RECEIVED

By lopprojectop at 9:00 am, Mar 20, 2006



TEL (925) 734-6400 • FAX (925) 734-6401

March 17, 2006

Mr. Don Hwang 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. Hwang:

SOMA's "First Quarter 2006 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 he sitate to call me at (925) 734-6400, if you have questions or comments.

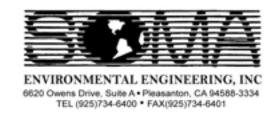
Sincerely,

Mansour Sepehr, Ph.D., PE Principal Hydrogeologist

cc: Mr. Mohammad Pazdel w/report enclosure

RECEIVED

By lopprojectop at 9:01 am, Mar 20, 2006



FIRST QUARTER 2006 GROUNDWATER MONITORING REPORT TEXACO GASOLINE SERVICE STATION 15101 FREEDOM AVENUE SAN LEANDRO, CALIFORNIA

March 17, 2006

Project 2551

Prepared for

Mr. Mohammad Pazdel 1770 Pistacia Court Fairfield, California

Prepared by

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

Certification

This report has been prepared by SOMA Environmental Engineering, Inc. on behalf of Mr. Mohammad Pazdel, the property owner of 15101 Freedom Avenue, San Leandro, California, to comply with the Alameda County Health Care Services' requirements for the First Quarter 2006 groundwater monitoring event.

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



TABLE OF CONTENTS

CERTIFICATION	II
TABLE OF CONTENTS	III
LIST OF FIGURES	IV
LIST OF TABLES	IV
LIST OF APPENDICES	IV
1.0 INTRODUCTION	1
1.1 Previous Activities	1
2.0 RESULTS	2
2.1 FIELD MEASUREMENTS	
3.0 CONCLUSION AND RECOMMENDATIONS	4
4.0 REPORT LIMITATIONS	5

List of Figures

Figure 1: Site vicinity map.

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

soil borings.

Figure 3: Groundwater elevation contour map in feet. February 2006.

Figure 4: Contour map of TPH-g concentrations in groundwater.

February 2006.

Figure 5: Contour map of Benzene concentrations in groundwater.

February 2006.

Figure 6: Contour map of MtBE concentrations in groundwater

(EPA Method 8260B). February 2006.

Figure 7: Contour map of TBA concentrations in groundwater.

February 2006.

Figure 8: Contour map of TAME concentrations in groundwater.

February 2006.

List of Tables

Table 1: Historical Groundwater Elevation Data and Analytical Results

Table 2: Historical Gasoline Oxygenates Results

List of Appendices

Appendix A: SOMA's Groundwater Monitoring Procedures

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

Appendix C: Laboratory Report and Chain of Custody Form for the First

Quarter 2006 Monitoring Event

1.0 INTRODUCTION

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

This report summarizes the results of the First Quarter 2006 groundwater monitoring event conducted at the Site on February 9, 2006. Included in this report are the physical and chemical properties measured in the field for each groundwater sample. The physical and chemical properties consisted of measurements of pH, temperature, and electrical conductivity (EC). This report also includes the laboratory analytical results on the groundwater samples.

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

1.1 Previous Activities

On May 20, 1999, three 10,000-gallon single-walled USTs were removed and replaced with new double-walled fuel tanks. On 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 tank cavity.

In July 2001, additional soil and groundwater investigations were conducted to further 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, total xylenes (BTEX) in the soil samples collected between 19 and 25.5 feet below ground surface (bgs) were 470, 2.6, 16, 12, and 73 mg/Kg, respectively. Methyl tertiary Butyl Ether (MtBE) was below the laboratory reporting limit of 0.005 mg/Kg in all the soil samples collected. The maximum concentrations of TPH-g and BTEX in the groundwater samples collected from the soil borings were 83, 19, 1.8, 1.5, and 73 mg/L, respectively. The maximum reported MtBE concentration was 87 mg/L in soil boring SB-2. The soil boring locations are shown in Figure 2.

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

On July 22, 2003, an additional off-site investigation was conducted by SOMA to evaluate the lateral extent of the soil and groundwater contamination. The off-site investigation included a sensitive receptor survey to locate water supply wells and/or water bodies within a 2,000-foot radius of the Site. In September 2003, six temporary well boreholes were advanced to depths of at least 40 feet bgs. Figure 2 shows the locations of the temporary well boreholes.

In September 2004, SOMA installed four off-site wells (MW-6 to MW-9). Figure 2 shows the locations of the off-site monitoring wells.

2.0 RESULTS

The following sections provide the results of the field measurements and laboratory analyses for the February 9, 2006 groundwater monitoring event. Well MW-7 was inaccessible during this monitoring event; a car was parked over the well.

2.1 Field Measurements

Table 1 presents the calculated groundwater elevations, as well as the depths to groundwater for each monitoring well. Depths to groundwater ranged from 9.74 feet in well MW-8 to 21.81 feet in well MW-1. The corresponding groundwater elevations ranged from 30.21 feet in well MW-9 to 33.00 feet in both wells MW-2 and MW-4.

Figure 3 displays the contour map of groundwater elevations. The groundwater flow direction is south to southwesterly across the Site, at a gradient of 0.007 feet/feet.

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

2.2 Laboratory Analysis

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

TPH-g concentrations were below the laboratory reporting limit in both off-site wells MW-8 and MW-9. Detectable TPH-g concentrations ranged from 775 ug/L in well MW-1 to 44,500 ug/L in well MW-3. The TPH-g concentration in well MW-3 was several orders of magnitude higher than the remaining site wells. Figure 4 displays a contour map of TPH-g concentrations in the groundwater. As illustrated in Figure 4, the most impacted TPH-g region was in the vicinity of the dispenser islands and former USTs, around well MW-3.

In wells MW-1, MW-4, MW-5, and MW-6, toluene was below the laboratory reporting limit. In well MW-2, both benzene and toluene were below the laboratory reporting limit. In wells MW-8 and MW-9, all BTEX analytes were below the laboratory reporting limit. The most impacted BTEX sample was collected from well MW-3. BTEX concentrations in well MW-3 were detected at 5,070 ug/L, 1,360 ug/L, 1,920 ug/L, and 4,840 ug/L, respectively.

Figure 5 displays a contour map of benzene concentrations in the groundwater. The most impacted benzene region was in the vicinity of the dispenser islands and former USTs, around well MW-3. The benzene concentration detected in well MW-3 was several orders of magnitude higher than the remaining site wells.

MtBE, using EPA Method 8260B, was below the laboratory reporting limit in the samples collected from wells MW-8 and MW-9. Detectable MtBE concentrations ranged from 0.72 ug/L in well MW-2 to 5,120 ug/L in well MW-4. However, high MtBE concentrations were also detected in wells MW-3 and MW-5.

Figure 6 displays the contour map of MtBE concentrations in the groundwater. The most impacted MtBE region was in the vicinity of the dispenser islands, around well MW-4. This can be attributed to the high mobility rate of MtBE and the southerly groundwater flow direction from the former USTs and product lines. MtBE was either at low levels or below the laboratory reporting limit in the sampled off-site wells, as well as MW-1 and MW-2.

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

All Isopropyl Ether (DIPE), 1,2-Dibromoethane (EDB), Ethanol, and Ethyl tertiary Butyl Ether (EtBE) constituents, with the exception of EtBE in well MW-4 (at 16.4 ug/L), were below the laboratory reporting limit in all of the groundwater samples collected during this monitoring event. 1,2-Dichloroethane (1,2-DCA) was below the laboratory reporting limit throughout the Site, with the exception of wells MW-1 and MW-9. 1,2-DCA was detected in well MW-1 at 0.59 ug/L and in well MW-9 at 1.93 ug/L. The analytical results for 1,2-DCA, ethanol, and EDB constituents are shown in the laboratory report in Appendix C.

Tert-Butyl-Alcohol (TBA) was below the laboratory reporting limit in wells MW-2, MW-3, MW-6, MW-8, and MW-9. The highest TBA concentration was detected in well MW-4 at 769 ug/L. Figure 7 displays the contour map of TBA concentrations in the groundwater. Similar to MtBE, the most impacted TBA region is in the vicinity of the dispenser islands, around well MW-4. This can be attributed to the high mobility rate of TBA and the southerly groundwater flow direction from the former USTs and product lines. The TBA plume appears to be centrally located around well MW-4.

Methyl tert-Amyl Ether (TAME) was detected in wells MW-3 to MW-5 and was below the laboratory reporting limit in the remaining site wells. Figure 8 displays the contour map of TAME concentrations in the groundwater.

Appendix C includes the laboratory report and COC form for the First Quarter 2006 monitoring event.

Refer to Tables 1 and 2 for further detailed historical concentration trends.

3.0 CONCLUSION AND RECOMMENDATIONS

The results of the First Quarter 2006 groundwater monitoring event can be summarized as follows:

- The groundwater flow direction has remained in a south to southwesterly direction throughout the Site; however, the groundwater gradient has slightly increased.
- The hydrocarbon source area still 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 evident by the higher MtBE and TBA concentrations in well MW-4.
- Based on the quarterly groundwater monitoring results, the majority of the more soluble compounds, which include MtBE, gasoline oxygenates, and lead scavengers, has been limited to the region of the former UST cavity and dispenser islands, around wells MW-3 to MW-5.
- However, a high TPH-g concentration was detected in off-site well MW-6. Since the previous monitoring event, TPH-g has significantly decreased in well MW-6. This denotes that the Site's hydrocarbon source has affected the immediate off-site regions, however, the TPH-g plume may be decreasing.

Based on the results of this monitoring event, SOMA recommends continuing the quarterly monitoring programs to better understand the seasonal variations in the groundwater quality conditions.

In a letter dated November 21, 2005, the ACHCS requested a workplan to:

- Effectively remediate the source area, especially in the vicinity of the UST cavity, by initiating interim onsite groundwater remediation; and
- Conduct an additional site investigation to determine if the dissolved contaminant plume may have migrated to nearby residential areas.

On December 28, 2005, SOMA submitted a workplan to the ACHCS and is still waiting for approval.

4.0 REPORT LIMITATIONS

This report is the summary of work done by SOMA, including observations and descriptions of the Site's conditions. It includes the analytical results produced by Pacific Analytical Laboratory for the current groundwater monitoring event. The number and location of the wells were selected to provide the required information, but may not be completely representative of the entire site's conditions. All conclusions and recommendations are based on the results of the laboratory analysis. Conclusions beyond those specifically stated in this document should not be inferred from this report.

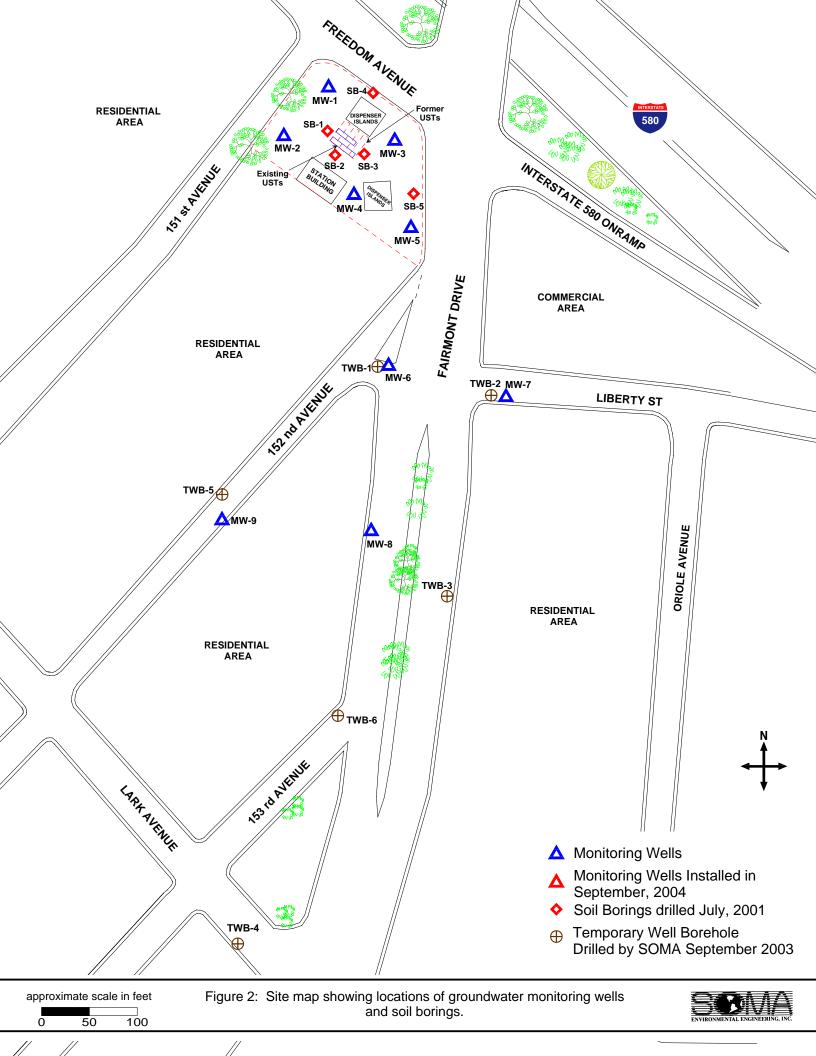
SOMA warrants that the services provided were done in accordance with the generally accepted practices in the environmental engineering and consulting field at the time of this sampling.

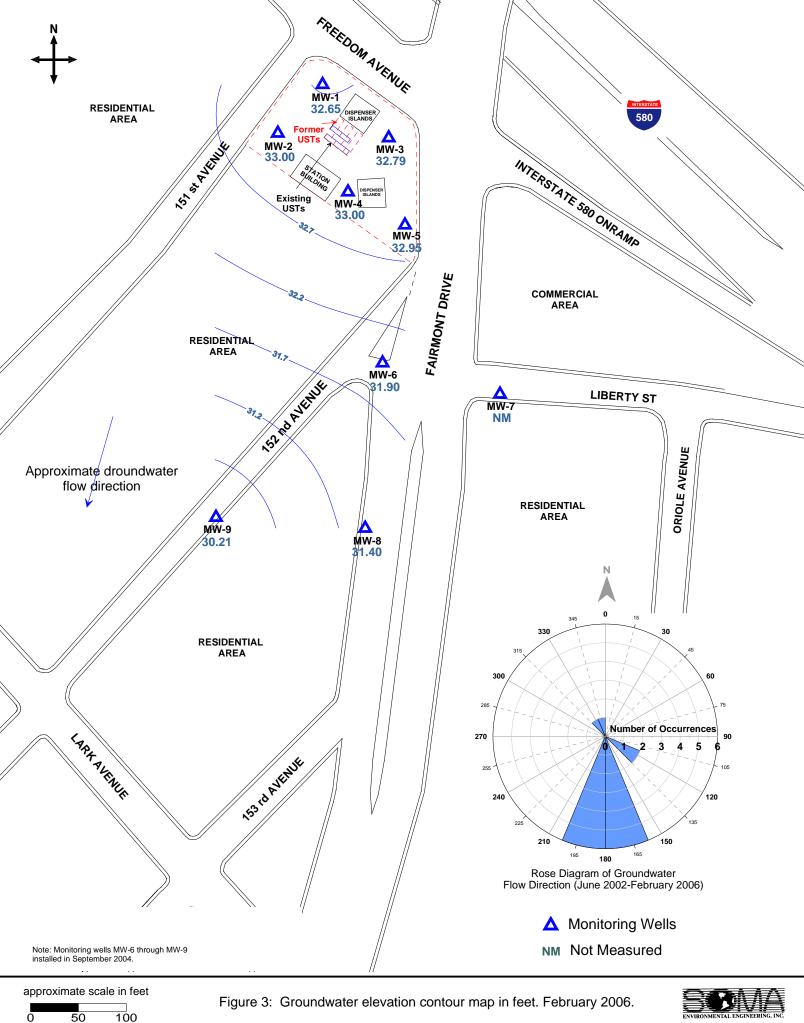
Figures

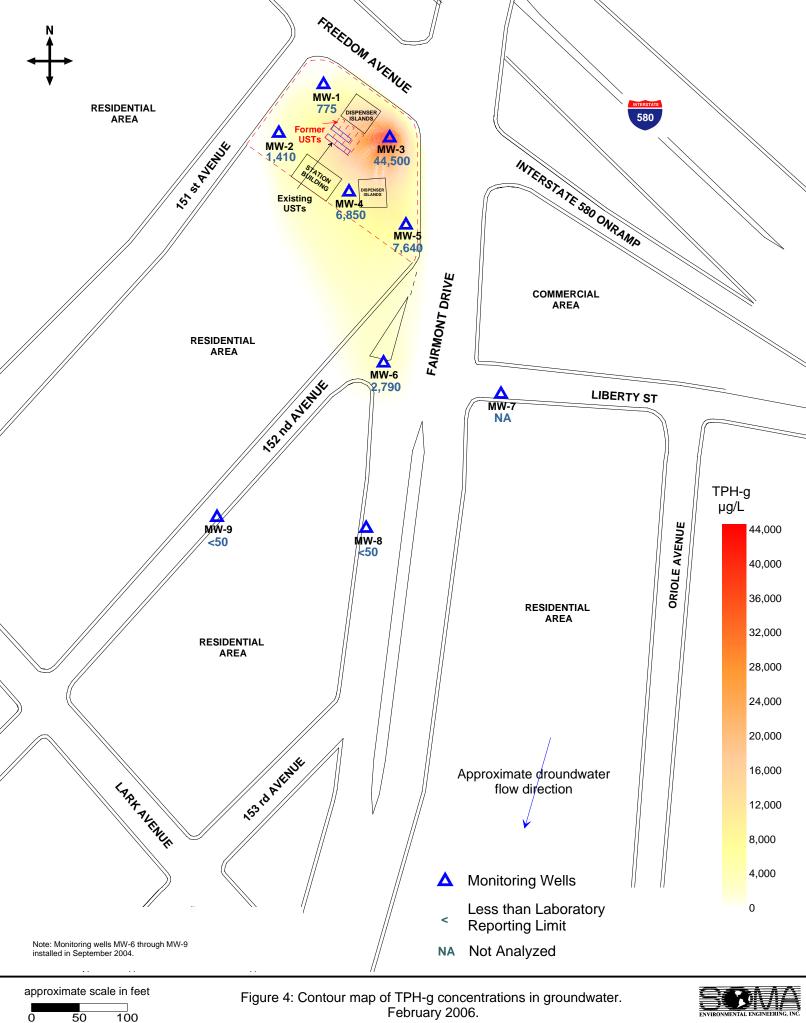




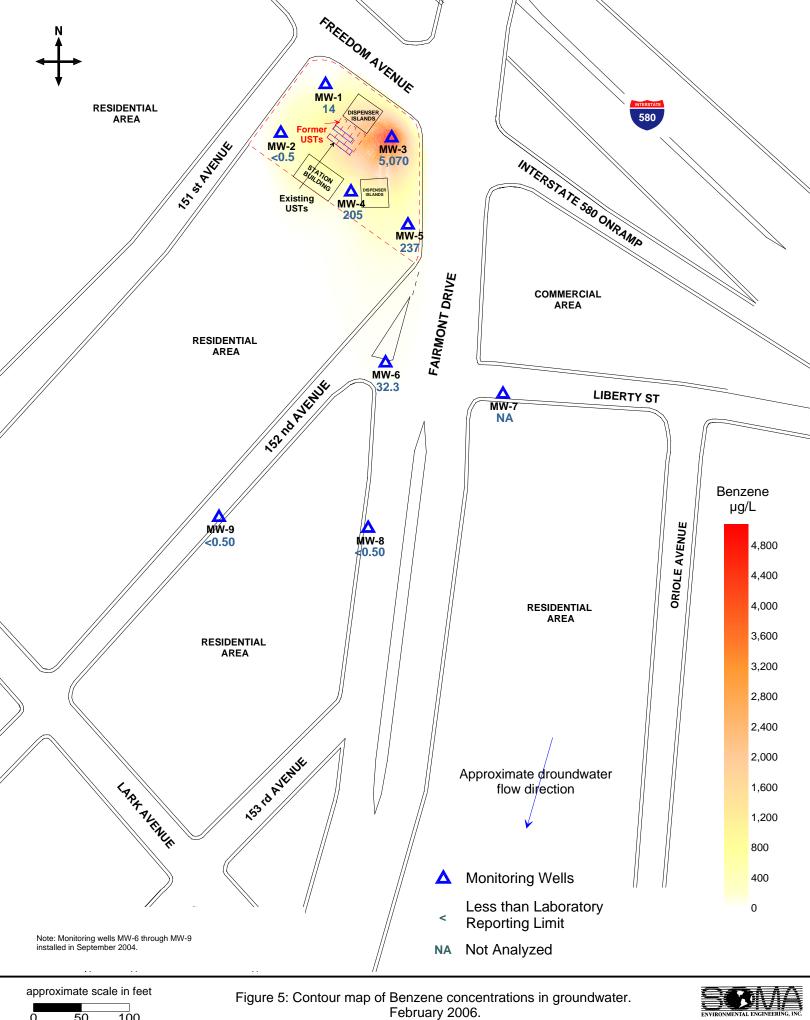


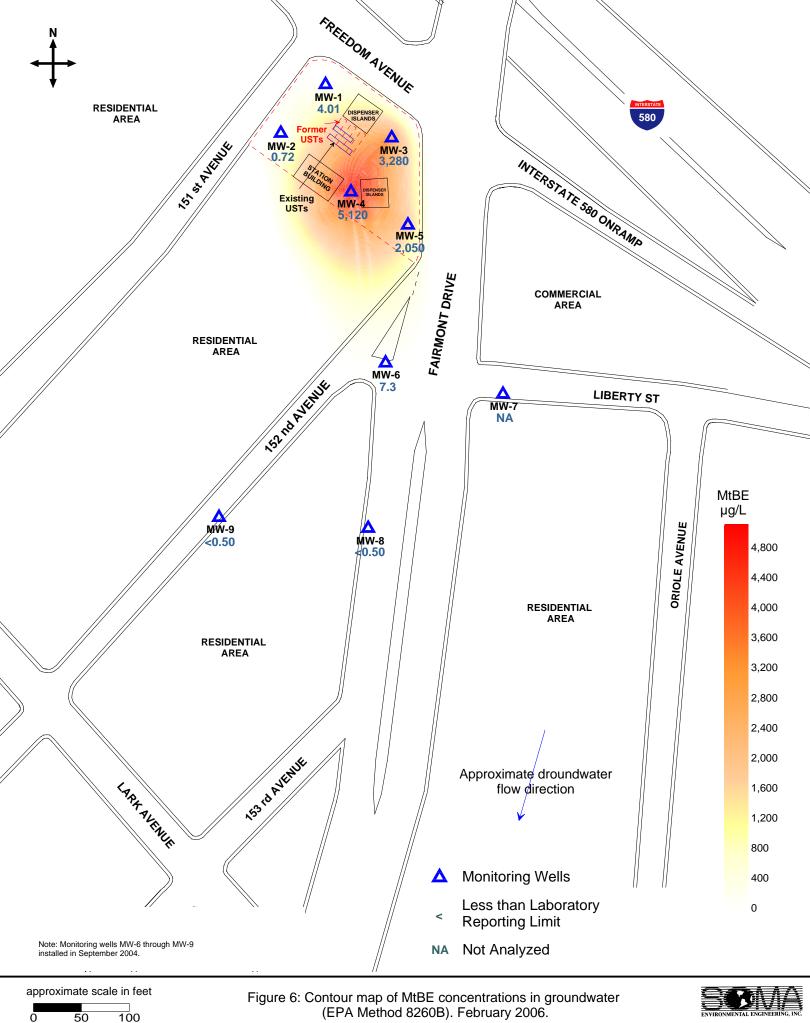




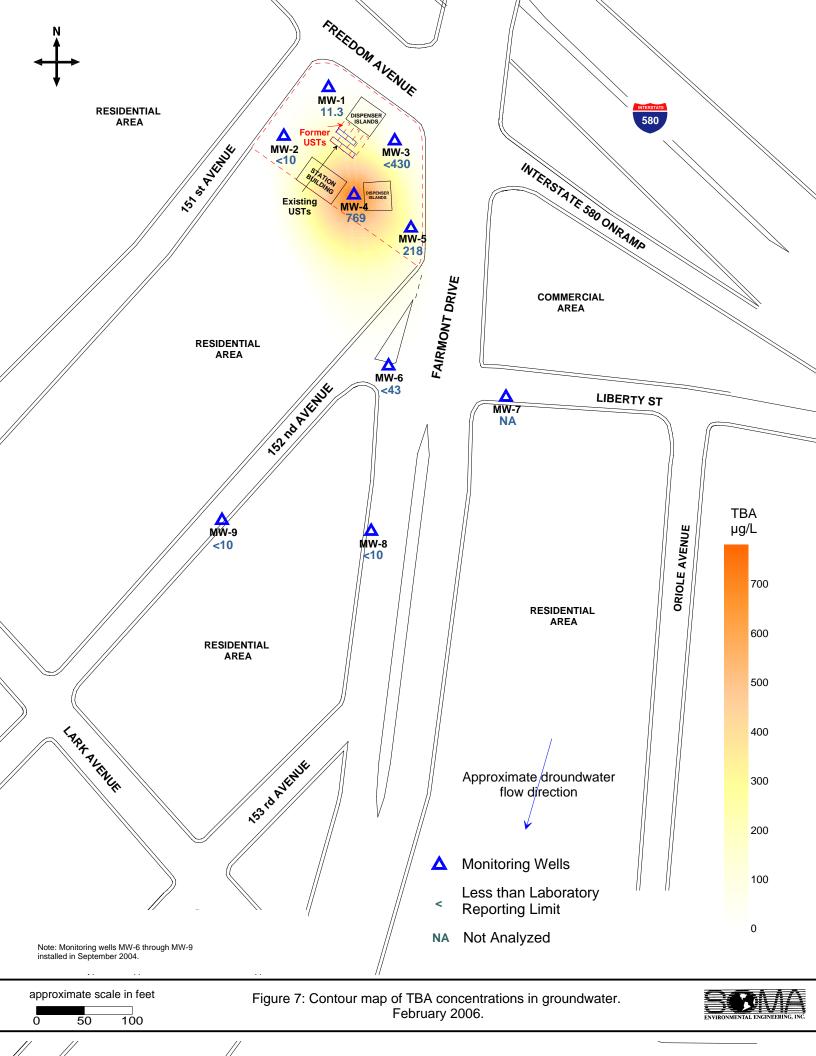


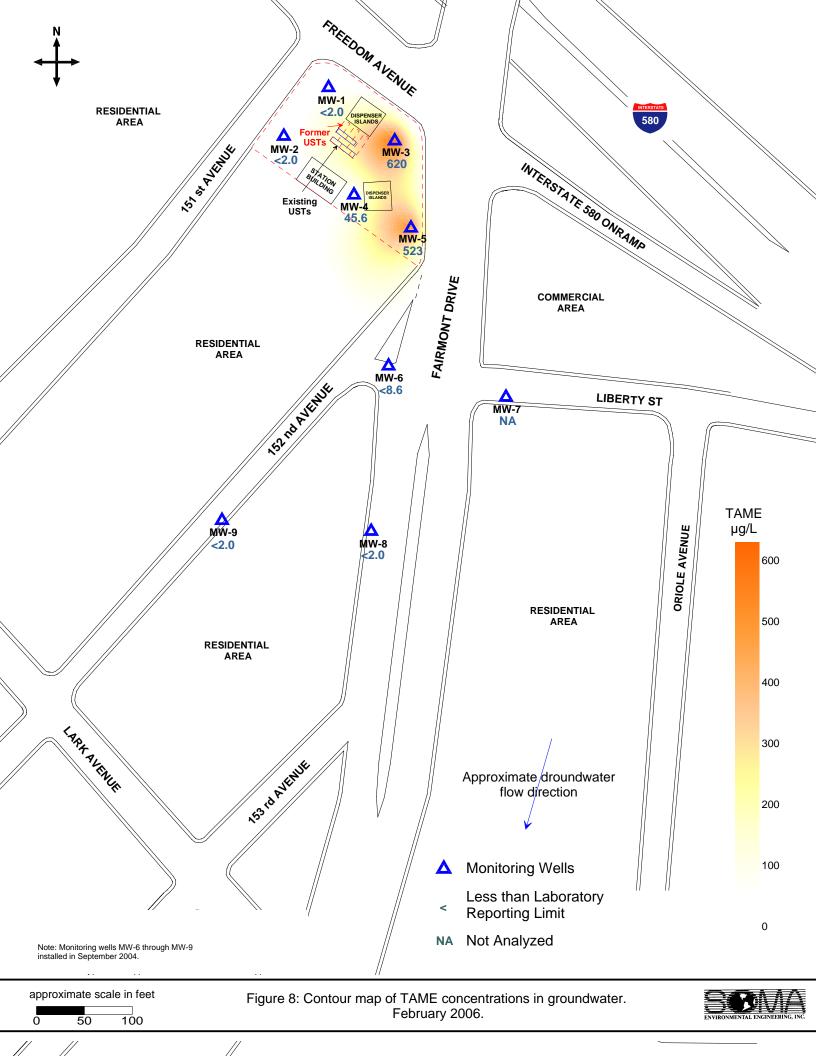
February 2006.





(EPA Method 8260B). February 2006.





Tables

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

Monitoring Well	Date	Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Total Xylenes (μg/L)	MtBE 8260B ² (μg/L)
MW-1	May-02	51.71	22.85	28.86	5,700	360	4.5	340	450	2
	Aug-02	51.71	23.31	28.40	9,100	590	2.6	830	362	<1.3
	Nov-02	51.71	23.58	28.13	7,900	570	3.1	680	392	< 1.0
	Feb-03	51.71	22.62	29.09	2,900	160	1.6 C	170	211	<0.5
	May-03	51.71	22.43	29.28	1,700	55	<0.5	90	115	2.00
	Aug-03	51.71	21.30	30.41	2,600	2.5	<0.5	190	130	<0.5
	Oct-03	51.71	23.49	28.22	9,200	560.0	2.7 C	670	648	<1.0
	Jan-04	51.71	22.43	29.28	5,500	190	<1.0	220	124.4	<0.5
	May-04	51.71	22.94	28.77	8,000	400	1.50	420	393	3.40
	Sep-04	54.46	23.49	30.97	9,300	580	9.30	690	683	4.60
	Dec-04	54.46	23.01	31.45	7,360	337	<4.3	731	633	<4.3
	Mar-05	54.46	21.48	32.98	2,510	45.2	<0.5	23.2	39.63	2.80
	Jun-05	54.46	22.42	32.04	1,690	36.3	<2.0	59.5	28.73	2.01
	Aug-05	54.46	23.00	31.46	7,310	318	<8.60	475	316	5.15
	Nov-05	54.46	21.40	33.06	9,640	341	<8.6	467	329.7	6.04
	Feb-06	54.46	21.81	32.65	775	14	<2.0	12.6	10.32	4.01
MW-2	May-02	49.66	22.83	26.83 *	3,100	67	8	250	215	56
	Aug-02	49.66	21.41	28.25	2,700	4.6	<0.5	310	140	<0.5
	Nov-02	49.66	21.79	27.87	3,400	4.6	< 0.5	310	160	< 0.5
	Feb-03	49.66	20.51	29.15	890	1.7 C	0.80 C	68	38.92 C	<0.5
	May-03	49.66	20.33	29.33	2,700	5.2 C	<0.5	120	140	1.2
	Aug-03	49.66	23.18	26.48*	8,500	640	<2.5	560	659	<0.8
	Oct-03	49.66	21.71	27.95	3100 H	4.3 C	<0.5	210	160	<0.5

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

Monitoring Well	Date	Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Total Xylenes (μg/L)	MtBE 8260B ² (μg/L)
MW-2 cont.	Jan-04	49.66	20.31	29.35	660 H	1.5 C	<0.5	8.9	25	<0.5
	May-04	49.66	21.09	28.57	4,500	5.1 C	<0.5	190	230	0.70
	Sep-04	52.41	21.71	30.70	370	0.76 C	<0.5	25	16	0.50
	Dec-04	52.41	21.20	31.21	880	1.0	<0.5	66	52	<0.5
	Mar-05	52.41	19.15	33.26	564	<0.5	<0.5	21	11.9	<0.5
	Jun-05	52.41	20.30	32.11	2,040	1.2	<2.0	78.2	22	<0.5
	Aug-05	52.41	20.97	31.44	1,500	0.930	<2.00	87.6	21	0.86
	Nov-05	52.41	25.30	27.11	2,140	1.08	<2.0	104	29	0.79
	Feb-06	52.41	19.41	33.00	1,410	<0.5	<2.0	99.6	21.4	0.72
MW-3	May-02	51.16	22.28	28.88	44,000	6,000	900	1,500	6,200	2,400
	Aug-02	51.16	22.88	28.28	40,000	5,800	1,100	1,600	6,500	1,300
	Nov-02	51.16	23.19	27.97	47,000	5,300	1,200	2,200	8,600	1,000
	Feb-03	51.16	22.02	29.14	39,000	5,500	1,500	2,000	8,600	1,300
	May-03	51.16	21.89	29.27	52,000	7,300	3,000	2,800	12,700	2,100
	Aug-03	51.16	22.66	28.50	31,000	6,100	860	1,500	6,900	1,200
	Oct-03	51.16	23.06	28.10	41,000	6,100	1,100	2,200	10,200	960
	Jan-04	51.16	21.85	29.31	51,000	4,100	1,100	2,000	8,400	590
	May-04	51.16	22.55	28.61	65,000	4,300	1,300	2,500	10,500	720
	Sep-04	53.91	23.08	30.83	42,000	4,900	890	2,200	8,700	480
	Dec-04	53.91	22.52	31.39	35,151	4,066	972	2,942	13,032	491
	Mar-05	53.91	20.90	33.01	42,600	3,040	1,100	1,530	6,670	968
	Jun-05	53.91	21.85	32.06	84,100	5,110	2,160	3,030	8,800	2,670
	Aug-05	53.91	22.49	31.42	43,500	3,630	1,080	2,500	6,830	1,440

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

Monitoring Well	Date	Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Total Xylenes (μg/L)	MtBE 8260B ² (μg/L)
	Nov-05	53.91	22.81	31.10	47,700	4,240	520	2,170	6,320	1,390
	Feb-06	53.91	21.12	32.79	44,500	5,070	1360	1,920	4,840	3,280
MW-4	May-02	50.54	21.78	28.76	880	25	1.0C	110	52	12,000
	Aug-02	50.54	22.50	28.04	3,800	70	<5.0	300	115	4,800
	Nov-02	50.54	22.81	27.73	5,100	150	10	460	258	2,400
	Feb-03	50.54	21.48	29.06	3,200	98	66	220	360	6,600
	May-03	50.54	21.24	29.30	6,200	140	46	200	790	2,300
	Aug-03	50.54	22.32	28.22	7,500	180	57	220	1450	1,900
	Oct-03	50.54	22.74	27.80	5,800	250	32	300	970	7,800
	Jan-04	50.54	21.19	29.35	5,900	270	17 C	150	640	7,300
	May-04	50.54	22.03	28.51	9,100	210	51	200	1190	1800
	Sep-04	53.31	22.76	30.55	5,200	290	12	370	600	7300
	Dec-04	53.31	21.99	31.32	8,937	538	114	416	2379	5021
	Mar-05	53.31	20.01	33.30	12,300	225	39.6	80.1	1465	3870
	Jun-05	53.31	21.25	32.06	7,690	114	32.6	77.1	555	1150
	Aug-05	53.31	22.03	31.28	8,850	175	24.6	150	851	1380
	Nov-05	53.31	22.43	30.88	9,990	356	<43	196	700	3,640
	Feb-06	53.31	20.31	33.00	6,850	205	<43	67.2	255.2	5,120
MW-5	May-02	47.79	19.02	28.77	25,000	1,000	1200	1,100	3,060	1,800
	Aug-02	47.79	19.80	27.99	18,000	1,000	660	950	1,720	1,500
	Nov-02	47.79	20.14	27.65	16,000	1,300	380	930	1,550	1,200
	Feb-03	47.79	18.70	29.09	12,000	390	71	770	1,100	860
	May-03	47.79	18.52	29.27	9,100	210	31	560	790	600
	Aug-03	47.79	19.54	28.25	12,000	660	75	660	1,110	1,000
	Oct-03	47.79	20.06	27.73	15,000	1,000	130	1,000	1,430	1,700
	Jan-04	47.79	18.42	29.37	9,900	450 C	16	500	431	1,100

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

Monitoring Well	Date	Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Total Xylenes (μg/L)	MtBE 8260B ² (μg/L)
MW-5 cont.	May-04	47.79	19.30	28.49	9,200	380	24	490	536	720
	Sep-04	50.53	20.15	30.38	10,000	980	71	560	770	1200
	Dec-04	50.53	19.30	31.23	10,502	587	64	1040	1133	1015
	Mar-05	50.53	17.20	33.33	8,390	407	<5.5	83	42.5	1530
	Jun-05	50.53	18.54	31.99	9,350	147	18.3	435	146.2	573
	Aug-05	50.53	19.31	31.22	9,500	261	<22	726	321.3	749
	Nov-05	50.53	19.75	30.78	10,000	443	41.5	527	278.5	1,430
	Feb-06	50.53	17.58	32.95	7,640	237	<22	187	50.2	2,050
MW-6	Sep-04	45.82	17.64	28.18	34,000	150	130	2200	8100	0.6
	Dec-04	45.82	15.75	30.07	5,161	137	7	436	1136	<5.5
	Mar-05	45.82	13.80	32.02	6,040	125	3.22	260	722.1	4.94
	Jun-05	45.82	14.78	31.04	5,590	44.3	6.60	272	382	5.85
	Aug-05	45.82	15.91	29.91	6,130	99	<8.6	378	492.9	5.66
	Nov-05	45.82	16.55	29.27	11,400	101	<8.6	645	834.7	4.33
	Feb-06	45.82	13.92	31.90	2,790	32.3	<8.6	131	131.22	7.30
MW-7	Sep-04	44.74	15.21	29.53	2,900	<0.5	<0.5	52	61	8.1
	Dec-04	44.74	13.90	30.84	<50	1.6	<0.5	29	58	6.0
	Mar-05	44.74	11.46	33.28	2,230	<2.5	<2.5	39.4	51.4	12.4
	Jun-05	44.74	12.97	31.77	2,940	0.85	<2.0	50.6	31.9	13.7
	Aug-05	44.74	14.10	30.64	2,310	< 0.50	<2.0	55.7	29.6	4.01
	Nov-05	44.74	14.59	30.15	3,030	<0.5	<2.0	66.5	42.3	9.76
	Feb-06	44.74	NM	NM	NA	NA	NA	NA	NA	NA
MW-8	Sep-04	41.14	12.98	28.16	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	Dec-04	41.14	11.22	29.92	<50	<0.5	<0.5	<0.5	<1.0	<0.5
	Mar-05	41.14	NM	NM	NA	NA	NA	NA	NA	NA
	Jun-05	41.14	10.46	30.68	<200	0.53	<2.0	<0.5	<1.0	<0.5
	Aug-05	41.14	11.53	29.61	<50	< 0.50	<2.0	< 0.50	<1.0	< 0.50
	Nov-05	41.14	11.92	29.22	<50	<0.5	<2.0	1.36	1.8	<0.5
	Feb-06	41.14	9.74	31.40	<50	< 0.50	<2.0	< 0.50	<1.0	< 0.50

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

Monitoring Well	Date	Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Total Xylenes (μg/L)	MtBE 8260B ² (μg/L)
MW-9	Sep-04	40.26	12.18	28.08	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	Dec-04	40.26	10.91	29.35	<50	<0.5	<0.5	<0.5	<1.0	< 0.5
	Mar-05	40.26	10.52	29.74	<200	<0.5	<0.5	<0.5	<1.0	< 0.5
	Jun-05	40.26	14.73	25.53	<200	<0.5	<2.0	<0.5	<1.0	<0.5
	Aug-05	40.26	10.59	29.67	<50	< 0.50	<2.0	< 0.50	<1.0	< 0.50
	Nov-05	40.26	11.25	29.01	<50	<0.5	<2.0	<0.5	<1.0	<0.5
	Feb-06	40.26	10.05	30.21	<50	< 0.50	<2.0	<0.50	<1.0	<0.50

Notes:

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

- ² MtBE analyzed by EPA Method 8021B, and confirmed by EPA Method 8260B.
- <: Not detected above the laboratory reporting limit.
- 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.

^{*:} 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.

^{1:} Top of casing elevations were surveyed to a datum of 67.07 M.S.L by Kier & Wright Civil Engineers & Land Surveyors on May 7, 2002.

On October 11, 2004, the site was re-surveyed by Harrington Surveys, Inc. of Walnut Creek, CA to a datum of California Coordinate System, Zone 3, NAD 83.

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

Monitoring	Dete	TBA	DIPE	ETBE	TAME
Well	Date	(μ g/L)	(μ g/L)	(μg/L)	(μg/L)
MW-1	Aug-02	78	<1.3	<1.3	<1.3
	Nov-02	42	< 1.0	< 1.0	< 1.0
	Feb-03	47	<0.5	<0.5	<0.5
	May-03	25	<0.5	<0.5	<0.5
	Aug-03	<10	<0.5	<0.5	<0.5
	Oct-03	70	<1.0	<1.0	<1.0
	Jan-04	55	<0.5	<0.5	<0.5
	May-04	62	<0.7	<0.7	<0.7
	Sep-04	<10	<0.5	<0.5	<0.5
	Dec-04	<21.5	<4.3	<4.3	<17.2
	Mar-05	81	<0.5	<0.5	<2.0
	Jun-05	<10	<0.5	<0.5	<2.0
	Aug-05	68.9	<2.15	<2.15	<8.6
	Nov-05	46	<2.15	<2.15	<8.6
	Feb-06	11.3	<0.5	<0.5	<2.0
MW-2	Aug-02	21	<0.5	<0.5	<0.5
	Nov-02	15	< 0.5	< 0.5	<0.5
	Feb-03	12	<0.5	<0.5	<0.5
	May-03	31	<0.5	<0.5	<0.5
	Aug-03	69	<0.8	<0.8	<0.8
	Oct-03	12	<0.5	<0.5	<0.5
	Jan-04	<10	<0.5	<0.5	<0.5
	May-04	14	<0.5	<0.5	<0.5
	Sep-04	<10	<0.5	<0.5	<0.5
	Dec-04	<2.5	<0.5	<0.5	<2.0
	Mar-05	<2.5	<0.5	<0.5	<2.0
	Jun-05	<10	<0.5	<0.5	<2.0
	Aug-05	<10	<0.5	<0.5	<2.0
	Nov-05	<10	<0.5	<0.5	<2.0
	Feb-06	<10	<0.5	<0.5	<2.0

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

Monitoring		ТВА	DIPE	ETBE	TAME
Well	Date	(μ g/L)	(μ g/L)	(μ g/L)	(μg/L)
MW-3	Aug-02	<330	<8.3	<8.3	330
	Nov-02	85	< 1.3	<1.3	220
	Feb-03	140	<5.0	<5.0	320
	May-03	520	<10	<10	530
	Aug-03	180	<4.2	<4.2	270
	Oct-03	<170	<8.3	<8.3	200
	Jan-04	<100	<5.0	<5.0	150
	May-04	<100	<5.0	<5.0	270
	Sep-04	<140	<7.1	<7.1	110
	Dec-04	<100	<20	<20	154
	Mar-05	<215	<43	<43	256
	Jun-05	<215	<10.8	<10.8	374
	Aug-05	699	<21.5	<21.5	277
	Nov-05	<430	<21.5	<21.5	171
	Feb-06	<430	<21.5	<21.5	620
MW-4	Aug-02	1500	<17	<17	18
	Nov-02	580	< 5.0	6	13
	Feb-03	1600	<20	22	<20
	May-03	690	<8.3	<8.3	17
	Aug-03	550	<7.1	7.3	18
	Oct-03	1400	<31	50	<31
	Jan-04	1,300	<20	25	21
	May-04	560	<8.3	<8.3	24
	Sep-04	1,300	<50	<50	<50
	Dec-04	826	<10.75	21	49
	Mar-05	1,110	<10.8	12.1	<43
	Jun-05	<110	<5.5	<5.5	22.9
	Aug-05	902	<5.50	<5.50	37.4
	Nov-05	884	<10.8	<10.8	<43
	Feb-06	769	<10.8	16.4	45.6
MW-5	Aug-02	<250	<6.3	<6.3	510
	Nov-02	66	< 2.0	< 2.0	560
	Feb-03	<63	<3.1	<3.1	280
	May-03	<33	<1.7	<1.7	110
	Aug-03	130	<3.6	<3.6	270
	Oct-03	<100	<5.0	<5.0	740
	Jan-04	<63	<3.1	<3.1	300
	May-04	<100	<5.0	<5.0	210
	Sep-04	<130	<6.3	<6.3	550
	Dec-04	40	<5.5	<5.5	444
	Mar-05	88.8	<5.5	<5.5	448
	Jun-05	<43	<2.15	<2.15	88.1
	Aug-05	274	<5.50	<5.50	195
	Nov-05	192	<5.50	<5.50	360
	Feb-06	218	<5.50	<5.50	523

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)
MW-6	Sep-04	<10	<0.5	<0.5	<0.5
	Dec-04	<5.5	<5.5	<5.5	<22
	Mar-05	2.54	<0.5	<0.5	<2.0
	Jun-05	<20	<1.0	<1.0	<4.0
	Aug-05	<43	<2.15	<2.15	<8.6
	Nov-05	<43	<2.15	<2.15	<8.6
	Feb-06	<43	<2.15	<2.15	<8.6
MW-7	Sep-04	<10	<0.5	<0.5	1.5
	Dec-04	<2.5	< 0.5	< 0.5	<2.0
	Mar-05	<12.5	<2.5	<2.5	<10
	Jun-05	<10	<0.5	< 0.5	2.23
	Aug-05	<10	<0.5	<0.5	<2.0
	Nov-05	<10	<0.5	<0.5	<2.0
	Feb-06	NA	NA	NA	NA
8-WM	Sep-04	<10	<0.5	<0.5	<0.5
	Dec-04	<2.5	<0.5	<0.5	<2.0
	Mar-05	NA	NA	NA	NA
	Jun-05	<10	<0.5	<0.5	<2.0
	Aug-05	<10	<0.5	<0.5	<2.0
	Nov-05	<10	<0.5	<0.5	<2.0
	Feb-06	<10	<0.5	<0.5	<2.0
MW-9	Sep-04	<10	<0.5	<0.5	<0.5
	Dec-04	<2.5	<0.5	<0.5	<2.0
	Mar-05	<2.5	<0.5	<0.5	<2.0
	Jun-05	<10	<0.5	<0.5	<2.0
	Aug-05	<10	<0.5	<0.5	<2.0
	Nov-05	<10	<0.5	<0.5	<2.0
	Feb-06	<10	<0.5	<0.5	<2.0

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 February 9, 2006, SOMA's field crew conducted a groundwater monitoring event in accordance with the procedures and guidelines of the CRWQCB. During this groundwater monitoring event, five on-site wells (MW-1 to MW-5) and three off-site wells (MW-6, MW-8, and MW-9) were monitored. Well MW-7 was inaccessible, a car was parked over the well. Figure 2 shows the locations of the monitoring wells.

The depth to groundwater in each on-site 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 datum 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.

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

In order 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 purging continued until these parameters stabilized or three casing volumes were purged. 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 four 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 (COC) form was completed for all of the samples and was 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 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.

HORZONTAL CONTROL, NAD 88:

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

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

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

VERTICAL CONTROL, NAVD 88:

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

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

EPOCH DATE 1998.5

OBSERVATION: EPOCH=180.

FIELD SURVEY: OCT. 11, 2004.

Ben Harrington

PLS 5132

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

JOB NO. 2445 DATE: OCT. 12, 2004

	NAD 83	NAD 83	NAVD 88		NORTH	WEST
PT	NORTH (sft)	EAST(sft)	ELEV.	DESCRIPTION	LATITUDE (DMS)	LONGITUDE (DMS)
	2087731.02	6094039.23	442.77	FD CHABOT B	37°43'02.71762"	122°07'00.46339"
2	2088584.99	6093351.39	492.08	FD CHABOT A	37°43'11.04190"	122°07'09.20691"
51	2084348.54	6092159.32	55.44	FD. X-8		
52	2084073.17	6092141.24	46.15	MW-6 PAV		
53	2084072.72	6092140.95	46.15	MW-6 PUNCH		
54	2084072.47	6092140.95	45.82	MW-6 NOTCH	37°42'26.22635"	122°07'23.29643
5	2083909.71	6091947.10	40.61	MW-9 PAV		
6	2083909.10	6091946.97	40.61	MW-9 PUNCH		
57	2083908.71	6091947.00	40.26	MW-9 NOTCH	37°42'24.57425"	122°07'25.67431"
8	2083861.20	6092118.11	41.38	MW-8 PAV		
9	2083860.43	6092118.36	41.44	MW-8 PUNCH		
0	2083860.03	6092118.52	41.14	MW-8 NOTCH	37°42'24.12245"	122°07'23.52966"
1	2084008.21	6092290.11	44.94	MW-7 PAV		
32	2084007.88	6092290.27	44.95	MW-7 PVNCH		
33	2084007.68	6092290.40	44.74	MW-7 NOTCH	37°42'25.61150"	122°07'21.42290"
64	2084206.49	6092175.95	51.03	MW-5 PAV		
35	2084206.17	6092176.55	50.96	MW-5 PUNCH		
6	2084206.01	6092176.79	50.53	MW-5 NOTCH	37°42'27.55260	122°07'22.87930
7	2084670.41	6092307.68	69.79	FD BM FAIR580		
88	2084443.65	6092198.88	53.70	MW-4 PAV		
39	2084444.39	6092199.72	53.74	MW-4 PUNCH		
0	2084444.59	6092199.51	53.31	MW-4 NOTCH	37°42'29.91496"	122°07'22.64809"
1	2084399.10	6092145.43	54.37	MW-3 PAV		
2	2084399.78	6092145.28	54.33	MW-3 PUNCH		
3	2084400.15	6092145.27	53.91	MW-3 NOTCH	37°42'29.46636"	122°07'23.31339"
4	2084329.47	6092199.72	54.82	MW-1 PAV		
75	2084330.44	6092199.45	54.79	MW-1 PUNCH		
76	2084330.75	6092199.20	54.46	MW-1 NOTCH	37°42'28.78955"	122°07'22.62738"
77	2084367.59	6092256.38	52.88	MW-2 PAV		
78	2084368.15	6092256.14	52.92	MW-2 PUNCH		
79	2084368.53	6092256.06	52.41	MW-2 NOTCH	37°42'29.17277"	122°07'21.92804"
30	2084930.49	6091759.33	58.50	FD BM K1256	37°42'34.64279"	122°07'28.23011"
					CHSED LAND S	
						P 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
						A 3 1
					1 1 1	
					19132	M
					N/A	1/1
					ATE OF CALL	08
					OT CAE	



Well No.:	MW	<u>-/</u>		F	Project No.:	2551
Casing Diameter:	4	inch			Address:	15101 Freedom Ave.
Depth of Well:	30.	<u>√σ</u> ft				San Leandro, CA
Top of Casing Elevation:	54.4	/ 6_ft			Date:	February 9, 2006
Depth to Groundwater:	2/2	<u>37 </u> ft			Sampler:	Tony Perini
Groundwater Elevation:	32.6	5 ft				Mehran Nowroozi
Water Column Height:	8,5	9 ft				
Purged Volume:	14	gallons				
Purging Method:	Bailer	· 🗆			Pump 🗹	_
Sampling Method:	Bailer	. 🛮			Pump \square	
	N.C.		V		Denovibe	
Color:	No		Yes		Describe_	-
Sheen:	No		Yes		Describe	-
Odor:	No	Ø .	Yes		Describe	_

Field Measurements:

Time	Volume	D.C.	pН	Temp	E.C.	Turb.	ORP
	(galions)	mg/L		ိင	(uS/cm)	NTU	
12.40 PM	Span	to Ou	vging a	ic//			l
12:43 PM	2.0	2.28	6.44	2/231	890	388	-60/
12:46 PM	6.0	1.90	6.26	2/.42	897	304	-77
12:50 600	10	2.86	6.19	21.40	897	261	-86
12:53 PM	14	3.72	6,18	21.35	899	228	-90
12:15 Post	Sany	leo		;	1		
)						<u> </u>

Notes:



Well No.:	MW	-1	Project No.: 2551			
Casing Diameter:	4	inch			Address:	15101 Freedom Ave.
Depth of Well:		<u>3€</u> ft				San Leandro, CA
Top of Casing Elevation:	52.	4/ _ft			Date:	February 9, 2006
Depth to Groundwater:	19.	<u>//</u> ft			Sampler:	Tony Perini
Groundwater Elevation:	<u> 33</u> .	. 00 ft				Mehran Nowroozi
Water Column Height:	10.8	?				
Purged Volume:	16	gallons				
Purging Method:	Bailer				Pump ☑	-
Sampling Method:	Bailer	3			Pump 🗆	
Color:	No		Yes		Describe	
Sheen:	No		Yes		Describe	
Odor:	No	ď	Yes		Describe	

Field Measurements:

Time	Volume D.C.	Hq	Temp	E.C.	Turb.	ORP
	(galions) mg/L		ొ	(uS/cm)	NTU	<u>.</u>
12:10 pm	startes pu	My My we	11			
12"12 PM	1.5 8.19	6.59	21.34	1310	3/9	26
12:18 PM	5 13.81	6.43	21.40	1280	260	18
12'21 PM	9 3.13	6.31	21.48	1000	204	16
12:24 FM	13 3.79	6.29	21.39	1280	190	<u></u>
12:27 PM	16 +46	6.29	21.34	1290	181	-27
12:30 PM	5 amples	1				1

Notes:



Well No.:	mu	<u>-3</u>		F	Project No.:	2551
Casing Diameter:		<u></u> inch			Address:	15101 Freedom Ave.
Depth of Well:	3	<u>c</u> ft				San Leandro, CA
Top of Casing Elevation:	53.	91 ft			Date:	February 9, 2006
Depth to Groundwater:	21.1	<u>/2</u> ft			Sampler:	Tony Perini
Groundwater Elevation:	32.7	?? _ft				Mehran Nowroozi
Water Column Height:	8,	88_ft				
Purged Volume:	/:	2 gallons				
Purging Method:	Baile	r 🗆			Pump ₽	
Sampling Method:	Baile	r 🗹			Pump	
3					•	
Color:	No		Yes		Describe	
Sheen:	No	ď	Yes		Describe	
Odor:	No		Yes		Describe	

Time	Volume D	.0. pH	Temp	E.C.	Turb.	ORP
	(galions) m	g/ <u>'</u>	ိုင	(µS/cm)	NTU	
1:58 Pm	Stanks	gung Pry u	2011			
2 fm	1.5 4	1.41 6.48	21.68	1440	356	-42
2:03 PM	5 1	1.00 6.21	21.75	1400	336	-62
2:06 PM	3 7	90 6.15	: 21.74	1400	206	-75
2:09 Pm	12 7	1.90 6.12	21.72	1400	181	-81
2:10 PM	Samples	·	*			:
	1	2	ŧ			1



Well No.:	MW-4		P	Project No.:	2551
Casing Diameter:	/ inch			Address:	15101 Freedom Ave.
Depth of Well:	<i>30.10</i> ft				San Leandro, CA
Top of Casing Elevation:	53.31 ft			Date:	February 9, 2006
Depth to Groundwater:	20.31 ft			Sampler:	Tony Perini
Groundwater Elevation:	33.00 ft				Mehran Nowroozi
Water Column Height:	9.79 ft				
Purged Volume:	gallons				
Purging Method:	Bailer □			Pump 🗹	
-	/			5	
Sampling Method:	Bailer 🗹			Pump	
Color:	No □	Yes		Describe	
Sheen:	No 🗹	Yes		Describe	
Odor:	No 🗹	Yes		Describe	

Time	Volume D.C. pH Temp E.C. Turb. ORF
	(gallons) mg/L °C (uS/cm) NTU
1:03 Pin	Startes progny well
1.06 800	2.5 2.90 G. 22 26.72 1580 356 -41
1:10 Pm	5 7.52 6.16 20.67 1580 249 -55
1:13 PM	9 8.50 6.15 20.67 1590 199 -61
1:16 PM	12 8.10 6.15 20.64 1570 185 -62
1.19 812	16 5.07 4.16 20.65 1570 174 -63
1: 22 PM	samples



Well No.:	1274	-5		F	Project No.:	2551
Casing Diameter:	4	inch			Address:	15101 Freedom Ave.
Depth of Well:	2%	<i>85</i> ft				San Leandro, CA
Top of Casing Elevation:	50.	53 ft			Date:	February 9, 2006
Depth to Groundwater:	17.	<u>58</u> ft			Sampler:	Tony Perini
Groundwater Elevation:	32.5	? S_ft				Mehran Nowroozi
Water Column Height:	12. 2	<u>り</u> ft				
Purged Volume:	19	gallons				
Purging Method:	Bailer	· 🗆			Pump 🗹	
		_			·	
Sampling Method:	Baile	. 3			Pump	
Color:	No		Yes		Describe	
Sheen:	No		Yes		Describe	
Odor:	No	☑	Yes		Describe	

Time	Volume D.O. pH Temp E.C. Turb. ORP
	(galions) mg/L °C (μS/cm) NTU
:30 PM	Starks proging well
1:34 GM	2,5 5.73 6.36 21.63 1300 407 -54
1:38 8m	6 7.74 6.25 21.76 1290 249 -71
1:42 PM	10 8.30 6.20 2683 1290 202 -80
1:46 827	14 6.46 6.19 21.89 1220 206 -84
1:50 PM	Samples



Well No.:	Mu	<u>r-6</u>		Project No.: 2	2551
Casing Diameter:	4	inch		Address:	15101 Freedom Ave.
Depth of Well:	27	40 ft		;	San Leandro, CA
Top of Casing Elevation:	45.	82 ft		Date:	February 9, 2006
Depth to Groundwater:	13.	92 ft		Sampler:	Tony Perini
Groundwater Elevation:	31.	90 ft			Mehran Nowroozi
Water Column Height:	13.	48 _ft			
Purged Volume:		7 gallons			
Purging Method:	Baile	r 🗆		Pump 🗹	
Sampling Method:	Baile	er 🗹		Pump \square	
Color:	No		Yes	Describe	
Sheen:	No		Yes	Describe	
Odor:	No		Yes	Describe	

Time	Volume D.O. pH	Temp	E.C.	Turb.	ORP
10:04 Am	(galions) mg/_ Starks purging	°C	(μS/cm)	NTU I	
10:06 AM		11.75	907	175	56
10:08 Am	4.0 3.76 5.91	21.72	908	144	21
10:11 AM	8.0 3.21 6.06	21.79	904	116	-40
10:14 Am	13 5.25 6.11	21.73	900	118	-70
10:17 Am	17 6.18 6.13	21.74	902	117	-94
10:20 AM	5amp/co	i	1		1



Well No.:	Mh			F	Project No.:	2551
Casing Diameter:	•	2inch			Address:	15101 Freedom Ave.
Depth of Well:	<u> 28.</u>	75 ft				San Leandro, CA
Top of Casing Elevation:	41.1	<u>/ </u>			Date:	February 9, 2006
Depth to Groundwater:	9-7	<u>74</u> ft			Sampler:	Tony Perini
Groundwater Elevation:	31.4	10 ft				Mehran Nowroozi
Water Column Height:	19,	<i>01</i> _ft				
Purged Volume:	/	3 gallons				
						_
Purging Method:	Bailer				Pump 🗆	
Sampling Method:	Baile	. ¬			Pump □	
Sampling Method:	Danei				Pullip 🗆	
Color:	No		Yes		Describe	cloudy
Sheen:	No		Yes		Describe	
oneon.	110		100	_	DOSCITION	
Odor:	No		Yes		Describe	

Time	Volume D.O. pH Temp E.C. Turb	ORF
	(gallons) mg/L °C (uS/cm) NTU	
11 Am	startes proxymy well	
1/162 Am	2 4.93 6.60 20.34 1320 999	55
11:04 Am	I 3.15 6.50 20.29 1340 27	3 48
11:07 Am	9 2.77 6.47 20.31 1340 205	- 42
11:10 Am	13 3.30 6.46 20.30 1340 197	35
11:12 Am	samples	
!		



Well No.:	mu	<u>-9</u>		Project No.:	2551
Casing Diameter:	2	inch		Address:	15101 Freedom Ave.
Depth of Well:	32.	<i>(⊘C</i> ft			San Leandro, CA
Top of Casing Elevation:	40-	26 ft		Date:	February 9, 2006
Depth to Groundwater:	10.0	<u>05</u> ft		Sampler:	Tony Perini
Groundwater Elevation:	30.	2-(ft			Mehran Nowroozi
Water Column Height:	22,5	55 ft			
Purged Volume:	9	gallons			
Purging Method:	Baile	r 🗆		Pump 🗹	
Sampling Method:	Baile	r 🖭		Pump \square	
Color:	No		Yes	Describe	
Sheen:	No	2	Yes	Describe	
Odor:	No		Yes	Describe	

Time	Volume	D.O.	pН	Temp	E.C.	Turb.	ORP
	(gallons)	mg/L		°C	(μS/cm)	NTU	
10:35 Am	S.far	to pur	9779 W	//			
10:37 AM	2	7.18		20.20	875	180	/3
10:39 Am		5-16	6.51	20.08	876	146	7
16:43 AM	9	3.59	2.53	19.90	874	66.8	3
10:45 Am	Sun	ples					
		1					

Appendix C

Laboratory Report and Chain of Custody Form for the

First Quarter 2006 Monitoring Event

22 February 2006

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

RE: 15101 Freedom Ave., San Leandro

Work Order Number: 6020008

Mapa Ach

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

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# 6020008

Sample Project Name: 15101 Freedom Avenue Report To: Tony Perint Sample Project Name: 15101 Freedom Avenue Report To: Tony Perint Sample Properties Sample Properties Prop	Project No: 2551			Samp		Sampler: Towl Perelui	(In)	1	neh	Nebran Rouroozi	10021		Analy	Analyses/Method	
Sample ID Date Time Single Date Date	Project Name: 15101 San Le	Freedom Av	enne	Repoi	t To:	Tony Perin						381M	ers		
Sampling Date Time Tel: 925-244-6601 Tel: 925-244-6601				Com	bany.	SOMA En	rironn	enta	I Engir	neering, Inc.		, X	eud de		
Sample ID Date Time Sampling Date/Time Matrix Containers Preservatives	Turnaround Time: S	tandard		Tel: Fax:	926	5-244-6600						TB ,g	ine Ox vso2 t		
Sample ID		Sampling	, Date/Time	Mati	dix	# of Containers	Pre	serva	tives			-HGT	Gasol & Lead		
2/4/04 135 644 X		Date	Time							6	ield Notes				
2 4 04 (23049) X	- MW-1	2/2/00	1255 Pm	×		4 VOAs	×		×	Gr	ab Sample	×	×		
2/4/bv 2/c on	MW-2	2/9/06	1230 PM	×			×		×			×	×		10
2 4 06 122 100 1	MW-3	2/9/60	210 pm	×			×		×			×	×		
2 9 10 10 10 10 10 10 10	MW-4	2/4/06	122 pm	×			×		×			×	×		
	MW-5	2/9/00	150 pm	×			×		×			×	×		
zhlov 1024m x x x x x x x x x x x x x x x x x x x	MW-6	2/4/04	1020101	×			×		×		1	×	×		
2/4/64 102 And X X X X X X X X X X X X X X X X X X X	-Z-WW-Z			*	1		×	-	*			*	*		
Relinquished by: Date/Time: Received by: 3:15 Pm 3:15 Pm 3:15 Pm 3:15 Pm 3:15 Pm 3:15 Pm	MW-8	2/4/04	11(2 Am	×			×		×	1-	1	×	×		
Relinquished by: Date/Time: Received by: 3:15 Pm	WW-9	2/4/01	1	×			×		×	7		×	×		
Sony Hint 29/06 Juny	Sampler Remarks:				-	Relinquis	ned by	-	Date	»/Time:	Received by:			Date/Time:	-
	EDF REQUIRED					John B	Con .	4	3:1	15 Pm	James gran	:3		3:15pm 2/9/00	
	Emano					5						5			



6620 Owens Drive, Suite AProject Number:2551Reported:Pleasanton CA, 94588Project Manager:Mansour Sepehr22-Feb-06 17:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6020008-01	Water	09-Feb-06 12:55	09-Feb-06 17:23
MW-2	6020008-02	Water	09-Feb-06 12:30	09-Feb-06 17:23
MW-3	6020008-03	Water	09-Feb-06 14:10	09-Feb-06 17:23
MW-4	6020008-04	Water	09-Feb-06 13:22	09-Feb-06 17:23
MW-5	6020008-05	Water	09-Feb-06 13:50	09-Feb-06 17:23
MW-6	6020008-06	Water	09-Feb-06 10:20	09-Feb-06 17:23
MW-8	6020008-07	Water	09-Feb-06 11:12	09-Feb-06 17:23
MW-9	6020008-08	Water	09-Feb-06 10:45	09-Feb-06 17:23



6620 Owens Drive, Suite AProject Number:2551Reported:Pleasanton CA, 94588Project Manager:Mansour Sepehr22-Feb-06 17:01

Volatile Organic Compounds by EPA Method 8260B Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-1 (6020008-01) Water Sampled: 09-	-Feb-06 12:55 Rece	ived: 09-Feb-0	6 17:23						
Gasoline (C6-C12)	775	50.0	ug/l	1	BB62201	09-Feb-06	21-Feb-06	EPA 8260B	
Benzene	14.0	0.500	"	"	"	"	"	"	
Ethylbenzene	12.6	0.500	"	"	"	"	"	"	
m&p-Xylene	7.51	1.00	"	"	"	"	"	"	
o-xylene	2.81	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	4.01	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
TBA	11.3	10.0	"	"	"	"	"	"	
1,2-dichloroethane	0.590	0.500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	70-	130	"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	70-	130	"	"	"	"	
Surrogate: Perdeuterotoluene		99.2 %		130	"	"	"	"	
MW-2 (6020008-02) Water Sampled: 09-	-Feb-06 12:30 Rece	ived: 09-Feb-0	6 17:23						
Gasoline (C6-C12)	1410	50.0	ug/l	1	BB62201	09-Feb-06	21-Feb-06	EPA 8260B	
Benzene									
	ND	0.500	"	"	"	"	"	"	
	ND 99.6		"	"	"	"	"	"	
Ethylbenzene		0.500							
Ethylbenzene m&p-Xylene	99.6	0.500 0.500	"	"	"	"	"	"	
Ethylbenzene	99.6 21.4	0.500 0.500 1.00	"	"	"	"	"	"	
Ethylbenzene m&p-Xylene o-xylene	99.6 21.4 ND	0.500 0.500 1.00 0.500	"	" "	" "	"	"	" " "	
Ethylbenzene m&p-Xylene o-xylene Toluene	99.6 21.4 ND ND	0.500 0.500 1.00 0.500 2.00	" "	" " "	" "	"	"	11 11 11	
Ethylbenzene m&p-Xylene o-xylene Toluene MTBE	99.6 21.4 ND ND 0.720	0.500 0.500 1.00 0.500 2.00 0.500	" " "	" " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11	"	" " " " "	
Ethylbenzene m&p-Xylene o-xylene Toluene MTBE DIPE ETBE	99.6 21.4 ND ND 0.720 ND	0.500 0.500 1.00 0.500 2.00 0.500 0.500	" " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	n n n	11 11 11 11	
Ethylbenzene m&p-Xylene o-xylene Toluene MTBE DIPE	99.6 21.4 ND ND 0.720 ND	0.500 0.500 1.00 0.500 2.00 0.500 0.500 0.500	" " " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11 11	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11 11	
Ethylbenzene m&p-Xylene o-xylene Toluene MTBE DIPE ETBE TAME TBA	99.6 21.4 ND ND 0.720 ND ND ND	0.500 0.500 1.00 0.500 2.00 0.500 0.500 0.500 2.00	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	n n n n n n n n n n n n n n n n n n n	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11	
Ethylbenzene m&p-Xylene o-xylene Toluene MTBE DIPE ETBE TAME TBA 1,2-dichloroethane	99.6 21.4 ND ND 0.720 ND ND ND	0.500 0.500 1.00 0.500 2.00 0.500 0.500 0.500 2.00 10.0			n n n n n n n n n n n n n n n n n n n	"" "" "" "" "" "" "" "" "" "" "" "" ""	" " " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	
Ethylbenzene m&p-Xylene o-xylene Toluene MTBE DIPE ETBE TAME TBA	99.6 21.4 ND ND 0.720 ND	0.500 0.500 1.00 0.500 2.00 0.500 0.500 2.00 10.0 0.500			n n n n n n n n n n n n n n n n n n n	"" "" "" "" "" "" "" "" "" "" "" "" ""	11 11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11	

Pacific Analytical Laboratory



6620 Owens Drive, Suite AProject Number:2551Reported:Pleasanton CA, 94588Project Manager:Mansour Sepehr22-Feb-06 17:01

Volatile Organic Compounds by EPA Method 8260B Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (6020008-02) Water Sampled: 09-	Feb-06 12:30 Rece	ived: 09-Feb-0	6 17:23						
Surrogate: Dibromofluoromethane		100 %	70-	-130	BB62201	09-Feb-06	21-Feb-06	EPA 8260B	
Surrogate: Perdeuterotoluene		100 %	70-	-130	"	"	"	"	
MW-3 (6020008-03) Water Sampled: 09-	Feb-06 14:10 Rece	ived: 09-Feb-0	6 17:23						
Gasoline (C6-C12)	44500	2150	ug/l	43	BB62201	09-Feb-06	21-Feb-06	EPA 8260B	
Benzene	5070	21.5	"	"	"	"	"	"	
Ethylbenzene	1920	21.5	"	"	"	"	"	"	
m&p-Xylene	2820	43.0	"	"	"	"	"	"	
o-xylene	2020	21.5	"	"	"	"	"	"	
Toluene	1360	86.0	"	"	"	"	"	"	
MTBE	3280	21.5	"	"	"	"	"	"	
DIPE	ND	21.5	"	"	"	"	"	"	
ETBE	ND	21.5	"	"	"	"	"	"	
TAME	620	86.0	"	"	"	"	"	"	
TBA	ND	430	"	"	"	"	"	"	
1,2-dichloroethane	ND	21.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	21.5	"	"	"	"	"	"	
Ethanol	ND	43000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	70-	-130	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	70-	-130	"	"	"	"	
Surrogate: Perdeuterotoluene		99.2 %	70-	-130	"	"	"	"	
MW-4 (6020008-04) Water Sampled: 09-	Feb-06 13:22 Rece	ived: 09-Feb-0	6 17:23						
Gasoline (C6-C12)	6850	1080	ug/l	21.5	BB62201	09-Feb-06	21-Feb-06	EPA 8260B	
Benzene	205	10.8	"	"	"	"	"	"	
Ethylbenzene	67.2	10.8	"	"	"	"	"	"	
m&p-Xylene	222	21.5	"	"	"	"	"	"	
o-xylene	33.2	10.8	"	"	"	"	"	"	
Toluene	ND	43.0	"	"	"	"	"	"	
MTBE	5120	10.8	"	"	"	"	"	"	
DIPE	ND	10.8	"	"	"	"	"	"	
ETBE	16.4	10.8	"	"	"	"	"	"	
TAME	45.6	43.0	"	"	"	"	"	"	
TBA	769	215	"	"	"	"	"	"	
1,2-dichloroethane	ND	10.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10.8	"	"	"	"	"	"	
Ethanol	ND	21500	"	"	"	"	"	"	

Pacific Analytical Laboratory



6620 Owens Drive, Suite AProject Number:2551Reported:Pleasanton CA, 94588Project Manager:Mansour Sepehr22-Feb-06 17:01

Volatile Organic Compounds by EPA Method 8260B Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (6020008-04) Water Sampled: 09-1	Feb-06 13:22 Rece	ived: 09-Feb-0	6 17:23						
Surrogate: 4-Bromofluorobenzene		99.6 %	70-	130	BB62201	09-Feb-06	21-Feb-06	EPA 8260B	
Surrogate: Dibromofluoromethane		100 %	70-	130	"	"	"	"	
Surrogate: Perdeuterotoluene		99.6 %	70-	130	"	"	"	"	
MW-5 (6020008-05) Water Sampled: 09-1	Feb-06 13:50 Rece	ived: 09-Feb-0	6 17:23						
Gasoline (C6-C12)	7640	550	ug/l	11	BB62201	09-Feb-06	21-Feb-06	EPA 8260B	
Benzene	237	5.50	"	"	"	"	"	"	
Ethylbenzene	187	5.50	"	"	"	"	"	"	
m&p-Xylene	50.2	11.0	"	"	"	"	"	"	
o-xylene	ND	5.50	"	"	"	"	"	"	
Toluene	ND	22.0	"	"	"	"	"	"	
MTBE	2050	5.50	"	"	"	"	"	"	
DIPE	ND	5.50	"	"	"	"	"	"	
ETBE	ND	5.50	"	"	"	"	"	"	
TAME	523	22.0	"	"	"	"	"	"	
TBA	218	110	"	"	"	"	"	"	
1,2-dichloroethane	ND	5.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.50	"	"	"	"	"	"	
Ethanol	ND	11000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	70-	130	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	70-	130	"	"	"	"	
Surrogate: Perdeuterotoluene		99.6 %	70-	130	"	"	"	"	
MW-6 (6020008-06) Water Sampled: 09-1	Feb-06 10:20 Rece	ived: 09-Feb-0	6 17:23						
Gasoline (C6-C12)	2790	215	ug/l	4.3	BB62201	09-Feb-06	21-Feb-06	EPA 8260B	
Benzene	32.3	2.15	"	"	"	"	"	"	
Ethylbenzene	131	2.15	"	"	"	"	"	"	
m&p-Xylene	126	4.30	"	"	"	"	"	"	
o-xylene	5.22	2.15	"	"	"	"	"	"	
Toluene	ND	8.60	"	"	"	"	"	"	
MTBE	7.30	2.15	"	"	"	"	"	"	
DIPE	ND	2.15	"	"	"	"	"	"	
ETBE	ND	2.15	"	"	"	"	"	"	
TAME	ND	8.60	"	"	"	"	"	"	
TBA	ND	43.0	"	"	"	"	"	"	
1,2-dichloroethane	ND	2.15	"	"	"	,,	,,	"	

Pacific Analytical Laboratory



6620 Owens Drive, Suite AProject Number:2551Reported:Pleasanton CA, 94588Project Manager:Mansour Sepehr22-Feb-06 17:01

Volatile Organic Compounds by EPA Method 8260B Pacific Analytical Laboratory

Analyta	Result	Reporting Limit	Units	Dilution	Batch	Droporad	Analyzed	Method	Note
Analyte				Dilution	Daten	Prepared	Anaryzed	Memod	note
MW-6 (6020008-06) Water Sampled: 09-F	eb-06 10:20 Rece	ived: 09-Feb-0	6 17:23						
Ethanol	ND	4300	ug/l	4.3	BB62201	09-Feb-06	21-Feb-06	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		101 %	70-	130	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	70-	130	"	"	"	"	
Surrogate: Perdeuterotoluene		100 %	70-	130	"	"	"	"	
MW-8 (6020008-07) Water Sampled: 09-Fe	eb-06 11:12 Rece	ived: 09-Feb-0	6 17:23						
Gasoline (C6-C12)	ND	50.0	ug/l	1	BB62201	09-Feb-06	21-Feb-06	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	1.00	"	"	"	"	"	"	
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	10.0	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	70-	130	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	70-	130	"	"	"	"	
Surrogate: Perdeuterotoluene		99.8 %	70-	130	"	"	"	"	
MW-9 (6020008-08) Water Sampled: 09-F	eb-06 10:45 Rece	ived: 09-Feb-0	6 17:23						
Gasoline (C6-C12)	ND	50.0	ug/l	1	BB62201	09-Feb-06	21-Feb-06	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	1.00	"	"	"	"	"	"	
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	10.0	"	"	"	"	"	"	

Pacific Analytical Laboratory



6620 Owens Drive, Suite AProject Number:2551Reported:Pleasanton CA, 94588Project Manager:Mansour Sepehr22-Feb-06 17:01

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (6020008-08) Water Sampled: 09-F	eb-06 10:45 Receive	ed: 09-Feb-0	6 17:23						
1,2-Dibromoethane (EDB)	ND	0.500	ug/l	1	BB62201	09-Feb-06	21-Feb-06	EPA 8260B	
Ethanol	ND	1000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	70	130	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	70-	130	"	"	"	"	
Surrogate: Perdeuterotoluene		98.8 %	70-	130	"	"	"	"	



6620 Owens Drive, Suite AProject Number: 2551Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr22-Feb-06 17:01

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Ratch	RR62201	FDA	5020	Water MS
Katen	BBOZZUL	- H.PA	711111	water vis

Blank (BB62201-BLK1)				Prepared & Ana	ılyzed: 22-Feb-06	
Surrogate: 4-Bromofluorobenzene	50.4		ug/l	50.0	101	70-130
Surrogate: Dibromofluoromethane	50.4		"	50.0	101	70-130
Surrogate: Perdeuterotoluene	49.7		"	50.0	99.4	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	10.0	"			
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	1.00	"			
o-xylene	ND	0.500	"			
Toluene	ND	2.00	"			
LCS (BB62201-BS1)				Prepared & Ana	ılyzed: 22-Feb-06	
Surrogate: 4-Bromofluorobenzene	48.8		ug/l	50.0	97.6	70-130
Surrogate: Dibromofluoromethane	47.0		"	50.0	94.0	70-130
Surrogate: Perdeuterotoluene	47.0		"	50.0	94.0	70-130
MTBE	107	0.500	"	100	107	70-130
ETBE	87.0	0.500	"	100	87.0	70-130
TAME	86.0	2.00	"	100	86.0	70-130
Gasoline (C6-C12)	2570	50.0	"	2000	128	70-130
TBA	384	10.0	"	500	76.8	70-130
Benzene	94.5	0.500	"	100	94.5	70-130
Toluene	93.7	2.00	"	100	93.7	70-130



6620 Owens Drive, Suite AProject Number: 2551Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr22-Feb-06 17:01

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BB62201 - EPA 5030 Water MS

LCS Dup (BB62201-BSD1)				Prepared & Ana	lyzed: 22-Feb-06				
Surrogate: 4-Bromofluorobenzene	49.0		ug/l	50.0	98.0	70-130			
Surrogate: Dibromofluoromethane	47.7		"	50.0	95.4	70-130			
Surrogate: Perdeuterotoluene	46.9		"	50.0	93.8	70-130			
MTBE	114	0.500	"	100	114	70-130	6.33	20	
ETBE	99.1	0.500	"	100	99.1	70-130	13.0	20	
TAME	95.1	2.00	"	100	95.1	70-130	10.0	20	
TBA	416	10.0	"	500	83.2	70-130	8.00	20	
Gasoline (C6-C12)	1850	50.0	"	2000	92.5	70-130	32.6	20	QR-02
Benzene	104	0.500	"	100	104	70-130	9.57	20	
Toluene	102	2.00	"	100	102	70-130	8.48	20	



6620 Owens Drive, Suite AProject Number: 2551Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr22-Feb-06 17:01

Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch

were accepted based on percent recoveries and completeness of QC data.

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

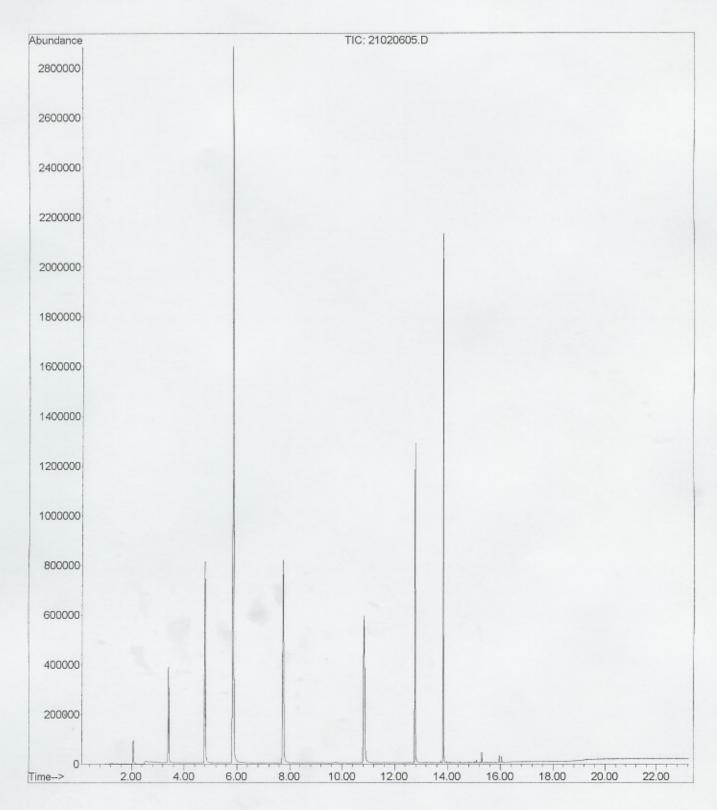
File :C:\MSDChem\1\DATA\2006-Feb-21-0924.b\21020605.D

Operator :

Acquired : 21 Feb 2006 11:41 am using AcqMethod OXY21506.M

Instrument : PAL GCMS Sample Name: BB62201-BLK1

Misc Info : Vial Number: 5

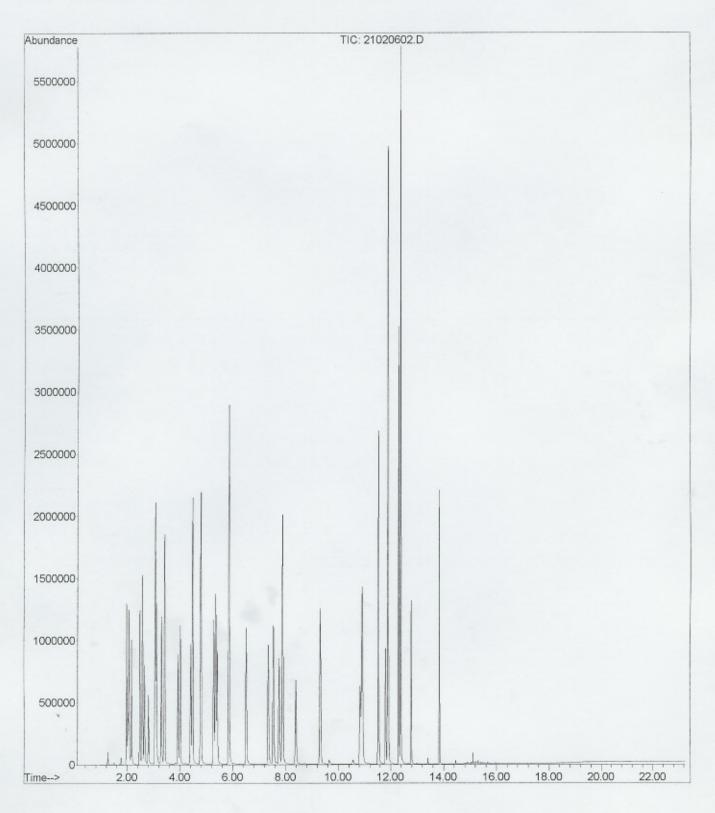


File :C:\MSDChem\1\DATA\2006-Feb-21-0924.b\21020602.D
Operator :
Acquired : 21 Feb 2006 10:08 am using AcqMethod OXY21506.M

Instrument : PAL GCMS

Sample Name: BB62201-BS1@voc

Misc Info : Vial Number: 2



File :C:\MSDChem\1\DATA\2006-Feb-21-0924.b\21020603.D

Operator :

Acquired : 21 Feb 2006 10:39 am using AcqMethod OXY21506.M Instrument : PAL GCMS

Sample Name: BB62201-BS1@gas

Misc Info : Vial Number: 3

