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December 29, 2005

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 "Fourth Quarter 2005 Groundwater Monitoring Report" for the subject property has been uploaded to the State's GeoTracker database 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





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FOURTH QUARTER 2005 GROUNDWATER MONITORING REPORT TEXACO GASOLINE SERVICE STATION 15101 FREEDOM AVENUE SAN LEANDRO, CALIFORNIA

December 29, 2005

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

SOMA Environmental Engineering, Inc.

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 Fourth Quarter 2005 groundwater monitoring event.

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



SOMA Environmental Engineering, Inc.

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 MEASUREMENTS2.2 LABORATORY ANALYSIS	2
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. November 2005.
- Figure 4: Contour map of TPH-g concentrations in groundwater. November 2005.
- Figure 5: Contour map of Benzene concentrations in groundwater. November 2005.
- Figure 6: Contour map of MtBE concentrations in groundwater (EPA Method 8260B). November 2005.
- Figure 7: Contour map of TBA concentrations in groundwater. November 2005.

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 Fourth Quarter 2005 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 Fourth Quarter 2005 groundwater monitoring event conducted at the Site on November 11, 2005. 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 November 11, 2005 groundwater monitoring event.

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 11.25 feet in well MW-9 to 25.30 feet in well MW-2. The corresponding groundwater elevations ranged from 27.11 feet in well MW-2 to 33.06 feet in well MW-1.

Figure 3 displays the contour map of groundwater elevations. The groundwater flow direction is south to southwesterly across the Site, at a gradient of 0.004 feet/feet.

The field measurements taken during the Fourth Quarter 2005 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 2,140 ug/L in well MW-2 to 47,700 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-2, MW-4, and MW-6, toluene was below the laboratory reporting limit. In wells MW-7 and MW-8, both benzene and toluene were below the laboratory reporting limit. In well 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 4,240 ug/L, 520 ug/L, 2,170 ug/L, and 6,320 ug/L, respectively.

Figure 5 displays a contour map of benzene concentrations in the groundwater. As illustrated in Figure 5, 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, when 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 0.79 ug/L in well MW-2 to 3,640 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. As illustrated in Figure 6, 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 all 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), Ethyl tertiary Butyl Ether (EtBE), 1,2-Dibromoethane (EDB), and Ethanol constituents 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 3.15 ug/L and MW-9 at 3.64 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, and MW-6 to MW-9. The highest TBA concentration was detected in well MW-4 at 884 ug/L. Figure 7 displays the contour map of TBA concentrations in the groundwater. As illustrated in Figure 7, 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 below the laboratory reporting limit in all of the groundwater samples, with the exception of the samples collected from wells MW-3 and MW-5. TAME was detected in wells MW-3 and MW-5 at 171 ug/L and 360 ug/L, respectively.

Appendix C includes the laboratory report and COC form for the Fourth Quarter 2005 monitoring event.

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

3.0 CONCLUSION AND RECOMMENDATIONS

The results of the Fourth Quarter 2005 groundwater monitoring event can be summarized as follows:

- The groundwater flow direction has remained in a south to southwesterly direction throughout the Site and at a consistent gradient of 0.004 feet/feet.
- 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, high TPH-g concentrations were detected in both off-site wells MW-6 and MW-7. Since the previous monitoring event, TPH-g has increased in both wells MW-6 and MW-7. This denotes that the site hydrocarbon source has affected the immediate off-site regions.

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

- To effectively remediate the source area, especially in the vicinity of the UST cavity, SOMA recommends initiating interim groundwater remediation on-site.
- Continuing the quarterly monitoring programs to better understand the seasonal variations in the groundwater quality conditions.
- Conducting a site investigation to determine the horizontal and vertical extent of the soil and groundwater contamination in the source region and immediate residential locations.

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





	approximate scale in feet						
0	150	300					

















Tables

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

Monitoring Well	Date	Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg1)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (μg/L)	Fotal Xylenes (μg/L)	МtВЕ 8260В 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
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
	Nov-05	53.91	22.81	31.10	47,700	4,240	520	2,170	6,320	1,390

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

Monitoring Well	Date	Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	(µq1)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (μg/L)	Total Xylenes (µg/L)	MtBE 8260Β 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
				•		·				
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
						r				0.1
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 E1 4	0.0
1	Mar-05	44.74	11.46	33.28	2,230	<2.5	<2.5	39.4 50.6	21.0	12.4
	Jun-05	44.74	12.97	31.//	2,940	0.80	~2.0	55.7	29.6	4 01
	Aug-05	44.74	14.10	30.04	3 030	<0.00	<2.0	66.5	42.3	9.76
	NOV-05	L 44./4	14.59	L 30.13	3,030		-2.0			L
BANA/ O	Son 04	A1 1A	12.08	28.16	<50	<0.5	<0.5	<0.5	<0.5	< 0.5
14144-0	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
1	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

Monitoring Well	Date	Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-q (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzono (µg/L)	Total Xylenes (μg/L)	MtBE 8260В 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

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.

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

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

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

<: Not detected above the laboratory reporting limit.

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

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

H: Heavier hydrocarbons contributed to the quantitation.

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

NM: Not Measured. Well MW-8 was inaccessible during the First Quarter 2005, 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	Dete	ТВА	DIPE	ETBE	TAME
Well	Date	(μg/L)	(µg/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
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

Table 2

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

Monitoring	I	ТВА	DIPE	ETBE	TAME
Well	Date	(μg/L)	(µg/L)	(µg/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
		1500	-47	~17	10
MW-4	Aug-02	1500	<u> </u>	>1/ 6	10
	NOV-02	580	< 0.0	0	<20
	Feb-U3	000	~20	22 29 2	17
	May-03	090 550	<0.3 -7 1	<u>∼0.3</u> 7.2	12
	Aug-03	000 1400	~21	7.3 50	10 <21
		1400	<	25	21
	Jan-04 Mov 04	1,300	~20	20 <8 3	21
	Nay-04	1 200	~0.0	~5.5	<u>~</u> 7 <50
	Sep-04	1,300 826	<10.75	~30 21	_30 ⊿Q
-	Mor 05	1 110	<10.75	12.1	
	lup-05	<110	<5.5	<5.5	22.9
	Δμα-05	902	<5.50	<5.50	37.4
	Nov-05	884	<10.8	<10.8	<43
					•
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

Table 2

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

Monitoring Well	Date	TBA (ug/L)	DIPE (ug/L)	ETBE (µg/L)	TAME (μg/L)
		(r-3 ^{, -} /	(r.a/		,
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
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
		an da sa sa sa			
MW-8	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
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

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 First Quarter 2005, car was parked over 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 November 11, 2005, 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 four off-site wells (MW-6 to MW-9) were monitored. 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.

PLS 5132



SURVEY REPORT 15101 FREEDOM AVE SAN LEANDRO, CA.

HARRINGTON SURVEYS INC.

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

JOB NO. 2445 DATE: OCT. 12, 2004

	NAD 83	NAD 83	NAVD 88	3	NORTH	WEST
PT	NORTH (sft)	EAST(sft)	ELEV.	DESCRIPTION	LATITUDE (DMS)	LONGITUDE (DMS)
1	2087731.02	6094039.23	442.77	FD CHABOT B	37°43'02.71762"	122°07'00.46339"
2	2088584.99	6093351.39	492.08	FD CHABOT A	37°43'11.04190"	122°07'09.20691"
51	2084348.54	6092159.32	55.44	FD. X-8		
52	2084073.17	6092141.24	46.15	MW-6 PAV		
53	2084072.72	6092140.95	46.15	MW-6 PUNCH		
54	2084072.47	6092140.95	45.82	MW-6 NOTCH	37°42'26.22635"	122°07'23.29643
55	2083909.71	6091947.10	40.61	MW-9 PAV		
56	2083909.10	6091946.97	40.61	MW-9 PUNCH		
57	2083908.71	6091947.00	40.26	MW-9 NOTCH	37°42'24.57425"	122°07'25.67431"
58	2083861.20	6092118.11	41.38	MW-8 PAV		
59	2083860.43	6092118.36	41.44	MW-8 PUNCH		
60	2083860.03	6092118.52	41.14	MW-8 NOTCH	37°42'24.12245"	122°07'23.52966"
61	2084008.21	6092290.11	44.94	MW-7 PAV		
62	2084007.88	6092290.27	44.95	MW-7 PVNCH		
63	2084007.68	6092290.40	44.74	MW-7 NOTCH	37°42'25.61150"	122°07'21.42290"
64	2084206.49	6092175.95	51.03	MW-5 PAV		
65	2084206.17	6092176.55	50.96	MW-5 PUNCH		
66	2084206.01	6092176.79	50.53	MW-5 NOTCH	37°42'27.55260	122°07'22.87930
67	2084670.41	6092307.68	69.79	FD BM FAIR580		
68	2084443.65	6092198.88	53.70	MW-4 PAV		
69	2084444.39	6092199.72	53.74	MW-4 PUNCH		
70	2084444.59	6092199.51	53.31	MW-4 NOTCH	37°42'29.91496"	122°07'22.64809"
71	2084399.10	6092145.43	54.37	MW-3 PAV		
72	2084399.78	6092145.28	54.33	MW-3 PUNCH		
73	2084400.15	6092145.27	53.91	MW-3 NOTCH	37°42'29.46636"	122°07'23.31339"
74	2084329.47	6092199.72	54.82	MW-1 PAV		
75	2084330.44	6092199.45	54.79	MW-1 PUNCH		
76	2084330.75	6092199.20	54.46	MW-1 NOTCH	37°42'28.78955"	122°07'22.62738"
77	2084367.59	6092256.38	52.88	MW-2 PAV		
78	2084368.15	6092256.14	52.92	MW-2 PUNCH		
79	2084368.53	6092256.06	52.41	MW-2 NOTCH	37°42'29.17277"	122°07'21.92804"
80	2084930.49	6091759.33	58.50	FD BM K1256	37°42'34.64279"	122°07'28.23011"
					NSED LAND S	UN
					ISAN MAR	A CON
				-	15.1	ACT 1
		1			1 PALI	121
			1		12132	That
			1		W X	11



14



Well No.:	Mar-1		Ŧ	Project No.: 2551
Casing Diameter:	<u> </u>			Address: 15101 Freedom Ave.
Depth of Well:	30.50 ft			San Leandro, CA
Top of Casing Elevation:	<u>54.46</u> ft			Date: November 11, 2005
Depth to Groundwater:	21.40 ft			Sampler: Tony Perini
Groundwater Elevation:	<u>33.06</u> ft			Mehran Nowroozi
Water Column Height:	9.10 ft			
Purged Volume:	<u>9.0</u> gallons			
Purging Method:	Bailer 🗆			Pump 🔄
Sampling Method:	Bailer 🗹			Pump 🗆
Color:	No 🖙	Yes		Describe
Sheen:	No 🗹	Yes		Describe
Odor:	No 🗹	Yes		Describe

Field Measurements:

Time	Voiume	D.O.	pН	Temp	E.C.	Turb.	ORP
	(gallons)	mg/L		°C	(µS/cm)	NTU	
1:40 pm	Star	to po	wging	well			
1:42 PM	2.5	3.97	6.68	20.98	12.80	308	-70
1:46 PM	6.0	4.10	6.33	21.08	1260	242	-75-
1:50 FM	9.0	5.25	631	21.04	1280	237	-80
1:55 PM	San	pleo					



Well No.:	MW-2		I	Project No.: 2551
Casing Diameter:	inch			Address: 15101 Freedom Ave.
Depth of Well:	<u>30.15</u> ft			San Leandro, CA
Top of Casing Elevation:	<u>52.41</u> ft			Date: November 11, 2005
Depth to Groundwater:	<u>25.30</u> ft			Sampler: Tony Perini
Groundwater Elevation:	27-11 ft			Mehran Nowroozi
Water Column Height:	4.85 ft			
Purged Volume:	/2 gallons			
Purging Method:	Bailer 🗆			Pump 2
Sampling Method:	Bailer 🗹			Pump 🗆
Color:	No 🖙	Yes		Describe
Sheen:	No 🗗	Yes		Describe
Odor:	No 🗹	Yes		Describe

Field Measurements:

Time	Volume	D.O.	рН	Temp	E.C.	Turb.	ORP
	(gallons)	mg/L		°C	(µS/cm)	NTU	
1:14 Pm	Sta	rtes p	unging	nell			
1:16 PM	3.0	4.09	6.71	20.92	1480	249	2
1:20 Pm	6.0	4.09	6.48	21.07	1440	247	-57
1:26 PM	12	5.65	6.40	21.02	1450	254	-86
1:30 Pm	Sam	ples					



Well No.:	MW-3				Project No.: 2551		
Casing Diameter:		<u>/</u> inch			Address:	15101 Freedom Ave.	
Depth of Well:	29.	<u>90</u> ft				San Leandro, CA	
Top of Casing Elevation:	53	<u>. 91</u> ft			Date:	November 11, 2005	
Depth to Groundwater:	_22	<u>., 87_</u> ft			Sampler:	Tony Perini	
Groundwater Elevation:	31.	<u>/0</u> ft				Mehran Nowroozi	
Water Column Height:	7.	<i>09</i> _ft					
Purged Volume:	8	gallons					
Purging Method:	Baile	r 🗆			Pump 🖃	-	
Sampling Method:	Baile	r 🗹			Pump 🗆		
Color:	No		Yes		Describe		
Sheen:	No	ď	Yes		Describe		
Odor:	No	ď	Yes		Describe		

Field Measurements:

Time	Volume	D.O.	рН	Temp	E.C.	Turb.	ORP
	(gallons)	mg/L		°C	(µS/cm)	NTU	
3:18 Pm	Sta	ves p	niging	nell			
3:23 PM	4.0	3.48	6.49	2-1.45	1410	336	-68
3.27 PM	8.0	6.87	6.45	21.33	1410	355	-78
3:30 FM	San	up les					



Well No.:	M	c-4		Project No.:	2551
Casing Diameter:		1inch		Address:	15101 Freedom Ave.
Depth of Well:	30	20 ft			San Leandro, CA
Top of Casing Elevation:	53	<u>31</u> ft		Date:	November 11, 2005
Depth to Groundwater:	22.	HB _ft		Sampler:	Tony Perini
Groundwater Elevation:	30.	<u>88</u> ft			Mehran Nowroozi
Water Column Height:	7.	77 ft			
Purged Volume:		gallons			
Purging Method:	Baile	· 🗆		Pump 🗹	-
Sampling Method:	Baile			Pump 🗆	
Color:	No		Yes	Describe	
Sheen:	No		Yes	Describe	
Odor:	No		Yes	Describe	

Field Measurements:

Time	Voiume	D.O.	рН	Temp	E.C.	Turb.	ORP
	(gallons)	mg/L		°C	(µS/cm)	NTU	
2:08 pm	sta	the pu	ug may	ue il			
2:13 PM	4.0	3.86	6.39	20.42	1620	237	-43
2:19 PM	9	6.55	6.36	20.40	1630	239	-52
2:23 PM	San	nples					



Well No.:	mu-	5		F	Project No.:	2551
Casing Diameter:	4	inch			Address:	15101 Freedom Ave.
Depth of Well:	29.80	ft				San Leandro, CA
Top of Casing Elevation:	50.53	ft			Date:	November 11, 2005
Depth to Groundwater:	19:75	ft			Sampler:	Tony Perini
Groundwater Elevation:	30.78	ft				Mehran Nowroozi
Water Column Height:	10.05	ft				
Purged Volume:	14	gallons				
Purging Method:	Bailer 🗆				Pump 🕞	_
Sampling Method:	Bailer 🗗	-			Pump 🗆	
Color:	No 🖙	-	Yes		Describe	
		_				· · · · · · · · · · · · · · · · · · ·
Sheen:	No 🗠	-	Yes		Describe	
Odor:	No 🗹	** **	Yes		Describe	

Field Measurements:

Time	Voiume	D.O.	pН	Temp	E.C.	Turb.	ORP
	(gallons)	mg/L		°C	(µS/cm)	NTU	
2:45 pm	sta	who p	us ging	well			
2:47 BM	1.5	3.30	6.95	21.05	1280	488	-26
2:50 pm	4	4.96	6.54	21.26	1290	265	-64
2:56 11	\$	5.30	6.42	21.32	1310	238	-76
3:01 PM	14	6.60	6.41	21.34	1310	241	-83
3:05 (m	(an	yles					
		/					



	M	N-6						
Well No.:	-	· · ·		I	Project No.: 2551			
Casing Diameter:		<u>4</u> inch			Address: 15101 Freedom Ave.			
Depth of Well:	2	<u>7,30</u> ft			San Leandro, CA			
Top of Casing Elevation:	45.	<u>82</u> ft			Date: November 11, 2005			
Depth to Groundwater:	16.55 ft				Sampler: Tony Perini			
Groundwater Elevation:	29.	27 ft			Mehran Nowroozi			
Water Column Height:	[0.	75 ft						
Purged Volume:		gallons						
Purging Method:	Baile	r 🗆			Pump 🗠			
Sampling Method:	Baile	r 🗹			Pump 🗆			
Color:	No		Yes		Describe			
Sheen:	No		Yes		Describe			
Odor:	No		Yes		Describe			

Field Measurements:

Time	Voiume	D.O.	pН	Temp	E.C.	Turb.	ORP
	(gallons)	mg/L		°C	(µS/cm)	NTU	
10:42 AM	sta	when t	rugin	g well			
10: 44 Am	2.5	2.80	6.36	22.15	888	199	-33
10:47 Am	6.0	2.14	6.22	22.17	889	579	-65
10:50 Am	10	4.65	6.22	22.14	891	410	-77
10:53 Am	Sam	Ales					



Well No.:	MW-T	7		I	Project No.:	2551
Casing Diameter:	2	inch			Address:	15101 Freedom Ave.
Depth of Well:	_ 21	ft				San Leandro, CA
Top of Casing Elevation:	44.74	ft			Date:	November 11, 2005
Depth to Groundwater:	14.59	ft			Sampler:	Tony Perini
Groundwater Elevation:	30.15	ft				Mehran Nowroozi
Water Column Height:	6.41	ft				
Purged Volume:	9	gallons				
Purging Method:	Bailer 🗆				Pump 🗹	-
Sampling Method:	Bailer 🗹	-			Pump 🗆	
Color:	No 🛛	-	Yes		Describe	
Sheen:	No 🗹		Yes		Describe	
Odor:	No 🕑		Yes		Describe	

Field Measurements:

Time	Voiume	D.O.	pН	Temp	E.C.	Turb.	ORP
	(gallons)	mg/L		°C	(µS/cm)	NTU	
11:23 Am	sta.	tes p	waitig	well			
11:26 Am	3.5	3.83	6.37	19-18	1320	290	-26
11:29 AM	6	4.20	6.25	19.96	1320	257	-42
11:31 AM	9	5.51	6.22	19.92	1320	340	-49
11:35 Ann	San	up/es					
		•					



Well No.:	Mu-8		F	Project No.: 2551
Casing Diameter:	inch			Address: 15101 Freedom Ave.
Depth of Well:	28.15 ft			San Leandro, CA
Top of Casing Elevation:	<u> </u>			Date: November 11, 2005
Depth to Groundwater:	11.92 ft			Sampler: Tony Perini
Groundwater Elevation:	<u>2% 22 ft</u>			Mehran Nowroozi
Water Column Height:	16.83 ft			
Purged Volume:	gallons			
Purging Method:	Bailer 🗆			Pump 🗹
Sampling Method:	Bailer 🗹			Pump 🗆
Color:	No 🗹	Yes		Describe
Sheen:	No 🛛	Yes		Describe
Odor:	No 🕑	Yes		Describe

Field Measurements:

Time	Voiume	D.O.	pН	Temp	E.C.	Turb.	ORP
	(gallons)	mg/L		°C	(µS/cm)	NTU	_
11:03 AM	sta	rks p	wiging	well			
11:06 Am	4.0	4-54	6.55	20.10	1390	682	26
11:09 AM	8.0	3.32	6.54	20.08	1410	351	21
11:12 AM XAM	Pier						



Well No.:	MW-1		Project No.: 2551
Casing Diameter:	inch		Address: 15101 Freedom Ave.
Depth of Well:	<u>32.55</u> ft		San Leandro, CA
Top of Casing Elevation:	40.26 ft		Date: November 11, 2005
Depth to Groundwater:	11.25 ft		Sampler: Tony Perini
Groundwater Elevation:	29.01 ft		Mehran Nowroozi
Water Column Height:	21,30 ft		
Purged Volume:	2.0 gallons		
Purging Method:	Bailer 🗆		Pump 🛛
Sampling Method:	Bailer I		Pump 🗆
Color:	No 🗆	Yes 🗗	Describe cloudy
Sheen:	No 🖬	Yes 🗆	Describe
Odor:	No 🗹	Yes 🗆	Describe

Field Measurements:

Time	Volumo	DO	nU	T	50		
	volume	D.0.	рп	remp	E.C.	i urb.	ORP
	(gallons)	mg/L		°C	(µS/cm)	NTU	
10:02 AM	star	Ko pi	UN ATTE	well.			
10:06 Ang	3.0	6.75	5.69	20.20	1230	292	159
10:09 AM	6.0	5.58	5.92	20.12	1230	270	148
10:12 And	10	4.36	6.04	19.87	1220	2.89	138
10:17 AM	14	3.42	4.22	19.70	1180	372	130
10:21 AM	17	4.66	6.30	19.68	1200	559	127
10:27 Am	20	4.52	6.33	19.6.8	1200	412	123
10:30 AM	San	mples					i

Appendix C

Laboratory Report and Chain of Custody Form for the Fourth Quarter 2005 Monitoring Event



16 November 2005

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

RE: 15101 Freedom Ave., San Leandro

Work Order Number: 5110005

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,

Mapd Ach

Maiid Akhavan Laboratorv Director



SOMA Environmental Engineering Inc.Project:15101 Freedom Ave., San Leandro6620 Owens Drive, Suite AProject Number:2551Reported:Pleasanton CA, 94588Project Manager:Mansour Sepehr16-Nov-05 12:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	5110005-01	Water	11-Nov-05 13:55	11-Nov-05 16:58
MW-2	5110005-02	Water	11-Nov-05 13:30	11-Nov-05 16:58
MW-3	5110005-03	Water	11-Nov-05 15:30	11-Nov-05 16:58
MW-4	5110005-04	Water	11-Nov-05 14:23	11-Nov-05 16:58
MW-5	5110005-05	Water	11-Nov-05 15:05	11-Nov-05 16:58
MW-6	5110005-06	Water	11-Nov-05 10:53	11-Nov-05 16:58
MW-7	5110005-07	Water	11-Nov-05 11:35	11-Nov-05 16:58
MW-8	5110005-08	Water	11-Nov-05 11:12	11-Nov-05 16:58
MW-9	5110005-09	Water	11-Nov-05 10:30	11-Nov-05 16:58

Pacific Analytical Laboratory



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

Reported: 16-Nov-05 12:51

Volatile Organic Compounds by EPA Method 8260B

	Pacific Analytical Laboratory									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
MW-1 (5110005-01RE1) Water S	ampled: 11-Nov-05 13:55	Received: 11-N	Nov-05 16	:58						
Gasoline (C6-C12)	9640	215	ug/l	4.3	BK51401	11-Nov-05	16-Nov-05	EPA 8260B		
Benzene	341	2.15	"	"	"	"		"		
Ethylbenzene	467	2.15	"	"	"	"		"		
m&p-Xylene	287	4.30	"	"	"	"		"		
o-xylene	42.7	2.15	"	"	"	"		"		
Toluene	ND	8.60	"	"	"	"		"		
MTBE	6.04	2.15	"	"	"			"		
DIPE	ND	2.15	"	"	"	"		"		
ETBE	ND	2.15	"	"	"	"		"		
TAME	ND	8.60	"	"	"	"		"		
ТВА	46.0	43.0	"	"	"			"		
1,2-dichloroethane	3.15	2.15	"	"	"			"		
1,2-Dibromoethane (EDB)	ND	2.15	"	"	"	"		"		
Ethanol	ND	4300	"	"	"	"	"	"		
Surrogate: 4-Bromofluorobenzene		101 %	70-	-130	"	"	"	"		
Surrogate: Dibromofluoromethane		95.6 %	70-	-130	"	"	"	"		
Surrogate: Perdeuterotoluene		97.4 %	70-	-130	"	"	"	"		
MW-2 (5110005-02) Water Samp	led: 11-Nov-05 13:30 Rec	ceived: 11-Nov-()5 16:58							
Gasoline (C6-C12)	2140	50.0	ug/l	1	BK51401	11-Nov-05	11-Nov-05	EPA 8260B		
Benzene	1.08	0.500	"	"	"	"		"		
Ethylbenzene	104	0.500	"	"	"	"		"		
m&p-Xylene	29.0	1.00	"	"	"	"		"		
o-xylene	ND	0.500	"	"	"			"		
Toluene	ND	2.00	"	"	"	"		"		
MTBE	0.790	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		98.6 %	70-	-130	"	"	"	"		

Pacific Analytical Laboratory



Project Number: 2551 Project Manager: Mansour Sepehr **Reported:** 16-Nov-05 12:51

Volatile Organic Compounds by EPA Method 8260B

Project: 15101 Freedom Ave., San Leandro

Pacific Analytical Laboratory

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (5110005-02) Water Samp	led: 11-Nov-05 13:30 Recei	ved: 11-Nov-()5 16:58						
Surrogate: Dibromofluoromethane		91.6 %	70-	-130	BK51401	11-Nov-05	11-Nov-05	EPA 8260B	
Surrogate: Perdeuterotoluene		98.0 %	70-	-130	"	"	"	"	
MW-3 (5110005-03) Water Samp	led: 11-Nov-05 15:30 Recei	ved: 11-Nov-(05 16:58						
Gasoline (C6-C12)	47700	2150	ug/l	43	BK51401	11-Nov-05	11-Nov-05	EPA 8260B	
Benzene	4240	21.5	"	"	"	"	"	"	
Ethylbenzene	2170	21.5	"	"	"	"	"	"	
m&p-Xylene	3710	43.0	"	"	"	"	"	"	
o-xylene	2610	21.5	"	"	"	"		"	
Toluene	520	86.0	"	"	"	"	"	"	
MTBE	1390	21.5	"	"	"	"	"	"	
DIPE	ND	21.5	"	"	"	"		"	
ETBE	ND	21.5	"	"	"	"	"	"	
ТАМЕ	171	86.0	"	"	"	"		"	
TBA	ND	430	"	"	"	"		"	
1,2-dichloroethane	ND	21.5	"	"	"	"		"	
1,2-Dibromoethane (EDB)	ND	21.5	"	"	"	"		"	
Ethanol	ND	43000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	70-	-130	"	"	"	"	
Surrogate: Dibromofluoromethane		94.4 %	70-	-130	"	"	"	"	
Surrogate: Perdeuterotoluene		98.0 %	70-	-130	"	"	"	"	

MW-4 (5110005-04) Water Sampled: 11-Nov-05 14:23 Received: 11-Nov-05 16:58

Gasoline (C6-C12)	9990	1080	ug/l	21.5	BK51401	11-Nov-05	11-Nov-05	EPA 8260B	
Benzene	356	10.8	"	"	"	"	"	"	
Ethylbenzene	196	10.8	"	"	"	"	"	"	
m&p-Xylene	566	21.5	"	"	"	"	"	"	
o-xylene	134	10.8	"	"	"	"	"	"	
Toluene	ND	43.0	"	"	"	"	"	"	
MTBE	3640	10.8	"	"	"	"	"	"	
DIPE	ND	10.8	"	"	"	"	"	"	
ETBE	ND	10.8	"	"	"	"	"	"	
TAME	ND	43.0	"	"	"	"	"	"	
TBA	884	215	"	"	"	"	"	"	
1,2-dichloroethane	ND	10.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10.8	"	"	"	"	"	"	
Ethanol	ND	21500	"		"	"	"	"	

Pacific Analytical Laboratory



Project Number: 2551 Project Manager: Mansour Sepehr

Project: 15101 Freedom Ave., San Leandro

Reported: 16-Nov-05 12:51

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (5110005-04) Water Sampled: 11-Nov-05	14:23 Receiv	ed: 11-Nov-()5 16:58						
Surrogate: 4-Bromofluorobenzene		<i>97.2 %</i>	70-1.	30	BK51401	11-Nov-05	11-Nov-05	EPA 8260B	
Surrogate: Dibromofluoromethane		94.8 %	70-1.	30	"	"	"	"	
Surrogate: Perdeuterotoluene		98.2 %	70-1.	30	"	"	"	"	

MW-5 (5110005-05) Water Sampled: 11-Nov-05 15:05 Received: 11-Nov-05 16:58

Gasoline (C6-C12)	10000	550	ug/l	11	BK51401	11-Nov-05	11-Nov-05	EPA 8260B	
Benzene	443	5.50	"	"	"	"		"	
Ethylbenzene	527	5.50	"	"	"	"		"	
m&p-Xylene	243	11.0	"	"	"	"	"	"	
o-xylene	35.5	5.50	"	"	"	"	"	"	
Toluene	41.5	22.0	"	"	"	"	"	"	
MTBE	1430	5.50	"	"	"	"	"	"	
DIPE	ND	5.50	"	"	"	"		"	
ETBE	ND	5.50	"	"	"	"		"	
TAME	360	22.0	"	"	"	"		"	
TBA	192	110	"	"	"	"		"	
1,2-dichloroethane	ND	5.50	"	"	"	"		"	
1,2-Dibromoethane (EDB)	ND	5.50	"	"	"	"	"	"	
Ethanol	ND	11000	"	"	"	"	"		
Surrogate: 4-Bromofluorobenzene		97.6 %	70-	-130	"	"	"	"	
Surrogate: Dibromofluoromethane		92.4 %	70-	-130	"	"	"	"	
Surrogate: Perdeuterotoluene		97.2 %	70-	-130	"	"	"	"	

MW-6 (5110005-06) Water Sampled: 11-Nov-05 10:53 Received: 11-Nov-05 16:58

Gasoline (C6-C12)	11400	215	ug/l	4.3	BK51401	11-Nov-05	11-Nov-05	EPA 8260B	
Benzene	101	2.15	"	"	"	"	"	"	
Ethylbenzene	645	2.15	"	"	"	"	"	"	
m&p-Xylene	811	4.30	"	"	"	"	"	"	
o-xylene	23.7	2.15	"	"	"	"	"	"	
Toluene	ND	8.60	"	"	"	"	"	"	
MTBE	4.33	2.15	"	"	"	"	"	"	
DIPE	ND	2.15	"	"	"	"	"	"	
ETBE	ND	2.15	"	"	"	"	"	"	
TAME	ND	8.60	"	"	"	"	"	"	
TBA	ND	43.0	"	"	"	"	"	"	
1,2-dichloroethane	ND	2.15	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.15	"	"	"	"	"	"	

Pacific Analytical Laboratory



Project Number: 2551 Project Manager: Mansour Sepehr **Reported:** 16-Nov-05 12:51

Volatile Organic Compounds by EPA Method 8260B

Project: 15101 Freedom Ave., San Leandro

Pacific Analytical Laboratory

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (5110005-06) Water Sampled: 11-N	Nov-05 10:53 Recei	ved: 11-Nov-0)5 16:58						
Ethanol	ND	4300	ug/l	4.3	BK51401	11-Nov-05	11-Nov-05	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		99.8 %	70-1	30	"	"	"	"	
Surrogate: Dibromofluoromethane	93.0 %	70-130		"	"	"	"		
Surrogate: Perdeuterotoluene		96.6 %	70-1	30	"	"	"	"	

MW-7 (5110005-07) Water Sampled: 11-Nov-05 11:35 Received: 11-Nov-05 16:58

Gasoline (C6-C12)	3030	50.0	ug/l	1	BK51401	11-Nov-05	11-Nov-05	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	66.5	0.500	"	"	"	"	"	"	
m&p-Xylene	42.3	1.00	"	"	"	"		"	
o-xylene	ND	0.500	"	"	"	"		"	
Toluene	ND	2.00	"	"	"	"		"	
MTBE	9.76	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		91.6 %	70-	130	"	"	"	"	
Surrogate: Perdeuterotoluene		98.6 %	70-	130	"	"	"	"	

MW-8 (5110005-08) Water Sampled: 11-Nov-05 11:12 Received: 11-Nov-05 16:58

ND	50.0	ug/l	1	BK51401	11-Nov-05	11-Nov-05	EPA 8260B	
ND	0.500	"	"	"	"	"	"	
1.36	0.500	"	"	"	"		"	
1.80	1.00	"	"	"	"		"	
ND	0.500	"	"	"	"		"	
ND	2.00	"	"	"	"		"	
ND	0.500	"	"	"	"		"	
ND	0.500	"	"	"	"		"	
ND	0.500	"	"	"	"		"	
ND	2.00	"	"	"	"	"	"	
ND	10.0	"	"	"	"	"	"	
ND	0.500	"	"	"	"	"	"	
	ND ND 1.36 1.80 ND ND ND ND ND ND ND ND	ND 50.0 ND 0.500 1.36 0.500 1.80 1.00 ND 0.500 ND 2.00 ND 0.500 ND 0.500 ND 0.500 ND 0.500 ND 2.00 ND 2.00 ND 2.00 ND 10.0 ND 0.500	ND 50.0 ug/l ND 0.500 " 1.36 0.500 " 1.80 1.00 " ND 0.500 " ND 2.00 " ND 2.00 " ND 10.0 " ND 10.0 " ND 0.500 "	ND 50.0 ug/l 1 ND 0.500 " " 1.36 0.500 " " 1.36 0.500 " " 1.80 1.00 " " ND 0.500 " " ND 10.0 " " ND 0.500 " "	ND 50.0 ug/l 1 BK51401 ND 0.500 " " " " 1.36 0.500 " " " " 1.36 0.500 " " " " 1.36 0.500 " " " " 1.80 1.00 " " " " ND 0.500 " " " " ND 2.00 " " " " ND 10.0 " " " " ND 0.500 " " " "	ND 50.0 ug/l 1 BK51401 11-Nov-05 ND 0.500 "<	ND 50.0 ug/l 1 BK51401 11-Nov-05 11-Nov-05 ND 0.500 " ND 0.500 " " " " " ND 0.500 " " " " " " ND ND 0.500 " " " " " <	ND 50.0 ug/l 1 BK51401 11-Nov-05 11-Nov-05 EPA 8260B ND 0.500 "

Pacific Analytical Laboratory



SOMA Environmental Engineering Inc. 6620 Owens Drive, Suite A

Pleasanton CA, 94588

Project Number: 2551 Project Manager: Mansour Sepehr

Project: 15101 Freedom Ave., San Leandro

Reported: 16-Nov-05 12:51

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (5110005-08) Water Sampled: 11-No	w-05 11:12 Rece	ived: 11-Nov-(5 16:58						
1,2-Dibromoethane (EDB)	ND	0.500	ug/l	1	BK51401	11-Nov-05	11-Nov-05	EPA 8260B	
Ethanol	ND	1000		"		"	"		
Surrogate: 4-Bromofluorobenzene		92.2 %	70-	130	"	"	"	"	
Surrogate: Dibromofluoromethane	96.8 %	70-130		"	"	"	"		
Surrogate: Perdeuterotoluene		97.0 %	70-	130	"	"	"	"	

MW-9 (5110005-09) Water Sampled: 11-Nov-05 10:30 Received: 11-Nov-05 16:58

Gasoline (C6-C12)	ND	50.0	ug/l	1	BK51401	11-Nov-05	12-Nov-05	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	3.64	0.500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"		"	
Ethanol	ND	1000		"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %	70-	130	"	"	"	"	
Surrogate: Dibromofluoromethane		98.0 %	70-	130	"	"	"	"	
Surrogate: Perdeuterotoluene		96.8 %	70-	130	"	"	"	"	



SOMA Environmental Engineering Inc.	Project: 15101 Freedom Ave., San Leandro	
6620 Owens Drive, Suite A	Project Number: 2551	Reported:
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	16-Nov-05 12:51

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 BK51401 - EPA 5030 Water MS										
Blank (BK51401-BLK1)				Prepared &	Analyzed:	14-Nov-05				
Surrogate: 4-Bromofluorobenzene	45.4		ug/l	50.0		90.8	70-130			
Surrogate: Dibromofluoromethane	49.5		"	50.0		99.0	70-130			
Surrogate: Perdeuterotoluene	48.2		"	50.0		96.4	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 (BK51401-BS1)				Prepared &	Analyzed:	14-Nov-05				
Surrogate: 4-Bromofluorobenzene	48.4		ug/l	50.0		96.8	70-130			
Surrogate: Dibromofluoromethane	48.2		"	50.0		96.4	70-130			
Surrogate: Perdeuterotoluene	49.4		"	50.0		98.8	70-130			
MTBE	96.2	0.500	"	100		96.2	70-130			
ETBE	84.8	0.500	"	100		84.8	70-130			
TAME	74.1	2.00	"	100		74.1	70-130			
Gasoline (C6-C12)	1650	50.0	"	2000		82.5	70-130			
TBA	502	10.0	"	500		100	70-130			
Benzene	101	0.500	"	100		101	70-130			
Toluene	100	2.00	"	100		100	70-130			



SOMA Environmental Engineering Inc.Project:15101 Freedom Ave., San Leandro6620 Owens Drive, Suite AProject Number:2551Reported:Pleasanton CA, 94588Project Manager:Mansour Sepehr16-Nov-05 12:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

Analyte Batch BK51401 - EPA 5030 Water MS	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BK51401-BSD1)				Prepared &	Analyzed:	14-Nov-05	;			
Surrogate: 4-Bromofluorobenzene	47.6		ug/l	50.0		95.2	70-130			
Surrogate: Dibromofluoromethane	48.0		"	50.0		96.0	70-130			
Surrogate: Perdeuterotoluene	49.8		"	50.0		99.6	70-130			
MTBE	97.3	0.500	"	100		97.3	70-130	1.14	20	
ETBE	85.6	0.500	"	100		85.6	70-130	0.939	20	
TAME	76.1	2.00	"	100		76.1	70-130	2.66	20	
TBA	430	10.0	"	500		86.0	70-130	15.5	20	
Gasoline (C6-C12)	1550	50.0	"	2000		77.5	70-130	6.25	20	
Benzene	106	0.500	"	100		106	70-130	4.83	20	
Toluene	106	2.00	"	100		106	70-130	5.83	20	



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

Reported: 16-Nov-05 12:51

Notes and Definitions

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\2005-Nov-10-1400.b\10110505.D
Operator :
Acquired : 11 Nov 2005 1:57 pm using AcqMethod VOCOXY.M
Instrument : PAL GCMS
Sample Name: BK51401-BLK1
Misc Info :
Vial Number: 5
```



```
File :C:\MSDChem\1\DATA\2005-Nov-10-1400.b\10110503.D
Operator :
Acquired : 11 Nov 2005 12:13 pm using AcqMethod VOCOXY.M
Instrument : PAL GCMS
Sample Name: BK51401-BS1@voc
Misc Info :
Vial Number: 3
```



```
File :C:\MSDChem\1\DATA\2005-Nov-10-1400.b\10110504.D
Operator :
Acquired : 11 Nov 2005 1:04 pm using AcqMethod VOCOXY.M
Instrument : PAL GCMS
Sample Name: BK51401-BS1@gas
Misc Info :
Vial Number: 4
```



CHAIN OF CUSTODY FORM

Page / of /

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

PAL Login# 510005

Projec	t No: 2551			Sa	nple	er: .	Tony,	PER	21.2	1	In	abran 1	louroozi	Analyses/Method				
Projec	t Name: 15101 F San Le	Freedom Ave	enue	Report To: Tony Perini											nates ers			
				Co	mpa	any:	SOMA En	viror	me	ntal	Engi	neering, Inc.		×	yge			
ſurna	round Time: St	tandard		Tel Fa:	l: x:	925 925	-244-6600 -244-6601							-g, BTE	dine Ox d Scave			
Sampling Date/Tin			Date/Time	Matrix		# of Containers	Preservatives						TPH	Gaso & Lea				
Lab No.	Sample ID	Date	Time	Soil	Water	Waste		HCL	H ₂ So4	HNO ₃	ICE	Fie	ld Notes					
	MW-1	ulubr	ITTAM		X		4 VOAs	X			X	Gra	b Sample	X	X			
	MW-2	101100	1"20 PM		X		}	X			X		1	X	X			
	MW-3		3:30 PM		X			X			X			X	X			
-	MW-4		2:23 PM		X			X			X			Х	X			
	MW-5		3-05 AM		X			X			X			Х	X			
	MW-6		1053 AM		X			X			Х			X	X			
	MW-7		113579m		X			X			X			Х	X			
	MW-8		1112 Am		X			X			Х			X	X			
	MW-9	4/	1030 AM		X		Ŷ	X			X	Y	/	X	X			
	ler Demerker						Relinquis	hed	by:		Dat	e/Time:	Beceived by:			Date/Time:		
EDF	REQUIRED						Tony 1	PERI Les	NI	-	11/	150 PM 11/05	James 3m	ng	/	4:50 pm 11/11/05		
man						-												
																-		