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**ENVIRONMENTAL ENGINEERING, INC**  
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January 10, 2008

Mr. Steven Plunkett  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Subject: Texaco Gasoline Service Station (Formerly Freedom ARCO Station)  
Site Address: 15101 Freedom Avenue, San Leandro, California  
**STID 4473/RO0000473**

Dear Mr. Plunkett:

SOMA's "Fourth Quarter 2007 Groundwater Monitoring 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

**Fourth Quarter 2007  
Groundwater Monitoring Report**

**Texaco Gasoline Service Station  
15101 Freedom Avenue  
San Leandro, California**

**January 10, 2008**

**Project 2551**

**Prepared for**

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



**ENVIRONMENTAL ENGINEERING, INC.**

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## CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this report on behalf of Mr. Mohammad Pazdel, property owner of 15101 Freedom Avenue, San Leandro, California, to comply with Alameda County Health Care Services requirements for the Fourth Quarter 2007 groundwater monitoring event.



Mansour Sepehr, Ph.D., P.E.  
Principal Hydrogeologist



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# 1. INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) has prepared this report on behalf of Mr. Mohammad Pazdel, property owner of 15101 Freedom Avenue, San Leandro, California (the Site, Figure 1). The Site is located in an area of primarily residential properties and adjacent commercial areas.

This report summarizes results of the Fourth Quarter 2007 groundwater monitoring event conducted at the Site on October 23, 2007, and includes physical and chemical properties measured in the field for each groundwater sample. Physical and chemical properties measured include pH, temperature, and electrical conductivity (EC). This report also includes laboratory analytical results for groundwater samples.

These activities were performed in accordance with general guidelines of the California Regional Water Quality Control Board and Alameda County Health Care Services. Appendix A details procedures followed by SOMA during this monitoring event.

## 1.1 Previous Activities

May 20, 1999: Three 10,000-gallon, single-walled underground storage tanks (USTs) were removed.

July 7, 1999: A 20,000-gallon gasoline UST, an 8,000-gallon gasoline UST, and a 6,000-gallon diesel UST were installed in the cavity to replace the USTs removed on May 20, 1999.

July 2001: Additional soil and groundwater investigations were conducted to examine potential petroleum hydrocarbon contamination discovered during the removal and upgrade of the USTs. During this investigation, five soil borings, SB-1 through SB-5, were drilled. The maximum concentrations of total petroleum hydrocarbons as gasoline (TPH-g) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) in the soil samples collected between 19 and 25.5 feet below ground surface (bgs) were 470 mg/kg, 2.6 mg/kg, 16 mg/kg, 12 mg/kg, and 73 mg/kg, respectively. Methyl tertiary-butyl ether (MtBE) was below the laboratory reporting limit of 0.005 mg/kg in all soil samples collected. The maximum concentrations of TPH-g and BTEX in the groundwater samples collected from the soil borings were 83 mg/L, 19 mg/L, 1.8 mg/L, 1.5 mg/L, and 73 mg/L, respectively. The maximum reported MtBE concentration was 87 mg/L in soil boring SB-2. Soil boring locations are shown in Figure 2.

April 22 and 23, 2002: SOMA installed five 4-inch-diameter, on-site groundwater monitoring wells, MW-1 to MW-5, to evaluate the groundwater flow gradient and extent of petroleum hydrocarbons and MtBE contamination beneath the Site. Figure 2 shows well locations.

July 22, 2003: SOMA conducted an additional off-site investigation to evaluate the lateral extent of soil and groundwater contamination. The investigation included a sensitive receptor survey to locate water supply wells and/or water bodies within a 2,000-foot radius of the Site.

September 2003: Six temporary well boreholes were advanced to depths of at least 40 feet bgs. Figure 2 shows borehole locations.

September 2004: SOMA installed four off-site wells, MW-6 to MW-9, located as shown in Figure 2.

## **2. RESULTS**

Following are results of field measurements and laboratory analyses for the October 23, 2007 groundwater monitoring event.

### **2.1 Field Measurements**

Table 1 presents calculated groundwater elevations and depths to groundwater for each monitoring well. Depths to groundwater ranged from 11.59 feet in well MW-9 to 23.42 feet in MW-1. Corresponding groundwater elevations ranged from 28.67 feet in MW-9 to 31.04 feet in MW-1.

Figure 3 displays the contour map of groundwater elevations. Groundwater flows south to southwesterly across the Site, at a gradient of 0.0167 feet/feet. The groundwater flow direction remained consistent with the previous monitoring event (Third Quarter 2007); however, the gradient slightly decreased.

Field measurements taken during this monitoring event are shown in Appendix B.

### **2.2 Laboratory Analysis**

Table 1 presents the TPH-g, BTEX, and MtBE analytical results, as well as historical groundwater analytical results.

TPH-g concentrations were below the laboratory-reporting limit in off-site wells MW-8 and MW-9. Detectable TPH-g concentrations ranged from 535 µg/L in MW-2 to 22,600 µg/L in MW-3. The TPH-g concentration in MW-3 was several orders of magnitude higher than in the other site wells.

Figure 4 displays the contour map of TPH-g concentrations in the groundwater. As illustrated, the most TPH-g-impacted region is in the vicinity of the dispenser islands and former USTs.

The following BTEX concentrations were observed during this monitoring event.

- In wells MW-1, MW-3, MW-4, MW-6, and MW-7 toluene was below the laboratory-reporting limit.
- In MW-2, benzene and toluene were below the laboratory-reporting limit, and ethylbenzene and total xylenes were at low levels.
- In MW-8, all BTEX analytes were below the laboratory-reporting limit except for ethylbenzene, which was detected at 4.31 µg/L.
- In MW-9, all BTEX analytes were below the laboratory-reporting limit.
- The highest benzene, ethylbenzene, and total xylene concentrations were detected at MW-3, at 4,070 µg/L, 1,120 µg/L, and 3,095 µg/L, respectively. The highest toluene concentration was detected in MW-5, at 11 µg/L.

Figure 5 displays the contour map of benzene concentrations in the groundwater. The most benzene-impacted region is in the vicinity of the dispenser islands and former USTs. The benzene concentration detected in well MW-3 was several orders of magnitude higher than in the other site wells. Benzene appears to have only minimally impacted off-site wells MW-6 and MW-7 and was non-detectable in the remaining off-site wells.

Low or non-detectable levels of MtBE were observed throughout the site except for groundwater samples collected at wells MW-3 to MW-5. The highest MtBE concentration was detected at MW-4 at 1,220 µg/L. Figure 6 displays the contour map of MtBE concentrations in the groundwater. The most MtBE-impacted region was in the vicinity of the dispenser islands and former USTs.

Table 1 shows the detailed historical concentration trends for all site wells. Since the previous monitoring event (Third Quarter 2007), all TPH-g, BTEX, and MtBE analytes have decreased in the more impacted MW-3.

Table 2 shows analytical results for gasoline oxygenates, as well as historical groundwater gasoline oxygenate results.

The following gasoline oxygenate and lead scavenger concentrations were observed during this monitoring event.

- All isopropyl ether (DIPE), 1,2-dichloroethane (1,2-DCA), 1,2-dibromoethane (EDB), and ethanol constituents were below the laboratory-reporting limit in all groundwater samples collected during this monitoring event. Analytical results for 1,2-DCA, ethanol, and EDB constituents are shown in Appendix C.
- Ethyl tertiary-butyl ether (ETBE) was detected at 18.4 µg/L in well MW-4, and below the laboratory-reporting limit in the remaining tested wells.



- Tertiary-butyl alcohol (TBA) was the major gasoline oxygenate observed during this monitoring event. TBA was below the laboratory-reporting limit in wells MW-2, MW-8, and MW-9.

Figure 7 displays the contour map of TBA concentrations in the groundwater. The most TBA-impacted regions were in the vicinity of the dispenser islands and former USTs, around wells MW-3 to MW-5. Due to the high mobility rate of TBA in groundwater, the TBA plume appears to have migrated southwesterly with the flow of groundwater from the UST cavity and pump islands toward MW-4.

- Tertiary-amyl methyl ether (TAME) was below the laboratory-reporting limit in all groundwater samples except for those collected at wells MW-3, MW-4, MW-5 and MW-7, where TAME was detected at 301 µg/L, 25.9 µg/L, 181 µg/L and 2.58 µg/L, respectively.

Figure 8 displays the contour map of TAME concentrations in the groundwater. Similar to the MtBE plume, the gasoline oxygenate region is still present in the vicinity of the pump islands and UST cavity, especially at well MW-3.

Appendix C includes the laboratory report and chain-of-custody form for this monitoring event; refer to Tables 1 and 2 for further detailed historical concentration trends.

### **3. CONCLUSIONS AND RECOMMENDATIONS**

Results of the Fourth Quarter 2007 groundwater monitoring event are summarized below.

- The groundwater flow direction has remained south to southwesterly throughout the Site.
- The hydrocarbon source area remains in the vicinity of the former UST cavity, near well MW-3, where a previous release of petroleum hydrocarbons occurred.
- The southerly migration of impacted groundwater from the source area of the former UST cavity is evidenced by high MtBE and TBA concentrations at well MW-4. However, in general, the contaminant region appears to be centrally located in the vicinity of the former UST cavity and pump islands, especially at MW-3.
- Based on quarterly groundwater monitoring results, in general, all BTEX, MtBE and gasoline oxygenates have remained at low or non-detectable levels in the off-site wells.

- The TPH-g concentration in well MW-6, at 9,610 µg/L, remained significantly lower this quarter than the historical peak value observed in September 2004, at 34,000 µg/L. TPH-g has historically remained non-detectable in MW-8 and MW-9.

Based on results of this monitoring event, SOMA recommends the following action items:

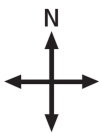
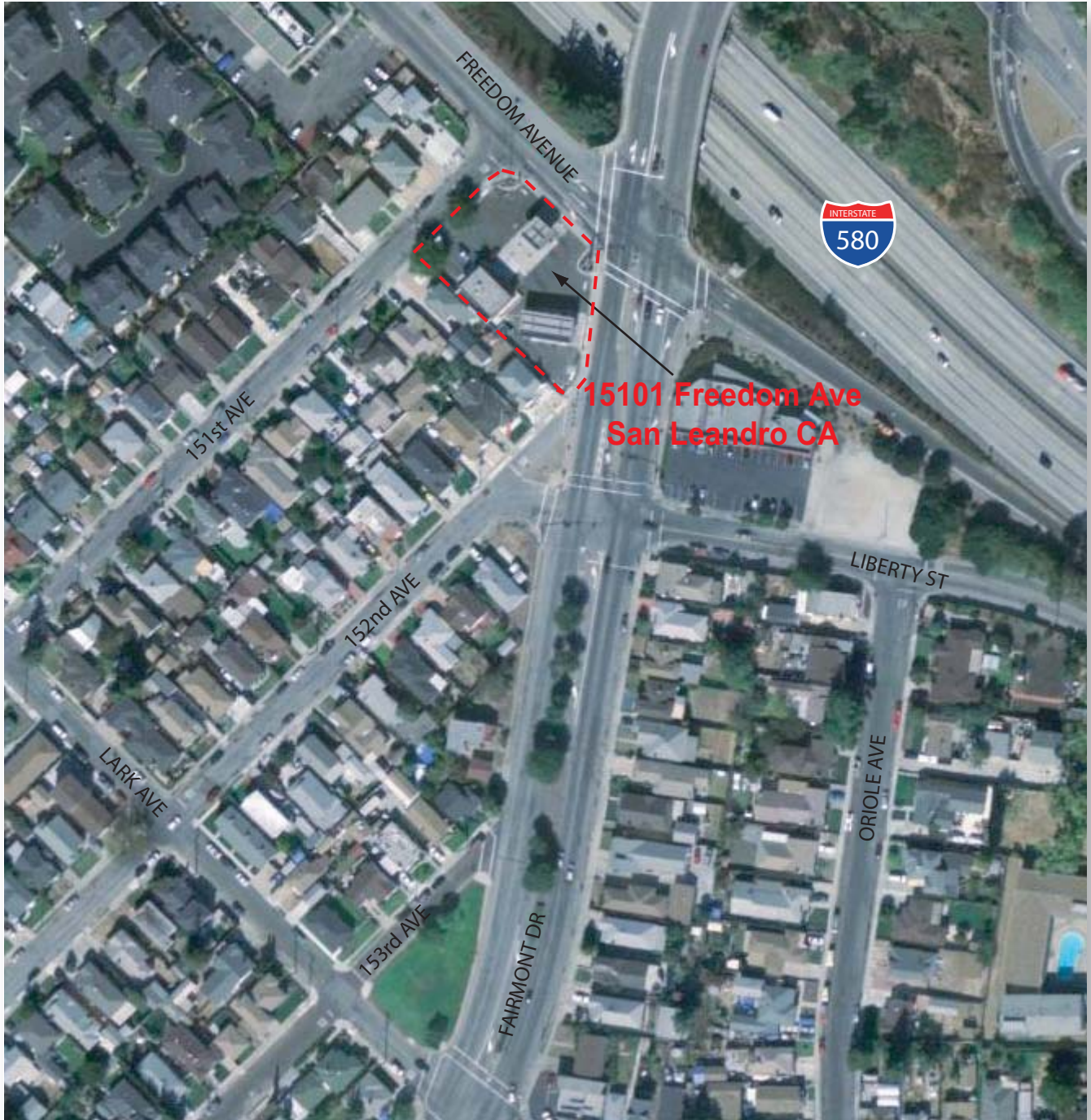
- Continuing the quarterly monitoring program to better understand seasonal variations in groundwater quality conditions.
- SOMA is currently preparing a corrective action plan and site conceptual model which will introduce the most feasible, effective and yet less costly alternative for removing petroleum hydrocarbon from the subsurface.
- Based on continued low to non-detectable levels of all tested constituents in off-site wells MW-7 to MW-9, SOMA recommends modifying the existing quarterly sampling schedule to annual sampling for these off-site wells.

#### **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 Pacific Analytical Laboratory for the current groundwater-monitoring event. Numbers 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 the 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 practices in the environmental engineering and consulting field at the time of this sampling.

# Figures



approximate scale in feet



Figure 1: Site vicinity map.

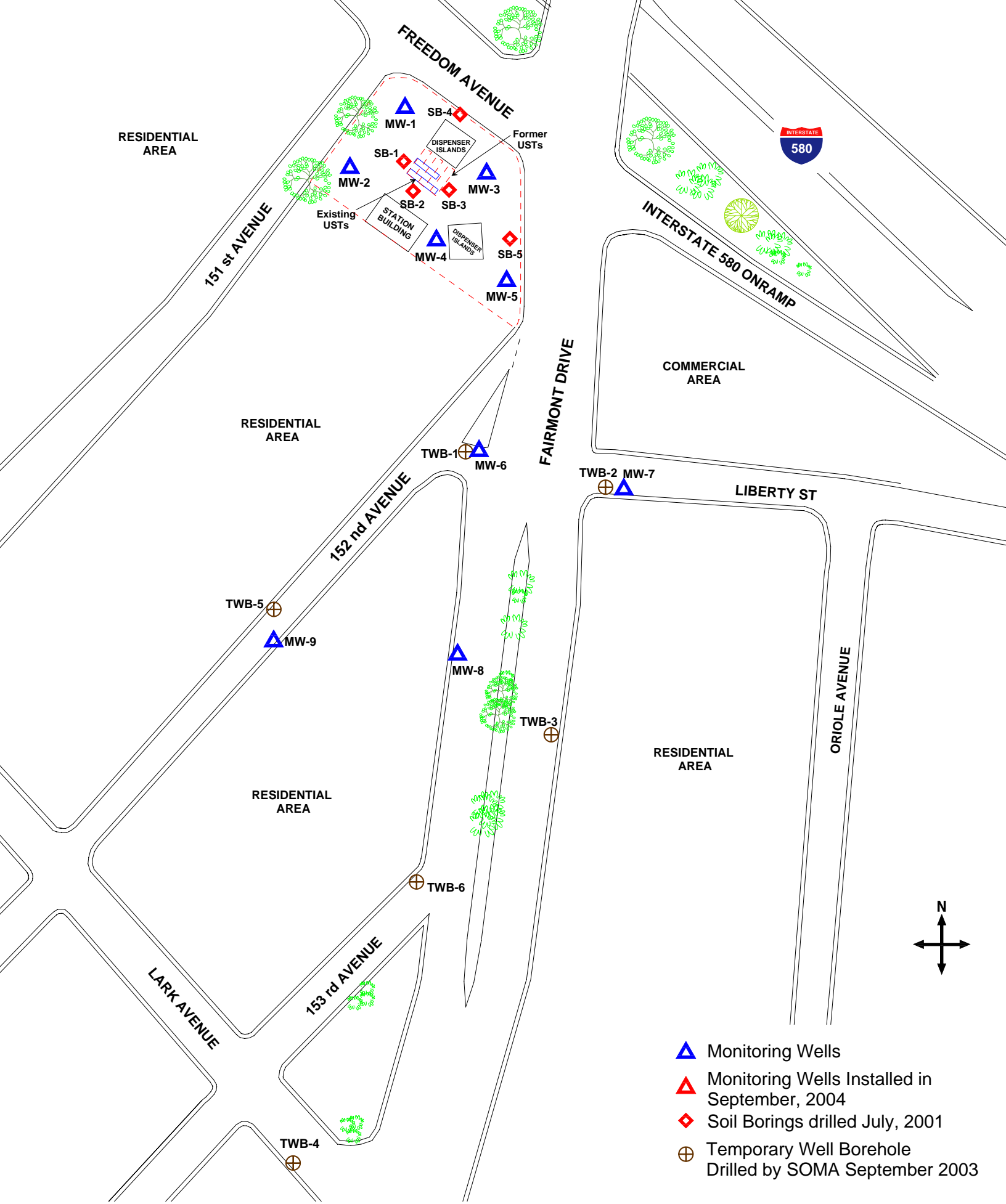
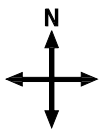


Figure 2: Site map showing locations of groundwater monitoring wells and soil borings.

approximate scale in feet  
 0 50 100





RESIDENTIAL AREA

FREEDOM AVENUE



151 st AVENUE

MW-1  
31.04

MW-2  
30.82

MW-3  
30.9

MW-4  
30.62

MW-5  
30.55

RESIDENTIAL AREA

MW-6  
28.91

COMMERCIAL AREA

INTERSTATE 580 ONRAMP

FAIRMONT DRIVE

152 nd AVENUE

LIBERTY ST

Approximate groundwater flow direction

MW-9  
28.67

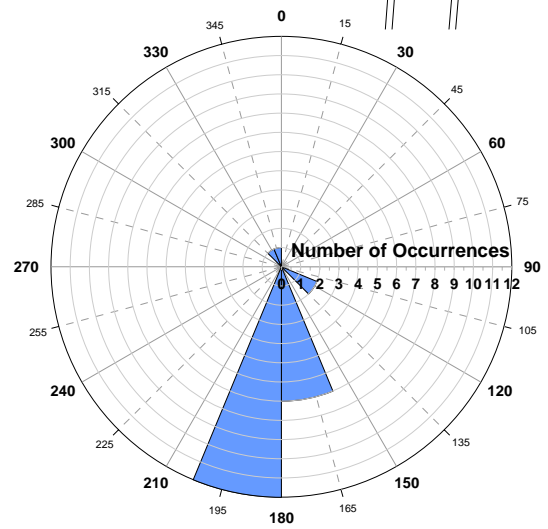
MW-8  
28.77

MW-7  
29.86

RESIDENTIAL AREA

ORIOLE AVENUE

RESIDENTIAL AREA



Rose Diagram of Groundwater Flow Direction (June 2002 - October 2007)

▲ Monitoring Wells

Note: Monitoring wells MW-6 through MW-9 installed in September 2004.

approximate scale in feet

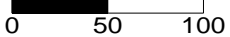
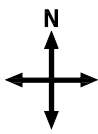


Figure 3: Groundwater elevation contour map in feet. October 23, 2007.





RESIDENTIAL AREA

FREEDOM AVENUE



151 st AVENUE

MW-2  
535

MW-1  
3,900

MW-3  
22,600

Former USTs

DISPENSER ISLANDS

STATION BUILDING

Existing USTs

MW-4  
4,200

MW-5  
6,120

INTERSTATE 580 ONRAMP

COMMERCIAL AREA

RESIDENTIAL AREA

FAIRMONT DRIVE

MW-6  
9,610

152 nd AVENUE

LIBERTY ST

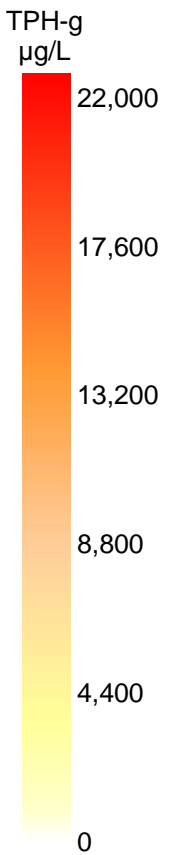
MW-7  
1,730

MW-9  
<50

MW-8  
<50

RESIDENTIAL AREA

RESIDENTIAL AREA



Approximate groundwater flow direction



▲ Monitoring Wells

< Less than Laboratory Reporting Limit

Note: Monitoring wells MW-6 through MW-9 installed in September 2004.

approximate scale in feet

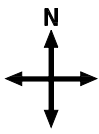


Figure 4: Contour map of TPH-g concentrations in groundwater. October 23, 2007.









RESIDENTIAL AREA

FREEDOM AVENUE



151 st AVENUE

MW-1  
4.54

MW-2  
<0.5

MW-3  
970

Former USTs

Existing USTs

MW-4  
1,220

MW-5  
433

INTERSTATE 580 ONRAMP

COMMERCIAL AREA

RESIDENTIAL AREA

FAIRMONT DRIVE

MW-6  
5.81

LIBERTY ST

152 nd AVENUE

MW-9  
<0.5

MW-8  
<0.5

MW-7  
8.44

MtBE  
µg/L

1,200

960

720

480

240

0

RESIDENTIAL AREA

ORIOLE AVENUE

Approximate groundwater flow direction



▲ Monitoring Wells

< Less than Laboratory Reporting Limit

Note: Monitoring wells MW-6 through MW-9 installed in September 2004.

approximate scale in feet

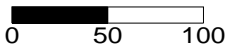
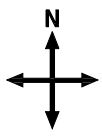


Figure 6: Contour map of MtBE concentrations in groundwater (EPA Method 8260B). October 23, 2007.





RESIDENTIAL AREA

FREEDOM AVENUE



151 st AVENUE

MW-1  
53.7

DISPENSER ISLANDS

MW-2  
<2.0

Former USTs

MW-3  
1,050

STATION BUILDING

MW-4  
3,400

Existing USTs

MW-5  
1,510

INTERSTATE 580 ONRAMP

COMMERCIAL AREA

RESIDENTIAL AREA

FAIRMONT DRIVE

MW-6  
6.68

LIBERTY ST

152 nd AVENUE

MW-9  
<2.0

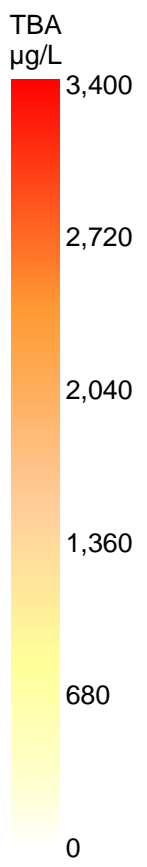
MW-8  
<2.0

MW-7  
6.49

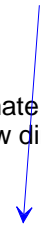
RESIDENTIAL AREA



ORIOLE AVENUE

RESIDENTIAL AREA



Approximate groundwater flow direction



-  Monitoring Wells
-  Less than Laboratory Reporting Limit

Note: Monitoring wells MW-6 through MW-9 installed in September 2004.

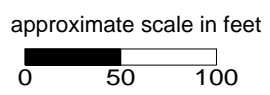


Figure 7: Contour map of TBA concentrations in groundwater. October 23, 2007.



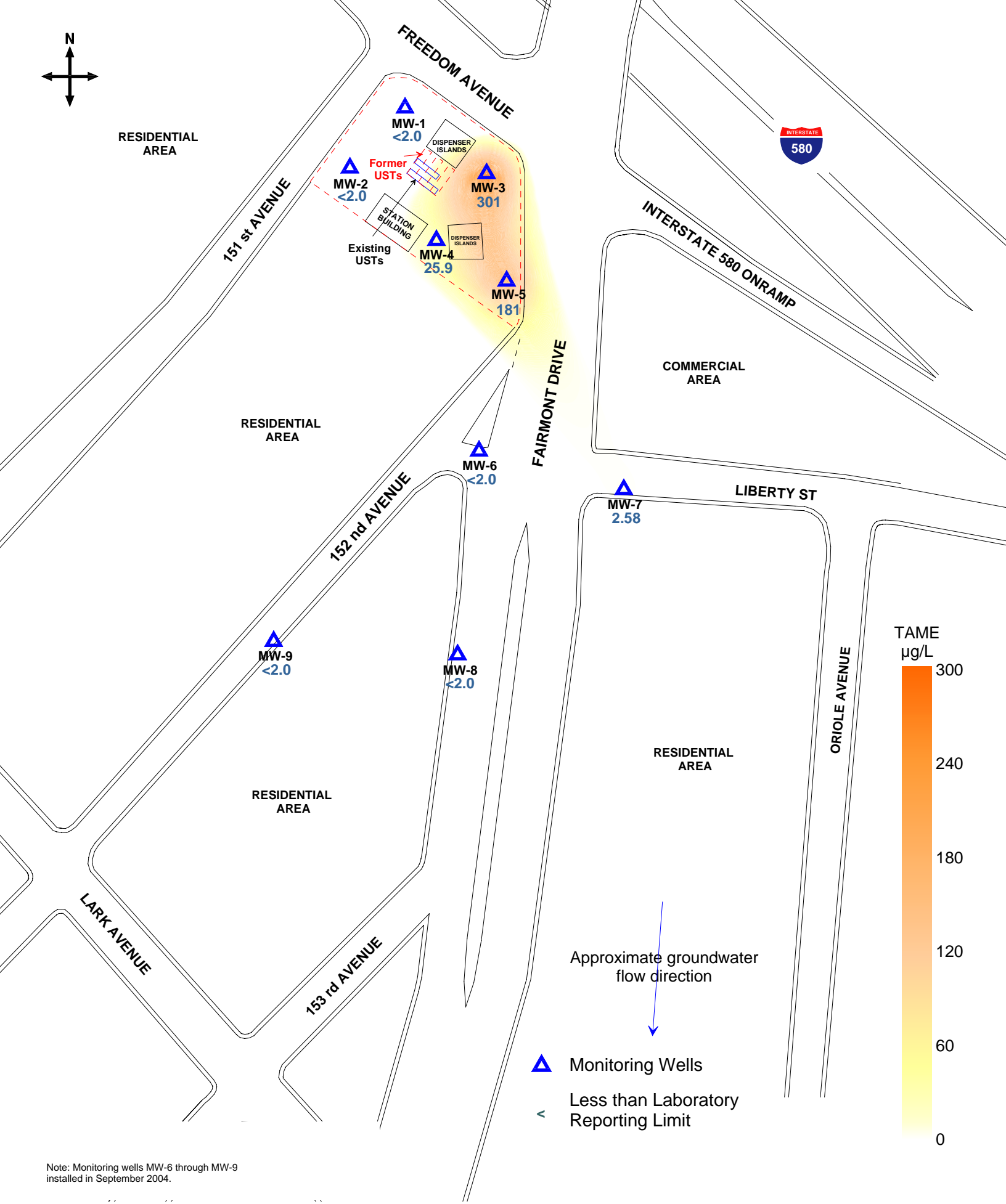


Figure 8: Contour map of TAME concentrations in groundwater. October 23, 2007.

approximate scale in feet  
 0 50 100

# Tables

**Table 1**  
**Historical Groundwater Elevation Data and Analytical Results**  
**15101 Freedom Avenue, San Leandro, CA**

Monitoring Well	Date	Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE 8260B <sup>2</sup> (µg/L)
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	

**Table 1**  
**Historical Groundwater Elevation Data and Analytical Results**  
**15101 Freedom Avenue, San Leandro, CA**

Monitoring Well	Date	Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE 8260B <sup>2</sup> (µg/L)
MW-1 cont	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
	<b>10/23/2007</b>	<b>54.46</b>	<b>23.42</b>	<b>31.04</b>	<b>3,900</b>	<b>117</b>	<b>&lt;2.0</b>	<b>87.1</b>	<b>23.87</b>	<b>4.54</b>
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	

**Table 1**  
**Historical Groundwater Elevation Data and Analytical Results**  
**15101 Freedom Avenue, San Leandro, CA**

Monitoring Well	Date	Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE 8260B <sup>2</sup> (µg/L)
<b>MW-2 cont.</b>	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
	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
	<b>10/23/2007</b>	<b>52.41</b>	<b>21.59</b>	<b>30.82</b>	<b>535</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>18</b>	<b>5.11</b>	<b>&lt;0.5</b>
	<b>MW-3</b>	5/10/2002	51.16	22.28	28.88	44,000	6,000	900	1,500	6,200
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

**Table 1**  
**Historical Groundwater Elevation Data and Analytical Results**  
**15101 Freedom Avenue, San Leandro, CA**

Monitoring Well	Date	Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE 8260B <sup>2</sup> (µg/L)
<b>MW-3 cont.</b>	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
	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
<b>10/23/2007</b>	<b>53.91</b>	<b>23.01</b>	<b>30.9</b>	<b>22,600</b>	<b>4,070</b>	<b>&lt;86</b>	<b>1,120</b>	<b>3,095</b>	<b>970</b>	
<b>MW-4</b>	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



**Table 1**  
**Historical Groundwater Elevation Data and Analytical Results**  
**15101 Freedom Avenue, San Leandro, CA**

Monitoring Well	Date	Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE 8260B <sup>2</sup> (µg/L)
MW-4 cont.	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
	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
<b>10/23/2007</b>	<b>53.31</b>	<b>22.69</b>	<b>30.62</b>	<b>4,200</b>	<b>267</b>	<b>&lt;8.6</b>	<b>147</b>	<b>155.5</b>	<b>1,220</b>	

**Table 1**  
**Historical Groundwater Elevation Data and Analytical Results**  
**15101 Freedom Avenue, San Leandro, CA**

Monitoring Well	Date	Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE 8260B <sup>2</sup> (µg/L)
<b>MW-5</b>	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
	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	

**Table 1**  
**Historical Groundwater Elevation Data and Analytical Results**  
**15101 Freedom Avenue, San Leandro, CA**

Monitoring Well	Date	Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE 8260B <sup>2</sup> (µg/L)
<b>MW-5 cont.</b>	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
	<b>10/23/2007</b>	<b>50.53</b>	<b>19.98</b>	<b>30.55</b>	<b>6,120</b>	<b>550</b>	<b>11</b>	<b>284</b>	<b>141.4</b>	<b>433</b>
<b>MW-6</b>	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
	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
<b>10/23/2007</b>	<b>45.82</b>	<b>16.91</b>	<b>28.91</b>	<b>9,610</b>	<b>64.3</b>	<b>&lt;2.0</b>	<b>188</b>	<b>302.6</b>	<b>5.81</b>	
<b>MW-7</b>	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

**Table 1**  
**Historical Groundwater Elevation Data and Analytical Results**  
**15101 Freedom Avenue, San Leandro, CA**

Monitoring Well	Date	Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE 8260B <sup>2</sup> (µg/L)
<b>MW-7 cont</b>	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
	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
	<b>10/23/2007</b>	<b>44.74</b>	<b>14.88</b>	<b>29.86</b>	<b>1,730</b>	<b>0.67</b>	<b>&lt;2.0</b>	<b>20.7</b>	<b>17.31</b>	<b>8.44</b>
<b>MW-8</b>	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

**Table 1**  
**Historical Groundwater Elevation Data and Analytical Results**  
**15101 Freedom Avenue, San Leandro, CA**

Monitoring Well	Date	Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE 8260B <sup>2</sup> (µg/L)
MW-8 cont.	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
	<b>10/23/2007</b>	<b>41.14</b>	<b>12.37</b>	<b>28.77</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>4.31</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>
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
<b>10/23/2007</b>	<b>40.26</b>	<b>11.59</b>	<b>28.67</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	

**Table 1**  
**Historical Groundwater Elevation Data and Analytical Results**  
**15101 Freedom Avenue, San Leandro, CA**

Monitoring Well	Date	Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE 8260B <sup>2</sup> (µg/L)
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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.

<sup>1</sup> : 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.

<sup>2</sup> MtBE analyzed by EPA Method 8021B, and confirmed by EPA Method 8260B.

<: Not detected above the laboratory reporting limit.

<sup>c</sup> 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.

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 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)
<b>MW-1</b>	8/8/2002	78	<1.3	<1.3	<1.3
	11/1/2002	42	< 1.0	< 1.0	< 1.0
	2/21/2003	47	<0.5	<0.5	<0.5
	5/28/2003	25	<0.5	<0.5	<0.5
	8/12/2003	<10	<0.5	<0.5	<0.5
	10/9/2003	70	<1.0	<1.0	<1.0
	1/15/2004	55	<0.5	<0.5	<0.5
	5/25/2004	62	<0.7	<0.7	<0.7
	9/21/2004	<10	<0.5	<0.5	<0.5
	12/14/2004	<21.5	<4.3	<4.3	<17.2
	3/11/2005	81	<0.5	<0.5	<2.0
	6/15/2005	<10	<0.5	<0.5	<2.0
	8/26/2005	68.9	<2.15	<2.15	<8.6
	11/11/2005	46	<2.15	<2.15	<8.6
	2/9/2006	11.3	<0.5	<0.5	<2.0
	5/9/2006	<10	<0.5	<0.5	<2.0
	8/10/2006	<43	<2.15	<2.15	<8.60
	10/26/2006	39.4	<1.0	<1.0	<4.0
	1/25/2007	41.4	<0.5	<0.5	<2.0
	4/26/2007	39.6	<0.5	<0.5	<2.0
7/25/2007	46.5	<1.0	<1.0	<4.0	
<b>10/23/2007</b>	<b>53.7</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	
<b>MW-2</b>	8/8/2002	21	<0.5	<0.5	<0.5
	11/1/2002	15	<0.5	<0.5	<0.5
	2/21/2003	12	<0.5	<0.5	<0.5
	5/28/2003	31	<0.5	<0.5	<0.5
	8/12/2003	69	<0.8	<0.8	<0.8
	10/9/2003	12	<0.5	<0.5	<0.5
	1/15/2004	<10	<0.5	<0.5	<0.5
	5/25/2004	14	<0.5	<0.5	<0.5
	9/21/2004	<10	<0.5	<0.5	<0.5
	12/14/2004	<2.5	<0.5	<0.5	<2.0

**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)
<b>MW-2 cont.</b>	3/11/2005	<2.5	<0.5	<0.5	<2.0
	6/15/2005	<10	<0.5	<0.5	<2.0
	8/26/2005	<10	<0.5	<0.5	<2.0
	11/11/2005	<10	<0.5	<0.5	<2.0
	2/9/2006	<10	<0.5	<0.5	<2.0
	5/9/2006	<10	<0.5	<0.5	<2.0
	8/10/2006	<10	<0.5	<0.5	<2.0
	10/26/2006	<10	<0.5	<0.5	<2.0
	1/25/2007	<2.0	<0.5	<0.5	<2.0
	4/26/2007	<2.0	<0.5	<0.5	<2.0
	7/25/2007	<2.0	<0.5	<0.5	<2.0
	<b>10/23/2007</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>
	<b>MW-3</b>	8/8/2002	<330	<8.3	<8.3
11/1/2002		85	< 1.3	<1.3	220
2/21/2003		140	<5.0	<5.0	320
5/28/2003		520	<10	<10	530
8/12/2003		180	<4.2	<4.2	270
10/9/2003		<170	<8.3	<8.3	200
1/15/2004		<100	<5.0	<5.0	150
5/25/2004		<100	<5.0	<5.0	270
9/21/2004		<140	<7.1	<7.1	110
12/14/2004		<100	<20	<20	154
3/11/2005		<215	<43	<43	256
6/15/2005		<215	<10.8	<10.8	374
8/26/2005		699	<21.5	<21.5	277
11/11/2005		<430	<21.5	<21.5	171
2/9/2006		<430	<21.5	<21.5	620
5/9/2006		367	<10.8	<10.8	594
8/10/2006		365	<10.8	<10.8	727
10/26/2006		591	<10.8	<10.8	899
1/25/2007		711	<10.8	<10.8	768
4/26/2007		690	<10.8	<10.8	369
7/25/2007	1,340	<10.8	<10.8	565	
<b>10/23/2007</b>	<b>1,050</b>	<b>&lt;21.5</b>	<b>&lt;21.5</b>	<b>301</b>	
<b>MW-4</b>	8/8/2002	1500	<17	<17	18
	11/1/2002	580	< 5.0	6	13



**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)
<b>MW-4 cont.</b>	2/21/2003	1600	<20	22	<20
	5/28/2003	690	<8.3	<8.3	17
	8/12/2003	550	<7.1	7.3	18
	10/9/2003	1400	<31	50	<31
	1/15/2004	1,300	<20	25	21
	5/25/2004	560	<8.3	<8.3	24
	9/21/2004	1,300	<50	<50	<50
	12/14/2004	826	<10.75	21	49
	3/11/2005	1,110	<10.8	12.1	<43
	6/15/2005	<110	<5.5	<5.5	22.9
	8/26/2005	902	<5.50	<5.50	37.4
	11/11/2005	884	<10.8	<10.8	<43
	2/9/2006	769	<10.8	16.4	45.6
	5/9/2006	405	<2.15	2.95	31.3
	8/10/2006	306	<2.15	<2.15	35.3
	10/26/2006	3430	<10.8	13.8	<43
	1/25/2007	822	<2.15	2.4	28
	4/26/2007	556	<2.15	2.28	29.2
	7/25/2007	1,860	<2.15	9.94	24
	<b>10/23/2007</b>	<b>3,400</b>	<b>&lt;2.15</b>	<b>18.4</b>	<b>25.9</b>
<b>MW-5</b>	8/8/2002	<250	<6.3	<6.3	510
	11/1/2002	66	< 2.0	< 2.0	560
	2/21/2003	<63	<3.1	<3.1	280
	5/28/2003	<33	<1.7	<1.7	110
	8/12/2003	130	<3.6	<3.6	270
	10/9/2003	<100	<5.0	<5.0	740
	1/15/2004	<63	<3.1	<3.1	300
	5/25/2004	<100	<5.0	<5.0	210
	9/21/2004	<130	<6.3	<6.3	550
	12/14/2004	40	<5.5	<5.5	444
	3/11/2005	88.8	<5.5	<5.5	448
	6/15/2005	<43	<2.15	<2.15	88.1
	8/26/2005	274	<5.50	<5.50	195
	11/11/2005	192	<5.50	<5.50	360
	2/9/2006	218	<5.50	<5.50	523
	5/9/2006	91.8	<2.15	<2.15	163
	8/10/2006	138	<5.50	<5.50	342
	10/26/2006	322	<5.50	<5.50	712

**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)
<b>MW-5 cont.</b>	1/25/2007	878	<5.50	<5.50	552
	4/26/2007	708	<2.15	<2.15	310
	7/25/2007	1,020	<2.15	<2.15	356
	<b>10/23/2007</b>	<b>1,510</b>	<b>&lt;2.15</b>	<b>&lt;2.15</b>	<b>181</b>
<b>MW-6</b>	9/21/2004	<10	<0.5	<0.5	<0.5
	12/14/2004	<5.5	<5.5	<5.5	<22
	3/11/2005	2.54	<0.5	<0.5	<2.0
	6/15/2005	<20	<1.0	<1.0	<4.0
	8/26/2005	<43	<2.15	<2.15	<8.6
	11/11/2005	<43	<2.15	<2.15	<8.6
	2/9/2006	<43	<2.15	<2.15	<8.6
	5/9/2006	<10	<0.5	<0.5	<2.0
	8/10/2006	<10	<0.5	<0.5	<2.0
	10/26/2006	<10	<0.5	<0.5	<2.0
	1/25/2007	<2.0	<0.5	<0.5	<2.0
	4/26/2007	7.21	<0.5	<0.5	<2.0
	7/25/2007	5.66	<0.5	<0.5	<2.0
	<b>10/23/2007</b>	<b>6.68</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>
<b>MW-7</b>	9/21/2004	<10	<0.5	<0.5	1.5
	12/14/2004	<2.5	<0.5	<0.5	<2.0
	3/11/2005	<12.5	<2.5	<2.5	<10
	6/15/2005	<10	<0.5	<0.5	2.23
	8/26/2005	<10	<0.5	<0.5	<2.0
	11/11/2005	<10	<0.5	<0.5	<2.0
	2/9/2006	NA	NA	NA	NA
	5/9/2006	<10	<0.5	<0.5	<2.0
	8/10/2006	<10	<0.5	<0.5	<2.0
	10/26/2006	<10	<0.5	<0.5	<2.0
	1/25/2007	<2.0	<0.5	<0.5	<2.0
	4/26/2007	<2.0	<0.5	<0.5	<2.0
	7/25/2007	<2.0	<0.5	<0.5	<2.0
	<b>10/23/2007</b>	<b>6.49</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>2.58</b>
<b>MW-8</b>	9/21/2004	<10	<0.5	<0.5	<0.5
	12/14/2004	<2.5	<0.5	<0.5	<2.0
	3/11/2005	NA	NA	NA	NA
	6/15/2005	<10	<0.5	<0.5	<2.0
	8/26/2005	<10	<0.5	<0.5	<2.0
	11/11/2005	<10	<0.5	<0.5	<2.0

**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)
<b>MW-8 cont</b>	2/9/2006	<10	<0.5	<0.5	<2.0
	5/9/2006	<10	<0.5	<0.5	<2.0
	8/10/2006	<10	<0.5	<0.5	<2.0
	10/26/2006	<10	<0.5	<0.5	<2.0
	1/25/2007	<2.0	<0.5	<0.5	<2.0
	4/26/2007	<2.0	<0.5	<0.5	<2.0
	7/25/2007	<2.0	<0.5	<0.5	<2.0
	<b>10/23/2007</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>
<b>MW-9</b>	9/21/2004	<10	<0.5	<0.5	<0.5
	12/14/2004	<2.5	<0.5	<0.5	<2.0
	3/11/2005	<2.5	<0.5	<0.5	<2.0
	6/15/2005	<10	<0.5	<0.5	<2.0
	8/26/2005	<10	<0.5	<0.5	<2.0
	11/11/2005	<10	<0.5	<0.5	<2.0
	2/9/2006	<10	<0.5	<0.5	<2.0
	5/9/2006	<10	<0.5	<0.5	<2.0
	8/10/2006	<10	<0.5	<0.5	<2.0
	10/26/2006	<10	<0.5	<0.5	<2.0
	1/25/2007	<2.0	<0.5	<0.5	<2.0
	4/26/2007	<2.0	<0.5	<0.5	<2.0
	7/25/2007	<2.0	<0.5	<0.5	<2.0
	<b>10/23/2007</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>

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.

TBA: tert-Butyl Alcohol

DIPE: Isopropyl Ether

ETBE: Ethyl tert-Butyl Ether

TAME: Methyl tert-Amyl Ether

# **Appendix A**

## **SOMA's Groundwater Monitoring Procedures**

## **Field Activities**

On October 23, 2007, SOMA's field crew conducted a groundwater-monitoring event in accordance with the procedures and guidelines of the Alameda County Environmental Health Services and the California Regional Water Quality Control Board. Figure 2 shows the locations of the wells.

## **Water Level Measurements**

On October 23, 2007, five on-site monitoring wells (MW-1 to MW-5), and four off-site wells (MW-6 to MW-9) were measured for depth to groundwater. On October 23, 2007, additional field measurements and grab groundwater samples were collected from all monitoring wells.

Prior to measurement of the groundwater depth at each monitoring well, equalization with the surrounding aquifer was achieved. The well cap was removed from each well, and the pressure in each well was then allowed to dissipate. This allowed for a more stable water table level within the well. After a few minutes, and once the water level in the well stabilized, the depth to groundwater in each monitoring well was measured from the top of the casing to the nearest 0.01 foot using an electric sounder.

The Site was re-surveyed by Harrington Surveys Inc., of Walnut Creek, on October 11, 2004. The survey data was based on California Coordinate System, Zone 3, NAVD 83. The elevation data was based on a datum of 58.50 feet NAVD88. Top of casing elevation data and the depth to groundwater in each monitoring well was used to calculate the groundwater elevation.

The survey data is included in Appendix B.

## **Purging and Field Measurements**

Prior to sample collection, each monitoring well was purged using a battery operated 2-inch-diameter pump (Model ES-60 DC).

To ensure that the final samples were in equilibrium with and representative of the surrounding groundwater, several samples were taken during the purging for field measurements of pH, temperature and EC. These parameters were measured using a Hanna pH, conductivity, and temperature meter. The equipment was 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 conductivity (EC) is directly related to the concentration of ions in solution.

The purging continued until these parameters stabilized or three casing volumes were purged.

### **Sampling**

On October 23, 2007, for sampling purposes, after purging a disposable polyethylene bailer was used to collect sufficient samples from each monitoring well for laboratory analyses. The groundwater samples collected from each monitoring well were transferred to three 40-mL VOA vials, which had been prepared with a hydrochloric acid preservative. The vials were sealed to prevent the development of air bubbles within the headspace area.

After the groundwater samples were collected, they were placed in an ice chest and maintained at 4°C. A chain of custody form was completed for all of the samples and submitted along with the samples to the laboratory. Upon completion of this monitoring event, SOMA's field crew delivered the groundwater samples to Pacific Analytical Laboratory in Alameda, California.

### **LABORATORY ANALYSIS**

Pacific Analytical Laboratory, a California state-certified laboratory, analyzed the groundwater samples for TPH-g, BTEX, MtBE, gasoline oxygenates, ethanol and lead scavengers. Samples for TPH-g, BTEX, MtBE, gasoline oxygenates, ethanol and lead scavengers measurements were prepared using EPA Method 5030B and analyzed using Method 8260B.

# Appendix B

Table of Elevations & Coordinates on Monitoring Wells  
Measured by Harrington Surveys, Inc.,  
and  
Field Measurements of Physical and Chemical  
Parameters of Groundwater Samples

**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.

**HORIZONTAL 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:**

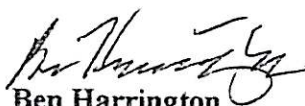
NGS 1974, STATION K 1256, NAVD 88 ELEV. 58.50.  
PID # HT1871

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

EPOCH DATE 1998.5

OBSERVATION: EPOCH=180.

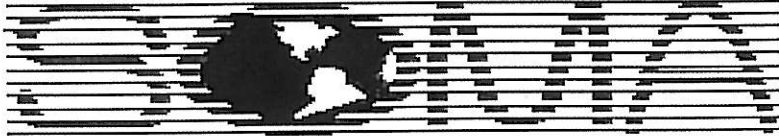
FIELD SURVEY: OCT. 11, 2004.

  
Ben Harrington  
PLS 5132









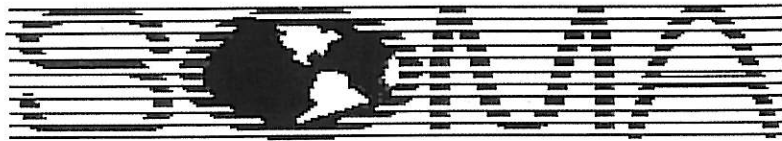
ENVIRONMENTAL ENGINEERING, INC

Well No.: MMW-1 Project No.: 2551  
 Casing Diameter: 4 inches Address: 15101 Freedom Avenue  
 Depth of Well: 31.64 feet San Leandro, CA  
 Top of Casing Elevation: 54.46 feet Date: October 23, 2007  
 Depth to Groundwater: 23.42 feet Sampler: Lizzie Hightower  
 Groundwater Elevation: 31.04 feet Eric Gassner-Wollwage  
 Water Column Height: 8.22 feet  
 Purged Volume: 10 gallons

Purging Method: Bailer  Pump   
 Sampling Method: Bailer  Pump   
 Color: Yes  No  Describe: \_\_\_\_\_  
 Sheen: Yes  No  Describe: \_\_\_\_\_  
 Odor: Yes  No  Describe: Petro odor

Field Measurements:

Time	Vol (gallons)	pH	Temp (°C)	E.C. (µs/cm)
1404	started	purging	will	
1406	2	7.22	23.2	987
1409	5	7.12	22.6	975
1412	8	7.21	22.7	985
1414	10	7.25	22.6	776
1417	sampled			



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-2  
 Casing Diameter: 4 inches  
 Depth of Well: 31.55 feet  
 Top of Casing Elevation: 52.41 feet  
 Depth to Groundwater: 21.59 feet  
 Groundwater Elevation: 30.82 feet  
 Water Column Height: 9.96 feet  
 Purged Volume: 11 gallons

Project No.: 2551  
 Address: 15101 Freedom Avenue  
 San Leandro, CA  
 Date: October 23, 2007  
 Sampler: Lizzie Hightower  
 Eric Gassner-Wollwage

Purging Method: Bailer  Pump   
 Sampling Method: Bailer  Pump

Color: Yes  No  Describe: \_\_\_\_\_  
 Sheen: Yes  No  Describe: \_\_\_\_\_  
 Odor: Yes  No  Describe: Sulfur

Field Measurements:

Time	Vol (gallons)	pH	Temp (°C)	E.C. (µs/cm)
1326	Started purging well			
1328	2	7.22	22.2	882
1331	5	7.08	21.8	861
1334	8	7.07	21.7	865
1337	11	7.06	21.7	889
1340	sampled			



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-3  
 Casing Diameter: 4 inches  
 Depth of Well: 31.86 feet  
 Top of Casing Elevation: 53.91 feet  
 Depth to Groundwater: 23.01 feet  
 Groundwater Elevation: 30.90 feet  
 Water Column Height: 8.85 feet  
 Purged Volume: 10 gallons

Project No.: 2551  
 Address: 15101 Freedom Avenue  
 San Leandro, CA  
 Date: October 23, 2007  
 Sampler: Lizzie Hightower  
 Eric Gassner-Wollwage

Purging Method: Bailer  Pump   
 Sampling Method: Bailer  Pump

Color: Yes  No  Describe: \_\_\_\_\_

Sheen: Yes  No  Describe: \_\_\_\_\_

Odor: Yes  No  Describe: slight petro odor

Field Measurements:

Time	Vol (gallons)	pH	Temp (°C)	E.C. (µs/cm)
1431	started purging well			
1433	2	7.28	23.8	1062
1436	5	7.19	22.8	1025
1439	8	7.16	22.5	1052
1441	10	7.12	22.6	1071
1444	Sampled			





ENVIRONMENTAL ENGINEERING, INC

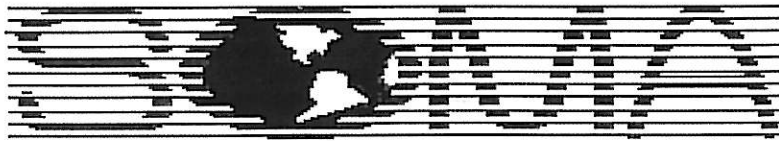
Well No.: MW-4 Project No.: 2551  
 Casing Diameter: 4 inches Address: 15101 Freedom Avenue  
 Depth of Well: 31.99 feet San Leandro, CA  
 Top of Casing Elevation: 53.31 feet Date: October 23, 2007  
 Depth to Groundwater: 22.69 feet Sampler: Lizzie Hightower  
 Groundwater Elevation: 30.62 feet Eric Gassner-Wollwage  
 Water Column Height: 9.30 feet  
 Purged Volume: 14 gallons

Purging Method: Bailer  Pump   
 Sampling Method: Bailer  Pump

Color: Yes  No  Describe: \_\_\_\_\_  
 Sheen: Yes  No  Describe: \_\_\_\_\_  
 Odor: Yes  No  Describe: petro odor

Field Measurements:

Time	Vol (gallons)	pH	Temp (°C)	E.C. (µs/cm)
<del>1500</del>	Started purging well			
1503	2	7.21	22.4	1211
1506	5	7.16	22	1201
1509	8	7.12	21.8	1216
1512	11	7.05	21.9	1220
1515	14	7.02	21.7	1227
1518	sampled			



ENVIRONMENTAL ENGINEERING, INC

Well No.:	<u>MW-5</u>	Project No.:	2551
Casing Diameter:	<u>4</u> inches	Address:	15101 Freedom Avenue
Depth of Well:	<u>31.32</u> feet		San Leandro, CA
Top of Casing Elevation:	<u>50.53</u> feet	Date:	October 23, 2007
Depth to Groundwater:	<u>19.98</u> feet	Sampler:	Lizzie Hightower
Groundwater Elevation:	<u>30.55</u> feet		Eric Gassner-Wollwage
Water Column Height:	<u>11.34</u> feet		
Purged Volume:	<u>14</u> gallons		

Purging Method:      Bailer                          Pump   

Sampling Method:      Bailer                          Pump   

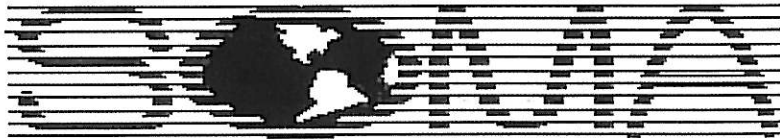
Color:                      Yes                       No                       Describe: Slightly Cloudy

Sheen:                      Yes                       No                       Describe: \_\_\_\_\_

Odor:                      Yes                       No                       Describe: Slight petro odor

Field Measurements:

Time	Vol (gallons)	pH	Temp (°C)	E.C. (µs/cm)
1529	Started pumping well			
1531	2	7.24	23.6	1001
1535	6	7.06	22.9	988
1539	10	7.05	23	986
1543	14	7.07	23.3	988
1546	sampled			



ENVIRONMENTAL ENGINEERING, INC

Well No.:	<u>MW-6</u>	Project No.:	2551
Casing Diameter:	<u>4</u> inches	Address:	15101 Freedom Avenue
Depth of Well:	<u>28.28</u> feet		San Leandro, CA
Top of Casing Elevation:	<u>45.82</u> feet	Date:	October 23, 2007
Depth to Groundwater:	<u>16.91</u> feet	Sampler:	Lizzie Hightower
Groundwater Elevation:	<u>28.91</u> feet		Eric Gassner-Wollwage
Water Column Height:	<u>11.37</u> feet		
Purged Volume:	<u>14</u> gallons		

Purging Method:      Bailer                          Pump   

Sampling Method:      Bailer                          Pump   

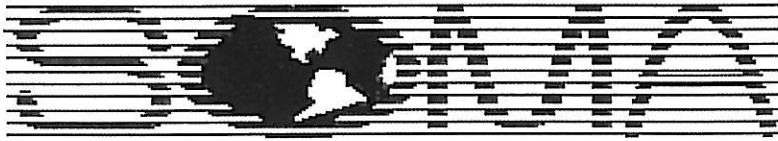
Color:                      Yes                  No                  Describe: \_\_\_\_\_

Sheen:                      Yes                  No                  Describe: \_\_\_\_\_

Odor:                      Yes                  No                  Describe: slight petro odor

Field Measurements:

Time	Vol (gallons)	pH	Temp (°C)	E.C. (µs/cm)
1154	started purging well			
1156	2	7.36	20.4	945
1200	6	7.29	24	921
1204	10	7.30	23.9	929
1208	14	7.32	23.8	922
1211	sampled			



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-7 Project No.: 2551  
 Casing Diameter: 2 inches Address: 15101 Freedom Avenue  
 Depth of Well: 21.01 feet San Leandro, CA  
 Top of Casing Elevation: 44.74 feet Date: October 23, 2007  
 Depth to Groundwater: 14.88 feet Sampler: Lizzie Hightower  
 Groundwater Elevation: 29.86 feet Eric Gassner-Wollwage  
 Water Column Height: 6.13 feet  
 Purged Volume: 8 gallons

Purging Method: Bailer  Pump   
 Sampling Method: Bailer  Pump

Color: Yes  No  Describe: Cloudy  
 Sheen: Yes  No  Describe: Very Slight  
 Odor: Yes  No  Describe: Sulfur

Field Measurements:

Time	Vol (gallons)	pH	Temp (°C)	E.C. (µs/cm)
1221	Started	purging	well	
1222	1	7.34	21.7	1113
1224	3	7.08	20.9	1078
1227	6	7.04	20.7	1077
1229	8	7.02	20.6	1069
1232	Sampled			





ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-8  
 Casing Diameter: 2 inches  
 Depth of Well: 28.74 feet  
 Top of Casing Elevation: 46.14 feet  
 Depth to Groundwater: 12.37 feet  
 Groundwater Elevation: 28.77 feet  
 Water Column Height: 16.37 feet  
 Purged Volume: 12 gallons

Project No.: 2551  
 Address: 15101 Freedom Avenue  
 San Leandro, CA  
 Date: October 23, 2007  
 Sampler: Lizzie Hightower  
 Eric Gassner-Wollwage

Purging Method: Bailer  Pump

Sampling Method: Bailer  Pump

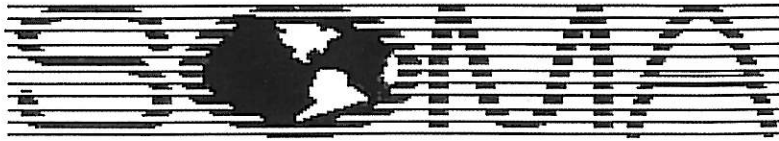
Color: Yes  No  Describe: Muddy

Sheen: Yes  No  Describe: \_\_\_\_\_

Odor: Yes  No  Describe: \_\_\_\_\_

Field Measurements:

Time	Vol (gallons)	pH	Temp (°C)	E.C. (µs/cm)
1050 AM	Started purging well			
1052 AM	2	7.30	20.9	1143
1055	5	7.32	20.5	1149
1058	8	7.42	20.7	1169
1100	10	7.46	20.7	1153
1102	12	7.48	20.8	1160
1105	sampled			



ENVIRONMENTAL ENGINEERING, INC

Well No.:	<u>MW-9</u>	Project No.:	2551
Casing Diameter:	<u>2</u> inches	Address:	15101 Freedom Avenue
Depth of Well:	<u>33.15</u> feet		San Leandro, CA
Top of Casing Elevation:	<u>40.26</u> feet	Date:	October 23, 2007
Depth to Groundwater:	<u>11.59</u> feet	Sampler:	Lizzie Hightower
Groundwater Elevation:	<u>28.67</u> feet		Eric Gassner-Wollwage
Water Column Height:	<u>21.56</u> feet		
Purged Volume:	<u>16</u> gallons		

Purging Method:	Bailer	<input type="checkbox"/>	Pump	<input checked="" type="checkbox"/>	
Sampling Method:	Bailer	<input checked="" type="checkbox"/>	Pump	<input type="checkbox"/>	
Color:	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Describe: _____
Sheen:	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Describe: _____
Odor:	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Describe: _____

Field Measurements:

Time	Vol (gallons)	pH	Temp (°C)	E.C. (µs/cm)
1119 AM	Started pumping well			
1121	2	7.77	20.9	1036
1124	5	7.62	20.9	1014
1128	9	7.69	20.4	977
1132	13	7.68	20.4	965
1135	16	7.64	20.4	972
1138	Sampled			

# Appendix C

Laboratory Report and Chain of Custody Form  
for the  
Fourth Quarter 2007 Monitoring Event

# CHAIN OF CUSTODY FORM

**PAL** Pacific Analytical Laboratory  
 851 West Midway Ave., Suite 201B  
 Alameda, CA 94501  
 510-864-0364 Telephone  
 510-864-0365 Fax

PAL  
 Login# 7100009

Project No: 2551				Sampler: <i>Lizzie Hightower / Eric Gasner - Wollnagel</i> <i>John Lotman / Eric Jennings</i>						Analyses/Method								
Project Name: 15101 Freedom Avenue San Leandro				Report To: <i>Tony Perini</i> <i>Joyce Bobek</i>						TPH-g, BTEX, MIBE Gasoline Oxygenates & Lead Scavengers								
Turnaround Time: Standard				Company: SOMA Environmental Engineering, Inc.														
				Tel: 925-244-6600 Fax: 925-244-6601														
		Sampling Date/Time		Matrix			# of Containers	Preservatives				Field Notes						
Lab No.	Sample ID	Date	Time	Soil	Water	Waste		HCL	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	ICE							
	MW-1	<del>5/9/06</del> 10/23/07	1417		X		3 VOAs	X			X	Grab Sample						
	MW-2	5/9/06	1340		X		3 VOAs	X			X	Grab Sample						
	MW-3	5/9/06	1444		X		3 VOAs	X			X	Grab Sample						
	MW-4	5/9/06	1518		X		3 VOAs	X			X	Grab Sample						
	MW-5	5/9/06	1546		X		3 VOAs	X			X	Grab Sample						
	MW-6	5/9/06	1211		X		3 VOAs	X			X	Grab Sample						
	MW-7	5/9/06	1232		X		3 VOAs	X			X	Grab Sample						
	MW-8	5/9/06	1105		X		3 VOAs	X			X	Grab Sample						
	MW-9	5/9/06	1138		X		3 VOAs	X			X	Grab Sample						
Sampler Remarks:							Relinquished by:		Date/Time:		Received by:			Date/Time:				
EDF REQUIRED Ethanol							<i>E. Light</i>		10/23/07 4:44pm		<i>V. Vanquez</i>			10/23/07 4:45p.				

12 November 2007

Mansour Sepehr  
SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton, CA 94588

RE: 15101 Freedom Ave., San Leandro

Work Order Number: 7100009

This Laboratory report has been reviewed for technical correctness and completeness. This entire report was reviewed and approved by the Laboratory Director or the Director's designee, as verified by the following signature.

Sincerely,



---

Maiid Akhavan  
Laboratory Director



SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 15101 Freedom Ave., San Leandro  
Project Number: 2551  
Project Manager: Mansour Sepehr

**Reported:**  
12-Nov-07 19:36

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	7100009-01	Water	23-Oct-07 14:17	23-Oct-07 16:45
MW-2	7100009-02	Water	23-Oct-07 13:40	23-Oct-07 16:45
MW-3	7100009-03	Water	23-Oct-07 14:44	23-Oct-07 16:45
MW-4	7100009-04	Water	23-Oct-07 15:18	23-Oct-07 16:45
MW-5	7100009-05	Water	23-Oct-07 15:46	23-Oct-07 16:45
MW-6	7100009-06	Water	23-Oct-07 12:11	23-Oct-07 16:45
MW-7	7100009-07	Water	23-Oct-07 12:32	23-Oct-07 16:45
MW-8	7100009-08	Water	23-Oct-07 11:05	23-Oct-07 16:45
MW-9	7100009-09	Water	23-Oct-07 11:38	23-Oct-07 16:45



SOMA Environmental Engineering Inc.  
 6620 Owens Drive, Suite A  
 Pleasanton CA, 94588

Project: 15101 Freedom Ave., San Leandro  
 Project Number: 2551  
 Project Manager: Mansour Sepehr

**Reported:**  
 12-Nov-07 19:36

**Volatile Organic Compounds by EPA Method 8260B**  
**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (710009-01RE1) Water</b> <b>Sampled: 23-Oct-07 14:17</b> <b>Received: 23-Oct-07 16:45</b>									
<b>Gasoline (C6-C12)</b>	<b>3900</b>	50.0	ug/l	1	BJ72902	23-Oct-07	24-Oct-07	EPA 8260B	
<b>Benzene</b>	<b>117</b>	0.500	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>87.1</b>	0.500	"	"	"	"	"	"	
<b>m&amp;p-Xylene</b>	<b>21.2</b>	2.00	"	"	"	"	"	"	
<b>o-xylene</b>	<b>2.67</b>	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
<b>MTBE</b>	<b>4.54</b>	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
<b>TBA</b>	<b>53.7</b>	2.00	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %	70-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		105 %	70-130		"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		103 %	70-130		"	"	"	"	
<b>MW-2 (710009-02) Water</b> <b>Sampled: 23-Oct-07 13:40</b> <b>Received: 23-Oct-07 16:45</b>									
<b>Gasoline (C6-C12)</b>	<b>535</b>	50.0	ug/l	1	BJ72902	23-Oct-07	23-Oct-07	EPA 8260B	
<b>Benzene</b>	<b>ND</b>	0.500	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>18.0</b>	0.500	"	"	"	"	"	"	
<b>m&amp;p-Xylene</b>	<b>2.79</b>	2.00	"	"	"	"	"	"	
<b>o-xylene</b>	<b>2.32</b>	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
TBA	ND	2.00	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	70-130		"	"	"	"	

Pacific Analytical Laboratory

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 15101 Freedom Ave., San Leandro  
Project Number: 2551  
Project Manager: Mansour Sepehr

Reported:  
12-Nov-07 19:36

**Volatile Organic Compounds by EPA Method 8260B**

**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-2 (710009-02) Water</b> Sampled: 23-Oct-07 13:40 Received: 23-Oct-07 16:45									
Surrogate: Dibromofluoromethane		131 %	70-130		BJ72902	23-Oct-07	23-Oct-07	EPA 8260B	S-GC
Surrogate: Perdeuterotoluene		93.2 %	70-130		"	"	"	"	
<b>MW-3 (710009-03) Water</b> Sampled: 23-Oct-07 14:44 Received: 23-Oct-07 16:45									
<b>Gasoline (C6-C12)</b>	<b>22600</b>	2150	ug/l	43	BJ72902	23-Oct-07	24-Oct-07	EPA 8260B	
<b>Benzene</b>	<b>4070</b>	21.5	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1120</b>	21.5	"	"	"	"	"	"	
<b>m&amp;p-Xylene</b>	<b>2170</b>	86.0	"	"	"	"	"	"	
<b>o-xylene</b>	<b>925</b>	21.5	"	"	"	"	"	"	
Toluene	ND	86.0	"	"	"	"	"	"	
<b>MTBE</b>	<b>970</b>	21.5	"	"	"	"	"	"	
DIPE	ND	21.5	"	"	"	"	"	"	
ETBE	ND	21.5	"	"	"	"	"	"	
<b>TAME</b>	<b>301</b>	86.0	"	"	"	"	"	"	
<b>TBA</b>	<b>1050</b>	86.0	"	"	"	"	"	"	
1,2-dichloroethane	ND	21.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	21.5	"	"	"	"	"	"	
Ethanol	ND	43000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.6 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		110 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		90.4 %	70-130		"	"	"	"	
<b>MW-4 (710009-04) Water</b> Sampled: 23-Oct-07 15:18 Received: 23-Oct-07 16:45									
<b>Gasoline (C6-C12)</b>	<b>4200</b>	215	ug/l	4.3	BJ72902	23-Oct-07	24-Oct-07	EPA 8260B	
<b>Benzene</b>	<b>267</b>	2.15	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>147</b>	2.15	"	"	"	"	"	"	
<b>m&amp;p-Xylene</b>	<b>137</b>	8.60	"	"	"	"	"	"	
<b>o-xylene</b>	<b>18.5</b>	2.15	"	"	"	"	"	"	
Toluene	ND	8.60	"	"	"	"	"	"	
<b>MTBE</b>	<b>1220</b>	2.15	"	"	"	"	"	"	
DIPE	ND	2.15	"	"	"	"	"	"	
<b>ETBE</b>	<b>18.4</b>	2.15	"	"	"	"	"	"	
<b>TAME</b>	<b>25.9</b>	8.60	"	"	"	"	"	"	
<b>TBA</b>	<b>3400</b>	8.60	"	"	"	"	"	"	
1,2-dichloroethane	ND	2.15	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.15	"	"	"	"	"	"	
Ethanol	ND	4300	"	"	"	"	"	"	

Pacific Analytical Laboratory

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SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 15101 Freedom Ave., San Leandro  
Project Number: 2551  
Project Manager: Mansour Sepehr

Reported:  
12-Nov-07 19:36

### Volatile Organic Compounds by EPA Method 8260B

#### Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-4 (710009-04) Water</b> Sampled: 23-Oct-07 15:18 Received: 23-Oct-07 16:45									
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	70-130		BJ72902	23-Oct-07	24-Oct-07	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		117 %	70-130		"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		90.8 %	70-130		"	"	"	"	
<b>MW-5 (710009-05) Water</b> Sampled: 23-Oct-07 15:46 Received: 23-Oct-07 16:45									
<b>Gasoline (C6-C12)</b>	<b>6120</b>	215	ug/l	4.3	BJ72902	23-Oct-07	24-Oct-07	EPA 8260B	
<b>Benzene</b>	<b>550</b>	2.15	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>284</b>	2.15	"	"	"	"	"	"	
<b>m&amp;p-Xylene</b>	<b>120</b>	8.60	"	"	"	"	"	"	
<b>o-xylene</b>	<b>21.4</b>	2.15	"	"	"	"	"	"	
<b>Toluene</b>	<b>11.0</b>	8.60	"	"	"	"	"	"	
<b>MTBE</b>	<b>433</b>	2.15	"	"	"	"	"	"	
DIPE	ND	2.15	"	"	"	"	"	"	
ETBE	ND	2.15	"	"	"	"	"	"	
<b>TAME</b>	<b>181</b>	8.60	"	"	"	"	"	"	
<b>TBA</b>	<b>1510</b>	8.60	"	"	"	"	"	"	
1,2-dichloroethane	ND	2.15	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.15	"	"	"	"	"	"	
Ethanol	ND	4300	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %	70-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		118 %	70-130		"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		95.6 %	70-130		"	"	"	"	
<b>MW-6 (710009-06) Water</b> Sampled: 23-Oct-07 12:11 Received: 23-Oct-07 16:45									
<b>Gasoline (C6-C12)</b>	<b>9610</b>	50.0	ug/l	1	BJ72902	23-Oct-07	24-Oct-07	EPA 8260B	
<b>Benzene</b>	<b>64.3</b>	0.500	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>188</b>	0.500	"	"	"	"	"	"	
<b>m&amp;p-Xylene</b>	<b>282</b>	2.00	"	"	"	"	"	"	
<b>o-xylene</b>	<b>20.6</b>	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
<b>MTBE</b>	<b>5.81</b>	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
<b>TBA</b>	<b>6.68</b>	2.00	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"	"	"	

Pacific Analytical Laboratory

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SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 15101 Freedom Ave., San Leandro  
Project Number: 2551  
Project Manager: Mansour Sepehr

**Reported:**  
12-Nov-07 19:36

### Volatile Organic Compounds by EPA Method 8260B

#### Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-6 (710009-06) Water</b> Sampled: 23-Oct-07 12:11 Received: 23-Oct-07 16:45									
Ethanol	ND	1000	ug/l	1	BJ72902	23-Oct-07	24-Oct-07	EPA 8260B	
<i>Surrogate: 4-Bromofluorobenzene</i>		120 %	70-130	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		111 %	70-130	"	"	"	"	"	"
<i>Surrogate: Perdeuterotoluene</i>		108 %	70-130	"	"	"	"	"	"
<b>MW-7 (710009-07) Water</b> Sampled: 23-Oct-07 12:32 Received: 23-Oct-07 16:45									
<b>Gasoline (C6-C12)</b>	<b>1730</b>	50.0	ug/l	1	BJ72902	23-Oct-07	24-Oct-07	EPA 8260B	
<b>Benzene</b>	<b>0.670</b>	0.500	"	"	"	"	"	"	"
<b>Ethylbenzene</b>	<b>20.7</b>	0.500	"	"	"	"	"	"	"
<b>m&amp;p-Xylene</b>	<b>14.8</b>	2.00	"	"	"	"	"	"	"
<b>o-xylene</b>	<b>2.51</b>	0.500	"	"	"	"	"	"	"
Toluene	ND	2.00	"	"	"	"	"	"	"
<b>MTBE</b>	<b>8.44</b>	0.500	"	"	"	"	"	"	"
DIPE	ND	0.500	"	"	"	"	"	"	"
ETBE	ND	0.500	"	"	"	"	"	"	"
<b>TAME</b>	<b>2.58</b>	2.00	"	"	"	"	"	"	"
<b>TBA</b>	<b>6.49</b>	2.00	"	"	"	"	"	"	"
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"	"	"	"
Ethanol	ND	1000	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		113 %	70-130	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		111 %	70-130	"	"	"	"	"	"
<i>Surrogate: Perdeuterotoluene</i>		109 %	70-130	"	"	"	"	"	"
<b>MW-8 (710009-08) Water</b> Sampled: 23-Oct-07 11:05 Received: 23-Oct-07 16:45									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BJ72902	23-Oct-07	24-Oct-07	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	"
<b>Ethylbenzene</b>	<b>4.31</b>	0.500	"	"	"	"	"	"	"
m&p-Xylene	ND	2.00	"	"	"	"	"	"	"
o-xylene	ND	0.500	"	"	"	"	"	"	"
Toluene	ND	2.00	"	"	"	"	"	"	"
MTBE	ND	0.500	"	"	"	"	"	"	"
DIPE	ND	0.500	"	"	"	"	"	"	"
ETBE	ND	0.500	"	"	"	"	"	"	"
TAME	ND	2.00	"	"	"	"	"	"	"
TBA	ND	2.00	"	"	"	"	"	"	"
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	"

Pacific Analytical Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 15101 Freedom Ave., San Leandro  
Project Number: 2551  
Project Manager: Mansour Sepehr

**Reported:**  
12-Nov-07 19:36

**Volatile Organic Compounds by EPA Method 8260B**

**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-8 (710009-08) Water Sampled: 23-Oct-07 11:05 Received: 23-Oct-07 16:45</b>									
1,2-Dibromoethane (EDB)	ND	0.500	ug/l	1	BJ72902	23-Oct-07	24-Oct-07	EPA 8260B	
Ethanol	ND	1000	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		91.8 %	70-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		114 %	70-130		"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		90.4 %	70-130		"	"	"	"	
<b>MW-9 (710009-09) Water Sampled: 23-Oct-07 11:38 Received: 23-Oct-07 16:45</b>									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BJ72902	23-Oct-07	24-Oct-07	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	2.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
TBA	ND	2.00	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		89.0 %	70-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		120 %	70-130		"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		85.6 %	70-130		"	"	"	"	



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**Reported:**  
12-Nov-07 19:36

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch BJ72902 - EPA 5030 Water MS**

**Blank (BJ72902-BLK1)**

Prepared & Analyzed: 29-Oct-07

Surrogate: 4-Bromofluorobenzene	40.5		ug/l	50.0		81.0	70-130			
Surrogate: Dibromofluoromethane	59.3		"	50.0		119	70-130			
Surrogate: Perdeuterotoluene	44.5		"	50.0		89.0	70-130			
MTBE	ND	0.500	"							
DIPE	ND	0.500	"							
ETBE	ND	0.500	"							
TAME	ND	2.00	"							
Gasoline (C6-C12)	ND	50.0	"							
TBA	ND	2.00	"							
1,2-dichloroethane	ND	0.500	"							
1,2-Dibromoethane (EDB)	ND	0.500	"							
Ethanol	ND	1000	"							
Benzene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
m&p-Xylene	ND	2.00	"							
o-xylene	ND	0.500	"							
Toluene	ND	2.00	"							

**LCS (BJ72902-BS1)**

Prepared & Analyzed: 29-Oct-07

Surrogate: 4-Bromofluorobenzene	50.5		ug/l	50.0		101	70-130			
Surrogate: Dibromofluoromethane	51.8		"	50.0		104	70-130			
Surrogate: Perdeuterotoluene	48.4		"	50.0		96.8	70-130			
MTBE	101	0.500	"	100		101	70-130			
ETBE	94.5	0.500	"	100		94.5	70-130			
TAME	101	2.00	"	100		101	70-130			
Gasoline (C6-C12)	2020	50.0	"	2000		101	70-130			
TBA	575	2.00	"	500		115	70-130			
Benzene	98.2	0.500	"	100		98.2	70-130			
Toluene	96.9	2.00	"	100		96.9	70-130			



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**Reported:**  
 12-Nov-07 19:36

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch BJ72902 - EPA 5030 Water MS**

**LCS Dup (BJ72902-BSD1)**

Prepared & Analyzed: 29-Oct-07

Surrogate: 4-Bromofluorobenzene	49.7		ug/l	50.0		99.4	70-130			
Surrogate: Dibromofluoromethane	48.6		"	50.0		97.2	70-130			
Surrogate: Perdeuterotoluene	51.2		"	50.0		102	70-130			
MTBE	103	0.500	"	100		103	70-130	1.96	20	
ETBE	101	0.500	"	100		101	70-130	6.65	20	
TAME	95.1	2.00	"	100		95.1	70-130	6.02	20	
TBA	551	2.00	"	500		110	70-130	4.26	20	
Gasoline (C6-C12)	2040	50.0	"	2000		102	70-130	0.985	20	
Benzene	96.5	0.500	"	100		96.5	70-130	1.75	20	
Toluene	98.1	2.00	"	100		98.1	70-130	1.23	20	



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**Reported:**  
12-Nov-07 19:36

### Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

DET Analyte DETECTED

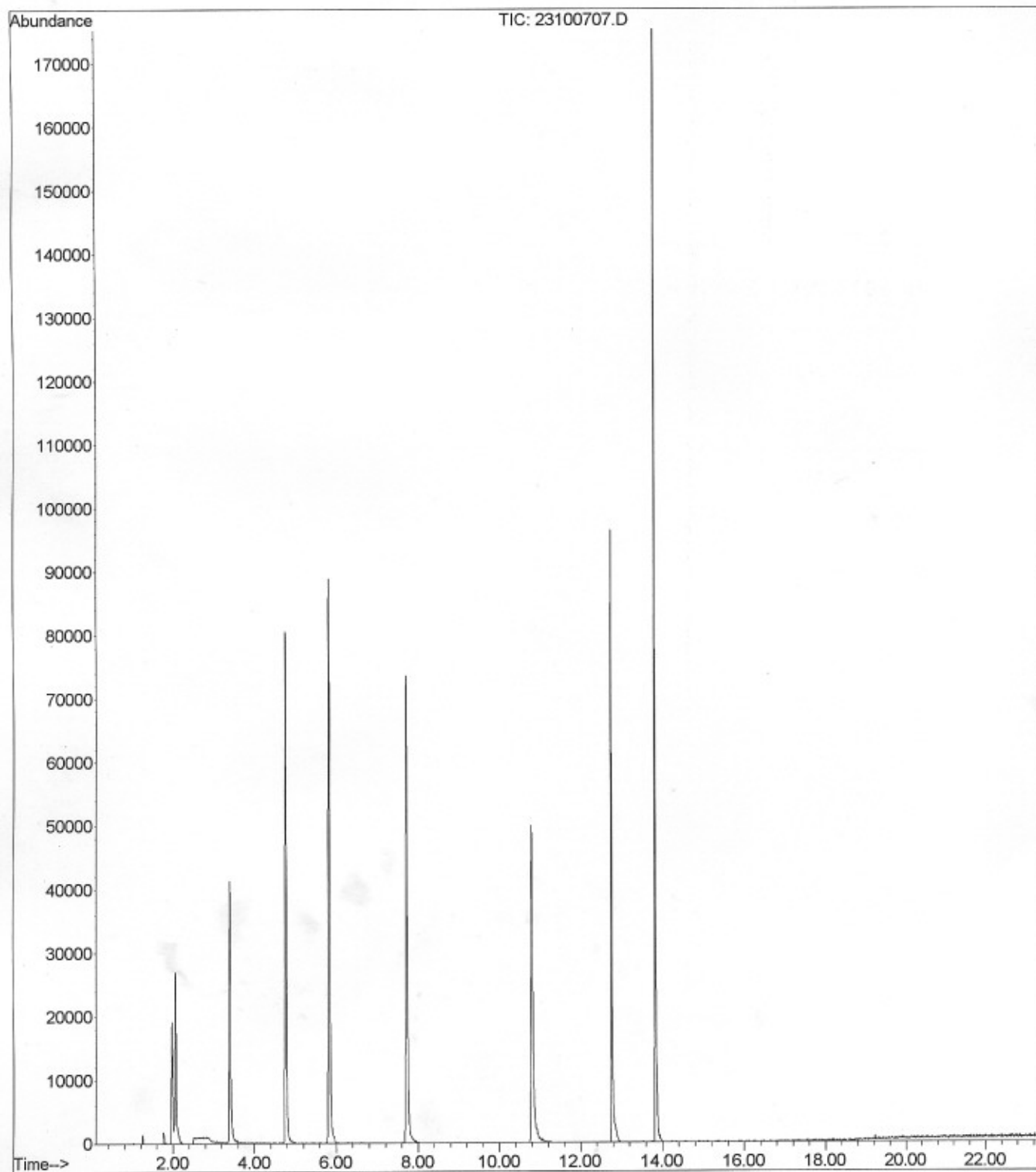
ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

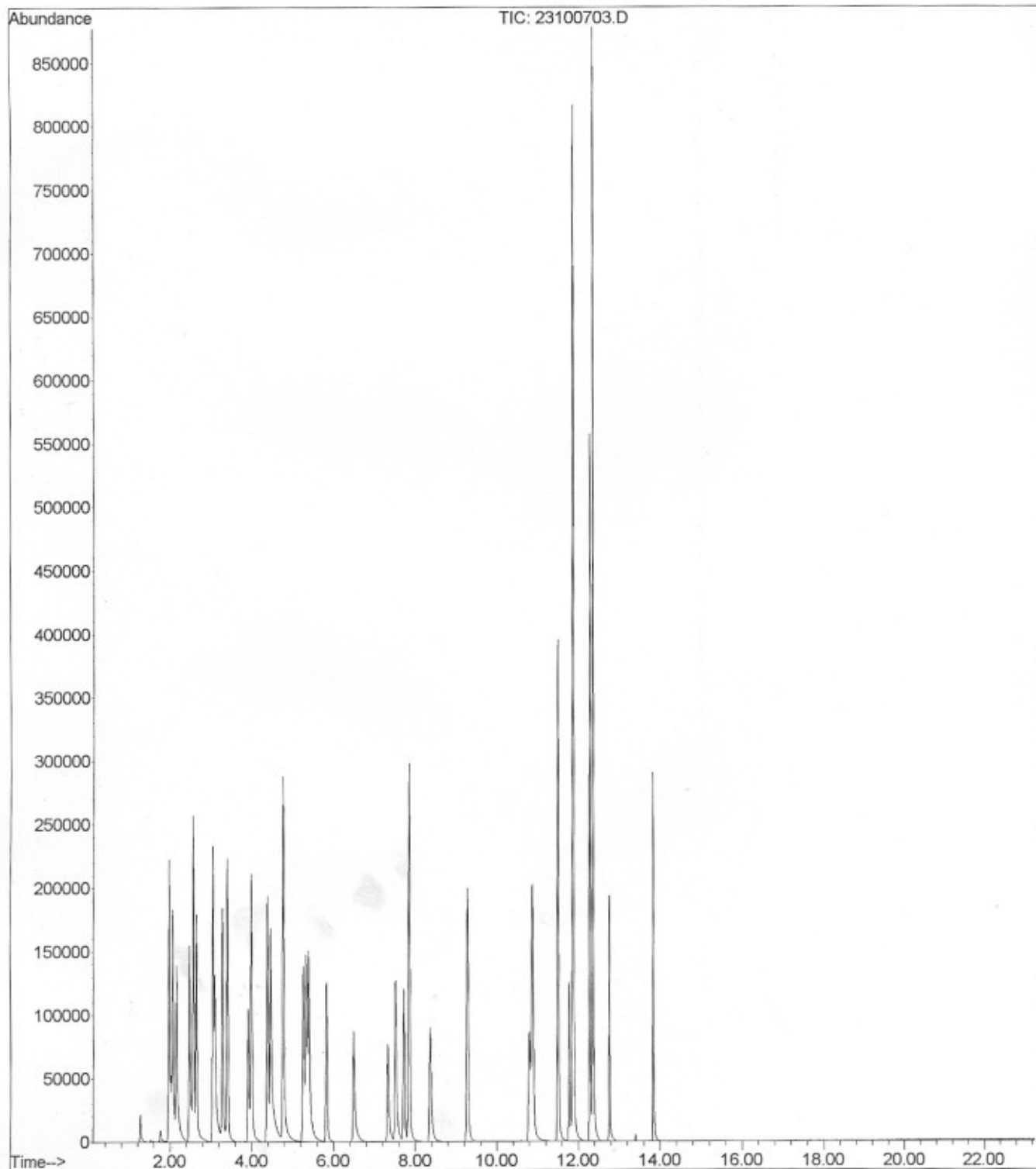
dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

File :C:\MSDChem\1\DATA\2007-Oct-23-1838.b\23100707.D  
Operator : dh  
Acquired : 23 Oct 2007 10:02 pm using AcqMethod OXY21506.M  
Instrument : PAL GCMS  
Sample Name: BJ72902-BLK1  
Misc Info :  
Vial Number: 7



File :C:\MSDChem\1\DATA\2007-Oct-23-1838.b\23100703.D  
Operator : dh  
Acquired : 23 Oct 2007 7:55 pm using AcqMethod OXY21506.M  
Instrument : PAL GCMS  
Sample Name: BJ72902-BS1@voc  
Misc Info :  
Vial Number: 3





File :C:\MSDCHEM\1\DATA\2007-Oct-23-1838.b\23100704.D  
Operator : dh  
Acquired : 23 Oct 2007 8:27 pm using AcqMethod OXY21506.M  
Instrument : PAL GCMS  
Sample Name: BJ72902-BS1@gas  
Misc Info :  
Vial Number: 4

