

June 25, 2014

Mr. Martin Musonge Regional Water Quality Control Board San Francisco Bay Region 1515 Clay Street, Suite 1400 Oakland, California 94612

Subject: File No. 01-0098 (MYM) Site Located at 2844 Mountain Boulevard, Oakland, California

Dear Mr. Musonge:

Enclosed for your review is a copy of SOMA's "Second Quarter 2014 Groundwater Monitoring Report" for the subject property. It has been uploaded to the State's GeoTracker database and Alameda County's FTP site.

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

Sincerely,

Mansour Sepehr, Ph.D., PE Principal Hydrogeologist



cc: Mr. Tejindar Singh w/enclosure Ms. Donna Drogos – Alameda County Env. Health

Second Quarter 2014 Groundwater Monitoring Report

2844 Mountain Boulevard Oakland, California Regional Board File Number 01-0098

June 25, 2014

Project 5081

Prepared for

Tejindar Singh 6400 Dublin Blvd. Dublin, California, 94568



PERJURY STATEMENT

Site Location: 2844 Mountain Boulevard, Oakland, 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".

Tejindar Singh

6400 Dublin Boulevard Dublin, California 94568 Responsible Party

CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this report on behalf Tejindar Singh, property owner of 2844 Mountain Blvd., Oakland, California, to comply with requirements of the San Francisco Bay Regional Water Quality Control Board for the Second Quarter 2014 groundwater monitoring event.

Mansour Sepehr, PhD, PE Principal Hydrogeologist



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1. INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) has prepared this report on behalf of Mr. Tejindar Singh, property owner of 2844 Mountain Blvd., Oakland, California. The site is located east of Highway 13 and west of Joaquin Miller Park (Figure 1). Former underground storage tank (UST) locations and site features are shown in Figure 2.

This report summarizes results of the Second Quarter 2014 groundwater monitoring event conducted at the site on June 3, 2014. It includes physical and chemical properties measured in the field for each groundwater sample and laboratory analytical results for groundwater samples.

1.1 Previous Activities

In March 1989 soil contamination was identified during replacement of product lines. Analytical results for a soil sample collected from the southern edge of a premium unleaded tank reported total petroleum hydrocarbons (TPHs) as gasoline (TPH-g) concentration of 8,400 mg/kg. Samples from beneath the lines near the pump islands reported TPH concentrations of less than 100 mg/kg.

In July 1989, contaminated soil was excavated and from the area of the southern end of the premium unleaded UST disposed of. Analysis of 12 soil samples collected from the sides of the excavation reported TPH concentrations ranging between ND to 3,300 mg/kg.

In May 1990, further site investigation including installation of four monitoring wells (RS-1 through RS-4) was conducted. Analysis of soil samples collected above the water table reported TPH concentrations ranging from 1 to 240 mg/kg. Hydrocarbons were detected in groundwater samples collected from all the wells; the highest concentration was found in a sample monitoring well RS-2.

In June 1991 soil vapor extraction began in June 1991. Groundwater remediation began in October 1992. Remediation was suspended in 1992, apparently due to responsible party financial issues.

In April 1994, one 280-gallon waste oil UST was removed with approximately 280 gallons of fluid and rinsate. The site operated as a retail gasoline station. Three USTs, two pump islands and an office/garage building were among the site features. The USTs contained various grades of unleaded gasoline and diesel with storage capacities of 3,000, 4,000, and 10,000 gallons.

In 1996 free product was reported in RS-1.

In July 1998, one 4,000-gallon gasoline UST was excavated and disposed of off-site.

Between July 29 and August 18, 2011, two USTs, one 10,000 gallon and one 3,000 gallon capacity, were excavated and disposed of off-site. The site is currently fenced in, which limits public access to the property.

Further soil and groundwater investigation was conducted at the site in March 2012. In October 2012, two wells (RS-1 and RS-2) were decommissioned in anticipation of excavation activities onsite. Excavation activities commenced on October 3, 2012, and an area of approximately 1,200 square feet was excavated to a depth of 15 feet. A total of 788.65 tons of waste soil was removed and replaced with clean fill material.

On May 9 and 10, 2013, two groundwater monitoring wells (MW-1 and MW-2) and soil and groundwater borings (DPT-5/5W) were installed as approved and requested by the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB). All site wells were surveyed by a licensed surveyor on May 28, 2013.

As approved by SFRWQCB, a multi-phase extraction (MPE) event was conducted at the site from December 2 to December 16, 2013. Details and results of this event are documented in a pilot testing report.

1.2 Summary of Field Activities and Laboratory Analysis

1.2.1 Field Activities

On June 3, 2014, four monitoring wells (RS-3, RS-4, MW-1 and MW-2) were measured for depth to groundwater. Additional field measurements and groundwater samples were collected from RS-3, MW-1, and MW-2. Properties measured in the field were pH, temperature, and electrical conductivity (EC). Only a grab sample could be collected from RS-4 because of accessibility issues. This monitoring event was conducted in accordance with procedures and guidelines of SFBRWQCB.

Figure 2 shows well locations. Appendix A details groundwater monitoring procedures followed during this event.

Purged groundwater was temporarily stored on-site in a 55-gallon drum. Two drums generated during current and previous monitoring events (First and Second Quarter 2014) are currently stored on site pending transport to an appropriate disposal facility.

Second Quarter 2014 Groundwater Monitoring Report

1.2.2 Laboratory Analysis

Curtis and Tompkins Laboratories, a California state-certified laboratory, analyzed groundwater samples for the following: TPH-g, and TPH as diesel (TPH-d); BTEX (benzene, toluene, ethylbenzene, and total xylenes), MtBE, gasoline oxygenates. All samples except TPH-d were analyzed using EPA Method 8260. TPH-d samples were analyzed using EPA Method 8015B.

2. RESULTS

Results of field measurements and laboratory analyses for the groundwater monitoring event conducted on June 3, 2014 follow below.

2.1 Field Measurements

Monitoring wells MW-1, MW-2, RS-3 and RS-4 were measured for depth to groundwater (Table 1). Depths to groundwater ranged from 6.72 feet in RS-3 to 9.27 feet in RS-4. Groundwater elevations ranged from 666 feet in RS-4 to 669.36 feet in RS-3.

Figure 3 displays the groundwater elevation map. The groundwater flows southeasterly at a gradient of 0.069 ft/ft. Since the previous monitoring event (March 2014), the groundwater flow direction has remained southeasterly and the gradient has increased. Groundwater gradient calculations are included in Appendix B.

2.2 Laboratory Analysis

Groundwater analytical data for this monitoring event is shown in Table 1. Appendix C includes the laboratory report and chain of custody form. No measurable floating product was observed during this monitoring event.

TPH-g was below laboratory-reporting limit in RS-3, RS-4, and MW-2 and was detected in MW-1 at 8,900 μ g/L. Since the previous monitoring event (March 2014), TPH-g concentration in MW-2 has decreased and remained below laboratory-reporting limits in RS-3. No comparison can be made for RS-4 and MW-1 due to high dilution and reporting limits. Figure 4 shows a map of TPH-g concentrations in groundwater.

TPH-d was below the laboratory-reporting limit in RS-3 and detected in concentrations ranging from 4,400 μ g/L in RS-4 to 7,400 μ g/L in MW-1. Since the previous monitoring event (March 2014), TPH-d has increased in RS-4 and decreased in MW-1 and MW-2. Figure 5 shows a contour map of TPH-d concentrations in groundwater. TPH-d plume appears to be centered south of the pump islands in the vicinity of MW-1.

The following BTEX concentrations were observed during this monitoring event:

- All BTEX analytes were below laboratory-reporting limits in RS-3.
- All benzene analytes except ethylbenzene were below laboratoryreporting limits in RS-4.
- Benzene was detected in MW-1 and MW-2 at 350 µg/L and 170 µg/L, respectively. Since the previous monitoring event (March 2014) benzene has decreased in MW-1 and MW-2. Figure 4 shows a map of benzene concentrations in groundwater. The benzene plume appears to be centered to the southwest of the pump islands in the vicinity of MW-1.
- Since the previous monitoring event (March 2014) toluene has remained below the laboratory-reporting limit in all wells.
- Ethylbenzene was detected in RS-4, MW-1 and MW-2 at 40 µg/L, 550 µg/L and 310 µg/L, respectively. Since the previous monitoring event (March 2014) ethylbenzene has decreased in MW-1 and MW-2. No comparison can be made for RS-4 because of high reporting limit during the previous monitoring event.
- Total xylenes was detected in MW-1 and MW-2 at 1,420 µg/L and 150 µg/L, respectively. Since the previous monitoring event (March 2014), total xylenes decreased in MW-1 and MW-2.

Methyl tertiary-butyl ether (MtBE) concentrations ranged from 41 μ g/L in RS-3 to 11,000 μ g/L in MW-1. Since the previous monitoring event (March 2014), MtBE has increased in RS-3 and decreased significantly in other site wells. Figure 6 shows a contour map of MtBE concentrations in groundwater. The MtBE plume appears to be centered to the southwest of the pump islands in the vicinity of MW-1.

Tertiary-butyl alcohol (TBA) concentrations ranged from 490 μ g/L in RS-3 to 29,000 μ g/L in MW-2. Since the previous monitoring event (March 2014), TBA has increased in RS-3 and decreased in RS-4, MW-1 and MW-2. Figure 7 shows a contour map of TBA concentrations in groundwater. The highest TBA concentrations were detected in the vicinity of the pump islands around MW-2.

Tertiary amyl methyl ether (TAME) concentrations ranged from 1.70 μ g/L in RS-3 to 1,300 μ g/L in MW-1. Since the previous monitoring event (March 2014), TAME has increased in RS-3 and decreased in RS-4, MW-1 and MW-2. Figure 8 shows a contour map of TAME concentrations in groundwater. The highest TAME concentrations were detected to the southwest of the pump islands in the vicinity of MW-1.

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3. CONCLUSIONS AND RECOMMENDATIONS

Conclusions and recommendations based on results of Second Quarter 2014 groundwater monitoring are summarized below.

- The groundwater flows southeasterly across the site.
- No free/floating product was observed in any monitoring wells during this monitoring event.
- Since the previous monitoring event in March 2014, TPH-g in in MW-2 has decreased and remained below laboratory-reporting limits in RS-3; TPH-d increased in RS-4 and decreased in MW-1 and MW-2; benzene has decreased in MW-1 and MW-2; MtBE increased in RS-3 and decreased significantly in other site wells; and TBA and TAME increased in RS-3 and decreased in RS-4, MW-1 and MW-2.
- The highest TPH-g, TPH-d, benzene, ethylbenzene, total xylenes, MtBE, and TAME concentrations were detected to the southwest of the pump islands around MW-1. The highest TBA concentrations were detected in the vicinity of pump islands around MW-2.
- SOMA will continue conducting quarterly groundwater monitoring events at the site.

SOMA submitted a report documenting installation of soil borings and monitoring wells dated September 13, 2013. The report recommended installing a groundwater monitoring well in close proximity of boring SS-1 in order to monitor elevated levels of chemicals in groundwater.

Based on SFBRWQCB's approval dated April 3, 2013, SOMA conducted a multiphase extraction (MPE) pilot test at the site from December 2 through December 16, 2013. During the pilot test, 497 pounds of PHCs were removed from the subsurface with an average mass removal rate of 36 lbs/day. Details of the pilot test were included in SOMA's 'Multi-Phase Extraction Pilot Testing Report' dated January 21, 2014. Based on the effectiveness of the pilot test, SOMA proposes to conduct two to three 30-day MPE events at the site in order to mitigate remaining contaminant mass from the subsurface.

4. REPORT LIMITATIONS

This report is the summary of work done by SOMA, including observations and descriptions of site conditions. It includes analytical results produced by Curtis and Tompkins, Laboratories for the current groundwater monitoring event. Quantities and locations of wells were selected to provide the required information, but may not be completely representative of entire site conditions. All

conclusions and recommendations are based on results of laboratory analysis. 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 environmental engineering and consulting practices at the time of this sampling.

Figures

Second Quarter 2014 Groundwater Monitoring Report



Source: Google (R) 2012

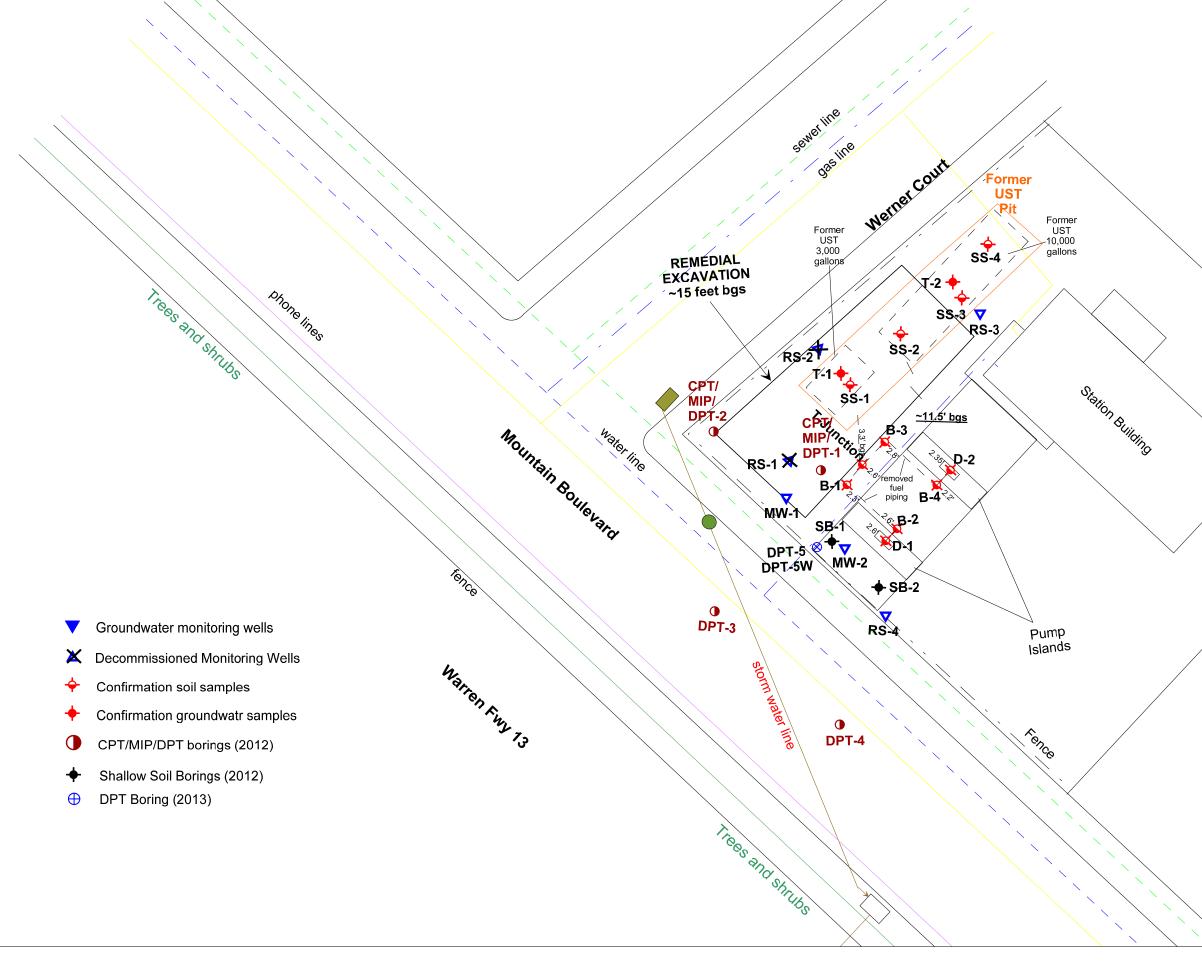
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0

100 200



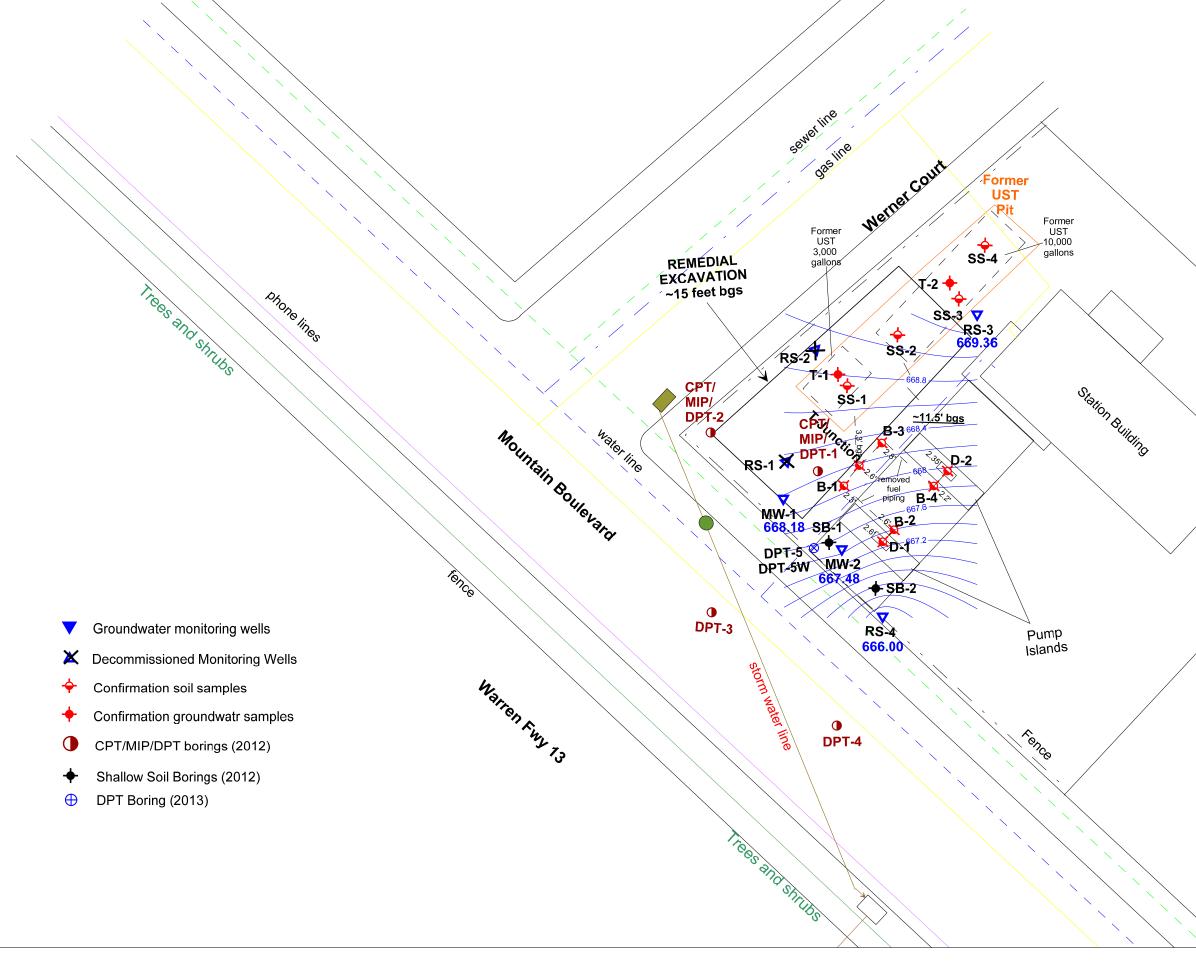




approximate scale in feet 0 20 40

Figure 2: Site Map Showing Locations of Former USTs, Soil Borings, and Groundwater Monitoring Wells



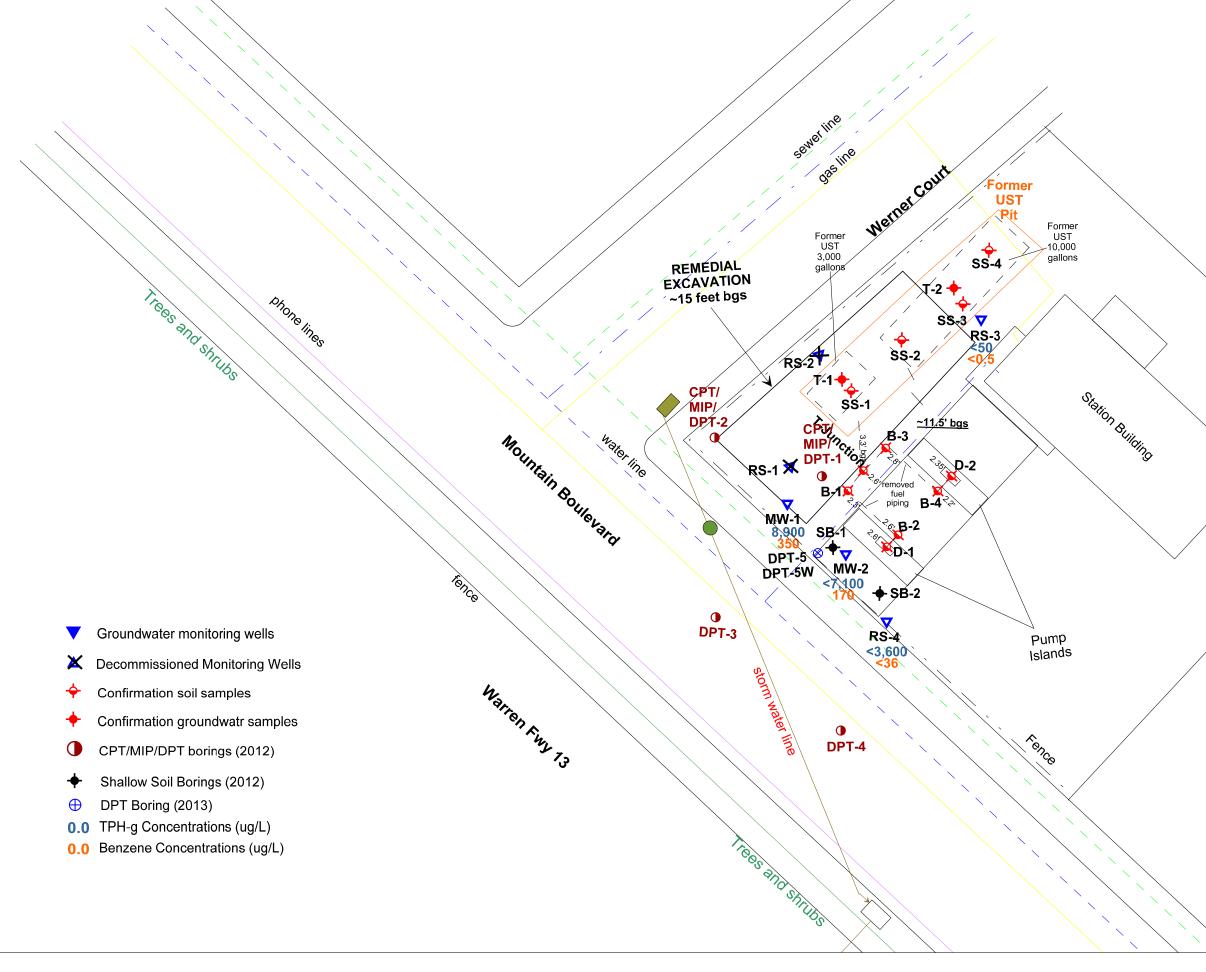


approximate scale in feet 0 20 40

Figure 3: Groundwater Elevation Contour Map in feet, June 3, 2014

approximate groundwater flow direction $\mathbf{\lambda}$



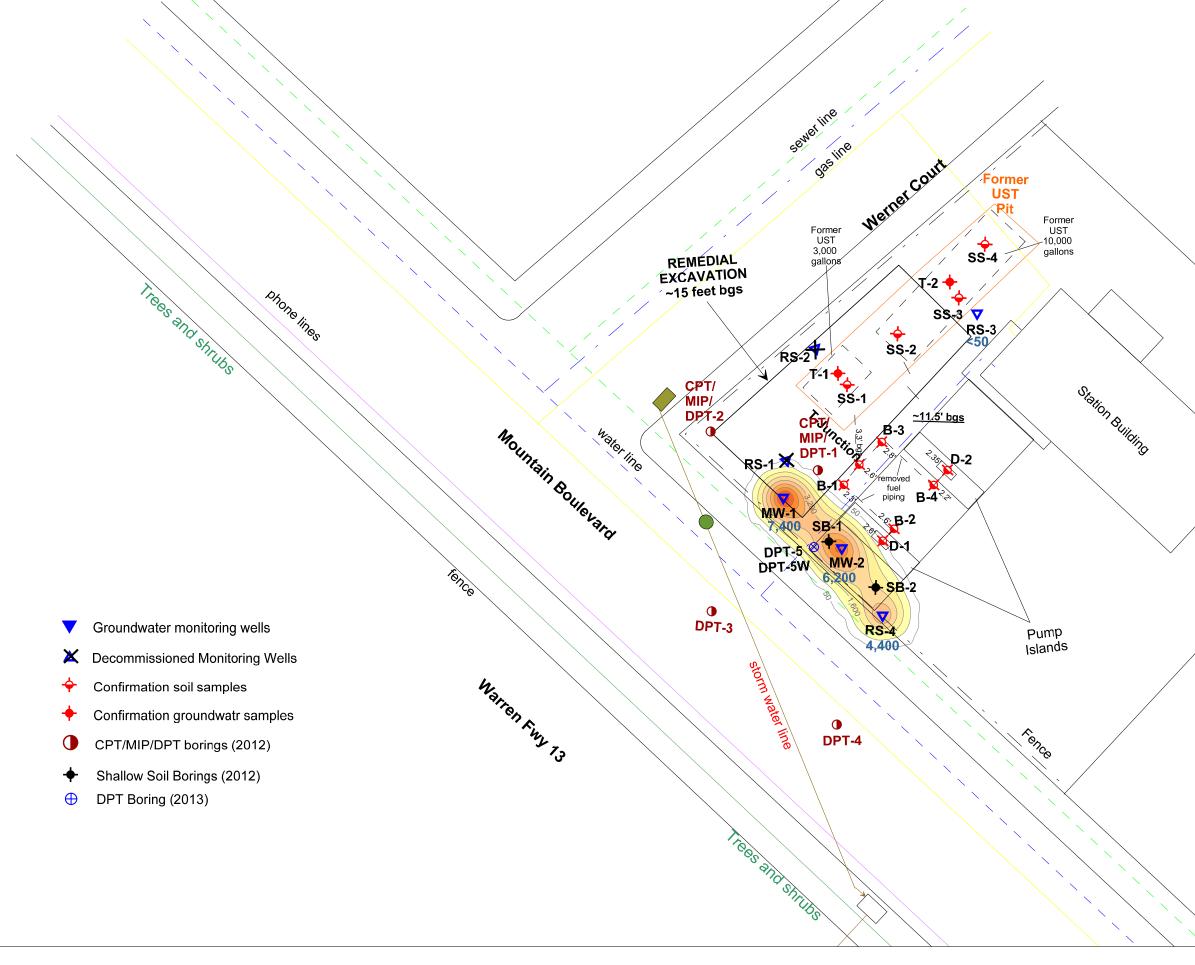


approximate scale in feet

Figure 4: Map Showing TPH-g and Benzene Concentrations in Groundwater, June 3, 2014

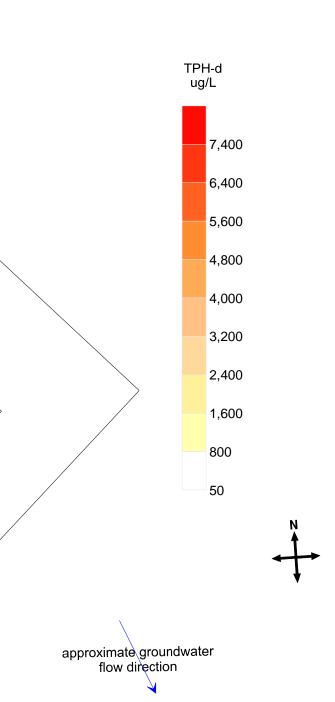
approximate groundwater flow direction



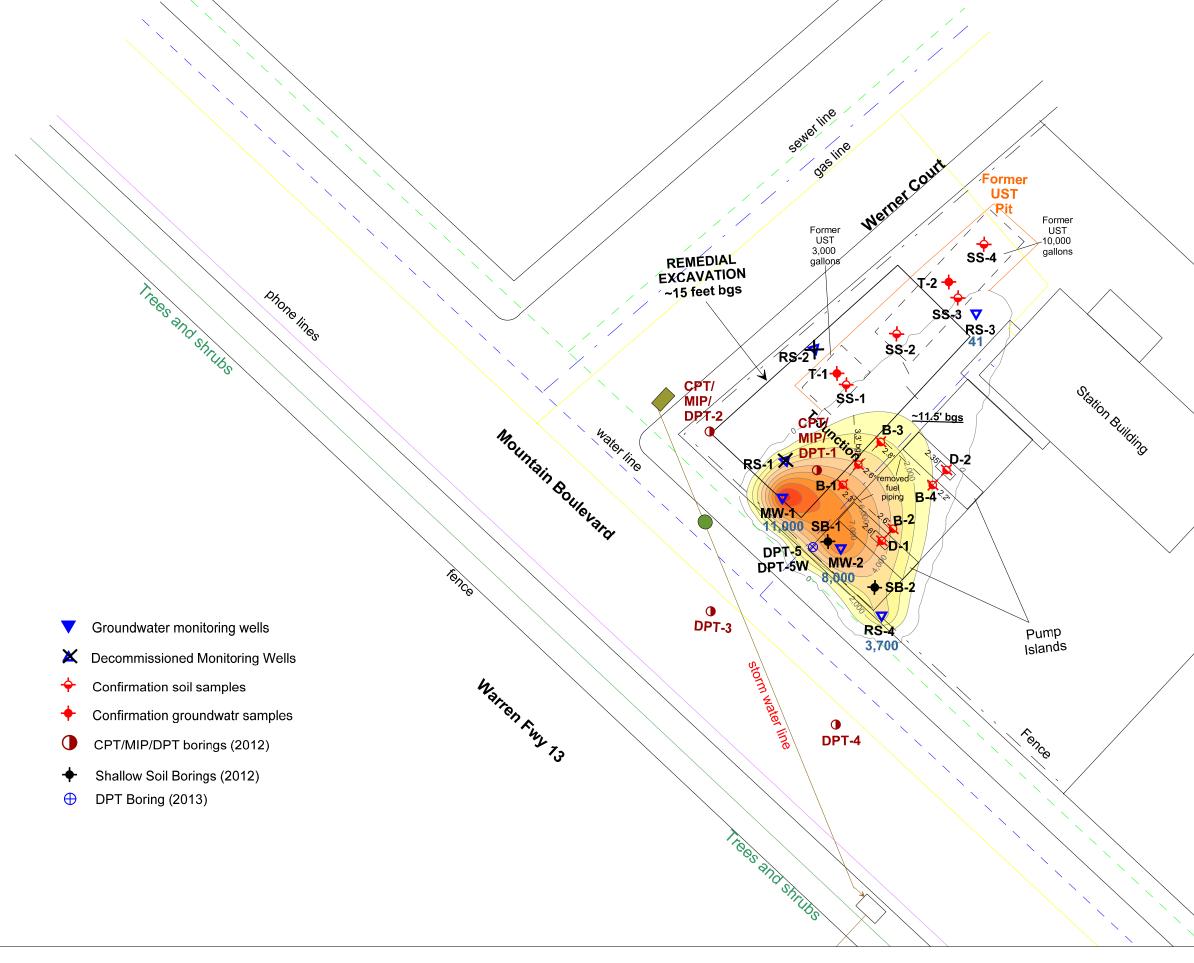


approximate scale in feet 0 20 40

Figure 5: Contour Map Showing TPH-d Concentrations in Groundwater, June 3, 2014

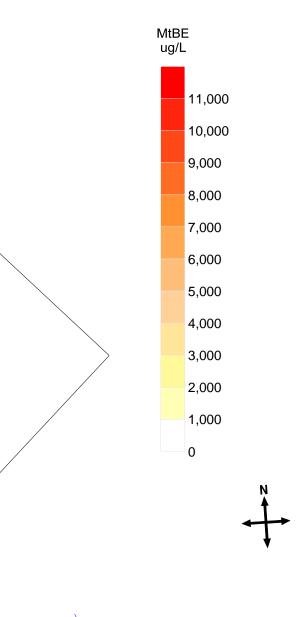


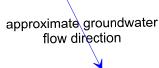




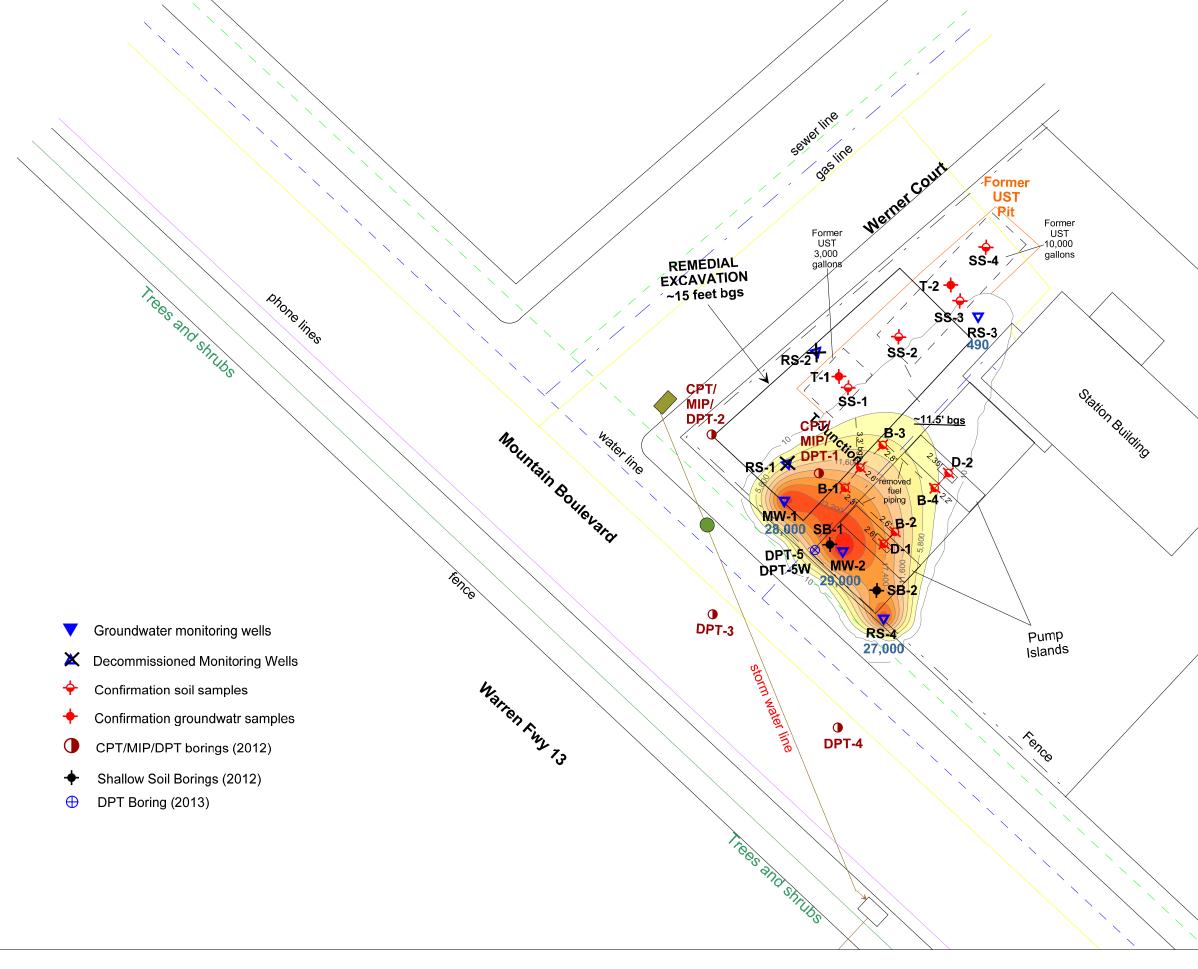
approximate scale in feet

Figure 6: Contour Map Showing MtBE Concentrations in Groundwater, June 3, 2014

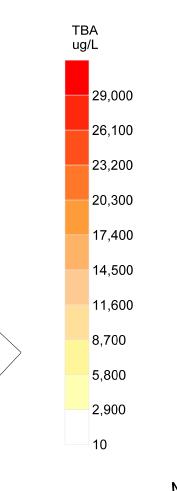








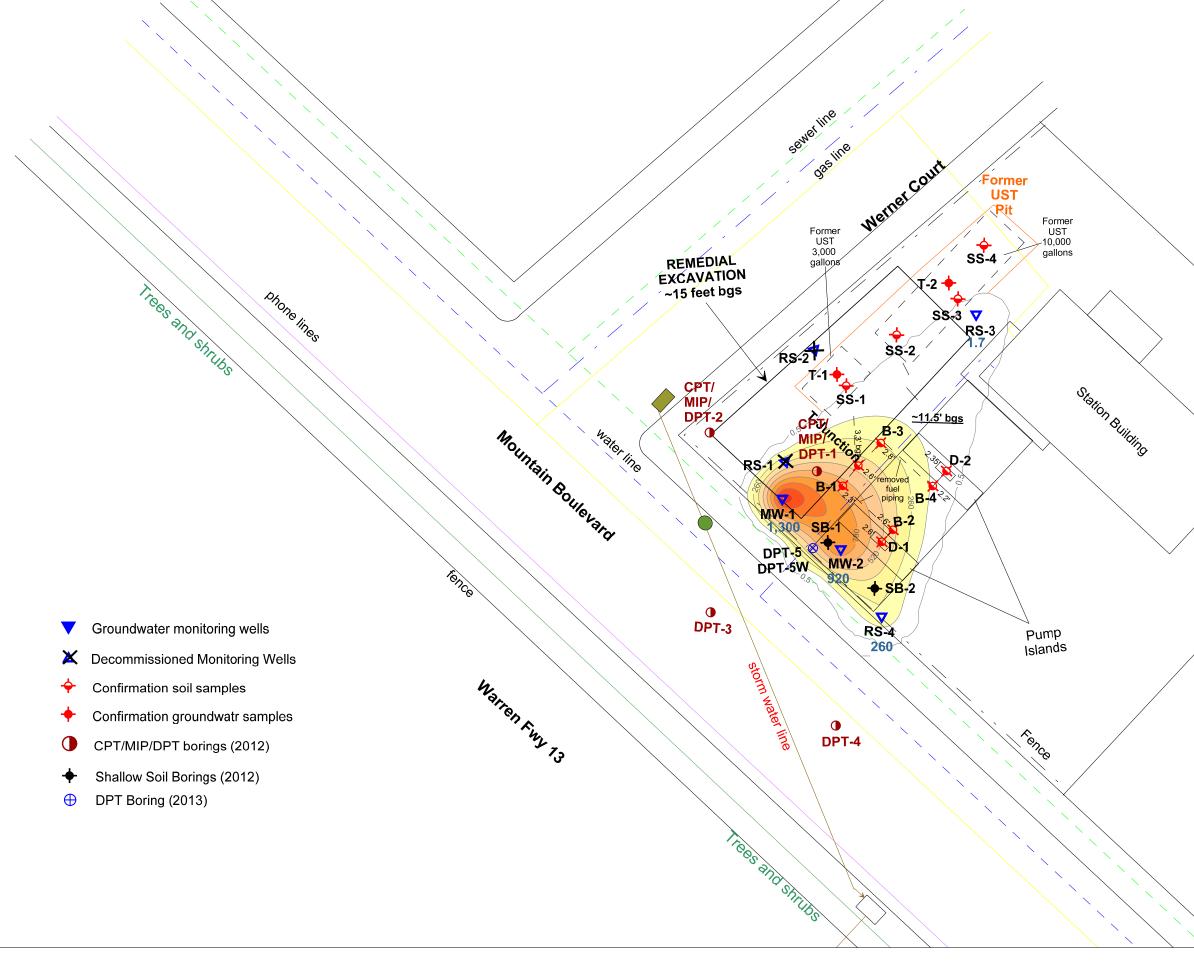
| | approximate scale in feet | |
|---|---------------------------|----|
| | | |
| 0 | 20 | 40 |



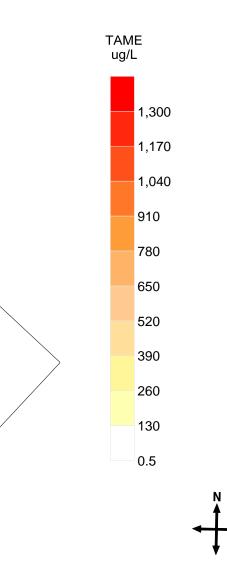
+

approximate groundwater flow direction





approximate scale in feet



approximate groundwater flow direction



Tables

Second Quarter 2014 Groundwater Monitoring Report



| Monitoring Well | Date | Casing Elevation (Ft.) | Depth to Top Fluid (Ft.) | Depth to Groundwat er (Ft.) | Free-Product Thickness | Groundwater Elevation | TPH-g μg/L | TPH-d μg/L | TPH-mo μg/L | Benzene μg/L | Toluene μg/L | Ethylbenz ene μg/L | Xylenes μg/L | MtBE µg/L | TBA μg/L | TAME μg/L |
|-----------------|----------|------------------------------|--------------------------------|-----------------------------------|---------------------------|--------------------------|---------------|---------------|----------------|-----------------|-----------------|-----------------------|-----------------|--------------|-------------|--------------|
| RS-1 | 5/1/90 | 675.63 | 7.20 | 7.20 | 0.00 | 668.43 | 2,700 | | | 370 | 420 | 40 | 320 | | | |
| | 5/1/91 | 675.63 | 8.35 | 8.35 | 0.00 | 667.28 | 1,300 | | | 580 | 130 | 62 | 240 | | | |
| | 10/1/91 | 675.63 | 10.22 | 10.22 | 0.00 | 665.41 | 1,100 | | | 140 | 100 | 45 | 210 | | | |
| | 1/1/92 | 675.63 | 8.06 | 8.06 | 0.00 | 667.57 | 1,700 | | | 9.9 | 31 | 9.7 | 170 | | | |
| | 1/1/93 | 675.63 | 5.30 | 5.30 | 0.00 | 670.33 | 3,700 | | | 650 | 9.2 | 51 | 170 | | | |
| | 8/1/93 | 675.63 | 8.56 | 8.56 | 0.00 | 667.07 | 900 | | | 14 | 0.6 | 2.1 | 8 | | | |
| | 11/1/93 | 675.63 | 8.44 | 8.44 | 0.00 | 667.19 | 1,400 | | | 9.6 | ND | 0.9 | 5 | | | |
| | 1/1/94 | 675.63 | 6.88 | 6.88 | 0.00 | 668.75 | 4,200 | | | 95 | 3.1 | 58 | 130 | | | |
| | 5/1/94 | 675.63 | 7.87 | 7.87 | 0.00 | 667.76 | 7,500 | | | 270 | 11 | 37 | 96 | | | |
| | 8/1/94 | 675.63 | 16.28 | 16.28 | 0.00 | 659.35 | 130 | | | 12 | 0.5 | 2.6 | 5 | | | |
| | 11/1/94 | 675.63 | 8.02 | 8.02 | 0.00 | 667.61 | 270 | | | 4.7 | 0.7 | 0.6 | 15 | | | |
| | 2/1/95 | 675.63 | 6.51 | 6.51 | 0.00 | 669.12 | 12,000 | | | 81 | 2.3 | 1 | 12 | | | |
| | 6/1/95 | 675.63 | 7.34 | 7.34 | 0.00 | 668.29 | 37,000 | | | 460 | ND | ND | ND | 63,000 | | |
| | 11/1/95 | 675.63 | 8.71 | 8.71 | 0.00 | 666.92 | ND | | | 660 | 16 | 140 | 330 | 31,000 | | |
| | 2/1/96 | 675.63 | 6.95 | 6.95 | 0.00 | 668.68 | 66,000 | | | 110 | ND | 12 | 21 | 84,000 | | |
| | 9/18/96 | 675.63 | 8.44 | 8.52 | 0.08 | 667.17 | | ATING PROI | DUCT | | | | | | | |
| | 12/11/96 | 675.63 | 6.42 | 6.62 | 0.20 | 669.17 | 79,000 | | | 4,000 | 37,000 | 8,000 | 45,000 | 220,000 | | |
| | 2/21/97 | 675.63 | 6.88 | 6.92 | 0.04 | 668.74 | | LOATING PR | ODUCT | | | | | | | |
| | 5/28/97 | 675.63 | 7.88 | 7.96 | 0.08 | 667.73 | 156,000 | | | 9,400 | 51,000 | 7,000 | 45,000 | 112,000 | | |
| | 9/2/97 | 675.63 | 8.34 | 8.38 | 0.04 | 667.28 | | LOATING PR | | | | | | | | |
| | 11/24/97 | 675.63 | 6.98 | 7.00 | 0.02 | 668.65 | | LOATING PR | | | | | | | | |
| | 2/25/98 | 675.63 | 3.51 | 3.52 | 0.01 | 672.12 | · · | LOATING PR | ODUCT | | | | | | | |
| | 5/27/98 | 675.63 | 7.31 | 7.31 | 0.00 | 668.32 | 40,000 | | | 2,200 | 4,000 | 2,300 | 19,000 | 350,000 | | |
| | 9/16/98 | 675.63 | 8.10 | 8.10 | 0.00 | 667.53 | 62,000 | | | 2,400 | 2,300 | 2,100 | 14,000 | 250,000 | | |
| | 11/23/98 | 675.63 | 7.10 | 7.10 | 0.00 | 668.53 | 99,000 | | | 2,600 | 5,800 | 2,500 | 18,000 | 130,000 | | |
| | 2/23/99 | 675.67 | 4.82 | 4.87 | 0.05 | 670.84 | | LOATING PR | ODUCT | | | | | | | |
| | 5/5/99 | 675.67 | 6.86 | 6.90 | 0.04 | 668.80 | FLOATING I | | | | | | | | | |
| | 8/24/99 | 675.67 | 7.87 | 7.90 | 0.03 | 667.80 | FLOATING I | | | | | | | | | |
| | 2/8/12 | 675.67 | 6.80 | 6.80 | 0.00 | 668.87 | 60,000 x | 8,200 x | <936 | 790 | <6.4 | 2,000 | 430 | 65,000 | 41,000 | 5,100 |
| | 5/4/12 | 675.67 | 6.57 | 6.57 | 0.00 | 669.10 | 18,000 | 10,000 | NA | 600 | <36 | 2,000 | 870 | 22,000 | 11,000 | 1,800 |
| | 8/6/12 | 675.67 | 7.61 | 7.61 | 0.00 | 668.06 | 16,000 | 12,000 | NA | 940 | <130 | 2,000 | 560 | 42,000 | 35,000 | 3,400 |
| | | | | | | | Well Destro | oyed Octob | er 1, 2012 | | | | | | | |
| RS-2 | 5/1/90 | 689.00 | 7.06 | 7.06 | 0.00 | 681.94 | 23,000 | | | 7,200 | 4,800 | 300 | 3,300 | | | |
| | 5/1/91 | 689.00 | 7.14 | 7.14 | 0.00 | 681.86 | 26,000 | | | 14,000 | 1,800 | 750 | 2,900 | | | |
| | 10/1/91 | 688.89 | 8.84 | 8.84 | 0.00 | 680.05 | 13,000 | | | 4,300 | 910 | 300 | 2,300 | | | |
| | 1/1/92 | 688.89 | 7.34 | 7.34 | 0.00 | 681.55 | 8,300 | | | 1,800 | 920 | 140 | 1,700 | | | |
| | 1/1/93 | 688.89 | 4.10 | 4.10 | 0.00 | 684.79 | 41,000 | | | 7,000 | 210 | 1,200 | 4,200 | | | |
| | 8/1/93 | 688.89 | 7.32 | 7.32 | 0.00 | 681.57 | 19,000 | | | 5,300 | 62 | 810 | 1,600 | | | |
| | 11/1/93 | 688.89 | 7.34 | 7.34 | 0.00 | 681.55 | 9,300 | | | 2,400 | 3.90 | 46 | 800 | | | |

| Table 1 |
|---|
| Historical Groundwater Analytical Results |
| 2844 Mountain Boulevard, Oakland, CA |

| Monitoring Well | Date | Casing Elevation (Ft.) | Depth to Top Fluid (Ft.) | Depth to Groundwat er (Ft.) | Free-Product Thickness | Groundwater Elevation | TPH-g μg/L | TPH-d μg/L | TPH-mo μg/L | Benzene µg/L | Toluene μg/L | Ethylbenz ene μg/L | Xylenes μg/L | MtBE µg/L | TBA μg/L | TAME μg/L |
|-----------------|----------|------------------------------|--------------------------------|-----------------------------------|---------------------------|--------------------------|---------------|---------------|----------------|-----------------|-----------------|-----------------------|-----------------|--------------|-------------|--------------|
| RS-2 cont. | 1/1/94 | 688.89 | 5.52 | 5.52 | 0.00 | 683.37 | 30,000 | | | 4,900 | ND | 880 | 2,600 | | | |
| | 5/1/94 | 675.25 | 6.40 | 6.40 | 0.00 | 668.85 | 120,000 | | | 3,300 | 330 | ND | 2,200 | | | |
| | 8/1/94 | 675.25 | | | 0.00 | 675.25 | 510 | | | 7.30 | 3.80 | 3.50 | 32 | | | |
| | 11/1/94 | 675.25 | 9.82 | 9.82 | 0.00 | 665.43 | 620 | | | 6.60 | 3.90 | 1.10 | 47 | | | |
| | 2/1/95 | 675.25 | 4.81 | 4.81 | 0.00 | 670.44 | 22,000 | | | 228 | 80 | 2 | 463 | | | |
| | 6/1/95 | 675.25 | 5.80 | 5.80 | 0.00 | 669.45 | 49,000 | | | 1,300 | 160 | 200 | 1,600 | 71,000 | | |
| | 11/1/95 | 675.25 | 7.64 | 7.64 | 0.00 | 667.61 | ND | | | 670 | 25 | 150 | 360 | 65,000 | | |
| | 2/1/96 | 675.25 | 4.69 | 4.69 | 0.00 | 670.56 | 75,000 | | | 1,400 | 170 | 59 | 460 | 71,000 | | |
| | 9/18/96 | 675.25 | 7.34 | 7.34 | 0.00 | 667.91 | 6,300 | | | 2,000 | 48 | 350 | 570 | 160,000 | | |
| | 12/11/96 | 675.25 | 5.08 | 5.08 | 0.00 | 670.17 | 16,000 | | | 2,000 | 840 | 200 | 3,200 | 180,000 | | |
| | 2/21/97 | 675.25 | 5.42 | 5.42 | 0.00 | 669.83 | 22,000 | | | 2,100 | 1,300 | 600 | 5,100 | 56,000 | | |
| | 5/28/97 | 675.25 | 6.40 | 6.40 | 0.00 | 668.85 | 156,000 | | | 4,200 | 89 | 1,000 | 6,900 | 390,000 | | |
| | 9/2/97 | 675.25 | 6.93 | 6.93 | 0.00 | 668.32 | <50 | | | 1,300 | 25 | 360 | 1,400 | 180,000 | | |
| | 11/24/97 | 675.25 | 5.93 | 5.93 | 0.00 | 669.32 | <50 | | | 600 | ND | ND | ND | 610,000 | | |
| | 2/25/98 | 675.25 | 4.59 | 4.59 | 0.00 | 670.66 | 11,000 | | | 1,100 | <50 | 320 | 2,400 | 330,000 | | |
| | 5/27/98 | 675.25 | 5.61 | 5.61 | 0.00 | 669.64 | 13,000 | | | 2,000 | 150 | 600 | 2,700 | 380,000 | | |
| | 9/16/98 | 675.25 | 6.84 | 6.84 | 0.00 | 668.41 | 11,000 | | | 1,600 | 20 | 1,600 | 1,600 | 280,000 | | |
| | 11/23/98 | 675.25 | 6.24 | 6.24 | 0.00 | 669.01 | 12,000 | | | 1,200 | 84 | <5 | 960 | 140,000 | | |
| | 2/23/99 | 675.28 | 4.62 | 4.62 | 0.00 | 670.66 | 8,800 | | | 1,500 | 650 | 640 | 1,500 | 450,000 | | |
| | 5/5/99 | 675.28 | 7.55 | 7.55 | 0.00 | 667.73 | 29,000 | | | 2,000 | 1,300 | 500 | 3,700 | 270,000 | | |
| | 8/24/99 | 675.28 | 6.62 | 6.62 | 0.00 | 668.66 | 12,000 | | | 1,900 | 20 | 370 | 980 | 340,000 | | |
| | 2/8/12 | 675.28 | 5.52 | 5.52 | 0.00 | 669.76 | 18,000 x | 6,800 x | <378 | 540 | <6.4 | 120 | 710 | 2,800 | 64,000 | 420 |
| | 5/4/12 | 675.28 | 5.18 | 5.18 | 0.00 | 670.10 | 16,000 | 13,000 | NA | 690 | 23 | 460 | 1,140 | 6,800 | 21,000 | 960 |
| | 8/6/12 | 675.28 | 6.33 | 6.33 | 0.00 | 668.95 | 11,000 | 10,000 | NA | 810 | <25 | 210 | 473 | 3,300 | 18,000 | 580 |
| | | | | | | | Well Destro | oyed Octob | er 1, 2012 | | | | | | | |
| | | | | | | | | | | | | | | | | |
| RS-3 | 5/1/90 | 670.00 | 6.00 | 6.00 | 0.00 | 664.00 | 330 | | | 2 | 1 | 1 | 150 | | | |
| | 5/1/91 | 670.00 | 6.76 | 6.76 | 0.00 | 663.24 | ND | | | 0.40 | ND | 0.80 | 8 | | | |
| | 10/1/91 | 670.00 | 8.98 | 8.98 | 0.00 | 661.02 | ND | | | ND | ND | ND | ND | | | |
| | 1/1/92 | 670.00 | 6.81 | 6.81 | 0.00 | 663.19 | ND | | | 2.20 | 7.20 | 0.60 | 4 | | | |
| | 1/1/93 | 670.00 | 4.05 | 4.05 | 0.00 | 665.95 | ND | | | ND | ND | ND | ND | | | |
| | 8/1/93 | 670.00 | 7.19 | 7.19 | 0.00 | 662.81 | ND | | | 30 | 6 | 2.40 | 5 | | | |
| | 11/1/93 | 670.00 | 7.12 | 7.12 | 0.00 | 662.88 | ND | | | 4.80 | 0.40 | 0.60 | 2 | | | |
| | 1/1/94 | 670.00 | 5.42 | 5.42 | 0.00 | 664.58 | 330 | | | 25 | 3.20 | 3.90 | 12 | | | |
| | 5/1/94 | 676.20 | 5.78 | 5.78 | 0.00 | 670.42 | 670 | | | 34 | 4 | 28 | 70 | | | |
| | 8/1/94 | 676.20 | 5.86 | 5.86 | 0.00 | 670.34 | ND | | | ND | ND | ND | ND | | | |
| | 11/1/94 | 676.20 | 5.08 | 5.08 | 0.00 | 671.12 | 69 | | | 2.50 | 3.10 | 1 | 4 | | | |
| | 2/1/95 | 676.20 | 4.51 | 4.51 | 0.00 | 671.69 | ND | | | 0.30 | 0.40 | ND | 1 | | | |
| | 6/1/95 | 676.20 | 5.29 | 5.29 | 0.00 | 670.91 | ND | | | ND | ND | ND | ND | 66 | | |
| | 11/1/95 | 676.20 | 7.10 | 7.10 | 0.00 | 669.10 | ND | | | ND | ND | ND | ND | 44 | | |

Table 1 Historical Groundwater Analytical Results 2844 Mountain Boulevard, Oakland, CA

| Monitoring Well | Date | Casing Elevation (Ft.) | Depth to Top Fluid (Ft.) | Depth to Groundwat er (Ft.) | Free-Product Thickness | Groundwater Elevation | TPH-g μg/L | TPH-d μg/L | TPH-mo μg/L | Benzene μg/L | Toluene μg/L | Ethylbenz ene μg/L | Xylenes μg/L | MtBE μg/L | TBA μg/L | TAME μg/L |
|-----------------|----------|------------------------------|--------------------------------|-----------------------------------|---------------------------|--------------------------|---------------|------------------|----------------|-----------------|-----------------|-----------------------|-----------------|--------------|-------------|--------------|
| RS-3 cont. | 2/1/96 | 676.20 | 4.48 | 4.48 | 0.00 | 671.72 | 120 | | | ND | ND | ND | ND | 110 | | |
| | 9/18/96 | 676.20 | 6.92 | 6.92 | 0.00 | 669.28 | 1,000 | | | 13 | 8.60 | 10 | 17 | 33 | | |
| | 12/11/96 | 676.20 | 4.90 | 4.90 | 0.00 | 671.30 | 85 | | | 20 | 2 | <0.5 | 14 | 4,700 | | |
| | 2/21/97 | 676.20 | 4.94 | 4.94 | 0.00 | 671.26 | 120 | | | 5 | 2 | 2 | 6 | 850 | | |
| | 5/28/97 | 676.20 | 7.92 | 7.92 | 0.00 | 668.28 | <50 | | | 6 | <0.5 | <0.5 | <2 | 2,400 | | |
| | 9/2/97 | 676.20 | 6.60 | 6.60 | 0.00 | 669.60 | <50 | | | 0.90 | <0.5 | <0.5 | <2 | 8,600 | | |
| | 11/24/97 | 676.20 | 5.89 | 5.89 | 0.00 | 670.31 | 140 | | | 13 | 2 | 1 | 12 | 3,600 | | |
| | 2/25/98 | 676.20 | 4.29 | 4.29 | 0.00 | 671.91 | <50 | | | <0.5 | <0.5 | <0.5 | 4 | 850 | | |
| | 5/27/98 | 676.20 | 5.01 | 5.01 | 0.00 | 671.19 | <50 | | | 7 | <0.5 | <0.5 | 11 | 940 | | |
| | 9/16/98 | 676.20 | 6.21 | 6.21 | 0.00 | 669.99 | <50 | | | 2 | 2 | 2 | 10 | 670 | | |
| | 11/24/98 | 676.20 | 5.58 | 5.58 | 0.00 | 670.62 | 85 | | | 9 | 23 | <0.5 | 19 | 180 | | |
| | 2/24/99 | 676.23 | 4.30 | 4.30 | 0.00 | 671.93 | <50 | | | <0.5 | 0.90 | <0.5 | <1.0 | 150 | | |
| | 5/5/99 | 676.23 | 4.92 | 4.92 | 0.00 | 671.31 | <50 | | | 1 | 2 | 1 | 6 | 130 | | |
| | 8/24/99 | 676.23 | 6.64 | 6.64 | 0.00 | 669.59 | 80 | | | 0.80 | <0.5 | 0.60 | <1 | 300 | | |
| | 2/8/12 | 676.23 | 5.72 | 5.72 | 0.00 | 670.51 | 130 x | <42 | <94 | <0.13 | 0.59 | 2.90 | 18.1 | 7.9 | <1.5 | <0.17 |
| | 5/4/12 | 676.23 | 5.25 | 5.25 | 0.00 | 670.98 | <50 | 330 Y | NA | <0.5 | <0.5 | <0.5 | <0.5 | 10 | 18 | 2.4 |
| | 8/6/12 | 676.23 | 6.65 | 6.65 | 0.00 | 669.58 | <50 | 390 Y | NA | <0.5 | <0.5 | <0.5 | <0.5 | 13 | <10 | 3.2 |
| | 3/29/13 | 676.23 | 6.01 | 6.01 | 0.00 | 670.22 | <50 | 90 ^Y | NA | <0.5 | <0.5 | <0.5 | <0.5 | 3.6 | <10 | <0.5 |
| | 6/6/13 | 676.08 | 6.45 | 6.45 | 0.00 | 669.63 | <50 | 66 ^Y | NA | <0.5 | <0.5 | <0.5 | <0.5 | 1.5 | <10 | <0.5 |
| | 9/4/13 | 676.08 | 6.91 | 6.91 | 0.00 | 669.17 | <50 | 170 ^Y | NA | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <0.5 |
| | 12/30/13 | 676.08 | 7.21 | 7.21 | 0.00 | 668.87 | <50 | 61 ^Y | NA | <0.5 | <0.5 | <0.5 | < 0.5 | 21 | 680 | 0.64 |
| | 3/10/14 | 676.08 | 5.68 | 5.68 | 0.00 | 670.40 | <50 | <50 | NA | < 0.5 | <0.5 | < 0.5 | < 0.5 | 14 | 320 | 0.61 |
| | 6/3/14 | 676.08 | 6.72 | 6.72 | 0.00 | 669.36 | <50 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | 41 | 490 | 1.70 |
| | | | | | | | _ | | | | | | | | | |
| RS-4 | 5/1/90 | 675.38 | 8.34 | 8.34 | 0.00 | 667.04 | 440 | | | 9 | 11 | 9 | 49 | | | |
| | 5/1/91 | 675.38 | 9.50 | 9.50 | 0.00 | 665.88 | ND | | | 8 | 4 | 3 | 5 | | | |
| | 10/1/91 | 675.38 | 10.82 | 10.82 | 0.00 | 664.56 | 830 | | | 280 | 120 | 24 | 170 | | | |
| | 1/1/92 | 675.38 | 9.31 | 9.31 | 0.00 | 666.07 | 620 | | | 34 | 8.30 | 2.10 | 21 | | | |
| | 1/1/93 | 675.38 | 6.89 | 6.89 | 0.00 | 668.49 | 150 | | | 32 | 1.70 | 5.80 | 13 | | | |
| | 8/1/93 | 675.38 | 9.68 | 9.68 | 0.00 | 665.70 | ND | | | 0.90 | 0.70 | ND | 0 | | | |
| | 11/1/93 | 675.38 | 9.83 | 9.83 | 0.00 | 665.55 | ND | | | ND | ND | ND | ND | | | |
| | 1/1/94 | 675.38 | 8.17 | 8.17 | 0.00 | 667.21 | ND | | | 1.70 | ND | 0.81 | 2 | | | |
| | 5/1/94 | 675.38 | 8.69 | 8.69 | 0.00 | 666.69 | ND | | | ND | ND | ND | 1 | | | |
| | 8/1/94 | 675.38 | 9.04 | 9.04 | 0.00 | 666.34 | 420 | | | 6.50 | 4.10 | 1.90 | 40 | | | 1 |
| | 11/1/94 | 675.38 | 8.00 | 8.00 | 0.00 | 667.38 | 130 | | | 4.10 | 0.70 | 1.70 | 8 | | | 1 |
| | 2/1/95 | 675.38 | 7.93 | 7.93 | 0.00 | 667.45 | ND | | | 6 | 1.20 | 3.50 | 13 | | | 1 |
| | 6/1/95 | 675.38 | 8.61 | 8.61 | 0.00 | 666.77 | ND | | | ND | ND | ND | ND | 69 | | l |
| | 11/1/95 | 675.38 | 10.43 | 10.43 | 0.00 | 664.95 | ND | | | ND | ND | ND | ND | 47 | | l |
| | 2/1/96 | 675.38 | 7.44 | 7.44 | 0.00 | 667.94 | 960 | | | ND | ND | 0.60 | ND | 80 | | 1 |
| | 9/18/96 | 675.38 | 9.58 | 9.58 | 0.00 | 665.80 | <50 | | | <0.5 | <0.5 | <0.5 | <2 | 200 | | l |
| | 12/11/96 | 675.38 | 7.50 | 7.50 | 0.00 | 667.88 | 75 | | | <0.5 | 0.60 | <0.5 | <0.5 | 104 | | l |
| | 2/21/97 | 675.38 | 8.26 | 8.26 | 0.00 | 667.12 | <50 | | | 1 | 1 | <0.5 | 1 | 190 | | l |
| | 5/28/97 | 675.38 | 8.92 | 8.92 | 0.00 | 666.46 | <50 | | | 6 | <0.5 | <0.5 | <2 | 110 | | 1 |
| | 9/2/97 | 675.38 | 9.39 | 9.39 | 0.00 | 665.99 | 100 | | | 3 | <0.5 | <0.5 | <2 | 39 | | l |
| | 11/24/97 | 675.38 | 8.22 | 8.22 | 0.00 | 667.16 | 41 | | | <0.5 | 2 | <0.5 | <2 | 210 | | 1 |

Table 1 Historical Groundwater Analytical Results 2844 Mountain Boulevard, Oakland, CA

| Monitoring Well | Date | Casing Elevation (Ft.) | Depth to Top Fluid (Ft.) | Depth to Groundwat er (Ft.) | Free-Product Thickness | Groundwater Elevation | TPH-g μg/L | TPH-d μg/L | TPH-mo μg/L | Benzene μg/L | Toluene μg/L | Ethylbenz ene μg/L | Xylenes μg/L | MtBE µg/L | TBA μg/L | TAME μg/L |
|-----------------|----------------|------------------------------|--------------------------------|-----------------------------------|---------------------------|--------------------------|---------------|---------------|----------------|-----------------|-----------------|-----------------------|-----------------|--------------|-------------|--------------|
| RS-4 cont. | 2/25/98 | 675.38 | 7.19 | 7.19 | 0.00 | 668.19 | <50 | | | 3 | <0.5 | <0.5 | <1 | 5,600 | | |
| | 5/27/98 | 675.38 | 8.40 | 8.40 | 0.00 | 666.98 | <50 | | | <0.5 | <0.5 | <0.5 | <1 | 2,400 | | |
| | 9/16/98 | 675.38 | 9.26 | 9.26 | 0.00 | 666.12 | <50 | | | <0.5 | <0.5 | <0.5 | <1 | 230 | | |
| | 11/24/98 | 675.38 | 8.50 | 8.50 | 0.00 | 666.88 | <50 | | | 2 | <0.5 | <0.5 | <1 | 100 | | |
| | 2/24/99 | 675.42 | 7.20 | 7.20 | 0.00 | 668.22 | <50 | | | 2 | 3 | 0.80 | 5 | 670 | | |
| | 5/5/99 | 675.42 | 8.37 | 8.37 | 0.00 | 667.05 | 100 | | | <0.5 | <0.5 | <0.5 | <1 | 440 | | |
| | 8/24/99 | 675.42 | 8.36 | 8.36 | 0.00 | 667.06 | <50 | | | <0.5 | <0.5 | <0.5 | <1 | <500 | | |
| | 2/8/12 | 675.42 | 8.11 | 8.11 | 0.00 | 667.31 | 140,000 | 130,000 x | <9,360 | 120 | 2,600 | 4,700 | 28,200 | 28,000 | 100,000 | 1,800 |
| | 5/4/12 | 675.42 | 8.31 | 8.31 | 0.00 | 667.11 | 67,000 | 12,000 Y | NA | 61 | 900 | 2,100 | 9,700 | 32,000 | 69,000 | 1,700 |
| | 8/6/12 | 675.42 | 9.01 | 9.01 | 0.00 | 666.41 | 49,000 | 8,900 | NA | <130 | 350 | 1,700 | 8,100 | 19,000 | 90,000 | 1,300 |
| | 3/29/13 | 675.42 | 8.49 | 8.49 | 0.00 | 666.93 | 14,000 | 14,000 | NA | <100 | <100 | 440 | 1,340 | 14,000 | 110,000 | 590 |
| | 6/6/13 | 675.27 | 8.48 | 8.48 | 0.00 | 666.79 | 12,000 | 7,200 | NA | 11 | <3.6 | 420 | 886 | 16,000 | 66,000 | 970 |
| | 9/4/13 | 675.27 | 9.39 | 9.39 | 0.00 | 665.88 | 20,000 | 5,100 | NA | <100 | <100 | 660 | 2,830 | 18,000 | 75,000 | 1,200 |
| | 12/30/13 | 675.27 | 9.57 | 9.57 | 0.00 | 665.70 | <13,000 | 9,900 | NA | <130 | <130 | <130 | 150 | 16,000 | 37,000 | 1,100 |
| | 3/10/14 | 675.27 | 7.65 | 7.65 | 0.00 | 667.62 | <10,000 | 3,700 | NA | <100 | <100 | <100 | <100 | 11,000 | 38,000 | 640 |
| | 6/3/14 | 675.27 | 9.27 | 9.27 | 0.00 | 666.00 | <3,600 | 4,400 | NA | <36 | <36 | 40 | <36 | 3,700 | 27,000 | 260 |
| | | | | | | | | | | | | | | | | |
| MW-1 | 6/6/13 | 674.92 | 6.03 | 6.03 | 0.00 | 668.89 | <17,000 | 13,000 | NA | 930 | 370 | 470 | 1,760 | 55,000 | 32,000 | 7,200 |
| | 9/4/13 | 674.92 | 7.10 | 7.10 | 0.00 | 667.82 | <50,000 | 13,000 | NA | 2,000 | <500 | 1,400 | 4,200 | 70,000 | 48,000 | 7,700 |
| | 12/30/13 | 674.92 | 7.27 | 7.27 | 0.00 | 667.65 | 34,000 | 13,000 | NA | 920 | 1,000 | 1,300 | 4,900 | 43,000 | 43,000 | 4,500 |
| | 3/10/14 | 674.92 | 5.51 | 5.51 | 0.00 | 669.41 | <20,000 | 11,000 | NA | 720 | <200 | 890 | 1,970 | 25,000 | 30,000 | 2,600 |
| | 6/3/14 | 674.92 | 6.74 | 6.74 | 0.00 | 668.18 | 8,900 | 7,400 | NA | 350 | <83 | 550 | 1,420 | 11,000 | 28,000 | 1,300 |
| | | | | | | | | | | | | | | | | |
| MW-2 | 6/6/13 | 675.02 | 6.70 | 6.70 | 0.00 | 668.32 | 16,000 | 5,400 | NA | 910 | <130 | 610 | 2,290 | 59,000 | 64,000 | 7,700 |
| | 9/4/13 | 675.02 | 7.79 | 7.79 | 0.00 | 667.23 | <25,000 | 3,900 | NA | 860 | <250 | 710 | 1,580 | 32,000 | 31,000 | 4,600 |
| | 12/30/13 | 675.02 | 8.05 | 8.05 | 0.00 | 666.97 | <13,000 | 6,300 | NA | 180 | <130 | <130 | 330 | 18,000 | 53,000 | 1,800 |
| | 3/10/14 | 675.02 | 6.08 | 6.08 | 0.00 | 668.94 | 14,000 | 11,000 | NA | 210 | <130 | 360 | 700 | 15,000 | 40,000 | 1,800 |
| | 6/3/14 | 675.02 | 7.54 | 7.54 | 0.00 | 667.48 | <7,100 | 6,200 | NA | 170 | <71 | 310 | 150 | 8,000 | 29,000 | 920 |
| ESLs (µg/L) | Ground-wate | r | | | | | 100 | 100 | 100 | 1.00 | 40 | 30 | 20 | 5.00 | 12 | NL |
| L3L3 (µg/L) | Vapor Intrusio | on | | | | | NV | NV | NV | 27 | 95,000 | 310 | 37,000 | 9,900 | NV | NL |

Note:

< : Below Laboratory Reporting Limit (Method Detection Limit)

x : Does not match pattern of reference Gasoline standard/ Not typical of diesel standard pattern (possibly fuel lighter than diesel)

ESL: Environmental Screening Level by California Regional Water Quality Control Board San Francisco Bay Region

December 2013 (Table-F1a, groundwater is a current or potential drinking water source)

NL: Not Listed

NV: No Value

Appendix A

Standard Operating Procedures for Conducting Groundwater Monitoring Activities

Second Quarter 2014 Groundwater Monitoring Report

Standard Operating Procedures for Conducting Groundwater Monitoring Activities

Water Level Measurements

Prior to measurement of groundwater depth at each monitoring 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 in each monitoring well is measured from the top of the casing to the nearest 0.01 foot using an electric sounder.

Purging and Field Measurements

Prior to sample collection, each monitoring well is purged using a batteryoperated, 2-inch-diameter pump (Model ES-60 DC). To ensure that final samples are in equilibrium with, and representative of, the surrounding groundwater, during purging several samples are taken for field measurements of pH, temperature and electrical conductivity (EC). These parameters are measured with a Hanna pH, conductivity, and temperature meter. Equipment is calibrated on-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.

Purging continues until these parameters stabilize or three casing volumes are purged.

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 to 40-mL VOA vials and preserved with hydrochloric acid. The vials are sealed to prevent air bubbles from forming within the headspace. For TPH-d and TPH-mo analysis, groundwater samples are collected using 1-L, amber, nonpreserved 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

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

TABLE OF ELEVATIONS & COORDINATES ON MONITORING WELLS

SOMA ENVIRONMENTAL ENGINEERING 2844 MOUNTAIN BLVD OAKLAND, CA 94602

| WELL ID # | NORTHING (FT.) / LATITUDE (D.DEG.) | EASTING (FT.) / LONGITUDE (D.DEG.) | ELEVATION (FT.) | DESCRIPTION |
|--------------|---------------------------------------|---------------------------------------|-----------------|--------------------------|
| MW-1 | 2122404.169 | 6071174.709 | 674.92 | SET NOTCH N. SIDE 4" PVC |
| | N37.81151896 | W122.1980061 | 675.50 | SET PUNCH N. SIDE |
| | | | 675.49 | NORTH SIDE AC |
| MW-2 | 2122393.627 | 6071186.912 | 675.02 | SET NOTCH N. SIDE 4" PVC |
| | N37.81149062 | W122.1979632 | 675.53 | SET PUNCH N. SIDE |
| | | | 675.51 | |
| RS-3 | 2122442.569 | 6071215.114 | 676.08 | SET NOTCH N. SIDE 4" PVC |
| | N37.81162641 | W122.1978687 | 676.47 | SET PUNCH N. SIDE |
| | | | 676.38 | NORTH SIDE AC |
| RS-4 | 2122379.611 | 6071195.421 | 675.27 | TOP 4" PVC |
| | N37.81145256 | W122.1979329 | 675.70 | SET PUNCH N. SIDE |
| | | | 675.59 | NORTH SIDE AC |
| | | | | |
| - | | | | |
| | | | | |
| | | | | |
| | | | | |

HORIZONTAL CONTROL: CALIFORNIA COORDINATE SYSTEM ZONE 3, NAD83. ELLIPSOID: WGS 1984

EQUIPMENT USED: TRIMBLE GPS-R8 & TS S6, TOPCON AT-G2 LEVEL

EPOCH: NAD_83 (2011) 2010.0000 GEOID MODEL: GEOID12A

VERTICAL CONTROL: BENCH MARK: CITY OF OAKLAND BM 2806 CINCH NAIL IN SOUTHWESTERLY CURB OF MOUNTAIN BLVD, 150' SOUTHEASTERLY FROM THE CENTERLINE OF KEARNEY AVE EXTENDED. NORTHING 2,122,547.687', EASTING 6,070,956.301' ELEVATION= 674.892' NAVD 88 DATUM



EDGIS LAND SURVEYING LAND SURVEYING AND MAPPING 1374 Garland Avenue, Clovis, CA 93612 Phone (559) 803-2679 email: edgis@aol.com



ENVIRONMENTAL ENGINEERING, INC

| Well No.: Casing Diameter: Depth of Well: Top of Casing Elevation: Depth to Groundwater: Groundwater Elevation: Water Column Height: Purged Volume: | $\begin{array}{c c} RS-3 \\ \hline 4 \\ 1000 \\ \hline 24.99 \\ \hline 6et \\ \hline 6.72 \\ \hline 6.72 \\ \hline 6et \\ \hline 6.72 \\ \hline 6et \\ \hline 6.9.27 \\ \hline 6et \\ \hline 8.27 \\ \hline 6et \\ \hline 2 \\ \hline 3llons \\ \hline \end{array}$ | Project No.: Address: Date: Sampler: | 5081 2844 Mountain Blvd. Oakland, CA June 3 , 2014 Lizzie Hightower |
|--|---|---|--|
| Purging Method: | Bailer □ | Pump D | |
| Sampling Method: | Bailer 🗹 | Pump 🗆 | |
| Color: | Yes 🗆 No 🖻 | Describe: | |
| Sheen: | Yes 🗆 No 🗹 | Describe: | |
| Odor: | Yes 🗆 No 🗖 | Describe: | |

Field Measurements:

| Time | Vol (gallons) | рН | Temp (° C) | E.C. (μs/cm) |
|-------|------------------|--------|---------------|-----------------|
| 11:22 | Started | pungin | r well | |
| 11.23 | 3 | 7.13 | 20.3 | 841 |
| 11:24 | d l | 7.08 | 19.3 | 838 |
| 11:25 | 9 | 7.03 | 19.1 | 841 |
| 11:26 | 12 | 7.09 | 19.1 | 842 |
| 11:31 | Sample | d | | |

Notes:



ENVIRONMENTAL ENGINEERING, INC

| Well No.: Casing Diameter: | <u>RS-4</u> <u> </u> | Project No.: Address: | 5081 2844 Mountain Blvd. |
|-------------------------------|-------------------------|--------------------------|-----------------------------|
| Depth of Well: | 25.54 feet | | Oakland, CA |
| Top of Casing Elevation: | <u>675.27</u> feet | Date: | June 💈 , 2014 |
| Depth to Groundwater: | <u>9.27</u> feet | Sampler: | Lizzie Hightower |
| Groundwater Elevation: | <u>bbb.00</u> feet | | |
| Water Column Height: | 16.27 feet | | |
| Purged Volume: | gallons | | |
| | Not pwrged | | |
| Purging Method: | Bailer 🗆 | Pump 🗆 | |
| Sampling Method: | Bailer t | Pump 🗆 | |
| | | | |
| Color: | Yes 🕁 No 🗆 | Describe: | Slightly Cloudy |
| Sheen: | Yes 🗆 No 🕑 | Describe: | |
| Odor: | Yes 🗹 No 🗆 | Describe: | Petro Odor |

Field Measurements:

| Vol (gallons) | рН | Temp (° C) | E.C. (μs/cm) |
|------------------|-------|--------------------------------------|-----------------|
| Grab Si | nuple | | |
| | • | | |
| | | | |
| | | | |
| - | | | 2 |
| | | Vol pH (gallons) Grab Sallyple | |

Notes: Cap left on well from mpE event. Unable to remove because it is too tight. Only able to take



ENVIRONMENTAL ENGINEERING, INC

| Well No.: Casing Diameter: Depth of Well: Top of Casing Elevation: Depth to Groundwater: Groundwater Elevation: Water Column Height: Purged Volume: | $\begin{array}{c c} MW - I \\ \hline H \\ 19.75 \\ 6et \\ 674.92 \\ 6et \\ \hline 6.74 \\ 6et \\ \hline 668.18 \\ 6et \\ \hline 3.01 \\ 6et \\ \hline 2 \\ gallons \end{array}$ | Project No.: Address: Date: Sampler: | 5081 2844 Mountain Blvd. Oakland, CA June 3 , 2014 Lizzie Hightower |
|--|---|---|--|
| Purging Method: Sampling Method: | Bailer 🗆 Bailer 🖭 | Pump g | |
| Color: | Yes 🗆 No 🗗 | Describe: | |
| Sheen: | Yes 🗆 No 🖻 | Describe: | |
| Odor: | Yes 🗗 No 🗆 | Describe: | Petro Odur |

Field Measurements:

| Time | Vol (gallons) | рН | Temp (° C) | E.C. (μs/cm) |
|-------|------------------|-------|---------------|-----------------|
| 12:02 | Started | puzir | gwell | |
| 12:03 | 3 | 6,97 | 18.7 | 860 |
| 12:04 | 6 | 6.90 | 19.0 | 820 |
| 12:05 | 9 | 6.87 | 19.3 | 803 |
| 12:06 | 12 | 6.87 | 19.7 | 802 |
| 12:11 | Sampled | N | | |

Notes:



ENVIRONMENTAL ENGINEERING, INC

| Well No.: Casing Diameter: Depth of Well: Top of Casing Elevation: Depth to Groundwater: Groundwater Elevation: Water Column Height: Purged Volume: | $\begin{array}{c c} M.W-2 \\ \hline 4 \\ 19.74 \\ feet \\ \hline 675.02 \\ feet \\ \hline 7.54 \\ feet \\ \hline 667.48 \\ feet \\ \hline 12.20 \\ feet \\ \hline 22 \\ gallons \end{array}$ | Oakla Date: June | Mountain Blvd. nd, CA 3 , 2014 Hightower |
|--|--|---------------------|--|
| Purging Method: | Bailer 🗆 | Pump | |
| Sampling Method: | Bailer 🖬 | Pump 🗆 | |
| - | | | de |
| Color: | Yes 🖞 No 🗆 | Describe:O | ut f |
| Sheen: | Yes 🗆 No 🖻 | Describe: | |
| Odor: | Yes 🖬 No 🗆 | Describe: Petr | o Odrar |

Field Measurements:

| Time | Vol (gallons) | рН | Temp (° C) | E.C. (μs/cm) |
|-------|------------------|--------|---------------|-----------------|
| 12:59 | Starged | purgin | r well | |
| 3:00 | 3 | 17.14 | 20.6 | 1000 |
| 13:01 | 6 | 7.06 | 20.5 | 988 |
| 13:02 | 9 | 7.05 | 20.3 | 987 |
| 13:03 | 12 | 7.07 | 20.5 | 1003 |
| 13:08 | Sample | 2 | | |

Notes:



http://www.epa.gov/athens/learn2model/part-two/onsite/gradient4plus-ns.html

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

...

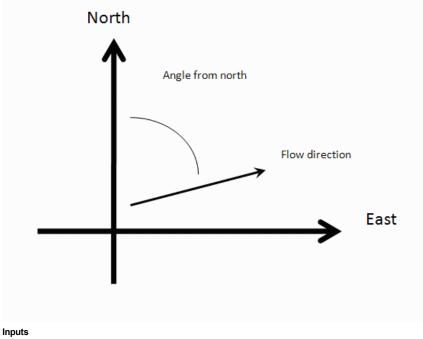
a x_{30} + b y_{30} + c = h_{30}
```

where $(\boldsymbol{x}_i,\boldsymbol{y}_i)$ are the coordinates of the well and \boldsymbol{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



| • | |
|--------------------|-------------------------------------|
| Example Data Set 1 | Example Data Set 2 Calculate Clear |
| Save Data | Recall Data Go Back |
| Site Name | 2844 Mountain Blvd. |
| Date | June 3, 2014 Current Date |
| Calculation basis | |
| | Head |
| Coordinates ft • | |
| I.D. | x-coordinate y-coordinate head ft ▼ |
| 1) RS-3 | 6071215.111 2122442.671 669.36 |
| 2) RS-4 | 6071195.458 2122379.324 666 |
| 3) MW-1 | 6071174.931 2122404.178 668.18 |
| 4) MW-2 | 6071186.39 2122393.492 667.48 |
| 5) | |
| 6) | |
| 7) | |
| 8) | |
| 9) | |
| 10) | |
| 11) | |
| 12) | |
| 13) | |

| 14) | | | | |
|---|--|--|---------|--|
| 15) | | | | |
| 16) | | | | |
| 17) | | | | |
| 18) | | | | |
| 19) | | | | |
| 20) | | | | |
| 21) | | | | |
| 22) | | | | |
| 23) | | | | |
| 24) | | | | |
| 25) | | | | |
| 26) | | | | |
| 27) | | | | |
| 28) | | | | |
| 29) | | | | |
| 30) | | | | |
| Results | | | | |
| Number of Points Used in Calculation | | | 4 | |
| Max. Difference Between Head Values | | | 1.024 | |
| Gradient Magnitude (i) | | | 0.06911 | |
| Flow direction as degrees from North (positive yaxis) | | | 152.6 | |
| Coefficient of Determination (R ²) | | | 0.988 | |
| | | | | |

WCMS

Last updated on 1/10/2013

Appendix C

Laboratory Report and Chain of Custody Form



Laboratory Job Number 257677 ANALYTICAL REPORT

| - | : 5081 n : 2844 Mountain Blvd., Oakland : II |
|---|--|
|---|--|

| <u>Sample ID</u> | <u>Lab ID</u> |
|------------------|---------------|
| RS-3 | 257677-001 |
| RS-4 | 257677-002 |
| MW-1 | 257677-003 |
| MW-2 | 257677-004 |

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:

Trog

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

Date: <u>06/13/2014</u>

CA ELAP# 2896, NELAP# 4044-001



CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 257677 SOMA Environmental Engineering Inc. 5081 2844 Mountain Blvd., Oakland 06/04/14 06/04/14

This data package contains sample and QC results for four water samples, requested for the above referenced project on 06/04/14. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015B):

High RPD was observed for diesel C10-C24 in the MS/MSD for batch 211870; the parent sample was not a project sample. No other analytical problems were encountered.

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

High surrogate recoveries were observed for 1,2-dichloroethane-d4 in RS-4 (lab # 257677-002), MW-1 (lab # 257677-003), and MW-2 (lab # 257677-004). No other analytical problems were encountered.

CHAIN OF CUSTODY

| | of | | |
|--|----|----|----|
| | | _ | |
| | | of | of |

| Cu | rtis & Tompkins, Ltd |] | | | | | | | | | | | | | | | | | | Α | naly | yse | S | | | | |
|------------|---|-------|------|----------------------|--------------|------|-------------|--------|------------------------------|-----|-------|-----------|------------|--------------------------|------------|------------|------------|-----|-----|----|------|-----|-------------|---------------|--------------|-----------------------|---|
| Anal | ytical Laboratory Since 1878 2323 Fifth Street Berkeley, CA 94710 (510)486-0900 Phone (510)486-0532 Fax | | | | | | | | <u> 1677</u> ie Hightower | | | | | | | | | | | | | | | | | | |
| Projec | et No: 5081 | - | | | Repo | rt T | o: | | Joyce Bobek | | | | | | | ß | | | | | | | | | | | |
| Projec | t Name: 2844 Mountain Blvc | я., С | Dakl | and | Com | ban | y : | | SOMA Enviro | onm | enta | al | | | 8260B | 8260B | | | | | | | | | | | |
| Turna | round Time: Standard | | | | Telep | hoi | ne: | | 925-734-640 | 0 | | | | | | lates | | | | | | | | | | | |
| | | | | | Fax: | | | | 925-734-640 | 1 | | | | | BTEX, MtBE | Oxygenates | | | | | | | | | | | |
| | I | 1 | | | | 1 | <i>l</i> at | | | | 1 | serva | ativ | e | BTE | Ô | 3015 | | | | | | | | | | |
| Lab No. | Sample ID. | | Sam | i plin Tim | g Date ie | Soil | Water | Waste | # of Containers | HCL | H2SO4 | HNO3 | Ы | | TPH-g, | Gasoline (| TPH-d 8015 | | | | | - | | | | | |
| 1 | RS-3 | 6 | 3 | 14 | []:31 | | * | | 3 VOAs, 2-500 mL Ambers | * | | | * | | * | * | * | | | | | | | | | | - |
| 2 | RS-4 | | 1 | | 3:40 | | * | | 3 VOAs, 2-500 mL Ambers | * | | | * | | * | * | * | | | | | | | | | | |
| 3 | MW-1 | | | | 2:1 | | * | | 3 VOAs, 2-500 mL Ambers | * | | | * | | * | * | * | | | | | | | | | | |
| 4 | MW-2 | 1 | V | | 13:08 | | * | | 3 VOAs, 2-500 mL Ambers | * | | | * | | * | * | * | | | | | | \square | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | - | \rightarrow | | + | - |
| | | | | | | | | | | | | | | | | | | | | | | | | | \pm | | |
| | | + | | | | | + | | | - | - | | ┢ | | - | | | | | | | | | + | + | | |
| | | | | | | | | | | | | | | | | | | | | | | | ヿ | _ | \mp | + | |
| | | | | | | | | | | - | | | | | | | | | | | | ľ | + | + | + | + | - |
| Notes | EDF OUTPUT REQUIRE | D | | | | RE | | NQ | UISHED BY: | | | | <u></u> | | RE | CE | ĮVE | DB | SY: | | | • | | | <u> </u> | |] |
| | GasOx: DIPE, ETBE, TAME, | , 18 | A | | | 2 | 24 | Ą | ju | > | 0:0 | 61' 57 | | 4 Te/Timi | | Ŵ | l | 7 | | 2 | _ | | 6/ | | | /04 E/TIMI | |
| | | | | | | | Þ | A V | m/ | | b | 14 | // 4 DA | 1 <i>р</i> .4 те/тімі | | Ŋ | k | × / | n | h | | (| 36 þ | ₩//+ [| + /2 DATE | 2: <i>45</i> E/TIM | E |
| | | | | | | / | | _ | | | | | DA | TE/TIM | | | | | | | | | | C | DATE | E/TIM | ε |
| | | | | | | | L | - | | | | | | | | | | 1 | 'nt | ad | T | 510 | a k | 20 | | | _ |

COOLER RECEIPT CHECKLIST



| Login # <u>25767</u> | Date Received | 614114 | Number of coolers | s1 | |
|--|---|--------------------------------|------------------------------------|-----------------|-------------|
| Client SCMA ENVIRONMENTAL | Pro | oject 2844 HOUNT | AIN BLVD, OAKLAN | D | |
| Date Opened <u>06/04/14</u> B Date Logged in <u>6/4/14</u> B | | (sign) (sign) | Min Am | | |
| 1. Did cooler come with a sh Shipping info | nipping slip (airbill, e | | | 26 |) |
| 2A. Were custody seals pres How many | Name | | Date | | NO |
| 2B. Were custody seals intag 3. Were custody papers dry a 4. Were custody papers fille | ct upon arrival? and intact when recei d out properly (ink, s | ved? igned, etc)? | YES YES YES | NO NO | |
| 5. Is the project identifiable6. Indicate the packing in co | ofrom custody papers | s? (If so fill out top ibe) | of form)YES | 1 00 | |
| ☐ Bubble Wrap ☐ Cloth material 7. Temperature documentati | IX Foam blocks □ Cardboard ion: * Notify PM | | □ None □ Paper to aceeds 6°C | wels | |
| Type of ice used: | Wet 🗌 Blue/Ge | el 🗌 None | Temp(°C) | 5.9 | |
| □ Samples received | l on ice & cold without l on ice directly from | ut a temperature bl | ank; temp taken v | vith IF | t gun |
| 8. Were Method 5035 samp If YES, what time w | oling containers prese vere they transferred t | ent? o freezer? | | YES | NØ |
| 9. Did all bottles arrive unb | | | | YES | NO |
| 10. Are there any missing / | | | | YES | ₩Ð |
| 11. Are samples in the appro- | opriate containers for | indicated tests? | | YES | NO |
| 12. Are sample labels preser | nt. in good condition | and complete? | | YES | NO |
| 13. Do the sample labels ag | ree with custody pape | ers? | | YES | NO |
| 14. Was sufficient amount of | of sample sent for test | ts requested? | | YES | NO |
| 15. Are the samples appropri | | | ¥#S | NO | N/A |
| 16. Did you check preservat | tives for all bottles for | r each sample? | YES | NO | NA |
| 17. Did you document your | preservative check? | 1 | YES | NO | N7 A |
| 18. Did you change the hold | time in LIMS for ur | preserved VOAs? | YES | NO | N#A |
| 19. Did you change the hold | time in LIMS for pr | eserved terracores | ? YES | NO | N#A |
| 20. Are bubbles > 6 mm abs | ent in VOA samples | ? | YES | NO | N/A |
| 21. Was the client contacted | l concerning this sam | ple delivery? | | YES | NØ |
| | alled? | | Date:_ | | |

COMMENTS

Rev 10, 10/11



Detections Summary for 257677

Client : SOMA Environmental Engineering Inc. Project : 5081 Location : 2844 Mountain Blvd., Oakland

Client Sample ID : RS-3 Laboratory Sample ID : 257677-001

| Analyte | Result | Flags | RL | MDL | Units | Basis | IDF | Method | Prep Method |
|-------------------------------|--------|-------|------|------|-------|---------|-------|-----------|-------------|
| tert-Butyl Alcohol (TBA) | 490 | | 10 | 2.2 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Methyl tert-Amyl Ether (TAME) | 1.7 | | 0.50 | 0.10 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| MTBE | 41 | | 0.50 | 0.11 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |

Client Sample ID : RS-4 Laboratory Sample ID : 257677-002

| Result | Flags | RL | MDL | Units | Basis | IDF | Method | Prep Method |
|--------|---------------------------------|---------------------------------|--|---|---|---|--|--|
| 4,400 | | 50 | 16 | ug/L | As Recd | 1.000 | EPA 8015B | EPA 3520C |
| 27,000 | | 710 | 96 | ug/L | As Recd | 71.43 | EPA 8260B | EPA 5030B |
| 260 | | 100 | 20 | ug/L | As Recd | 200.0 | EPA 8260B | EPA 5030B |
| 3,700 | | 36 | 7.1 | ug/L | As Recd | 71.43 | EPA 8260B | EPA 5030B |
| 40 | | 36 | 7.3 | ug/L | As Recd | 71.43 | EPA 8260B | EPA 5030B |
| | 4,400 27,000 260 3,700 | 4,400 27,000 260 3,700 | 4,400 50 27,000 710 260 100 3,700 36 | 4,400 50 16 27,000 710 96 260 100 20 3,700 36 7.1 | 4,400 50 16 ug/L 27,000 710 96 ug/L 260 100 20 ug/L 3,700 36 7.1 ug/L | 4,400 50 16 ug/L As Recd 27,000 710 96 ug/L As Recd 260 100 20 ug/L As Recd 3,700 36 7.1 ug/L As Recd | 4,400 50 16 ug/L As Recd 1.000 27,000 710 96 ug/L As Recd 71.43 260 100 20 ug/L As Recd 20.0 3,700 36 7.1 ug/L As Recd 71.43 | 4,400 50 16 ug/L As Recd 1.000 EPA 8015B 27,000 710 96 ug/L As Recd 71.43 EPA 8260B 260 100 20 ug/L As Recd 20.0 EPA 8260B 3,700 36 7.1 ug/L As Recd 71.43 EPA 8260B |

Client Sample ID : MW-1 Laboratory Sample ID : 257677-003

| Analyte | Result | Flags | RL | MDL | Units | Basis | IDF | Method | Prep Method |
|-------------------------------|--------|-------|-------|-----|-------|---------|-------|-----------|-------------|
| Diesel C10-C24 | 7,400 | | 50 | 16 | ug/L | As Recd | 1.000 | EPA 8015B | EPA 3520C |
| Gasoline C7-C12 | 8,900 | | 8,300 | 670 | ug/L | As Recd | 166.7 | EPA 8260B | EPA 5030B |
| tert-Butyl Alcohol (TBA) | 28,000 | | 1,700 | 220 | ug/L | As Recd | 166.7 | EPA 8260B | EPA 5030B |
| Methyl tert-Amyl Ether (TAME) | 1,300 | | 170 | 33 | ug/L | As Recd | 333.3 | EPA 8260B | EPA 5030B |
| MTBE | 11,000 | | 83 | 17 | ug/L | As Recd | 166.7 | EPA 8260B | EPA 5030B |
| Benzene | 350 | | 170 | 33 | ug/L | As Recd | 333.3 | EPA 8260B | EPA 5030B |
| Ethylbenzene | 550 | | 83 | 17 | ug/L | As Recd | 166.7 | EPA 8260B | EPA 5030B |
| m,p-Xylenes | 1,300 | | 83 | 23 | ug/L | As Recd | 166.7 | EPA 8260B | EPA 5030B |
| o-Xylene | 120 | | 83 | 22 | ug/L | As Recd | 166.7 | EPA 8260B | EPA 5030B |

Client Sample ID : MW-2

Laboratory Sample ID :

257677-004

| Analyte | Result | Flags | RL | MDL | Units | Basis | IDF | Method | Prep Method |
|-------------------------------|--------|-------|-------|-----|-------|---------|-------|-----------|-------------|
| Diesel C10-C24 | 6,200 | | 50 | 16 | ug/L | As Recd | 1.000 | EPA 8015B | EPA 3520C |
| tert-Butyl Alcohol (TBA) | 29,000 | | 1,400 | 190 | ug/L | As Recd | 142.9 | EPA 8260B | EPA 5030B |
| Methyl tert-Amyl Ether (TAME) | 920 | | 100 | 20 | ug/L | As Recd | 200.0 | EPA 8260B | EPA 5030B |
| MTBE | 8,000 | | 71 | 14 | ug/L | As Recd | 142.9 | EPA 8260B | EPA 5030B |
| Benzene | 170 | | 100 | 20 | ug/L | As Recd | 200.0 | EPA 8260B | EPA 5030B |
| Ethylbenzene | 310 | | 71 | 15 | ug/L | As Recd | 142.9 | EPA 8260B | EPA 5030B |
| m,p-Xylenes | 150 | | 71 | 19 | ug/L | As Recd | 142.9 | EPA 8260B | EPA 5030B |



| | | Total Extracta | ble Hydroca | irbons |
|--|---------------------------|--|--|--|
| Client: <u>Project#:</u> Matrix: Units: | Water ug/L | Engineering Inc. | Location: Prep: Analysis: Sampled: Received: | 2844 Mountain Blvd., Oakland EPA 3520C EPA 8015B 06/03/14 06/04/14 06/05/14 |
| Diln Fac: Batch#: | 1.000 211870 | | Prepared: | 06/05/14 |
| Field ID: Type: | RS-3 SAMPLE Analyte | Result | Lab ID: Analyzed: | 257677-001 06/07/14 RL |
| Diesel Cl(| D-C24 | ND | | 50 |
| o-Terpheny | Surrogate 71 | %REC Limits 94 66-129 | | |
| Field ID: Type: | RS-4 SAMPLE Analyte | Result | Lab ID: Analyzed: | 257677-002 06/07/14 RL |
| Diesel Cl(|)-C24 | 4,400 | | 50 |
| o-Terpheny | Surrogate /l | %REC Limits 99 66-129 | | |
| Field ID: Type: | MW-1 SAMPLE | | Lab ID: Analyzed: | 257677-003 06/07/14 |
| Diesel Cl(| Analyte | Result 7,400 | | RL 50 |
| o-Terpheny | Surrogate /l | %REC Limits 106 66-129 | | |
| Field ID: Type: | MW-2 SAMPLE | | Lab ID: Analyzed: | 257677-004 06/07/14 |
| Diesel Cl(| Analyte D-C24 | Result 6,200 | | RL 50 |
| o-Terpheny | Surrogate | %REC Limits 103 66-129 | | |
| Type: Lab ID: | BLANK QC743489 | | Analyzed: | 06/06/14 |
| Diesel C10 | Analyte D-C24 | Result ND | | RL 50 |
| o-Terpheny | Surrogate /l | %REC Limits 100 66-129 | | |

ND= Not Detected RL= Reporting Limit Page 1 of 1



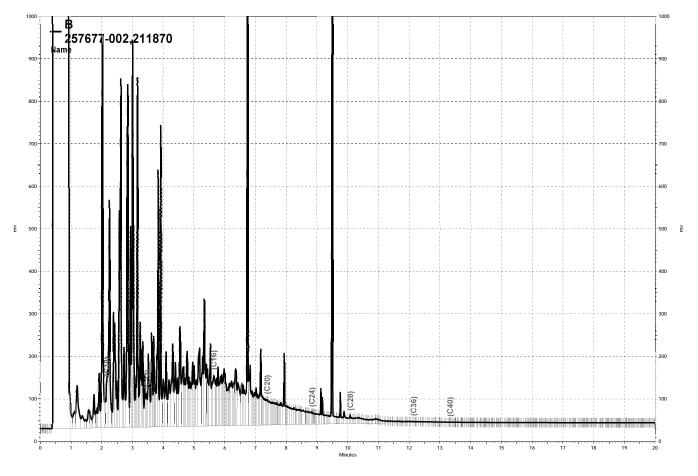
| | | Total Extracta | blo Undro | aarbar | a | | |
|------------|--------------------|------------------|-----------|--------|---------------|--------|---------|
| | | IULAI EXLIACIA | рте нушс | Carbor | 19 | | |
| Lab #: | 257677 | | Location: | | 2844 Mountain | Blvd., | Oakland |
| Client: | SOMA Environmental | Engineering Inc. | Prep: | | EPA 3520C | | |
| Project#: | 5081 | | Analysis: | | EPA 8015B | | |
| Type: | LCS | | Diln Fac: | | 1.000 | | |
| Lab ID: | QC743490 | | Batch#: | | 211870 | | |
| Matrix: | Water | | Prepared: | | 06/05/14 | | |
| Units: | ug/L | | Analyzed: | | 06/06/14 | | |
| | Analyte | Spiked | | Result | %REC | Limits | |
| Diesel C10 | D-C24 | 2,500 | | 2,182 | 87 | 61-120 | |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 104 | 66-129 |

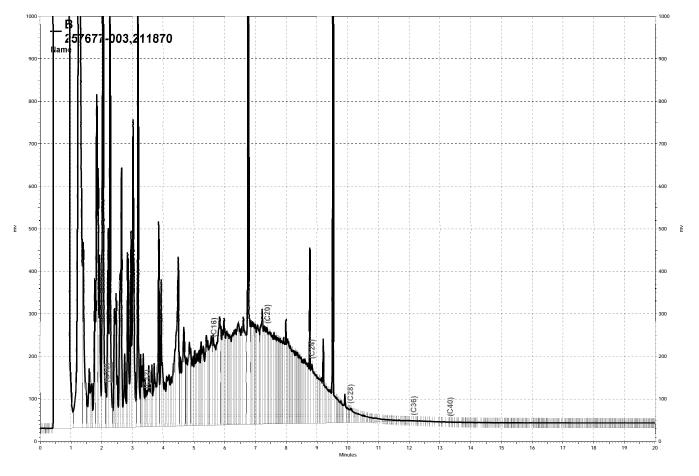


| Total Extractable Hydrocarbons | | | | | | | |
|--|---------------|------------|-------------------------|-------------------|--------------------|----------|---------------------------|
| Lab #: 2576 | 77 | | | Location: | 2844 Mountai: | n Blvd., | Oakland |
| Client: SOMA | Environmental | Engineeri | lng Inc. | Prep: | EPA 3520C | | |
| Project#: 5081 | | | | Analysis: | EPA 8015B | | |
| Field ID: | ZZZZZZZZZZ | | | Batch#: | 211870 | | |
| MSS Lab ID: | 257669-004 | | | Sampled: | 06/04/14 | | |
| Matrix: | Water | | | Received: | 06/04/14 | | |
| Units: | ug/L | | | Prepared: | 06/05/14 | | |
| Diln Fac: | 20.00 | | | Analyzed: | 06/08/14 | | |
| Type: | MS te | MSS Resu | ılt | Lab ID: Spiked | QC743491 Result | %REC | Limits |
| Diesel C10-C24 | | 80,680 |) | 2,500 | 294,000 | 8533 | NM 65-120 |
| | | | | | | | |
| Surro | ogate | %REC | Limits | | | | |
| Surro o-Terphenyl | ogate | %REC DO | Limits 66-129 | | | | |
| | MSD | | | Lab ID: | QC743492 | | |
| o-Terphenyl Type: | - | DO | | Lab ID: Result | - | Limits | RPD Lim |
| o-Terphenyl Type: | MSD | DO | 66-129 | | - | | RPD Lim 43 * 26 |
| o-Terphenyl Type: Diesel C10-C24 | MSD | DO | 66-129 | Result | %REC | | |

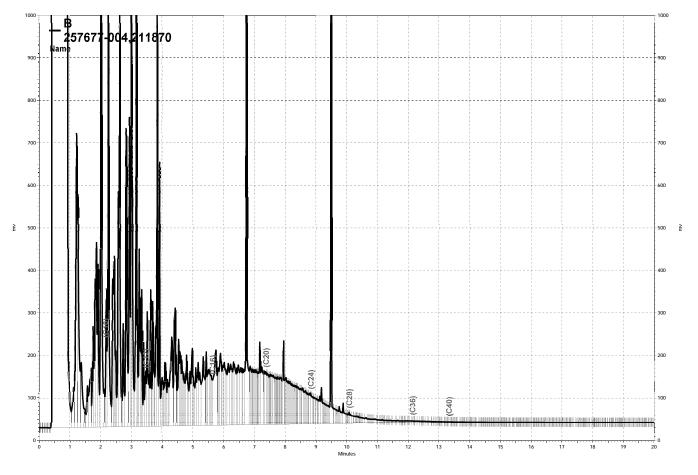
*= Value outside of QC limits; see narrative DO= Diluted Out NM= Not Meaningful: Sample concentration > 4X spike concentration RPD= Relative Percent Difference Page 1 of 1



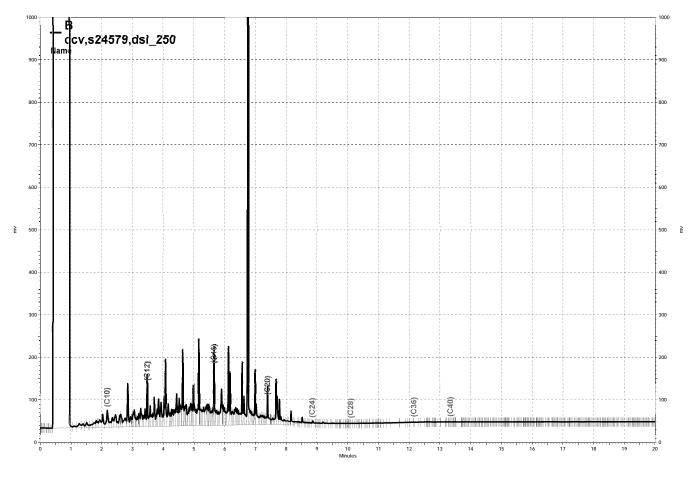
-\Lims\gdrive\ezchrom\Projects\GC15B\Data\157b040, B



-\\Lims\gdrive\ezchrom\Projects\GC15B\Data\157b041, B



-\\Lims\gdrive\ezchrom\Projects\GC15B\Data\157b042, B



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\157b025, B



| Lab #: | 257677 | | Location: | 2844 Mountain Blvd., Oakland |
|-----------|--------------------|------------------|-----------|------------------------------|
| Client: | SOMA Environmental | Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 5081 | | Analysis: | EPA 8260B |
| Field ID: | RS-3 | | Batch#: | 211894 |
| Lab ID: | 257677-001 | | Sampled: | 06/03/14 |
| Matrix: | Water | | Received: | 06/04/14 |
| Units: | ug/L | | Analyzed: | 06/06/14 |
| Diln Fac: | 1.000 | | | |

| Analyte | Result | RL | |
|-------------------------------|--------|------|--|
| Gasoline C7-C12 | ND | 50 | |
| tert-Butyl Alcohol (TBA) | 490 | 10 | |
| Isopropyl Ether (DIPE) | ND | 0.50 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | |
| Methyl tert-Amyl Ether (TAME) | 1.7 | 0.50 | |
| MTBE | 41 | 0.50 | |
| Benzene | ND | 0.50 | |
| Toluene | ND | 0.50 | |
| Ethylbenzene | ND | 0.50 | |
| m,p-Xylenes | ND | 0.50 | |
| o-Xylene | ND | 0.50 | |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 103 | 77-136 | |
| 1,2-Dichloroethane-d4 | 110 | 75-139 | |
| Toluene-d8 | 101 | 80-120 | |
| Bromofluorobenzene | 100 | 80-120 | |



| Lab #: | 257677 | Location: | 2844 Mountain Blvd., Oakland |
|-----------|-------------------------------------|-----------|------------------------------|
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 5081 | Analysis: | EPA 8260B |
| Field ID: | RS-4 | Units: | ug/L |
| Lab ID: | 257677-002 | Sampled: | 06/03/14 |
| Matrix: | Water | Received: | 06/04/14 |

| Analyte | Result | RL | Diln Fac | Batch# Analyzed |
|-------------------------------|--------|-------|----------|-----------------|
| Gasoline C7-C12 | ND | 3,600 | 71.43 | 212096 06/12/14 |
| tert-Butyl Alcohol (TBA) | 27,000 | 710 | 71.43 | 212096 06/12/14 |
| Isopropyl Ether (DIPE) | ND | 36 | 71.43 | 212096 06/12/14 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 36 | 71.43 | 212096 06/12/14 |
| Methyl tert-Amyl Ether (TAME) | 260 | 100 | 200.0 | 211894 06/06/14 |
| MTBE | 3,700 | 36 | 71.43 | 212096 06/12/14 |
| Benzene | ND | 36 | 71.43 | 212096 06/12/14 |
| Toluene | ND | 36 | 71.43 | 212096 06/12/14 |
| Ethylbenzene | 40 | 36 | 71.43 | 212096 06/12/14 |
| m,p-Xylenes | ND | 36 | 71.43 | 212096 06/12/14 |
| o-Xylene | ND | 36 | 71.43 | 212096 06/12/14 |

| Surrogate | %REC | Limits | Diln Fac | Batch# Analyzed |
|-----------------------|-------|--------|----------|-----------------|
| Dibromofluoromethane | 105 | 77-136 | 71.43 | 212096 06/12/14 |
| 1,2-Dichloroethane-d4 | 150 * | 75-139 | 71.43 | 212096 06/12/14 |
| Toluene-d8 | 103 | 80-120 | 71.43 | 212096 06/12/14 |
| Bromofluorobenzene | 109 | 80-120 | 71.43 | 212096 06/12/14 |

*= Value outside of QC limits; see narrative ND= Not Detected RL= Reporting Limit Page 1 of 1



| Lab #: | 257677 | Location: | 2844 Mountain Blvd., Oakland |
|-----------|-------------------------------------|-----------|------------------------------|
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 5081 | Analysis: | EPA 8260B |
| Field ID: | MW-1 | Units: | ug/L |
| Lab ID: | 257677-003 | Sampled: | 06/03/14 |
| Matrix: | Water | Received: | 06/04/14 |

| Analyte | Result | RL | Diln Fac | Batch# Analyzed |
|-------------------------------|--------|-------|----------|-----------------|
| Gasoline C7-C12 | 8,900 | 8,300 | 166.7 | 212096 06/12/14 |
| tert-Butyl Alcohol (TBA) | 28,000 | 1,700 | 166.7 | 212096 06/12/14 |
| Isopropyl Ether (DIPE) | ND | 83 | 166.7 | 212096 06/12/14 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 83 | 166.7 | 212096 06/12/14 |
| Methyl tert-Amyl Ether (TAME) | 1,300 | 170 | 333.3 | 211894 06/06/14 |
| MTBE | 11,000 | 83 | 166.7 | 212096 06/12/14 |
| Benzene | 350 | 170 | 333.3 | 211894 06/06/14 |
| Toluene | ND | 83 | 166.7 | 212096 06/12/14 |
| Ethylbenzene | 550 | 83 | 166.7 | 212096 06/12/14 |
| m,p-Xylenes | 1,300 | 83 | 166.7 | 212096 06/12/14 |
| o-Xylene | 120 | 83 | 166.7 | 212096 06/12/14 |

| Surrogate | %REC | Limits | Diln Fac | Batch# Analyzed |
|-----------------------|-------|--------|----------|-----------------|
| Dibromofluoromethane | 104 | 77-136 | 166.7 | 212096 06/12/14 |
| 1,2-Dichloroethane-d4 | 152 * | 75-139 | 166.7 | 212096 06/12/14 |
| Toluene-d8 | 104 | 80-120 | 166.7 | 212096 06/12/14 |
| Bromofluorobenzene | 108 | 80-120 | 166.7 | 212096 06/12/14 |

*= Value outside of QC limits; see narrative ND= Not Detected RL= Reporting Limit Page 1 of 1



| Lab #: | 257677 | Location: | 2844 Mountain Blvd., Oakland |
|-----------|-------------------------------------|-----------|------------------------------|
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 5081 | Analysis: | EPA 8260B |
| Field ID: | MW-2 | Units: | ug/L |
| Lab ID: | 257677-004 | Sampled: | 06/03/14 |
| Matrix: | Water | Received: | 06/04/14 |

| Analyte | Result | RL | Diln Fac | Batch# Analyzed |
|-------------------------------|--------|-------|----------|-----------------|
| Gasoline C7-C12 | ND | 7,100 | 142.9 | 212096 06/12/14 |
| tert-Butyl Alcohol (TBA) | 29,000 | 1,400 | 142.9 | 212096 06/12/14 |
| Isopropyl Ether (DIPE) | ND | 71 | 142.9 | 212096 06/12/14 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 71 | 142.9 | 212096 06/12/14 |
| Methyl tert-Amyl Ether (TAME) | 920 | 100 | 200.0 | 211894 06/06/14 |
| MTBE | 8,000 | 71 | 142.9 | 212096 06/12/14 |
| Benzene | 170 | 100 | 200.0 | 211894 06/06/14 |
| Toluene | ND | 71 | 142.9 | 212096 06/12/14 |
| Ethylbenzene | 310 | 71 | 142.9 | 212096 06/12/14 |
| m,p-Xylenes | 150 | 71 | 142.9 | 212096 06/12/14 |
| o-Xylene | ND | 71 | 142.9 | 212096 06/12/14 |

| Surrogate | %REC | Limits | Diln Fac | Batch# Analyzed |
|-----------------------|-------|--------|----------|-----------------|
| Dibromofluoromethane | 106 | 77-136 | 142.9 | 212096 06/12/14 |
| 1,2-Dichloroethane-d4 | 147 * | 75-139 | 142.9 | 212096 06/12/14 |
| Toluene-d8 | 103 | 80-120 | 142.9 | 212096 06/12/14 |
| Bromofluorobenzene | 108 | 80-120 | 142.9 | 212096 06/12/14 |

*= Value outside of QC limits; see narrative ND= Not Detected RL= Reporting Limit Page 1 of 1



| | | Purgeable Org | anics by GC/MS | |
|--------------------------------|--------------------------------------|------------------|---------------------------------|--|
| Lab #: Client: Project#: | 257677 SOMA Environmental 5081 | Engineering Inc. | Location: Prep: Analysis: | 2844 Mountain Blvd., Oakland EPA 5030B EPA 8260B |
| Matrix: Units: Diln Fac: | Water ug/L 1.000 | | Batch#: Analyzed: | 211894 06/06/14 |

| Type: BS | Lab II | QC743 | 3571 | |
|-----------------------------------|-------------|--------|------|--------|
| Analyte | Spiked | Result | %REC | Limits |
| tert-Butyl Alcohol (TBA) | 125.0 | 140.0 | 112 | 37-151 |
| Isopropyl Ether (DIPE) | 25.00 | 27.83 | 111 | 56-124 |
| Ethyl tert-Butyl Ether (ETBE) | 25.00 | 27.46 | 110 | 61-122 |
| Methyl tert-Amyl Ether (TAME) | 25.00 | 26.92 | 108 | 65-120 |
| MTBE | 25.00 | 27.07 | 108 | 64-121 |
| Benzene | 25.00 | 27.10 | 108 | 80-124 |
| Toluene | 25.00 | 27.72 | 111 | 80-122 |
| Ethylbenzene | 25.00 | 28.69 | 115 | 80-124 |
| m,p-Xylenes | 50.00 | 56.33 | 113 | 80-122 |
| o-Xylene | 25.00 | 28.36 | 113 | 77-120 |
| Currogato | %REC Limits | | | |
| Surrogate Dibromofluoromethane | 103 77-136 | | | |

| Surroyale | 3REC | | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 103 | 77–136 | |
| 1,2-Dichloroethane-d4 | 104 | 75-139 | |
| Toluene-d8 | 101 | 80-120 | |
| Bromofluorobenzene | 101 | 80-120 | |
| | | | |

| Type: BSD | | | Lab ID: | QC7 | 43572 | | | |
|-------------------------------|------|--------|---------|--------|-------|--------|-----|-----|
| Analyte | | Spiked | | Result | %REC | Limits | RPD | Lim |
| tert-Butyl Alcohol (TBA) | | 125.0 | | 109.5 | 88 | 37-151 | 24 | 30 |
| Isopropyl Ether (DIPE) | | 25.00 | | 24.79 | 99 | 56-124 | 12 | 20 |
| Ethyl tert-Butyl Ether (ETBE) | | 25.00 | | 23.87 | 95 | 61-122 | 14 | 22 |
| Methyl tert-Amyl Ether (TAME) | | 25.00 | | 23.26 | 93 | 65-120 | 15 | 22 |
| MTBE | | 25.00 | | 23.30 | 93 | 64-121 | 15 | 20 |
| Benzene | | 25.00 | | 25.32 | 101 | 80-124 | 7 | 20 |
| Toluene | | 25.00 | | 26.03 | 104 | 80-122 | 6 | 20 |
| Ethylbenzene | | 25.00 | | 26.85 | 107 | 80-124 | 7 | 20 |
| m,p-Xylenes | | 50.00 | | 53.91 | 108 | 80-122 | 4 | 20 |
| o-Xylene | | 25.00 | | 27.00 | 108 | 77-120 | 5 | 20 |
| | | | | | | | | |
| Surrogate | %REC | Limits | | | | | | |
| Dibromofluoromethane | 101 | 77-136 | | | | | | |
| 1,2-Dichloroethane-d4 | 100 | 75-139 | | | | | | |
| Toluene-d8 | 101 | 80-120 | | | | | | |
| Bromofluorobenzene | 99 | 80-120 | | | | | | |



| Purgeable Organics by GC/MS | | | | | | |
|-----------------------------|--------------------|------------------|-----------|------------------------------|--|--|
| Lab #: | 257677 | | Location: | 2844 Mountain Blvd., Oakland | | |
| Client: | SOMA Environmental | Engineering Inc. | Prep: | EPA 5030B | | |
| Project#: | 5081 | | Analysis: | EPA 8260B | | |
| Type: | BLANK | | Diln Fac: | 1.000 | | |
| Lab ID: | QC743573 | | Batch#: | 211894 | | |
| Matrix: | Water | | Analyzed: | 06/06/14 | | |
| 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 | |
| MTBE | ND | 0.50 | |
| Benzene | ND | 0.50 | |
| Toluene | ND | 0.50 | |
| Ethylbenzene | ND | 0.50 | |
| m,p-Xylenes | ND | 0.50 | |
| o-Xylene | ND | 0.50 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 103 | 77-136 |
| 1,2-Dichloroethane-d4 | 109 | 75-139 |
| Toluene-d8 | 100 | 80-120 |
| Bromofluorobenzene | 101 | 80-120 |



| Purgeable Organics by GC/MS | | | | | | |
|-----------------------------|--------------------|------------------|-----------|------------------------------|--|--|
| Lab #: | 257677 | | Location: | 2844 Mountain Blvd., Oakland | | |
| Client: | SOMA Environmental | Engineering Inc. | Prep: | EPA 5030B | | |
| Project#: | 5081 | | Analysis: | EPA 8260B | | |
| Matrix: | Water | | Batch#: | 211894 | | |
| Units: | ug/L | | Analyzed: | 06/06/14 | | |
| Diln Fac: | 1.000 | | | | | |

Type:

Bromofluorobenzene

BS

Lab ID:

QC743582

| Analyte | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 1,000 | 914.1 | 91 | 80-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 101 | 77-136 |
| 1,2-Dichloroethane-d4 | 112 | 75-139 |
| Toluene-d8 | 99 | 80-120 |
| Bromofluorobenzene | 99 | 80-120 |

| Type: BS | SD | | Lab ID: | QC7435 | 83 | | | |
|--------------------|----------|--------|---------|--------|------|--------|-----|-----|
| Analyte | 9 | Spiked | Res | ult | %REC | Limits | RPD | Lim |
| Gasoline C7-C12 | | 1,000 | 9 | 943.8 | 94 | 80-120 | 3 | 20 |
| | 0.550 | | | | | | | |
| Surrogat | te %REC | Limits | | | | | | |
| Dibromofluorometha | ane 101 | 77-136 | | | | | | |
| 1,2-Dichloroethane | e-d4 107 | 75-139 | | | | | | |
| | | | | | | | | |

80-120

100



| Purgeable Organics by GC/MS | | | | | | | |
|-----------------------------|---------------------------|------|-----------|------------------------------|--|--|--|
| Lab #: 257677 | | | Location: | 2844 Mountain Blvd., Oakland | | | |
| Client: SOMA E | Invironmental Engineering | Inc. | Prep: | EPA 5030B | | | |
| Project#: 5081 | | | Analysis: | EPA 8260B | | | |
| Field ID: | ZZZZZZZZZ | | Batch#: | 211894 | | | |
| MSS Lab ID: | 257669-004 | | Sampled: | 06/04/14 | | | |
| Matrix: | Water | | Received: | 06/04/14 | | | |
| Units: | ug/L | | Analyzed: | 06/06/14 | | | |
| Diln Fac: | 1.000 | | _ | | | | |

| Type: MS | | | Lab ID: | QC743687 | | |
|-------------------------------|------|---------|---------|----------|------|--------|
| Analyte | MSS | | Spiked | Result | %REC | Limits |
| tert-Butyl Alcohol (TBA) | | 2.919 | 125.0 | 169.3 | 133 | 38-150 |
| Isopropyl Ether (DIPE) | | <0.1000 | 25.00 | 25.63 | 103 | 62-120 |
| Ethyl tert-Butyl Ether (ETBE) | | <0.1000 | 25.00 | 25.45 | 102 | 64-120 |
| Methyl tert-Amyl Ether (TAME) | | <0.1002 | 25.00 | 25.46 | 102 | 67-120 |
| MTBE | | <0.1119 | 25.00 | 26.05 | 104 | 66-120 |
| Benzene | | 1.220 | 25.00 | 25.47 | 97 | 80-127 |
| Toluene | | <0.1000 | 25.00 | 23.59 | 94 | 80-123 |
| Ethylbenzene | | 1.206 | 25.00 | 25.20 | 96 | 80-126 |
| m,p-Xylenes | | <0.1454 | 50.00 | 46.37 | 93 | 80-123 |
| o-Xylene | | <0.1000 | 25.00 | 23.30 | 93 | 76-120 |
| Surrogate | %REC | Limits | | | | |
| Dibromofluoromethane | 103 | 77-136 | | | | |
| 1,2-Dichloroethane-d4 | 107 | 75-139 | | | | |
| Toluene-d8 | 102 | 80-120 | | | | |
| Bromofluorobenzene | 103 | 80-120 | | | | |

| Type: MSD | | | Lab ID: | QC | 743688 | | | |
|-------------------------------|------|--------|---------|--------|--------|--------|-----|-----|
| Analyte | | Spiked | | Result | %REC | Limits | RPD | Lim |
| tert-Butyl Alcohol (TBA) | | 125.0 | | 154.3 | 121 | 38-150 | 9 | 38 |
| Isopropyl Ether (DIPE) | | 25.00 | | 24.89 | 100 | 62-120 | 3 | 25 |
| Ethyl tert-Butyl Ether (ETBE) | | 25.00 | | 24.96 | 100 | 64-120 | 2 | 27 |
| Methyl tert-Amyl Ether (TAME) | | 25.00 | | 24.21 | 97 | 67-120 | 5 | 28 |
| MTBE | | 25.00 | | 25.07 | 100 | 66-120 | 4 | 27 |
| Benzene | | 25.00 | | 24.59 | 93 | 80-127 | 3 | 23 |
| Toluene | | 25.00 | | 23.21 | 93 | 80-123 | 2 | 22 |
| Ethylbenzene | | 25.00 | | 24.36 | 93 | 80-126 | 3 | 22 |
| m,p-Xylenes | | 50.00 | | 45.10 | 90 | 80-123 | 3 | 22 |
| o-Xylene | | 25.00 | | 22.94 | 92 | 76-120 | 2 | 23 |
| Surrogate | %REC | Limits | | | | | | |
| Dibromofluoromethane | 104 | 77-136 | | | | | | |
| 1,2-Dichloroethane-d4 | 104 | 75-139 | | | | | | |
| Toluene-d8 | 102 | 80-120 | | | | | | |
| Bromofluorobenzene | 103 | 80-120 | | | | | | |



| Purgeable Organics by GC/MS | | | | | | | |
|--------------------------------|--------------------------------------|-----------------|------------------------------------|--|--|--|--|
| Lab #: Client: Project#: | 257677 SOMA Environmental 5081 | Engineering Ind | Location: c. Prep: Analysis: | 2844 Mountain Blvd., Oakland EPA 5030B EPA 8260B | | | |
| Matrix: Units: Diln Fac: | Water ug/L 1.000 | | Batch#: Analyzed: | 212096 06/11/14 | | | |

| Type: BS | Lab 1 | ID: QC744 | 431 | |
|-------------------------------|------------|-----------|------|--------|
| Analyte | Spiked | Result | %REC | Limits |
| tert-Butyl Alcohol (TBA) | 87.50 | 78.81 | 90 | 37-151 |
| Isopropyl Ether (DIPE) | 17.50 | 14.85 | 85 | 56-124 |
| Ethyl tert-Butyl Ether (ETBE) | 17.50 | 16.60 | 95 | 61-122 |
| Methyl tert-Amyl Ether (TAME) | 17.50 | 16.39 | 94 | 65-120 |
| MTBE | 17.50 | 16.27 | 93 | 64-121 |
| Benzene | 17.50 | 17.03 | 97 | 80-124 |
| Toluene | 17.50 | 17.05 | 97 | 80-122 |
| Ethylbenzene | 17.50 | 18.11 | 103 | 80-124 |
| m,p-Xylenes | 35.00 | 36.26 | 104 | 80-122 |
| o-Xylene | 17.50 | 18.07 | 103 | 77-120 |
| | | | | |
| Surrogate | REC Limits | | | |
| Dibromofluoromethane 9 | 9 77-136 | | | |

| Surrogate | %REC | LIMITS | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 99 | 77-136 | |
| 1,2-Dichloroethane-d4 | 119 | 75-139 | |
| Toluene-d8 | 101 | 80-120 | |
| Bromofluorobenzene | 102 | 80-120 | |
| E | | | |

| Type: BSD | | | Lab ID: | QC7 | 44432 | | | |
|-------------------------------|----------------|--------|---------|--------|-------|--------|-----|-----|
| Analyte | | Spiked | | Result | %REC | Limits | RPD | Lim |
| tert-Butyl Alcohol (TBA) | | 87.50 | | 83.97 | 96 | 37-151 | 6 | 30 |
| Isopropyl Ether (DIPE) | | 17.50 | | 15.10 | 86 | 56-124 | 2 | 20 |
| Ethyl tert-Butyl Ether (ETBE) | | 17.50 | | 17.13 | 98 | 61-122 | 3 | 22 |
| Methyl tert-Amyl Ether (TAME) | | 17.50 | | 17.22 | 98 | 65-120 | 5 | 22 |
| MTBE | | 17.50 | | 17.35 | 99 | 64-121 | 6 | 20 |
| Benzene | | 17.50 | | 15.96 | 91 | 80-124 | б | 20 |
| Toluene | | 17.50 | | 16.41 | 94 | 80-122 | 4 | 20 |
| Ethylbenzene | | 17.50 | | 17.20 | 98 | 80-124 | 5 | 20 |
| m,p-Xylenes | | 35.00 | | 34.13 | 98 | 80-122 | б | 20 |
| o-Xylene | | 17.50 | | 17.76 | 101 | 77-120 | 2 | 20 |
| | A – – – | | | | | | | |
| Surrogate | %REC | Limits | | | | | | |
| Dibromofluoromethane | 97 | 77-136 | | | | | | |
| 1,2-Dichloroethane-d4 | 119 | 75-139 | | | | | | |
| Toluene-d8 | 102 | 80-120 | | | | | | |
| Bromofluorobenzene | 100 | 80-120 | | | | | | |



| Purgeable Organics by GC/MS | | | | | | | | |
|-----------------------------|--------------------|------------------|-----------|------------------------------|--|--|--|--|
| Lab #: | 257677 | | Location: | 2844 Mountain Blvd., Oakland | | | | |
| Client: | SOMA Environmental | Engineering Inc. | Prep: | EPA 5030B | | | | |
| Project#: | 5081 | | Analysis: | EPA 8260B | | | | |
| Type: | BLANK | | Diln Fac: | 1.000 | | | | |
| Lab ID: | QC744433 | | Batch#: | 212096 | | | | |
| Matrix: | Water | | Analyzed: | 06/11/14 | | | | |
| 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 | |
| MTBE | ND | 0.50 | |
| Benzene | ND | 0.50 | |
| Toluene | ND | 0.50 | |
| Ethylbenzene | ND | 0.50 | |
| m,p-Xylenes | ND | 0.50 | |
| o-Xylene | ND | 0.50 | |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 100 | 77-136 | |
| 1,2-Dichloroethane-d4 | 126 | 75-139 | |
| Toluene-d8 | 103 | 80-120 | |
| Bromofluorobenzene | 107 | 80-120 | |



| Purgeable Organics by GC/MS | | | | | | | |
|-----------------------------|--------------------|------------------|-----------|------------------------------|--|--|--|
| Lab #: | 257677 | | Location: | 2844 Mountain Blvd., Oakland | | | |
| Client: | SOMA Environmental | Engineering Inc. | Prep: | EPA 5030B | | | |
| Project#: | 5081 | | Analysis: | EPA 8260B | | | |
| Matrix: | Water | | Batch#: | 212096 | | | |
| Units: | ug/L | | Analyzed: | 06/11/14 | | | |
| Diln Fac: | 1.000 | | | | | | |

Type:

Bromofluorobenzene

BS

Lab ID:

QC744434

| Analyte | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 1,000 | 945.9 | 95 | 80-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 96 | 77-136 |
| 1,2-Dichloroethane-d4 | 122 | 75-139 |
| Toluene-d8 | 100 | 80-120 |
| Bromofluorobenzene | 101 | 80-120 |

| Type: BSD | | | Lab ID: | QC7 | | | | |
|----------------------|-------|--------|---------|--------|------|--------|-----|-----|
| Analyte | | Spiked | | Result | %REC | Limits | RPD | Lim |
| Gasoline C7-C12 | | 1,000 | | 835.1 | 84 | 80-120 | 12 | 20 |
| | | | | | | | | |
| Surrogate | %REC | Limits | | | | | | |
| ~~ | -SKEC | DIMICS | | | | | | |
| Dibromofluoromethane | 96 | 77-136 | | | | | | |
| | | | | | | | | |

80-120

103

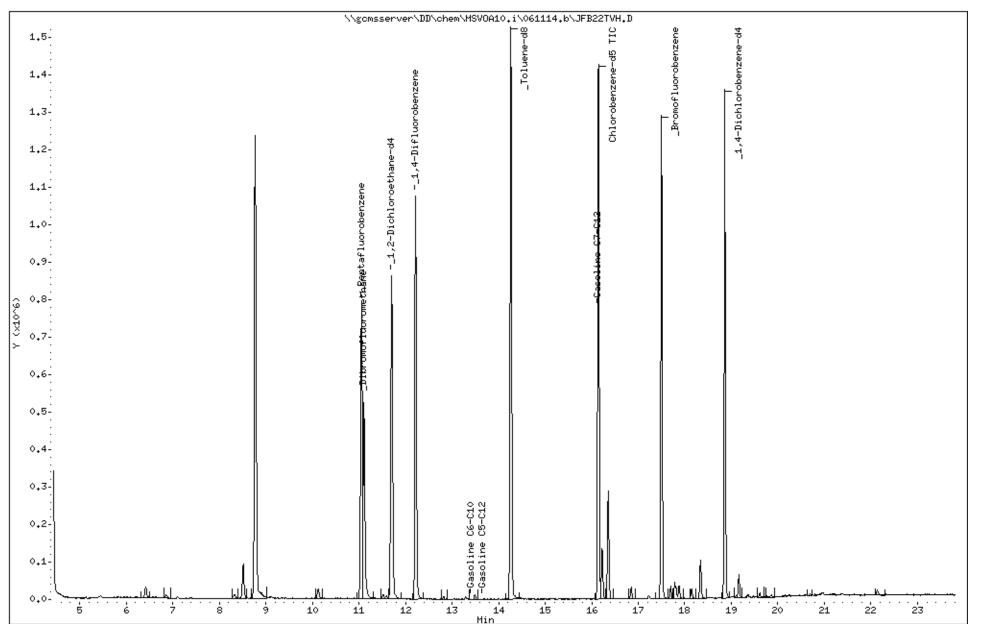
Data File: \\gcmsserver\DD\chem\MSVOA10.i\061114.b\JFB22TVH.D Date : 12-JUN-2014 00:43 Client ID: DYNA P&T Sample Info: S,257677-003

Column phase:

Instrument: MSVOA10.i

Operator: VOA

Column diameter: 2.00



24 of 25

-

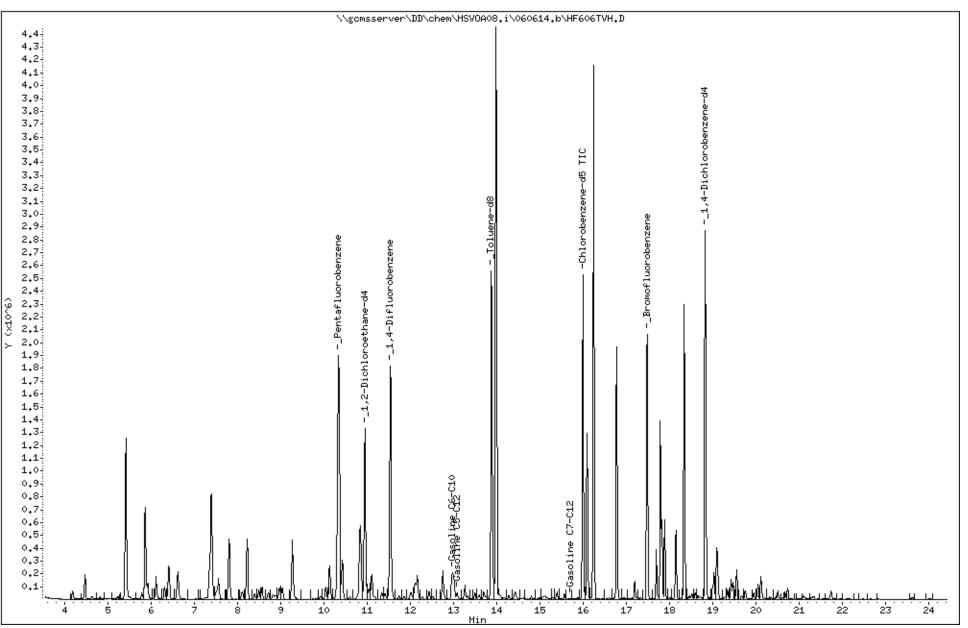
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Date : 06-JUN-2014 11:30
Client ID: DYNA P&T
Sample Info: CCV/BS,QC743582,211894,S24762,.01/100

Column phase:

Instrument: MSVOA08.i

Operator: VOC

Column diameter: 2.00



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