dichloroethane | ND | 0.50 | 236213 | 06/20/16 |
| Benzene | 37 | 0.50 | 236213 | 06/20/16 |
| Toluene | ND | 0.50 | 236213 | 06/20/16 |
| 1,2-Dibromoethane | ND | 0.50 | 236213 | 06/20/16 |
| Ethylbenzene | 99 | 0.50 | 236213 | 06/20/16 |
| m,p-Xylenes | 9.3 | 0.50 | 236213 | 06/20/16 |
| o-Xylene | ND | 0.50 | 236213 | 06/20/16 |

| Surrogate | %REC | Limits | Batch# | Analyzed |
|---|---|---|---|---|
| Dibromofluoromethane | 89 | 80-128 | 236213 | 06/20/16 |
| 1,2-Dichloroethane-d4 | 102 | 75-139 | 236213 | 06/20/16 |
| Toluene-d8 | 104 | 80-120 | 236213 | 06/20/16 |
| Bromofluorobenzene | 95 | 80-120 | 236213 | 06/20/16 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Field ID: | MW-2 | Diln Fac: | 1.000 |
| Lab ID: | 277775-002 | Sampled: | 06/15/16 |
| Matrix: | Water | Received: | 06/17/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Analyzed |
|---|---|---|---|---|
| Gasoline C7-C12 | 380 | 50 | 236213 | 06/20/16 |
| tert-Butyl Alcohol (TBA) | ND | 10 | 236213 | 06/20/16 |
| Isopropyl Ether (DIPE) | ND | 0.50 | 236213 | 06/20/16 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | 236213 | 06/20/16 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 | 236213 | 06/20/16 |
| Ethanol | ND | 1,000 | 236281 | 06/21/16 |
| MTBE | ND | 0.50 | 236213 | 06/20/16 |
| 1,2-Dichloroethane | ND | 0.50 | 236213 | 06/20/16 |
| Benzene | ND | 0.50 | 236213 | 06/20/16 |
| Toluene | ND | 0.50 | 236213 | 06/20/16 |
| 1,2-Dibromoethane | ND | 0.50 | 236213 | 06/20/16 |
| Ethylbenzene | ND | 0.50 | 236213 | 06/20/16 |
| m,p-Xylenes | ND | 0.50 | 236213 | 06/20/16 |
| o-Xylene | ND | 0.50 | 236213 | 06/20/16 |

| Surrogate | %REC | Limits | Batch# | Analyzed |
|---|---|---|---|---|
| Dibromofluoromethane | 90 | 80-128 | 236213 | 06/20/16 |
| 1,2-Dichloroethane-d4 | 98 | 75-139 | 236213 | 06/20/16 |
| Toluene-d8 | 103 | 80-120 | 236213 | 06/20/16 |
| Bromofluorobenzene | 104 | 80-120 | 236213 | 06/20/16 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Field ID: | MW-3 | Units: | ug/L |
| Lab ID: | 277775-003 | Sampled: | 06/16/16 |
| Matrix: | Water | Received: | 06/17/16 |

| Analyte | Result | RL | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|
| Gasoline C7-C12 | 10,000 | 500 | 10.00 | 236280 | 06/21/16 |
| tert-Butyl Alcohol (TBA) | 38 | 10 | 1.000 | 236213 | 06/20/16 |
| Isopropyl Ether (DIPE) | ND | 0.50 | 1.000 | 236213 | 06/20/16 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | 1.000 | 236213 | 06/20/16 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 | 1.000 | 236213 | 06/20/16 |
| Ethanol | ND | 10,000 | 10.00 | 236280 | 06/21/16 |
| MTBE | 1.7 | 0.50 | 1.000 | 236213 | 06/20/16 |
| 1,2-Dichloroethane | ND | 0.50 | 1.000 | 236213 | 06/20/16 |
| Benzene | 98 | 5.0 | 10.00 | 236280 | 06/21/16 |
| Toluene | 2.6 | 0.50 | 1.000 | 236213 | 06/20/16 |
| 1,2-Dibromoethane | ND | 0.50 | 1.000 | 236213 | 06/20/16 |
| Ethylbenzene | 250 | 5.0 | 10.00 | 236280 | 06/21/16 |
| m,p-Xylenes | 460 | 5.0 | 10.00 | 236280 | 06/21/16 |
| o-Xylene | 47 | 0.50 | 1.000 | 236213 | 06/20/16 |

| Surrogate | %REC | Limits | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|
| Dibromofluoromethane | 89 | 80-128 | 1.000 | 236213 | 06/20/16 |
| 1,2-Dichloroethane-d4 | 101 | 75-139 | 1.000 | 236213 | 06/20/16 |
| Toluene-d8 | 101 | 80-120 | 1.000 | 236213 | 06/20/16 |
| Bromofluorobenzene | 88 | 80-120 | 1.000 | 236213 | 06/20/16 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Field ID: | MW-4 | Batch#: | 236280 |
| Lab ID: | 277775-004 | Sampled: | 06/16/16 |
| Matrix: | Water | Received: | 06/17/16 |
| Units: | ug/L | Analyzed: | 06/21/16 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | 120 | 50 |
| tert-Butyl Alcohol (TBA) | 230 | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | 4.7 | 0.50 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | 4.1 | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | 18 | 0.50 |
| Toluene | 0.75 | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | 0.53 | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 98 | 80-128 |
| 1,2-Dichloroethane-d4 | 96 | 75-139 |
| Toluene-d8 | 100 | 80-120 |
| Bromofluorobenzene | 103 | 80-120 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Field ID: | MW-5 | Batch#: | 236280 |
| Lab ID: | 277775-005 | Sampled: | 06/16/16 |
| Matrix: | Water | Received: | 06/17/16 |
| Units: | ug/L | Analyzed: | 06/21/16 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | 520 | 50 |
| tert-Butyl Alcohol (TBA) | ND | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | ND | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | 0.68 | 0.50 |
| Toluene | ND | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 100 | 80-128 |
| 1,2-Dichloroethane-d4 | 94 | 75-139 |
| Toluene-d8 | 100 | 80-120 |
| Bromofluorobenzene | 99 | 80-120 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Field ID: | MW-6 | Diln Fac: | 1.000 |
| Lab ID: | 277775-006 | Sampled: | 06/16/16 |
| Matrix: | Water | Received: | 06/17/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Analyzed |
|---|---|---|---|---|
| Gasoline C7-C12 | 2,900 | 50 | 236213 | 06/20/16 |
| tert-Butyl Alcohol (TBA) | ND | 10 | 236213 | 06/20/16 |
| Isopropyl Ether (DIPE) | ND | 0.50 | 236213 | 06/20/16 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | 236213 | 06/20/16 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 | 236213 | 06/20/16 |
| Ethanol | ND | 1,000 | 236281 | 06/21/16 |
| MTBE | ND | 0.50 | 236213 | 06/20/16 |
| 1,2-Dichloroethane | ND | 0.50 | 236213 | 06/20/16 |
| Benzene | 9.7 | 0.50 | 236213 | 06/20/16 |
| Toluene | ND | 0.50 | 236213 | 06/20/16 |
| 1,2-Dibromoethane | ND | 0.50 | 236213 | 06/20/16 |
| Ethylbenzene | 18 | 0.50 | 236213 | 06/20/16 |
| m,p-Xylenes | 17 | 0.50 | 236213 | 06/20/16 |
| o-Xylene | ND | 0.50 | 236213 | 06/20/16 |

| Surrogate | %REC | Limits | Batch# | Analyzed |
|---|---|---|---|---|
| Dibromofluoromethane | 83 | 80-128 | 236213 | 06/20/16 |
| 1,2-Dichloroethane-d4 | 81 | 75-139 | 236213 | 06/20/16 |
| Toluene-d8 | 100 | 80-120 | 236213 | 06/20/16 |
| Bromofluorobenzene | 99 | 80-120 | 236213 | 06/20/16 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Field ID: | MW-7 | Diln Fac: | 1.000 |
| Lab ID: | 277775-007 | Sampled: | 06/16/16 |
| Matrix: | Water | Received: | 06/17/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Analyzed |
|---|---|---|---|---|
| Gasoline C7-C12 | 2,400 | 50 | 236213 | 06/20/16 |
| tert-Butyl Alcohol (TBA) | ND | 10 | 236213 | 06/20/16 |
| Isopropyl Ether (DIPE) | ND | 0.50 | 236213 | 06/20/16 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | 236213 | 06/20/16 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 | 236213 | 06/20/16 |
| Ethanol | ND | 1,000 | 236281 | 06/21/16 |
| MTBE | 1.4 | 0.50 | 236213 | 06/20/16 |
| 1,2-Dichloroethane | ND | 0.50 | 236213 | 06/20/16 |
| Benzene | ND | 0.50 | 236213 | 06/20/16 |
| Toluene | ND | 0.50 | 236213 | 06/20/16 |
| 1,2-Dibromoethane | ND | 0.50 | 236213 | 06/20/16 |
| Ethylbenzene | 2.3 | 0.50 | 236213 | 06/20/16 |
| m,p-Xylenes | ND | 0.50 | 236213 | 06/20/16 |
| o-Xylene | ND | 0.50 | 236213 | 06/20/16 |

| Surrogate | %REC | Limits | Batch# | Analyzed |
|---|---|---|---|---|
| Dibromofluoromethane | 81 | 80-128 | 236213 | 06/20/16 |
| 1,2-Dichloroethane-d4 | 76 | 75-139 | 236213 | 06/20/16 |
| Toluene-d8 | 99 | 80-120 | 236213 | 06/20/16 |
| Bromofluorobenzene | 94 | 80-120 | 236213 | 06/20/16 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Field ID: | MW-10R | Batch#: | 236280 |
| Lab ID: | 277775-008 | Sampled: | 06/15/16 |
| Matrix: | Water | Received: | 06/17/16 |
| Units: | ug/L | Analyzed: | 06/22/16 |
| Diln Fac: | 20.00 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | 28,000 | 1,000 |
| tert-Butyl Alcohol (TBA) | ND | 200 |
| Isopropyl Ether (DIPE) | ND | 10 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 10 |
| Methyl tert-Amyl Ether (TAME) | ND | 10 |
| Ethanol | ND | 20,000 |
| MTBE | ND | 10 |
| 1,2-Dichloroethane | ND | 10 |
| Benzene | ND | 10 |
| Toluene | ND | 10 |
| 1,2-Dibromoethane | ND | 10 |
| Ethylbenzene | 720 | 10 |
| m,p-Xylenes | 1,400 | 10 |
| o-Xylene | 54 | 10 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 110 | 80-128 |
| 1,2-Dichloroethane-d4 | 131 | 75-139 |
| Toluene-d8 | 113 | 80-120 |
| Bromofluorobenzene | 96 | 80-120 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Field ID: | MW-11 | Diln Fac: | 1.000 |
| Lab ID: | 277775-009 | Sampled: | 06/16/16 |
| Matrix: | Water | Received: | 06/17/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Analyzed |
|---|---|---|---|---|
| Gasoline C7-C12 | 100 | 50 | 236213 | 06/20/16 |
| tert-Butyl Alcohol (TBA) | ND | 10 | 236213 | 06/20/16 |
| Isopropyl Ether (DIPE) | ND | 0.50 | 236213 | 06/20/16 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | 236213 | 06/20/16 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 | 236213 | 06/20/16 |
| Ethanol | ND | 1,000 | 236281 | 06/21/16 |
| MTBE | ND | 0.50 | 236213 | 06/20/16 |
| 1,2-Dichloroethane | ND | 0.50 | 236213 | 06/20/16 |
| Benzene | ND | 0.50 | 236213 | 06/20/16 |
| Toluene | ND | 0.50 | 236213 | 06/20/16 |
| 1,2-Dibromoethane | ND | 0.50 | 236213 | 06/20/16 |
| Ethylbenzene | ND | 0.50 | 236213 | 06/20/16 |
| m,p-Xylenes | ND | 0.50 | 236213 | 06/20/16 |
| o-Xylene | ND | 0.50 | 236213 | 06/20/16 |

| Surrogate | %REC | Limits | Batch# | Analyzed |
|---|---|---|---|---|
| Dibromofluoromethane | 82 | 80-128 | 236213 | 06/20/16 |
| 1,2-Dichloroethane-d4 | 80 | 75-139 | 236213 | 06/20/16 |
| Toluene-d8 | 98 | 80-120 | 236213 | 06/20/16 |
| Bromofluorobenzene | 98 | 80-120 | 236213 | 06/20/16 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Field ID: | EX-1 | Diln Fac: | 1.000 |
| Lab ID: | 277775-010 | Sampled: | 06/15/16 |
| Matrix: | Water | Received: | 06/17/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Analyzed |
|---|---|---|---|---|
| Gasoline C7-C12 | 140 | 50 | 236213 | 06/20/16 |
| tert-Butyl Alcohol (TBA) | ND | 10 | 236213 | 06/20/16 |
| Isopropyl Ether (DIPE) | ND | 0.50 | 236213 | 06/20/16 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | 236213 | 06/20/16 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 | 236213 | 06/20/16 |
| Ethanol | ND | 1,000 | 236281 | 06/21/16 |
| MTBE | ND | 0.50 | 236213 | 06/20/16 |
| 1,2-Dichloroethane | ND | 0.50 | 236213 | 06/20/16 |
| Benzene | 9.1 | 0.50 | 236213 | 06/20/16 |
| Toluene | ND | 0.50 | 236213 | 06/20/16 |
| 1,2-Dibromoethane | ND | 0.50 | 236213 | 06/20/16 |
| Ethylbenzene | ND | 0.50 | 236213 | 06/20/16 |
| m,p-Xylenes | ND | 0.50 | 236213 | 06/20/16 |
| o-Xylene | ND | 0.50 | 236213 | 06/20/16 |

| Surrogate | %REC | Limits | Batch# | Analyzed |
|---|---|---|---|---|
| Dibromofluoromethane | 83 | 80-128 | 236213 | 06/20/16 |
| 1,2-Dichloroethane-d4 | 81 | 75-139 | 236213 | 06/20/16 |
| Toluene-d8 | 94 | 80-120 | 236213 | 06/20/16 |
| Bromofluorobenzene | 97 | 80-120 | 236213 | 06/20/16 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Field ID: | MPE_1 | Batch#: | 236229 |
| Lab ID: | 277775-011 | Sampled: | 06/16/16 |
| Matrix: | Water | Received: | 06/17/16 |
| Units: | ug/L | Analyzed: | 06/20/16 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | 310 | 50 |
| tert-Butyl Alcohol (TBA) | ND | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 |
| Methyl tert-Amyl Ether (TAME) | 0.67 | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | 0.68 | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | 8.6 | 0.50 |
| Toluene | ND | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | 1.2 | 0.50 |
| m,p-Xylenes | 6.8 | 0.50 |
| o-Xylene | 9.3 | 0.50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 98 | 80-128 |
| 1,2-Dichloroethane-d4 | 96 | 75-139 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 99 | 80-120 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Field ID: | MPE_2 | Batch#: | 236229 |
| Lab ID: | 277775-012 | Sampled: | 06/16/16 |
| Matrix: | Water | Received: | 06/17/16 |
| Units: | ug/L | Analyzed: | 06/20/16 |
| Diln Fac: | 10.00 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | 13,000 | 500 |
| tert-Butyl Alcohol (TBA) | 130 | 100 |
| Isopropyl Ether (DIPE) | ND | 5.0 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 |
| Ethanol | ND | 10,000 |
| MTBE | 7.0 | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | 570 | 5.0 |
| Toluene | ND | 5.0 |
| 1,2-Dibromoethane | ND | 5.0 |
| Ethylbenzene | 350 | 5.0 |
| m,p-Xylenes | 330 | 5.0 |
| o-Xylene | 21 | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 98 | 80-128 |
| 1,2-Dichloroethane-d4 | 91 | 75-139 |
| Toluene-d8 | 100 | 80-120 |
| Bromofluorobenzene | 101 | 80-120 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 236213 |
| Units: | ug/L | Analyzed: | 06/20/16 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC839992

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 62.50 | 74.17 | 119 | 32-155 |
| Isopropyl Ether (DIPE) | 12.50 | 11.07 | 89 | 57-128 |
| Ethyl tert-Butyl Ether (ETBE) | 12.50 | 11.48 | 92 | 62-120 |
| Methyl tert-Amyl Ether (TAME) | 12.50 | 12.11 | 97 | 69-120 |
| MTBE | 12.50 | 10.99 | 88 | 65-120 |
| 1,2-Dichloroethane | 12.50 | 12.80 | 102 | 74-133 |
| Benzene | 12.50 | 13.59 | 109 | 80-123 |
| Toluene | 12.50 | 13.70 | 110 | 80-121 |
| 1,2-Dibromoethane | 12.50 | 13.19 | 106 | 80-120 |
| Ethylbenzene | 12.50 | 13.70 | 110 | 80-123 |
| m,p-Xylenes | 25.00 | 27.28 | 109 | 80-126 |
| o-Xylene | 12.50 | 13.15 | 105 | 80-126 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 91 | 80-128 |
| 1,2-Dichloroethane-d4 | 100 | 75-139 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 98 | 80-120 |

Type: BSD Lab ID: QC839993

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 62.50 | 76.57 | 123 | 32-155 | 3 | 33 |
| Isopropyl Ether (DIPE) | 12.50 | 11.10 | 89 | 57-128 | 0 | 20 |
| Ethyl tert-Butyl Ether (ETBE) | 12.50 | 11.92 | 95 | 62-120 | 4 | 20 |
| Methyl tert-Amyl Ether (TAME) | 12.50 | 12.16 | 97 | 69-120 | 0 | 20 |
| MTBE | 12.50 | 11.38 | 91 | 65-120 | 4 | 22 |
| 1,2-Dichloroethane | 12.50 | 12.71 | 102 | 74-133 | 1 | 20 |
| Benzene | 12.50 | 13.22 | 106 | 80-123 | 3 | 20 |
| Toluene | 12.50 | 13.19 | 106 | 80-121 | 4 | 20 |
| 1,2-Dibromoethane | 12.50 | 13.17 | 105 | 80-120 | 0 | 20 |
| Ethylbenzene | 12.50 | 13.65 | 109 | 80-123 | 0 | 21 |
| m,p-Xylenes | 25.00 | 27.23 | 109 | 80-126 | 0 | 21 |
| o-Xylene | 12.50 | 12.55 | 100 | 80-126 | 5 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 89 | 80-128 |
| 1,2-Dichloroethane-d4 | 99 | 75-139 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 99 | 80-120 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 236213 |
| Units: | ug/L | Analyzed: | 06/20/16 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC839994

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Gasoline C7-C12 | 1,000 | 1,111 | 111 | 76-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 88 | 80-128 |
| 1,2-Dichloroethane-d4 | 95 | 75-139 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 101 | 80-120 |

Type: BSD Lab ID: QC839995

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 1,000 | 1,087 | 109 | 76-120 | 2 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 86 | 80-128 |
| 1,2-Dichloroethane-d4 | 96 | 75-139 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 100 | 80-120 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC839996 | Batch#: | 236213 |
| Matrix: | Water | Analyzed: | 06/20/16 |
| Units: | ug/L | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |
| tert-Butyl Alcohol (TBA) | ND | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | ND | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 88 | 80-128 |
| 1,2-Dichloroethane-d4 | 97 | 75-139 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 106 | 80-120 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 236229 |
| Units: | ug/L | Analyzed: | 06/20/16 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC840057

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 62.50 | 64.76 | 104 | 32-155 |
| Isopropyl Ether (DIPE) | 12.50 | 11.45 | 92 | 57-128 |
| Ethyl tert-Butyl Ether (ETBE) | 12.50 | 11.37 | 91 | 62-120 |
| Methyl tert-Amyl Ether (TAME) | 12.50 | 11.60 | 93 | 69-120 |
| MTBE | 12.50 | 10.73 | 86 | 65-120 |
| 1,2-Dichloroethane | 12.50 | 10.55 | 84 | 74-133 |
| Benzene | 12.50 | 11.46 | 92 | 80-123 |
| Toluene | 12.50 | 11.98 | 96 | 80-121 |
| 1,2-Dibromoethane | 12.50 | 11.84 | 95 | 80-120 |
| Ethylbenzene | 12.50 | 12.21 | 98 | 80-123 |
| m,p-Xylenes | 25.00 | 25.07 | 100 | 80-126 |
| o-Xylene | 12.50 | 12.36 | 99 | 80-126 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 96 | 80-128 |
| 1,2-Dichloroethane-d4 | 93 | 75-139 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 101 | 80-120 |

Type: BSD Lab ID: QC840058

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 62.50 | 66.88 | 107 | 32-155 | 3 | 33 |
| Isopropyl Ether (DIPE) | 12.50 | 10.94 | 88 | 57-128 | 5 | 20 |
| Ethyl tert-Butyl Ether (ETBE) | 12.50 | 11.27 | 90 | 62-120 | 1 | 20 |
| Methyl tert-Amyl Ether (TAME) | 12.50 | 11.51 | 92 | 69-120 | 1 | 20 |
| MTBE | 12.50 | 10.70 | 86 | 65-120 | 0 | 22 |
| 1,2-Dichloroethane | 12.50 | 10.07 | 81 | 74-133 | 5 | 20 |
| Benzene | 12.50 | 11.23 | 90 | 80-123 | 2 | 20 |
| Toluene | 12.50 | 11.17 | 89 | 80-121 | 7 | 20 |
| 1,2-Dibromoethane | 12.50 | 12.07 | 97 | 80-120 | 2 | 20 |
| Ethylbenzene | 12.50 | 11.40 | 91 | 80-123 | 7 | 21 |
| m,p-Xylenes | 25.00 | 23.34 | 93 | 80-126 | 7 | 21 |
| o-Xylene | 12.50 | 11.42 | 91 | 80-126 | 8 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 96 | 80-128 |
| 1,2-Dichloroethane-d4 | 96 | 75-139 |
| Toluene-d8 | 100 | 80-120 |
| Bromofluorobenzene | 97 | 80-120 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC840059 | Batch#: | 236229 |
| Matrix: | Water | Analyzed: | 06/20/16 |
| Units: | ug/L | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |
| tert-Butyl Alcohol (TBA) | ND | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | ND | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 99 | 80-128 |
| 1,2-Dichloroethane-d4 | 97 | 75-139 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 105 | 80-120 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 236229 |
| Units: | ug/L | Analyzed: | 06/20/16 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC840060

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Gasoline C7-C12 | 1,000 | 1,098 | 110 | 76-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 95 | 80-128 |
| 1,2-Dichloroethane-d4 | 95 | 75-139 |
| Toluene-d8 | 100 | 80-120 |
| Bromofluorobenzene | 99 | 80-120 |

Type: BSD Lab ID: QC840061

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 1,000 | 1,058 | 106 | 76-120 | 4 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 94 | 80-128 |
| 1,2-Dichloroethane-d4 | 96 | 75-139 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 98 | 80-120 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 236280 |
| Units: | ug/L | Analyzed: | 06/21/16 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC840251

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 62.50 | 85.28 | 136 | 32-155 |
| Isopropyl Ether (DIPE) | 12.50 | 12.12 | 97 | 57-128 |
| Ethyl tert-Butyl Ether (ETBE) | 12.50 | 12.16 | 97 | 62-120 |
| Methyl tert-Amyl Ether (TAME) | 12.50 | 12.48 | 100 | 69-120 |
| MTBE | 12.50 | 11.74 | 94 | 65-120 |
| 1,2-Dichloroethane | 12.50 | 10.84 | 87 | 74-133 |
| Benzene | 12.50 | 12.11 | 97 | 80-123 |
| Toluene | 12.50 | 12.04 | 96 | 80-121 |
| 1,2-Dibromoethane | 12.50 | 12.43 | 99 | 80-120 |
| Ethylbenzene | 12.50 | 12.57 | 101 | 80-123 |
| m,p-Xylenes | 25.00 | 25.85 | 103 | 80-126 |
| o-Xylene | 12.50 | 12.81 | 103 | 80-126 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 97 | 80-128 |
| 1,2-Dichloroethane-d4 | 96 | 75-139 |
| Toluene-d8 | 99 | 80-120 |
| Bromofluorobenzene | 99 | 80-120 |

Type: BSD Lab ID: QC840252

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 62.50 | 73.66 | 118 | 32-155 | 15 | 33 |
| Isopropyl Ether (DIPE) | 12.50 | 11.42 | 91 | 57-128 | 6 | 20 |
| Ethyl tert-Butyl Ether (ETBE) | 12.50 | 11.53 | 92 | 62-120 | 5 | 20 |
| Methyl tert-Amyl Ether (TAME) | 12.50 | 11.84 | 95 | 69-120 | 5 | 20 |
| MTBE | 12.50 | 11.20 | 90 | 65-120 | 5 | 22 |
| 1,2-Dichloroethane | 12.50 | 10.40 | 83 | 74-133 | 4 | 20 |
| Benzene | 12.50 | 11.06 | 88 | 80-123 | 9 | 20 |
| Toluene | 12.50 | 11.47 | 92 | 80-121 | 5 | 20 |
| 1,2-Dibromoethane | 12.50 | 11.74 | 94 | 80-120 | 6 | 20 |
| Ethylbenzene | 12.50 | 11.48 | 92 | 80-123 | 9 | 21 |
| m,p-Xylenes | 25.00 | 24.13 | 97 | 80-126 | 7 | 21 |
| o-Xylene | 12.50 | 12.23 | 98 | 80-126 | 5 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 96 | 80-128 |
| 1,2-Dichloroethane-d4 | 94 | 75-139 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 98 | 80-120 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC840253 | Batch#: | 236280 |
| Matrix: | Water | Analyzed: | 06/21/16 |
| Units: | ug/L | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |
| tert-Butyl Alcohol (TBA) | ND | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | ND | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 99 | 80-128 |
| 1,2-Dichloroethane-d4 | 98 | 75-139 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 104 | 80-120 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 236281 |
| Units: | ug/L | Analyzed: | 06/21/16 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC840255

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 62.50 | 65.22 | 104 | 32-155 |
| Isopropyl Ether (DIPE) | 12.50 | 11.89 | 95 | 57-128 |
| Ethyl tert-Butyl Ether (ETBE) | 12.50 | 12.00 | 96 | 62-120 |
| Methyl tert-Amyl Ether (TAME) | 12.50 | 11.98 | 96 | 69-120 |
| MTBE | 12.50 | 11.24 | 90 | 65-120 |
| 1,2-Dichloroethane | 12.50 | 11.52 | 92 | 74-133 |
| Benzene | 12.50 | 13.46 | 108 | 80-123 |
| Toluene | 12.50 | 13.28 | 106 | 80-121 |
| 1,2-Dibromoethane | 12.50 | 13.10 | 105 | 80-120 |
| Ethylbenzene | 12.50 | 13.19 | 105 | 80-123 |
| m,p-Xylenes | 25.00 | 26.12 | 104 | 80-126 |
| o-Xylene | 12.50 | 13.11 | 105 | 80-126 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 94 | 80-128 |
| 1,2-Dichloroethane-d4 | 88 | 75-139 |
| Toluene-d8 | 97 | 80-120 |
| Bromofluorobenzene | 97 | 80-120 |

Type: BSD Lab ID: QC840256

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 62.50 | 59.21 | 95 | 32-155 | 10 | 33 |
| Isopropyl Ether (DIPE) | 12.50 | 11.39 | 91 | 57-128 | 4 | 20 |
| Ethyl tert-Butyl Ether (ETBE) | 12.50 | 11.42 | 91 | 62-120 | 5 | 20 |
| Methyl tert-Amyl Ether (TAME) | 12.50 | 11.59 | 93 | 69-120 | 3 | 20 |
| MTBE | 12.50 | 10.68 | 85 | 65-120 | 5 | 22 |
| 1,2-Dichloroethane | 12.50 | 11.09 | 89 | 74-133 | 4 | 20 |
| Benzene | 12.50 | 12.66 | 101 | 80-123 | 6 | 20 |
| Toluene | 12.50 | 12.60 | 101 | 80-121 | 5 | 20 |
| 1,2-Dibromoethane | 12.50 | 12.45 | 100 | 80-120 | 5 | 20 |
| Ethylbenzene | 12.50 | 12.52 | 100 | 80-123 | 5 | 21 |
| m,p-Xylenes | 25.00 | 24.40 | 98 | 80-126 | 7 | 21 |
| o-Xylene | 12.50 | 12.33 | 99 | 80-126 | 6 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 93 | 80-128 |
| 1,2-Dichloroethane-d4 | 87 | 75-139 |
| Toluene-d8 | 96 | 80-120 |
| Bromofluorobenzene | 97 | 80-120 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC840257 | Batch#: | 236281 |
| Matrix: | Water | Analyzed: | 06/21/16 |
| Units: | ug/L | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | NA | |
| tert-Butyl Alcohol (TBA) | ND | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | ND | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 94 | 80-128 |
| 1,2-Dichloroethane-d4 | 87 | 75-139 |
| Toluene-d8 | 96 | 80-120 |
| Bromofluorobenzene | 99 | 80-120 |

NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 277775 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 236280 |
| Units: | ug/L | Analyzed: | 06/21/16 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC840258

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Gasoline C7-C12 | 1,000 | 1,055 | 106 | 76-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 95 | 80-128 |
| 1,2-Dichloroethane-d4 | 98 | 75-139 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 100 | 80-120 |

Type: BSD Lab ID: QC840259

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 1,000 | 988.7 | 99 | 76-120 | 7 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 96 | 80-128 |
| 1,2-Dichloroethane-d4 | 97 | 75-139 |
| Toluene-d8 | 100 | 80-120 |
| Bromofluorobenzene | 99 | 80-120 |

RPD= Relative Percent Difference

Data File: \\gcmsserver\DD\chem\MSVOA06.i\062016.b\FFK16TVH.D



Date : 20-JUN-2016 15:05

Client ID: DYNA P&T

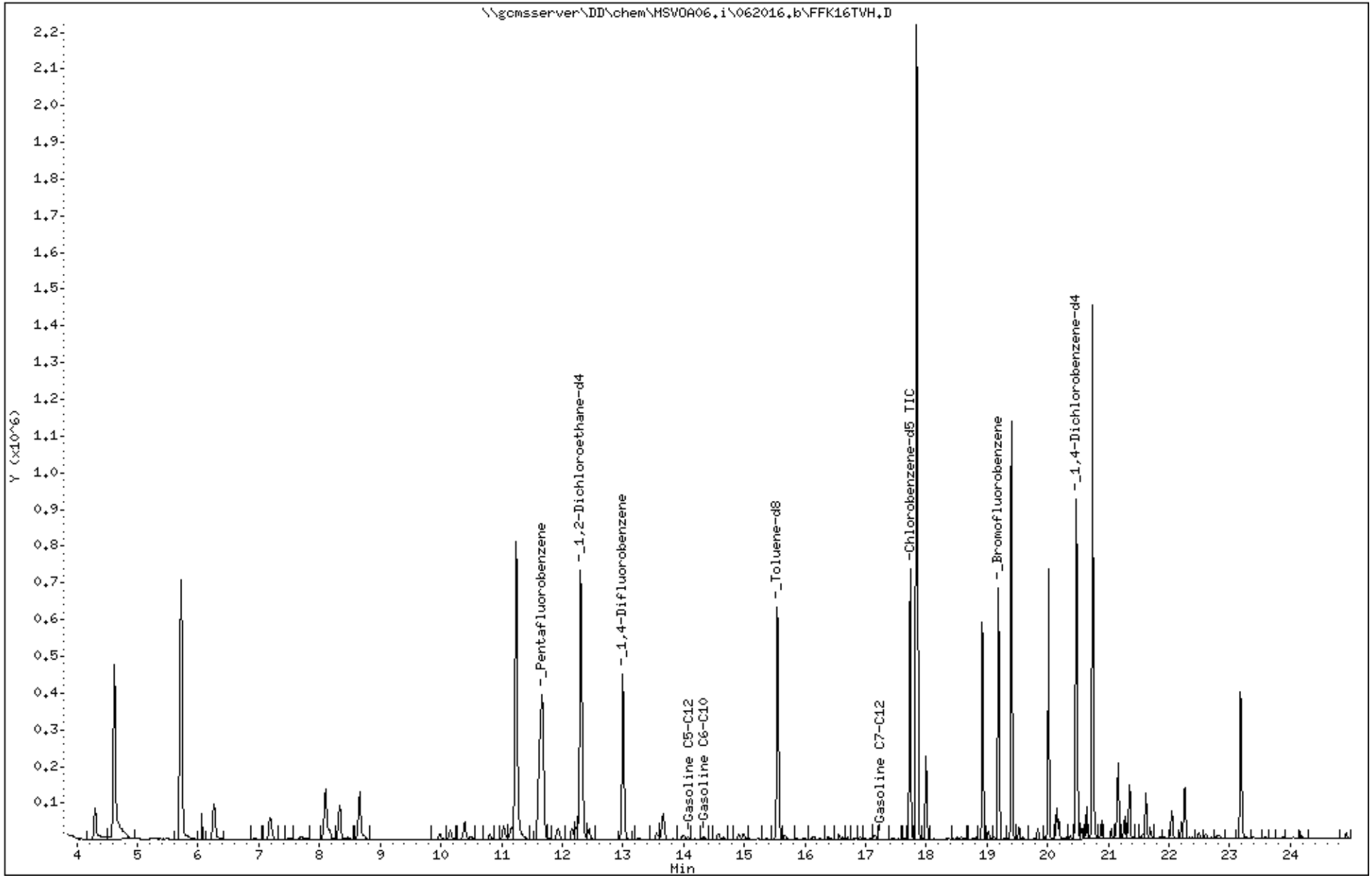
Instrument: MSVOA06.i

Sample Info: s,277775-001

Operator: VOC

Column phase:

Column diameter: 2.00



Data File: \\gcmsserver\DD\chem\MSVOA06.i\062016.b\FFK17TVH.D



Date : 20-JUN-2016 15:37

Client ID: DYNA P&T

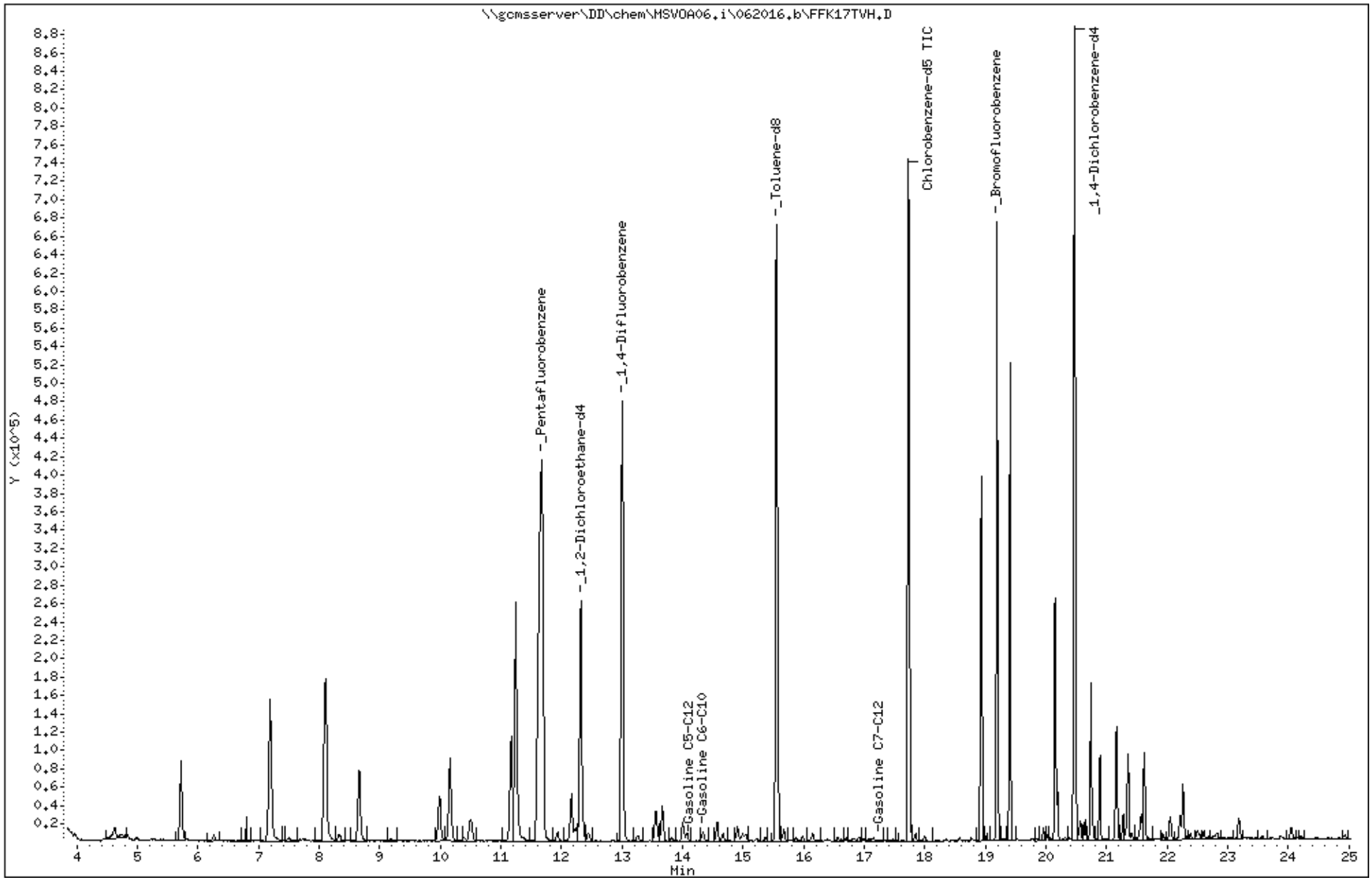
Instrument: MSVOA06.i

Sample Info: s,277775-002

Operator: VOC

Column phase:

Column diameter: 2.00



Data File: \\gcmsserver\DD\chem\MSVOA10.i\062116.b\JFL22TVH.D



Date : 21-JUN-2016 23:34

Client ID: DYNA P&T

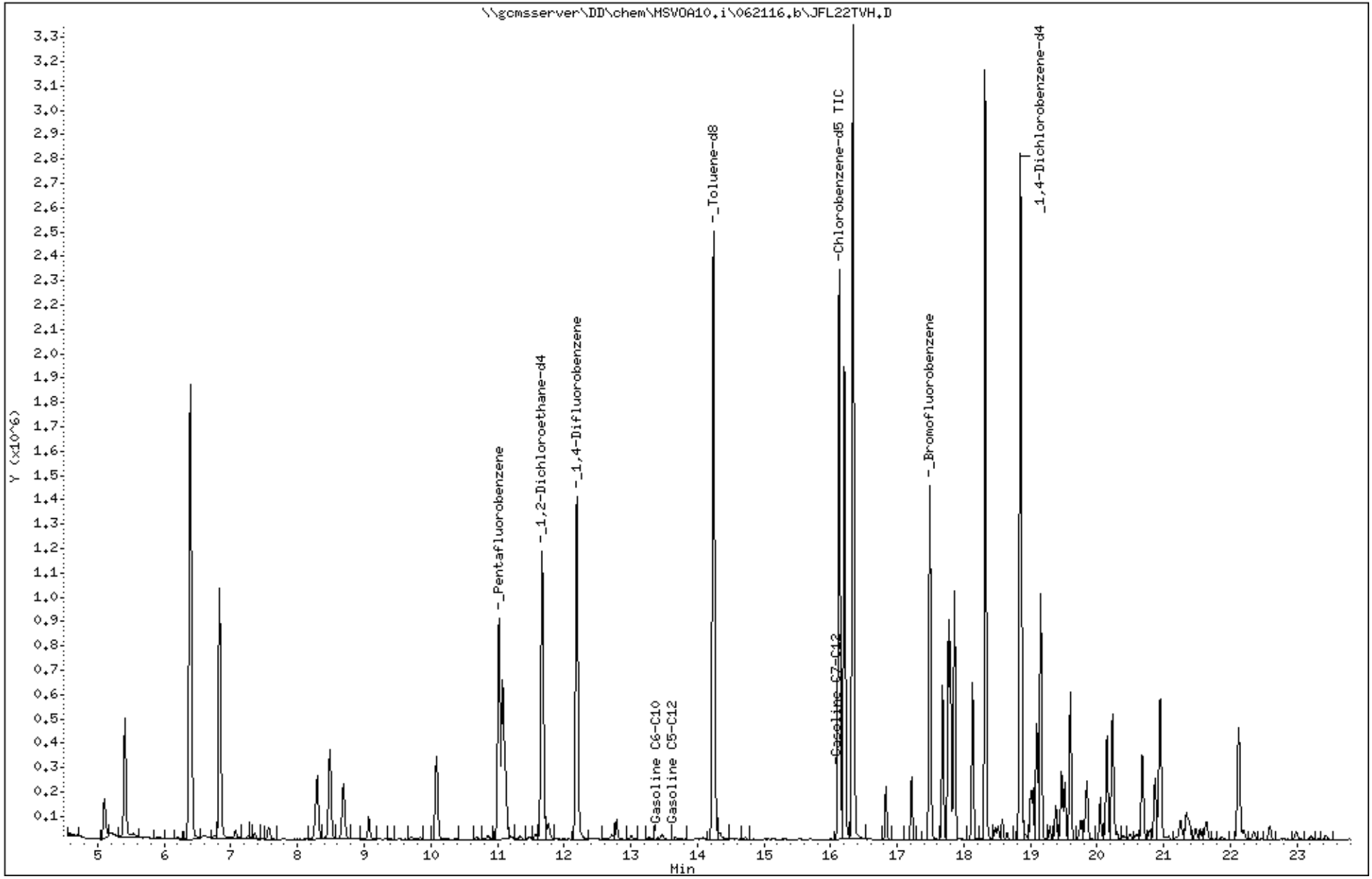
Instrument: MSVOA10.i

Sample Info: S,277775-003

Operator: VOA

Column phase:

Column diameter: 2.00



Data File: \\gcmsserver\DD\chem\MSVOA10.i\062116.b\JFL18TVH.D



Date : 21-JUN-2016 21:30

Client ID: DYNA P&T

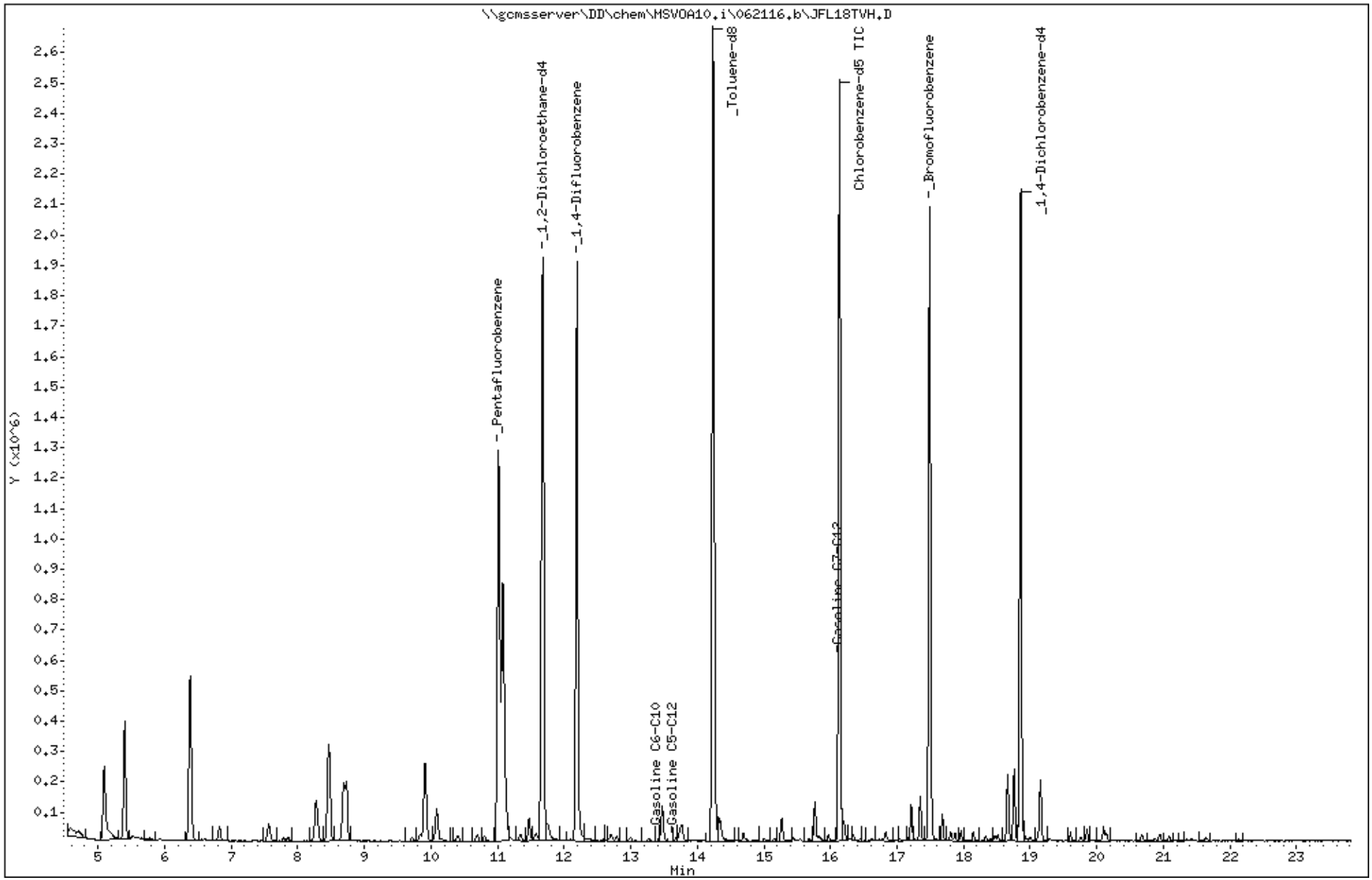
Instrument: MSVOA10.i

Sample Info: S,277775-004

Operator: VOA

Column phase:

Column diameter: 2.00



Data File: \\gcmsserver\DD\chem\MSVOA10.i\062116.b\JFL17TVH.D



Date : 21-JUN-2016 20:59

Client ID: DYNA P&T

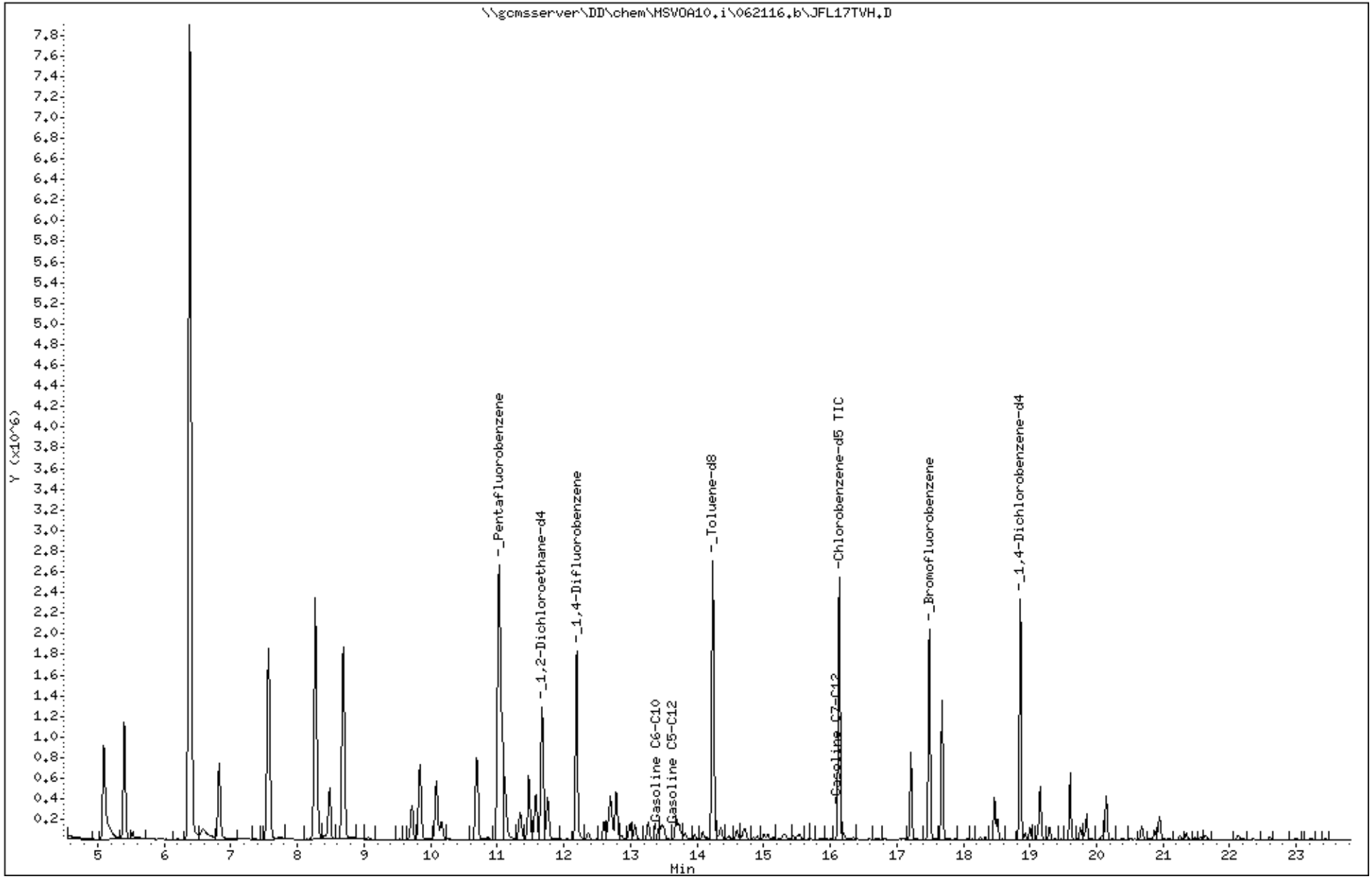
Instrument: MSVOA10.i

Sample Info: S,277775-005

Operator: VOA

Column phase:

Column diameter: 2.00



Data File: \\gcmsserver\DD\chem\MSVOA06.i\062016.b\FFK20TVH.D



Date : 20-JUN-2016 17:15

Client ID: DYNA P&T

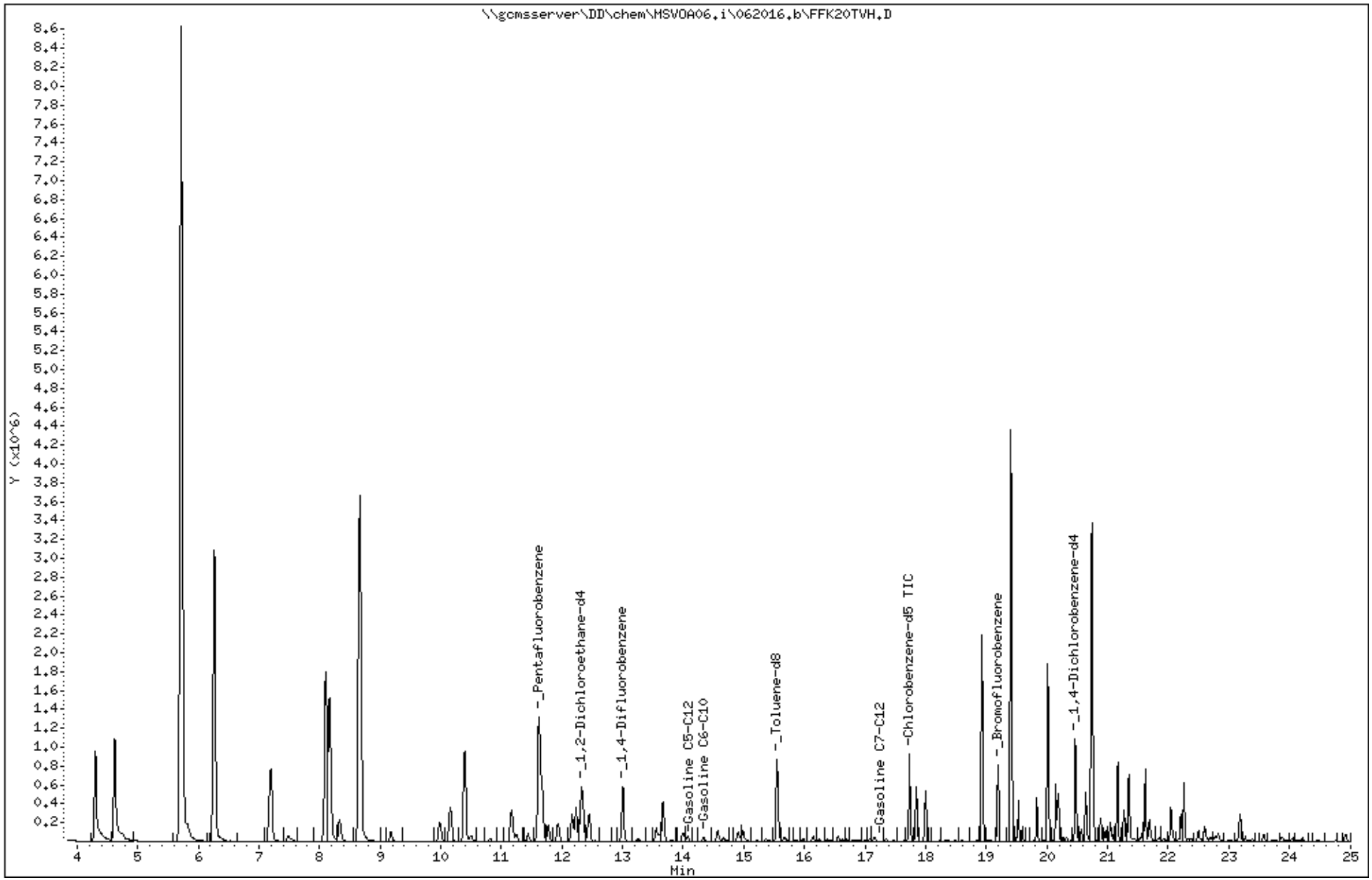
Instrument: MSVOA06.i

Sample Info: s,277775-006

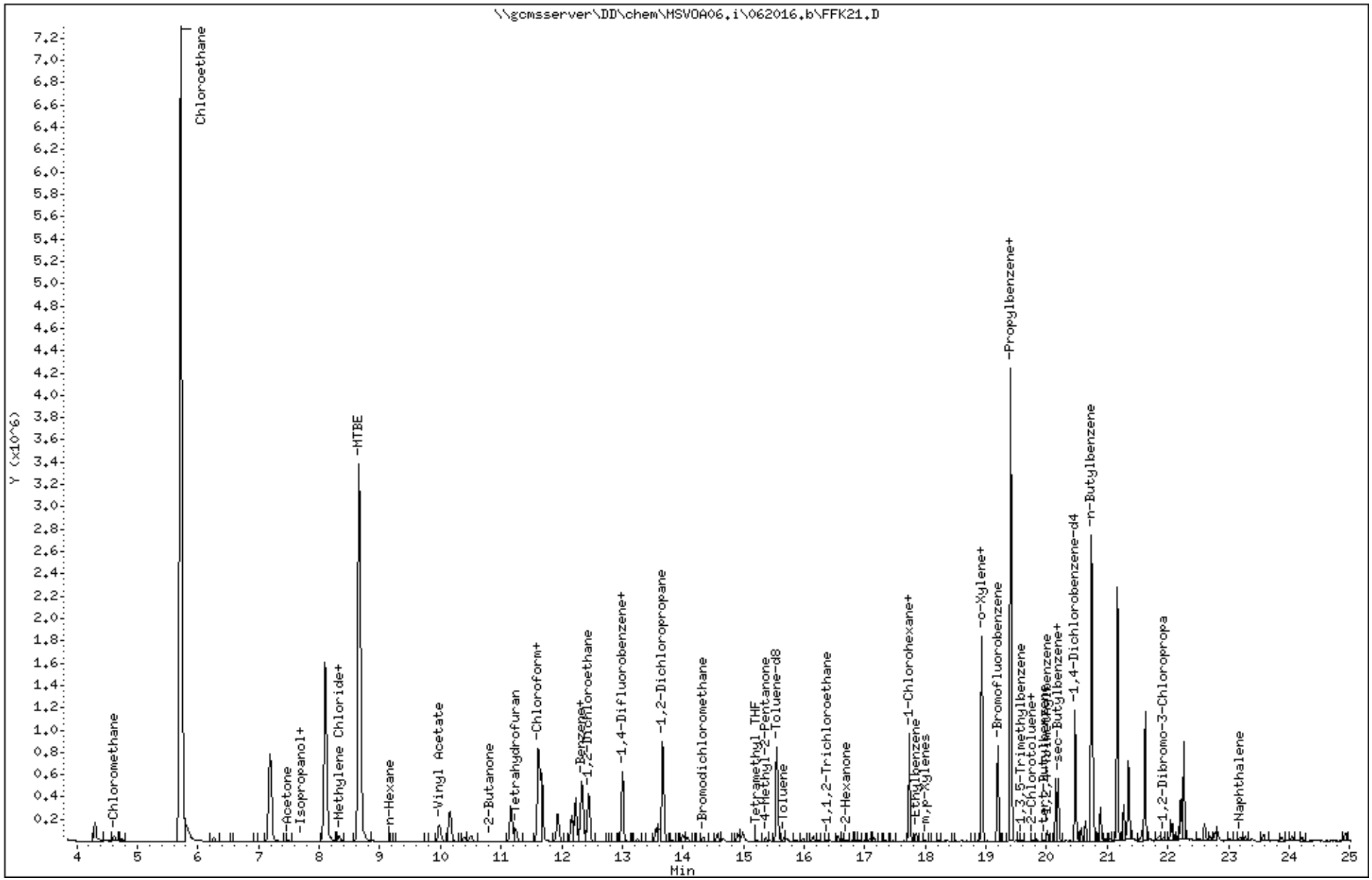
Operator: VOC

Column phase:

Column diameter: 2.00



Data File: \\gcmsserver\DD\chem\MSVOA06.i\062016.b\FFK21.D
Date : 20-JUN-2016 17:48
Client ID: DYNA P&T
Instrument: MSVOA06.i
Sample Info: s,277775-007
Purge Volume: 5.0
Operator: VOC
Column phase: RTX 624
Column diameter: 0.25



Data File: \\gcmsserver\DD\chem\MSVOA10.i\062116.b\JFL23TVH.D



Date : 22-JUN-2016 00:05

Client ID: DYNA P&T

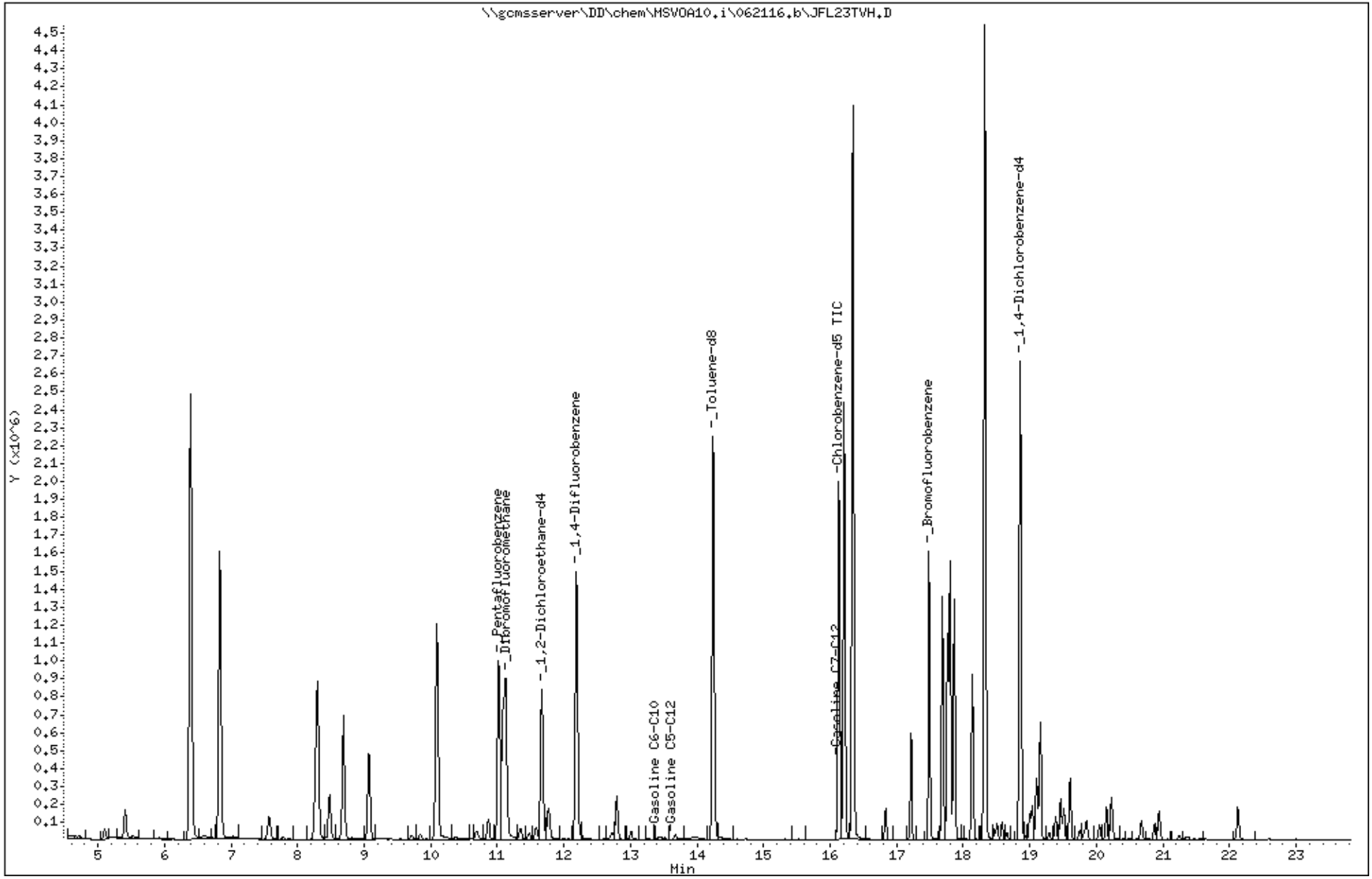
Instrument: MSVOA10.i

Sample Info: S,277775-008

Operator: VOA

Column phase:

Column diameter: 2.00



Data File: \\gcmsserver\DD\chem\MSVOA06.i\062016.b\FFK22TVH.D



Date : 20-JUN-2016 18:21

Client ID: DYNA P&T

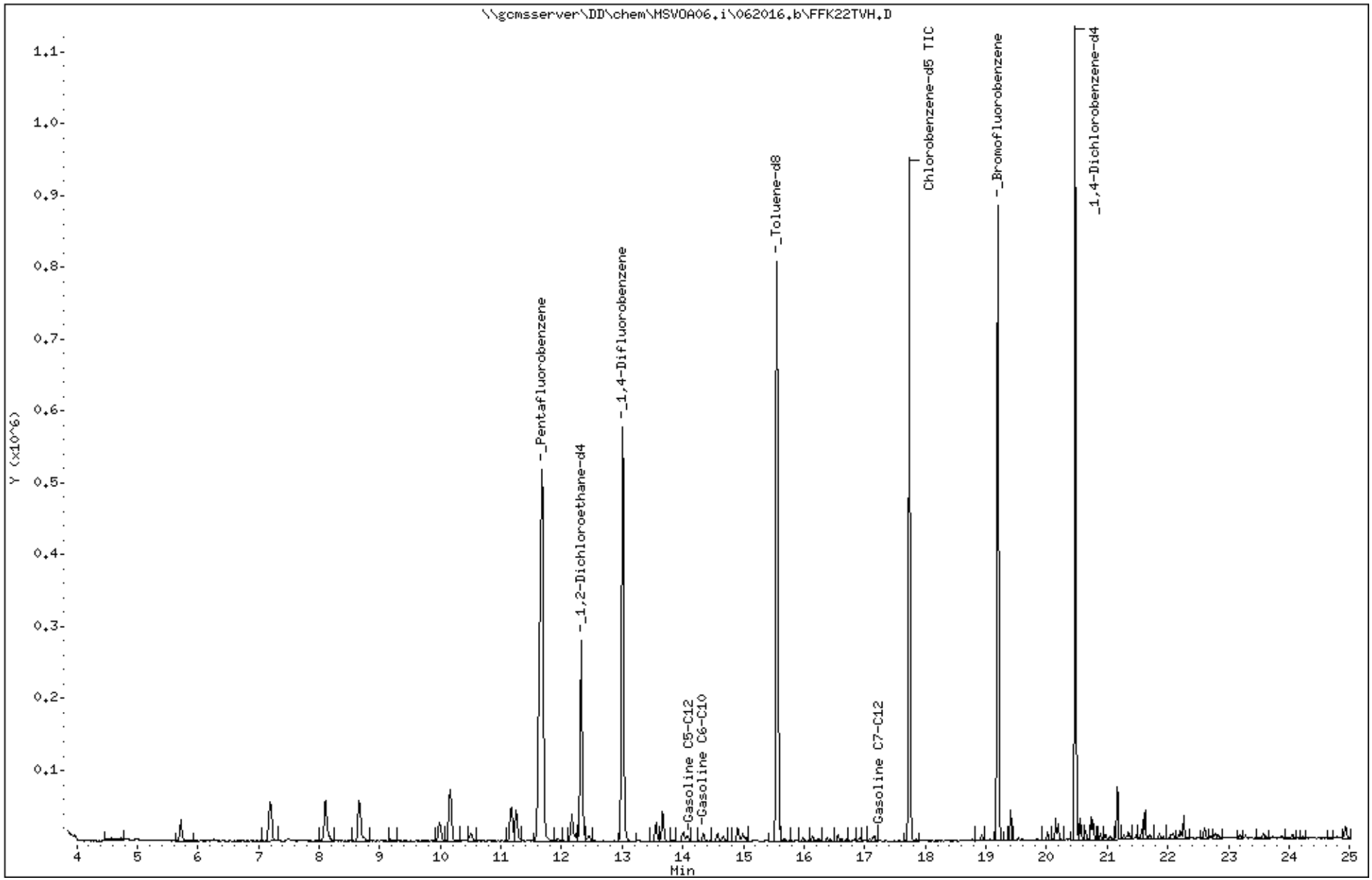
Instrument: MSVOA06.i

Sample Info: s,277775-009

Operator: VOC

Column phase:

Column diameter: 2.00



Data File: \\gcmsserver\DD\chem\MSVOA06.i\062016.b\FFK23TVH.D



Date : 20-JUN-2016 18:54

Client ID: DYNA P&T

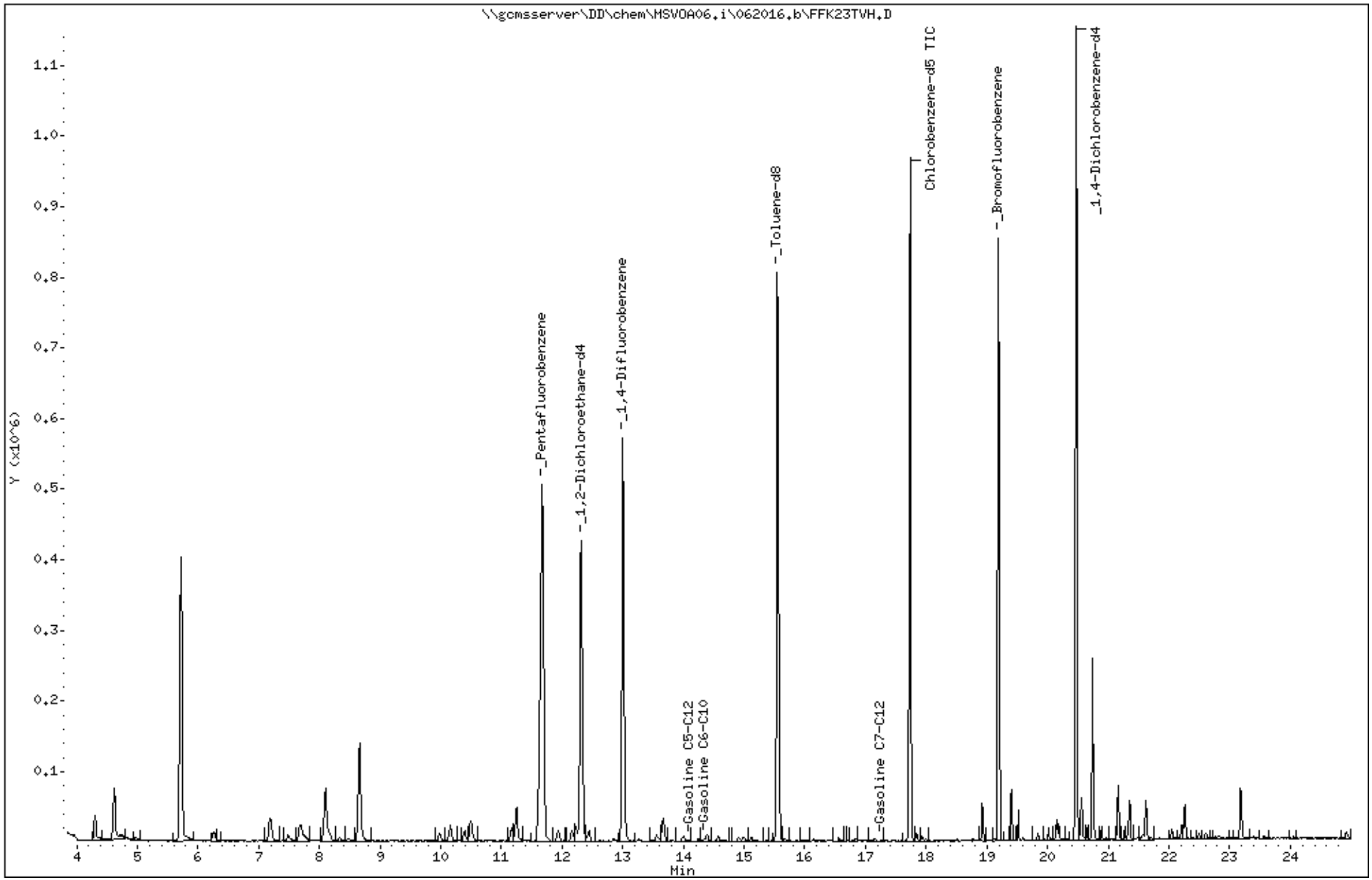
Instrument: MSVOA06.i

Sample Info: s,277775-010

Operator: VOC

Column phase:

Column diameter: 2.00



Data File: \\gcmsserver\DD\chem\MSVOA10.i\062016.b\JFK12TVH.D



Date : 20-JUN-2016 18:14

Client ID: DYNA P&T

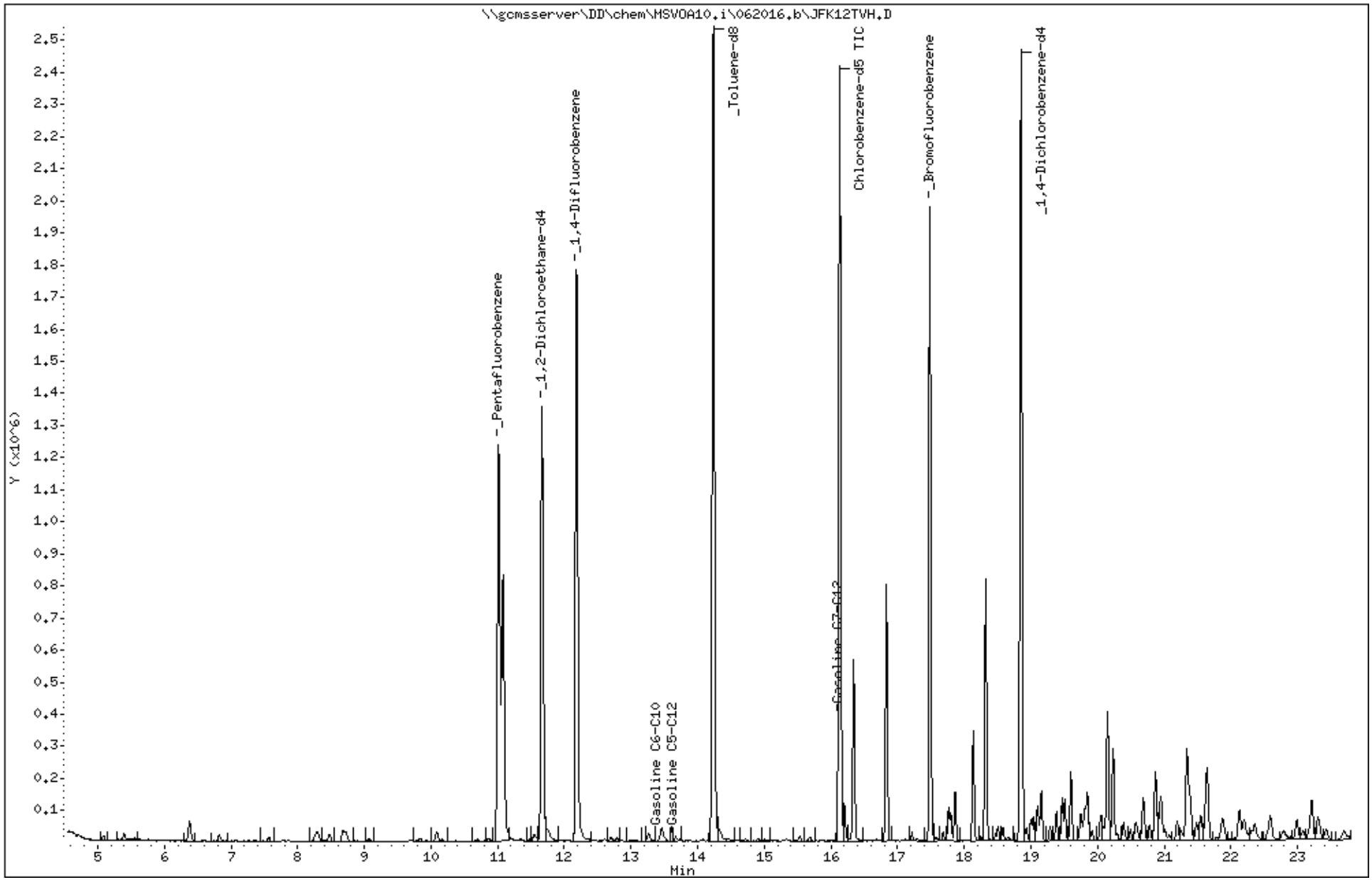
Instrument: MSVOA10.i

Sample Info: S,277775-011

Operator: VOA

Column phase:

Column diameter: 2.00



Data File: \\gcmsserver\DD\chem\MSVOA10.i\062016.b\JFK16TVH.D



Date : 20-JUN-2016 20:18

Client ID: DYNA P&T

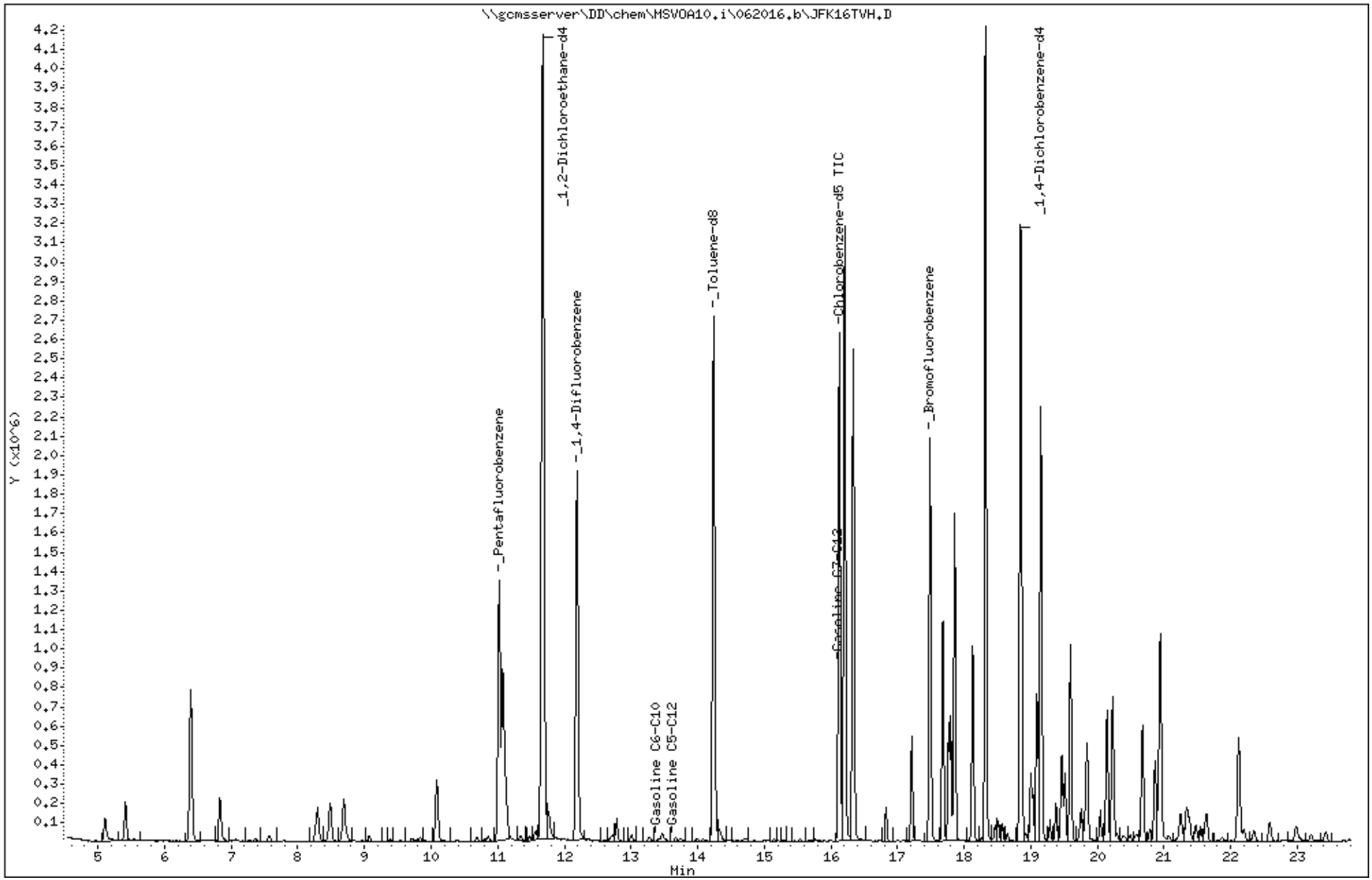
Instrument: MSVOA10.i

Sample Info: S,277775-012

Operator: VOA

Column phase:

Column diameter: 2.00



Data File: \\gcmsserver\DD\chem\MSVOA06.i\062016.b\FFK07TVH.D



Date : 20-JUN-2016 10:11

Client ID: DYNA P&T

Instrument: MSVOA06.i

Sample Info: ccv/bs,qc839994,236213,s28894,.01/100

Operator: VOC

Column phase:

Column diameter: 2.00