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ENVIRONMENTAL ENGINEERING, INC

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January 11, 2007

Mr. Jerry Wickham
Alameda County
Department of Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: **StID#3337**
Site Address: 3609 International Blvd., Oakland, California

Dear Mr. Wickham:

SOMA's "Fourth Quarter 2006 Groundwater Monitoring and Remediation System Operation 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. If you have any questions or comments, please call me at (925) 734-6400.

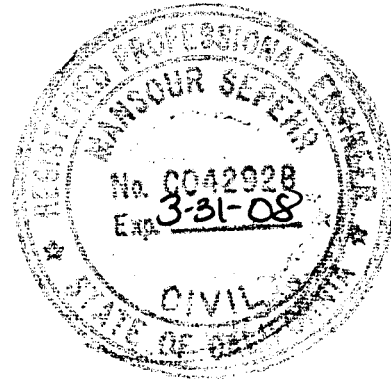
Sincerely,

A handwritten signature in black ink, appearing to be 'M. Razi', is written over a horizontal line.

Enclosure

cc: Mr. Abolghassem Razi w/report enclosure
Tony's Express Auto Service

Mr. Vince Tong w/report enclosure
Traction International





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Fourth Quarter 2006
Groundwater Monitoring and
Remediation System Operation Report
Tony's Express Auto Service

3609 International Boulevard
Oakland, California

January 11, 2007

Project 2331

Prepared for
Tony's Express Auto Service
3609 International Boulevard
Oakland, 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. Abolghassem Razi, the property owner of 3609 International Boulevard, Oakland, California, to comply with the Alameda County Environmental Health Services' requirements for the Fourth Quarter 2006 groundwater monitoring event.



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



Table of Contents

CERTIFICATION	I
TABLE OF CONTENTS	II
LIST OF TABLES.....	III
LIST OF FIGURES	III
LIST OF APPENDICES.....	IV
1.0 INTRODUCTION	1
1.1 Background.....	1
2.0 RESULTS	2
2.1 Field Measurements	2
2.2 Laboratory Analysis.....	3
3.0 GROUNDWATER TREATMENT SYSTEM OPERATION.....	4
4.0 OPERATION OF AIR SPARGING SYSTEM.....	5
5.0 CONCLUSIONS AND RECOMMENDATIONS	6
6.0 REPORT LIMITATIONS.....	7

List of Tables

- Table 1: Historical Groundwater Elevation Data & Analytical Results
- Table 2: Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
- Table 3: Total Mass of Petroleum Hydrocarbons Removed by the Vapor Extraction System & Historical Operational Data

List of Figures

- Figure 1: Site vicinity map.
- Figure 2: Site map showing the locations of air sparging wells, Groundwater monitoring wells, additional soil vapor wells, GAC system, and SVE system.
- Figure 3: Groundwater elevation contour map in feet. November 28, 2006.
- Figure 4: Contour map of TPH-g concentrations in the groundwater. November 28 and 29, 2006.
- Figure 5: Contour map of Benzene concentrations in the groundwater. November 28 and 29, 2006.
- Figure 6: Contour map of MtBE concentrations in the groundwater. (EPA Method 8260B). November 28 and 29, 2006.
- Figure 7: Schematic of the Groundwater Remediation System
- Figure 8: Cumulative mass of TPH-g and MtBE removed from groundwater since the installation of the treatment system.
- Figure 9: Block diagram of the SVE System
- Figure 10: Block diagram of the Air Sparge System

List of Appendices

Appendix A: SOMA's Groundwater Monitoring Procedures

Appendix B: Table of Elevations & Coordinates on Monitoring Wells Surveyed by Kier Wright Civil Engineers Surveyors, Inc., & Harrington Surveys, Inc. and Field Measurements of Physical, Chemical, and Biodegradation Parameters of Groundwater

Appendix C: Chain of Custody Form and Laboratory Report for the Fourth Quarter 2006 Monitoring Event

Appendix D: Chain of Custody Forms and Laboratory Reports for the Groundwater Extraction Treatment System

1.0 Introduction

This monitoring report has been prepared by SOMA Environmental Engineering, Inc. (SOMA) on behalf of Mr. Abolghassem Razi, the owner of Tony's Express Auto Service, which is located at 3609 International Boulevard, at the intersection of 36th Avenue in Oakland, California (the "Site"), as shown in Figure 1.

This report summarizes the results of the Fourth Quarter 2006 groundwater monitoring event conducted at the Site on November 28 and 29, 2006, and includes the laboratory analytical results on the groundwater samples.

A natural attenuation study was conducted during this monitoring event. The objective of the natural attenuation study was to evaluate whether the petroleum hydrocarbons found in the groundwater were biodegrading.

The groundwater monitoring activities were performed in accordance with the general guidelines of the Regional Water Quality Control Board (RWQCB) and the Alameda County Environmental Health Services (ACEHS). A description of SOMA's groundwater monitoring procedures is included in Appendix A. Figure 2 shows the locations of the wells and risers.

This report also describes the operation of the groundwater extraction system installed by SOMA in December 1999. The vapor extraction system was installed by SOMA in July 2000. The locations of the groundwater extraction system and the vapor extraction system are displayed in Figure 2.

1.1 Background

In July 1993, Soil Tech Engineering removed one single-walled 10,000-gallon gasoline tank and one single-walled 6,000-gallon gasoline tank along with a 550-gallon waste oil tank from the Site. Three double-walled underground storage tanks (USTs) replaced these tanks. Currently, there is one 10,000-gallon double-walled gasoline tank and two 6,000-gallon double-walled gasoline tanks beneath the Site. The locations of the USTs are shown in Figure 2.

In December 1997, Western Geo-Engineers (WEGE) conducted additional investigations and groundwater monitoring events. The results of the groundwater monitoring events indicated elevated levels of petroleum hydrocarbons and Methyl tertiary Butyl Ether (MtBE) in the groundwater.

In April 1999, Mr. Razi, the owner, retained SOMA to conduct groundwater monitoring, risk-based corrective action (RBCA), a corrective action plan (CAP), as well as soil and groundwater remediation at the Site. The results of the RBCA study indicated that the Site is a high-risk groundwater site; therefore, the soil and groundwater in the on and off-site areas warranted remedial action.

The source of the petroleum hydrocarbons in the groundwater was believed to have been the former USTs, which were used to store gasoline at the Site. The

results of the CAP study indicated that the installation of a French drain combined with a vapor extraction system would be the most cost effective alternative for the Site's remediation.

In late August 1999, SOMA installed a French drain and groundwater treatment system to prevent further migration of the chemically-impacted groundwater. In July 2000, SOMA installed a vapor extraction system.

In January 2002, Environmental Fabric removed the former product dispensers and installed new ones.

On July 25, 2003, SOMA installed an additional on-site extraction pump in the western French drain riser. The extraction pump was installed to create a capture zone in the region around the USTs and to contain off-site migration in the southwestern corner of the Site.

On April 1, 2005, SOMA conducted a pilot test to evaluate the use of ozone sparging to actively remediate the groundwater at the Site. The test revealed that the unsaturated zone was permeable enough to allow for the operation of an ozone sparging system. However, ozone injection, especially in the region of more impacted wells (MW-1 and MW-3), which are in the vicinity of the UST cavity, could have possibly lead to an explosive condition. Therefore, based on safety concerns, air-sparging technology was enacted for site remediation.

From November 17 to 23, 2005, SOMA oversaw the installation of the air sparge wells and vapor extraction wells by Woodward Drilling, of Rio Vista, California. From February 22, 2006 to March 6, 2006, SOMA oversaw the installation of the air sparge system by ACRC, Inc. (ACRC), a construction company in San Ramon, California.

2.0 Results

The following sections provide the results of the field measurements and laboratory analyses for the November 28 and 29, 2006 groundwater monitoring event.

2.1 Field Measurements

As shown in Table 1, the depths to groundwater for the monitoring wells ranged from 10.92 feet in well MW-10 to 12.95 feet in well MW-6. The corresponding groundwater elevations ranged from 25.23 feet in well MW-12 to 28.54 feet in well MW-5. The groundwater elevations for the center, east, and west risers were 23.88 feet, 26.33 feet, and 25.06 feet, respectively.

Figure 3 displays the groundwater elevation contour map. The groundwater flows towards the French drain at an approximate gradient of 0.070 feet/feet. The lowest site-wide groundwater elevation was measured in the center French drain

riser. The French drain is providing excellent hydraulic control in preventing the contaminants from migrating further off-site.

The field notes for the physical, chemical and biodegradation parameters measured during this monitoring event are included in Appendix B.

The more positive the redox potential of an electron acceptor, the more energetically favorable is the reaction utilizing that electron acceptor. The most energetically preferred electron acceptor for redox reactions is dissolved oxygen (DO). Evaluating the distribution of electron acceptors can provide evidence of where and to what extent hydrocarbon biodegradation is occurring.

Upon equalization of the surrounding aquifer, detectable DO concentrations ranged from 1.07 mg/L in well MW-5 to 3.32 mg/L in well MW-2. The DO measurements were taken upon terminating the purge cycle. Oxidation reduction potential (ORP) showed negative redox potentials in all wells with the exception of well MW-2. Oxidation of petroleum hydrocarbons could have occurred in these monitoring wells. Negative redox potentials indicate that contaminants in the groundwater are conducive to anaerobic biodegradation.

Ferrous iron concentrations can be used as an indicator of anaerobic biodegradation. Ferrous iron concentrations ranged from 0.08 mg/L in well MW-10 to the equipment's maximum allowable tolerance range of 3.30 mg/L in wells MW-1, MW-3, MW-6, and MW-8.

Nitrate concentrations were below the equipment's minimum allowable level in wells MW-6 and MW-7. Detectable nitrate concentrations ranged from 6.8 mg/L in well MW-12 to the maximum allowable tolerance range of 35 mg/L in wells MW-1, MW-2, and MW-4R. High ferrous iron concentrations in combination with non-detectable nitrate levels are indicative of anaerobic biodegradation beneath the Site.

The absence of sulfate in the groundwater samples may be indicative of an anaerobic methanogenesis process. Sulfate was below the equipment's tolerance level in wells MW-3, MW-4R, and MW-8. Detectable sulfate concentrations ranged from 1 mg/L in well MW-12 to 36 mg/L in well MW-5.

2.2 Laboratory Analysis

Table 1 presents the results of the laboratory analyses on the groundwater samples collected during this monitoring event.

Total petroleum hydrocarbons as gasoline (TPH-g) was detected throughout the Site. Detectable TPH-g concentrations ranged from 158 ug/L in well MW-5 to 29,400 ug/L in well MW-1. Figure 4 displays the contour map of TPH-g concentrations in the groundwater. The majority of the TPH-g plume was in the

vicinity of the UST cavity (around wells MW-1 and MW-3), as well as east of the station building (around MW-6).

The following benzene, toluene, ethylbenzene, and total xylene concentration trends were observed during this monitoring event.

- In well MW-1, the highest BTEX analytes were observed at 2490 ug/L, 782 ug/L, 1,510 ug/L, and 1,815 ug/L, respectively.
- In wells MW-4R and MW-7, toluene was below the laboratory reporting limit.
- In well MW-5, all BTEX analytes, with the exception of benzene, were below the laboratory reporting limit. Benzene was detected at 0.64 ug/L.
- In wells MW-10 and MW-12, both toluene and total xylenes were below the laboratory reporting limit.

Figure 5 displays the contour map of benzene concentrations in the groundwater. The highest benzene concentration was detected in the vicinity of the USTs, in well MW-1.

Methyl tertiary Butyl Ether (MtBE) was below the laboratory reporting limit in wells MW-2, MW-4R, MW-5, and MW-7. Detectable MtBE concentrations ranged from 7.86 ug/L in well MW-6 to 1,540 ug/L in well MW-1. Figure 6 displays the contour map of MtBE concentrations in the groundwater. MtBE, with the exception of well MW-1, has only minimally impacted the Site's groundwater.

The laboratory report and chain-of-custody form for this monitoring event are included in Appendix C.

3.0 Groundwater Treatment System Operation

The treatment system began operating on December 9, 1999. Since the start-up, 3,460,750 gallons of groundwater has been treated and discharged, under the existing discharge permit (as of December 8, 2006), into the East Bay Municipal Utility District's (EBMUD's) sewer system.

As of January 9, 2004, the previously installed pneumatic downhole pumps in the western and center French drain risers were removed and replaced with electrical downhole pumps. On May 4, 2005, to maintain accurate recordings of the total flow through the system, a newer totalizer meter was installed. On September 29, 2005, the existing 2,000-pound carbon vessel was replaced with a newer 2,000-pound carbon vessel. The newer vessel was refurbished with new carbon; the 55-gallon carbon drum was also replaced. The former 2,000-pound vessel had become rusted due to prolonged usage. A schematic diagram of the remediation system is displayed in Figure 7.

On June 15, 2006, a carbon change-out was conducted on the remedial system. During this change-out the 2,000-pound vessel was refurbished with new carbon and the 200-pound carbon drum was replaced.

Table 2 presents the total volume of treated groundwater and the groundwater analytical results. Table 2 shows that all of the effluent samples have remained below the discharge limits set forth by EBMUD. The most current laboratory reports for the groundwater treatment system are included in Appendix D.

As of November 20, 2006, the treatment system has removed approximately 212 pounds of hydrocarbons and 86.3 pounds of MtBE. Figure 8 shows the approximate masses of TPH-g and MtBE removed from the impacted groundwater during the operation of the treatment system.

4.0 Operation of Air Sparging System

From February 22, 2006 to March 6, 2006, SOMA oversaw the installation of the air sparge system. The system consists of nine-vapor extraction wells and three air sparge wells. The air sparge wells were installed in the vicinity of the UST cavity, pump islands, and near well MW-6. Figure 2 shows the locations of the air sparge wells. Figures 9 and 10 show the block diagrams of the air sparging and vapor extraction units. The operating permit for the SVE system was extended by BAAQMD until August 2007.

Prior to the installation of the air sparge system, in November 2005, SOMA collected air samples from the previously existing SVE wells. Based on the sample results, which were non-detectable, the lines from SVE wells P-4 and ISL-1 to the vacuum pump were closed. This allowed for a greater vacuum at the more impacted SVE wells.

The air sparge system was initially started on March 15, 2006. However, due to the close proximity of the system to a residential area, the system was modified to reduce the noise level. As such, a timer was installed on the compressor to control operation hours of the air sparge system and limit the operation time to daytime hours. Currently, the system is operating from 8 AM to 7 PM. In addition, to further suppress the noise level, the existing blower unit, which was installed in 2000, was rebuilt and foam was placed around it to act as a noise suppressant.

To more effectively increase the removal of contaminants in the soil, an additional vacuum blower was installed in series to the existing vacuum blower. The additional equipment was installed on July 24, 2006. Rain causes the water table to rise, thereby decreasing the actual layer of the unsaturated zone. Therefore, the actual mass of contaminants in the soil that can be removed by the remedial system is greatly reduced. Based on the reduction in the unsaturated region, as well as a reduction in the mass of contaminant vapors

removed from the soil, the remedial system was shut-down on November 7, 2006. The remedial system will likely become operational again in March 2007.

As shown on Table 3, approximately 947.56 pounds of hydrocarbons as vapor have been removed from the impacted soil, as of November 7, 2006. Table 3 also outlines the history of the soil vapor extraction system.

5.0 Conclusions and Recommendations

The findings of the Fourth Quarter 2006 groundwater monitoring event can be summarized as follows:

1. The groundwater remediation system is providing excellent hydraulic control and preventing further migration of the contaminants to the off-site areas.
2. The bio-attenuation study confirmed the occurrence of biodegradation beneath the Site. Based on this study, the affected areas appear to be in the vicinity of the USTs, around wells MW-1 and MW-3, as well as the eastern section of the Site, around well MW-6. The source area still remains in the vicinity of wells MW-1, MW-3, and MW-6.
3. In the more contaminated wells (MW-1, MW-3, and MW-6), since the Third Quarter 2006, the following concentration trends were observed.
 - In well MW-1, TPH-g, benzene, and MtBE decreased.
 - In well MW-3, both TPH-g and MtBE decreased.
 - In well MW-6, all TPH-g, benzene, and MtBE slightly increased.
4. In general, the GAC and SVE systems have effectively reduced the contaminants beneath the Site. Since initial start-up, approximately 212 pounds of hydrocarbons and 86.3 pounds of MtBE (as of November 20, 2006) have been removed from the groundwater. Approximately 947.56 pounds of petroleum hydrocarbons have been removed from the vadose zone.
5. Based on the reduction in mass removal of contaminants from the soil due to a decreasing unsaturated layer during rainy periods of the year, the soil vapor extraction system will be temporarily shutdown from November 2006 to approximately March 2007.

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

- Continual operation of the pump-and-treat system to maintain the removal rate of the contaminant masses in the groundwater;

- Continual monitoring of the biodegradation parameters to determine whether the injection of concentrated solutions of terminal electron receptors into the groundwater, in the vicinity of the more contaminated wells, may enhance the biodegradation process;
- Continued quarterly monitoring programs to better understand the seasonal variations in the groundwater quality conditions; and
- The installation of an extraction well within the UST cavity. The exact location of this well still needs to be determined. This should further remediate the more impacted region around the UST cavity.

6.0 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 monitoring event, as well as, Curtis & Tompkins, Ltd and summaries of data produced by previous environmental consultants for the previous monitoring events. 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.

TABLES

Table 1
Historical Groundwater Elevation Data & Analytical Results
3609 International Boulevard, Oakland, California

Monitoring Well	Date	Top Of 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 ² EPA 8260B (µg/L)
MW-1	10/5/1994	97.99	15.39	82.60	320,000	24,000	21,000	2,600	15,000	NA
	12/5/1994	97.99	9.32	88.67	80,000	3,800	6,600	2,300	11,000	NA
	3/2/1995	97.99	8.07	89.92	32,000	190	160	150	490	NA
	6/6/1995	97.99	9.53	88.46	21,000	950	650	570	150	NA
	10/5/1995	97.99	13.29	84.70	59,000	140	130	140	390	NA
	1/2/1996	97.99	10.07	87.92	30,000	71	73	50	120	NA
	4/1/1996	97.99	8.29	89.70	31,000	98	120	63	170	NA
	12/3/1996	97.99	11.67	86.32	NA	NA	NA	NA	NA	NA
	4/9/1997	97.99	11.14	86.85	NA	NA	NA	NA	NA	NA
	12/10/1997	97.99	9.30	88.69	27,000	2,300	2,100	1,400	5,100	NA
	9/10/1998	97.99	13.58	84.41	NA	NA	NA	NA	NA	NA
	12/16/1998	97.99	11.10	86.89	65,000	2,500	2,400	2,300	9,500	160
	3/16/1999	97.99	9.91	88.08	17,000	480	860	850	3,000	190
	6/10/1999	97.99	11.10	86.89	25,000	1,110	1,460	1,330	5,265	77
	8/23/1999	97.99	13.35	84.64	19,750	678	463	893	2,938	38
	11/9/1999	97.99	14.45	83.54	10,000	693	15	<5	3,471	50
	2/7/2000	97.99	11.20	86.79	40,000	2,280	1,380	8	6,130	47
	5/31/2000	97.99	11.49	86.50	15,610	610	350	310	1,400	<5
	8/9/2000	97.99	13.36	84.63	11,000	638	<5	<5	<5	17.1
	11/2/2000	97.99	13.20	84.79	7,050	435	52	ND	689	10
3/13/2001	97.99	8.96	89.03	14,570	1,005	440	108	2,030	16	
5/22/2001	97.99	11.50	86.49	4,900	310	81	82	388	150	
8/8/2001	97.99	13.51	84.48	14,820	852	342	568	1,606	2,000	
11/19/2001	97.99	14.01	83.98	41,000	2,700	5,100	1,000	4,570	74,000	

Table 1
Historical Groundwater Elevation Data & Analytical Results
3609 International Boulevard, Oakland, California

Monitoring Well	Date	Top Of 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 ² EPA 8260B (µg/L)
MW-1 cont.	2/21/2002	97.99	10.11	87.88	260,000	3,700	12,000	3,700	19,200	23,000
	5/7/2002	97.99	10.86	87.13	53,000	4,400	5,100	1300	7,000	32,000
	7/30/2002	40.11	12.80	27.31	29,000	2,400	2,500	920	4,400	13,000
	10/2/2002	40.11	15.50	24.61	27,000	2,200	2,400	950	4,500	34,000
	1/3/2003	40.11	9.73	30.38	62,000	3,500	6,000	1600	9,700	48,000
	5/3/2003	40.11	9.71	30.40	59,000	3,100	2,700	1500	7,000	14,000
	7/24/2003	40.11	12.44	27.67	36,000	4,800	1,800	1300	5,600	25,000
	10/22/2003	40.11	13.89	26.22	630,000 H	3,300	1900 C	3600	27,700	15,000
	1/22/2004	40.11	10.45	29.66	39,000	3,100	1,600	950	4,300	8,500
	4/1/2004	40.11	11.49	28.62	41,000	1,200	350C	830	2,740	4,300
	8/20/2004	40.11	13.81	26.30	22,000	2,000	220	560	3,090	6,900
	12/8/2004	40.11	11.10	29.01	22,790	1,634	319	895	2,851	5,504
	3/16/2005	40.11	8.40	31.71	44,400	3,150	811	1,090	2,856	7,180
	5/16/2005	40.11	9.72	30.39	33,900	3,440	1,700	1,090	2,276	3,210
	7/14/2005	40.11	11.31	28.80	50,100	4,350	1,760	1,500	2,853	3,980
	10/13/2005	40.11	13.51	26.60	43,100	1,960	325	639	3,080	3,000
	1/3/2006	40.11	8.82	31.29	55,000	1,100	510	1,100	4,070	2,200
	4/7/2006	40.11	7.12	32.99	42,500	1,780	1,010	1,610	2,449	2,110
	9/8/2006	40.11	12.64	27.47	37,200	3,280	1,460	1,290	2,685	2,180
11/29/2006	40.11	12.49	27.62	29,400	2,490	782	1,510	1,815	1,540	
MW-2	10/1/1994	98.58	15.36	83.22	NA	NA	NA	NA	NA	NA
	12/1/1994	98.58	8.60	89.98	NA	NA	NA	NA	NA	NA
	3/6/1995	98.58	7.68	90.90	490	3	3	3	1	NA
	6/5/1995	98.58	9.59	88.99	8,000	220	330	350	660	NA
	10/2/1995	98.58	13.42	85.16	46,000	160	130	93	240	NA
	1/3/1996	98.58	9.93	88.65	46,000	160	130	93	240	NA
	4/3/1996	98.58	8.13	90.45	27,000	0.1	92	44	13	NA
	12/9/1996	98.58	11.67	86.91	6,200	11	7	2	14	ND
	4/10/1997	98.58	11.40	87.18	53,000	150	110	37	0.12	ND
	12/30/1997	98.58	9.04	89.54	35,000	4,900	4,900	1,600	7,000	NA
	6/30/1998	98.58	NM	NM	25,000	2,000	2,000	1,300	4,300	NA
	9/29/1998	98.58	13.58	85.00	29,000	290	180	160	360	<0.5
	12/16/1998	98.58	10.94	87.64	26,000	1,400	1,600	880	9,500	<5

Table 1
Historical Groundwater Elevation Data & Analytical Results
3609 International Boulevard, Oakland, California

Monitoring Well	Date	Top Of 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 ² EPA 8260B (µg/L)
MW-2 cont.	3/16/1999	98.58	7.60	90.98	7,600	730	830	610	1,900	55
	6/10/1999	98.58	11.24	87.34	3,500	290	428	211	744	ND
	8/23/1999	98.58	13.50	85.08	60	6	9	4	11	ND
	11/9/1999	98.58	14.10	84.48	<50	<5	<5	<5	<5	<5
	2/7/2000	98.58	9.85	88.73	6,400	372	639	46	134	8
	5/31/2000	98.58	10.88	87.70	2,930	130	330	130	570	<5
	8/9/2000	98.58	13.03	85.55	<50	<5	<5	<5	<5	<5
	11/2/2000	98.58	12.60	85.98	ND	ND	ND	ND	ND	ND
	3/13/2001	98.58	8.55	90.03	932	18	34	1.3	225	ND
	5/22/2001	98.58	11.00	87.58	870	37	75	55	179	2.7
	8/8/2001	98.58	13.53	85.05	125	4	4	3	11	ND
	11/19/2001	98.58	13.43	85.15	470	13	64	22	83	14
	2/21/2002	98.58	8.99	89.59	1,700	26	180	95	360	<2
	5/7/2002	98.58	10.59	87.99	1,800	31	140	110	348	<2
	7/30/2002	40.71	12.70	28.01	180	11	6.3	9.4	27	<2.0
	10/2/2002	40.71	14.23	26.48	<50	<0.5	<0.5	<0.5	0.64	<2.0
	1/3/2003	40.71	8.66	32.05	510	5	30.0	24.0	92	<2.0
	5/3/2003	40.71	9.17	31.54	1,300	14	88.0	78.0	271	<2.0
	7/24/2003	40.71	12.23	28.48	220	3.9	4.3	7	14.5	<2.0
	10/22/2003	40.71	13.65	27.06	170 H	1.9	<0.5	2.2	2.2	<2.0
	1/22/2004	40.71	9.54	31.17	860	7.2	37	50	151	<2.0
	4/1/2004	40.71	10.80	29.91	730	6.6	19	38	87	<2.0
	8/20/2004	40.71	13.54	27.17	220	2.2	1.9	7	11.7	<0.5
	12/8/2004	40.71	10.52	30.19	99	1.7	3.3	8.3	25.1	<0.5
	3/15/2005	40.71	8.06	32.65	5,690	18.7	120	315	876	<1.0
	5/17/2005	40.71	9.10	31.61	6,320	12.5	75	429	557	<2.15
	7/14/2005	40.71	11.10	29.61	7,680	14.1	46.3	522	471	<2.15
	10/13/2005	40.71	13.25	27.46	562	4.25	3.28	15	8.29	<0.50
	1/3/2006	40.71	6.72	33.99	340	2.5	4.4	22	50.2	<0.5
	4/7/2006	40.71	5.75	34.96	6,160	24	84.8	385	474	<2.15
	9/7/2006	40.71	12.58	28.13	114	2.45	<2.0	8.62	6.85	<0.5
	11/29/2006	40.71	12.26	28.45	293	5.02	3.25	24	15.15	<0.5

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3609 International Boulevard, Oakland, California

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MW-3	10/5/1994	97.78	15.79	81.99	3,000,000	190,000	740,000	310,000	130,000	NA
	12/2/1994	97.78	9.79	87.99	250,000	19,000	22,000	4,400	28,000	NA
	3/6/1995	97.78	8.69	89.09	350,000	20,000	42,000	5,800	36,000	NA
	6/5/1995	97.78	10.25	87.53	350,000	20,000	42,000	5,800	36,000	NA
	10/2/1995	97.78	12.91	84.87	150,000	510	410	210	65	NA
	1/3/1996	97.78	10.55	87.23	150,000	510	410	210	650	NA
	4/3/1996	97.78	8.76	89.02	NA	NA	NA	NA	NA	NA
	12/3/1996	97.78	12.02	85.76	NA	NA	NA	NA	NA	NA
	4/1/1997	97.78	11.73	86.05	NA	NA	NA	NA	NA	NA
	12/1/1997	97.78	NM	NM	NA	NA	NA	NA	NA	NA
	9/1/1998	97.78	14.68	83.10	NA	NA	NA	NA	NA	NA
	12/16/1998	97.78	11.55	86.23	51,000	5,700	3,900	1,200	6,300	410
	3/16/1999	97.78	8.44	89.34	45,000	4,100	6,400	1,000	6,100	470
	6/10/1999	97.78	11.8	85.98	46,000	8,245	6,425	1,015	7,173	274
	8/23/1999	97.78	13.85	83.93	64,000	7,484	8,052	1,744	9,749	141
	11/9/1999	97.78	14.7	83.08	26,000	3,218	1,319	<5	6,697	126
	2/7/2000	97.78	10.95	86.83	44,000	6,090	3,360	<5	5,780	276
	5/31/2000	97.78	11.68	86.10	68,000	15,000	8,900	1,500	7,400	<5
	8/9/2000	97.78	13.73	84.05	76,000	8,900	5,636	883	7,356	176
	11/2/2000	97.78	13.4	84.38	48,000	6,789	4,816	676	7,258	83
	3/13/2001	97.78	9.43	88.35	14,754	2,250	140	ND	1,284	110
	5/22/2001	97.78	11.81	85.97	44,000	5,400	3,100	1,400	6,400	200
	8/8/2001	97.78	14.1	83.68	41,750	3,485	2,670	1,255	5,420	52
	11/19/2001	97.78	14.32	83.46	NA	NA	NA	NA	NA	NA
	2/21/2002	97.78	10.01	87.77	62,000	6,000	7,600	1,900	9,200	12,000
	5/7/2002	97.78	11.28	86.50	54,000	6,700	3,200	1,800	7,100	9,100
	7/30/2002	40.91	13.25	27.66	45,000	8,900	1,700	1,600	5,600	2,600
	10/2/2002	40.91	14.98	25.93	70,000	4,900	5,100	2,100	11,900	21,000
	1/3/2003	40.91	9.79	31.12	35,000	2,900	1,300	860	5,200	13,000
	5/3/2003	40.91	10.01	30.90	48,000	5,800	1,400	1,600	7,400	5,900
7/24/2003	40.91	12.94	27.97	31,000	4,700	990	1,400	5,200	16,000	
10/22/2003	40.91	14.29	26.62	30,000	4,400	930	1,600	5,400	7,400	

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3609 International Boulevard, Oakland, California

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MW-3 cont.	1/22/2004	40.91	10.57	30.34	45,000	2,100	850	1,500	5,700	2,900	
	4/1/2004	40.91	11.84	29.07	31,000	4,200	590	1,600	4,370	900	
	8/20/2004	40.91	14.24	26.67	21,000	3,400	370	1,000	2,350	1,100	
	12/8/2004	40.91	11.32	29.59	6,441	978	109	490	941	201	
	3/16/2005	40.91	8.87	32.04	22,300	1,280	456	729	1,870	2,400	
	5/17/2005	40.91	9.96	30.95	17,600	764	302	735	1,227	1,800	
	7/14/2005	40.91	11.50	29.41	34,600	1,390	492	1,460	2,054	1,090	
	10/13/2005	40.91	13.78	27.13	15,000	1,290	267	675	838	893	
	1/3/2006	40.91	7.50	33.41	8,700	650	98	330	860	280	
	4/7/2006	40.91	6.74	34.17	16,800	677	239	802	1,018	564	
	9/8/2006	40.91	12.95	27.96	26,400	1,660	381	933	1,545	332	
	11/29/2006	40.91	12.78	28.13	15,100	2,080	381	1,290	1,624	247	
	MW-4	1/3/1996	97.85	10.11	87.74	9,300	230	110	10	29	NA
		4/3/1996	97.85	8.35	89.50	1,900	12	8	5	14	NA
12/9/1996		97.85	11.58	86.27	4,000	14	6	4	12	ND	
4/10/1997		97.85	11.23	86.62	ND	ND	ND	ND	ND	ND	
12/30/1997		97.85	9.43	88.42	2,300	410	270	100	1,500	NA	
6/30/1998		97.85	NM	NM	1,700	780	160	54	200	NA	
9/29/1998		97.85	13.64	84.21	6,200	910	77	68	200	18	
12/16/1998		97.85	11.13	86.72	1,400	590	33	28	94	24	
3/16/1999		97.85	8.46	89.39	600	200	35	19	56	11	
6/10/1999		97.85	11.30	86.55	1,000	298	44	19	64	13	
8/23/1999		97.85	13.20	84.65	660	497	41	54	145	6	
11/9/1999		97.85	14.10	83.75	<50	<5	<5	<5	<5	<5	
2/7/2000		97.85	11.25	86.60	7,800	1,200	61	<5	781	<5	
5/31/2000		97.85	11.46	86.39	552	42	19	16	67	<5	
8/9/2000		97.85	13.35	84.50	370	5.08	<5	<5	<5	<5	
11/2/2000		97.85	13.05	84.80	ND	5.30	ND	ND	8	ND	
3/13/2001		97.85	9.24	88.61	62	ND	ND	3.2	8.7	ND	
5/22/2001		97.85	11.50	86.35	80	12	1.9	4.1	9.8	ND	
8/8/2001	97.85	13.80	84.05	133	12	2.2	3.9	9	ND		
11/19/2001	97.85	13.68	84.17	670	180	5	17	53	ND		

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3609 International Boulevard, Oakland, California

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MW-4 cont.	2/21/2002	97.85	9.97	87.88	450	63	4.1	22	28.7	<2
	5/7/2002	97.85	10.81	87.04	570	72	29	27	74	<2
	7/30/2002	40.01	12.62	27.39	450	20	24	19	74	<2.0
	10/2/2002	40.01	14.34	25.67	320	69	0.99	9	5.49	<2.0
	1/3/2003	40.01	9.79	30.22	310	49	2.5	13	26.7	<2.0
	7/24/2003	40.01	12.44	27.57	<50	1	<0.5	<0.5	<0.5	<0.5
	10/22/2003	40.01	13.72	26.29	70	12	<0.5	4.7	3.0	<2.0
	1/22/2004	40.01	10.55	29.46	230	18	2.1	8.1	17.1	<2.0
	4/1/2004	40.01	11.39	28.62	<50	3.8	<0.5	1.6	1.9	<2.0
	8/20/2004	40.01	13.68	26.33	<50	1.6	<0.5	0.66	0.53	<2.0
	12/7/2004	40.01	10.95	29.06	<50	1.3	<0.5	2.80	<1.0	<0.5
	3/15/2005	40.01	8.61	31.40	661	72	4.13	39.7	48.42	<0.5
	MW-4R	5/17/2005	40.34	9.88	30.46	7,780	170	11.1	192	121.2
7/14/2005		40.34	11.61	28.73	847	25.3	<2.0	28.2	10.9	<0.5
10/13/2005		40.34	13.73	26.61	785	35.5	<2.0	48.2	8.35	<0.50
1/3/2006		40.34	9.18	31.16	2,500	65	3.8	70	62	<0.5
4/6/2006		40.34	7.70	32.64	852	42.4	2.25	28.4	17.13	<0.5
9/7/2006		40.34	12.96	27.38	97.7	9.29	<2.0	4.05	1.03	<0.5
11/28/2006		40.34	12.70	27.64	914	87	<2.0	15.10	10.40	<0.5
MW-5		10/2/1995	99.04	13.57	85.47	1,500	1	1	4	5
	1/3/1996	99.04	10.03	89.01	1,500	1	1	4	5	NA
	4/3/1996	99.04	8.24	90.80	780	1	1	5	4	NA
	12/9/1996	99.04	11.48	87.56	NA	NA	NA	NA	NA	NA
	4/10/1997	99.04	11.35	87.69	NA	NA	NA	NA	NA	NA
	12/30/1997	99.04	9.15	89.89	790	82	66	59	160	NA
	6/30/1998	99.04	NM	NM	400	<5	<5	15	<10	NA
	9/29/1998	99.04	13.82	85.22	270	2	1	3	3	<.5
	12/16/1998	99.04	11.20	87.84	1,400	1	1	ND	2	ND
	3/16/1999	99.04	7.73	91.31	650	3	1	16	2	10
	6/10/1999	99.04	11.50	87.54	270	4	3	6	4	ND
8/23/1999	99.04	13.55	85.49	120	ND	4	ND	4	ND	
11/9/1999	99.04	14.30	84.74	<50	<5	<5	<5	<5	<5	

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3609 International Boulevard, Oakland, California

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MW-5 cont.	2/7/2000	99.04	9.85	89.19	70	<5	<5	<5	7	<5
	5/31/2000	99.04	11.03	88.01	627.4	7.4	24	12	32.4	<5
	8/9/2000	99.04	13.22	85.82	<50	<5	<5	<5	<5	<5
	11/2/2000	99.04	13.55	85.49	ND	ND	ND	ND	ND	ND
	3/13/2001	99.04	8.67	90.37	382	6.1	1.9	6.6	5.9	ND
	5/22/2001	99.04	11.12	87.92	180	ND	ND	2.1	0.57	4.4
	8/8/2001	99.04	13.79	85.25	258	1	1.1	3.4	7.3	1.4
	11/19/2001	99.04	13.72	85.32	920	17	160	26	135	40
	2/21/2002	99.04	9.04	90.00	290	3.5	2	6.2	6.2	<0.5
	5/7/2002	99.04	10.69	88.35	160	<0.5	0.78 C	2	2.15	2.3
	7/30/2002	41.16	12.94	28.22	110	<0.5	<0.5	0.77	<0.5	<0.5
	10/20/2002	41.16	14.51	26.65	77	<0.5	<0.5	<0.5	<0.5	<2.0
	1/3/2003	41.16	8.73	32.43	450 Y	<0.5	<0.5	4	0.54	2.1
	5/3/2003	41.16	9.24	31.92	130	<0.5	<0.5	1	<0.5	3.1
	7/24/2003	41.16	12.45	28.71	300	<0.5	1.9 C	0.76	<0.5	<2.0
	10/22/2003	41.16	13.89	27.27	460 H	<0.5	<0.5	<0.5	<0.5	1.9
	1/22/2004	41.16	9.60	31.56	160	<0.5	<0.5	0.55 C	<0.5	<5.0
	4/1/2004	41.16	11.06	30.10	280	<0.5	0.74C	0.62	<0.5	2.1
	8/20/2004	41.16	13.75	27.41	250	<0.5	<0.5	<0.5	<0.5	2
	12/7/2004	41.16	10.73	30.43	150	<0.5	<0.5	<0.5	<1.0	2.6
	3/15/2005	41.16	8.18	32.98	496	<0.5	<0.5	<0.5	<1.0	1.91
	5/17/2005	41.16	9.22	31.94	360	<0.5	<0.5	<0.5	<1.0	1.72
	7/14/2005	41.16	11.30	29.86	267	<0.5	<2.0	<0.5	<1.0	1.74
10/13/2005	41.16	13.57	27.59	404	<0.50	<2.0	<0.50	<1.0	0.93	
1/3/2006	41.16	6.81	34.35	170	2.2	<0.5	1.8	3.1	1.1	
4/7/2006	41.16	5.81	35.35	449	<0.5	<2.0	0.53	<1.0	1.16	
9/7/2006	41.16	12.78	28.38	185	<0.5	<2.0	2.02	<1.0	<0.5	
11/28/2006	41.16	12.62	28.54	28.54	158	0.64	<2.0	<0.5	<2.0	<0.5
MW-6										
MW-6	10/1/1995	98.77	13.94	84.83	NA	NA	NA	NA	NA	NA
	1/1/1996	98.77	10.55	88.22	120,000	350	310	200	610	NA
	4/1/1996	98.77	8.76	90.01	NA	NA	NA	NA	NA	NA
	12/1/1996	98.77	12.04	86.73	NA	NA	NA	NA	NA	NA
	4/1/1997	98.77	11.76	87.01	NA	NA	NA	NA	NA	NA
	12/1/1997	98.77	9.30	89.47	NA	NA	NA	NA	NA	NA

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3609 International Boulevard, Oakland, California

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MW-6 cont.	9/1/1998	98.77	14.10	84.67	NA	NA	NA	NA	NA	NA
	12/1/1998	98.77	11.60	87.17	NA	NA	NA	NA	NA	NA
	3/16/1999	98.77	8.40	90.37	37,000	3,900	4,300	1,600	7,000	180
	6/10/1999	98.77	11.90	86.87	18,500	2,060	1,650	735	3,170	ND
	8/23/1999	98.77	13.90	84.87	42,000	3,806	3,649	1,554	7,996	10
	11/9/1999	98.77	14.75	84.02	40,000	1,084	130	<5	10,940	<5
	2/7/2000	98.77	10.95	87.82	17,000	1,360	521	<5	4,150	6
	8/9/2000	98.77	13.78	84.99	24,000	1,306	870	<5	5,162	<5
	11/2/2000	98.77	13.40	85.37	19,000	1,387	618	ND	5,250	ND
	3/13/2001	98.77	9.49	89.28	15,637	713	459	238	2,363	ND
	5/22/2001	98.77	11.82	86.95	27,000	760	450	1,600	4,270	ND
	8/8/2001	98.77	NM	NM	NA	NA	NA	NA	NA	NA
	11/19/2001	98.77	NM	NM	NA	NA	NA	NA	NA	NA
	2/21/2002	98.77	9.92	88.85	14,000	440	180	750	1,020	<10
	5/7/2002	98.77	11.33	87.44	10,000	400	160	470	970	<2
	7/30/2002	40.92	13.28	27.64	24,000	1,000	410	1,400	3,770	<20
	10/20/2002	40.92	14.93	25.99	22,000	1,200	620	1,300	2,800	<20
	1/3/2003	40.92	9.78	31.14	12,000	730	230	740	1,690	<20
	5/3/2003	40.92	9.92	31.00	150,000 H	1,400	780	2,500	8,700	<40
	7/24/2003	40.92	12.98	27.94	29,000	1,600	520	1,500	4,400	<200
	10/22/2003	40.92	14.35	26.57	36,000	1,300	430	1,600	4,570	<40
	1/22/2004	40.92	10.60	30.32	30,000	1,300	320	1,500	3,040	<50
	4/1/2004	40.92	11.80	29.12	99,000	1,700	580 C	2,200	5,200	<50
	8/20/2004	40.92	14.36	26.56	12,000	580	130	520	1,020	<10
	12/8/2004	40.92	11.22	29.70	12,631	649	134	1,009	2,037	<2.15
	3/16/2005	40.92	8.94	31.98	18,300	546	126	705	1,069	<2.15
	5/17/2005	40.92	10.02	30.90	38,500	1,290	395	1,550	1,652	<5.50
	7/15/2005	40.92	11.78	29.14	50,100	1,510	409	1,900	1,920	<5.50
	10/13/2005	40.92	14.04	26.88	9,620	513	97.4	523	422.3	<2.15
	1/3/2006	40.92	7.86	33.06	13,000	260	79.0	680	750	<4.2
4/7/2006	40.92	6.93	33.99	18,200	650	151	918	715	<5.5	
9/8/2006	40.92	13.12	27.80	18,600	604	98.80	639	659	<2.15	
11/28/2006	40.92	12.95	27.97	20,300	656	96.30	1,060	760	7.86	

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MW-7	10/2/1995	97.83	12.95	84.88	NA	10	12	17	NA	3,300
	1/3/1996	97.83	9.57	88.26	3,300	9	12	17	45	NA
	4/3/1996	97.83	7.75	90.08	1,900	2	3	5	7	NA
	12/9/1996	97.83	10.97	86.86	NA	NA	NA	NA	NA	NA
	4/10/1997	97.83	12.95	84.88	NA	NA	NA	NA	NA	NA
	12/30/1997	97.83	8.65	89.18	1,400	130	98	75	200	NA
	6/30/1998	97.83	NM	NM	620	4	<5	9	<10	NA
	9/29/1998	97.83	13.09	84.74	1,800	1	1	1	2	68
	12/16/1998	97.83	10.52	87.31	990	5	10	5	20	160
	3/16/1999	97.83	7.00	90.83	300	3	1	1	1	62
	6/10/1999	97.83	10.70	87.13	320	3	7	4	3	26
	8/23/1999	97.83	12.80	85.03	570	5	10	ND	ND	ND
	11/9/1999	97.83	13.25	84.58	290	<5	9	<5	<5	12
	2/7/2000	97.83	9.50	88.33	80	<5	<5	<5	<5	23
	5/31/2000	97.83	10.52	87.31	494.9	4.9	22	4.2	21.9	29
	8/9/2000	97.83	12.63	85.20	80	<5	<5	<5	<5	11.7
	11/2/2000	97.83	11.95	85.88	50	ND	ND	ND	ND	9.1
	3/13/2001	97.83	8.04	89.79	82	0.97	ND	0.76	ND	78
	5/22/2001	97.83	10.60	87.23	370	ND	9.1	1.3	2.3	28
	8/8/2001	97.83	13.02	84.81	610	3.7	3	6.2	18.9	10
	11/19/2001	97.83	12.83	85.00	1,700	24	220	41	205	69
	2/21/2002	97.83	8.91	88.92	380	<0.5	2.5	2	3.8	78
	5/7/2002	97.83	10.13	87.70	560	15	28.0	9.2	44.0	37
7/30/2002	39.94	12.15	27.79	270	5.3	1.3 C	2.3	8.1	46	
10/20/2002	39.94	13.74	26.20	350	<0.5	2.1 C	<0.5	3.1 C	43	
1/3/2003	39.94	8.45	31.49	220 Y	<0.5	<0.5	0.78	0.55	19	
5/3/2003	39.94	7.69	32.25	280	<0.5	<0.5	<0.5	<0.5	11	
7/24/2003	39.94	11.72	28.22	230	<0.5	1.3 C	<0.5	0.63	5.9	
10/22/2003	39.94	13.10	26.84	460	<0.5	<0.5	<0.5	<0.5	5.0	

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Historical Groundwater Elevation Data & Analytical Results
3609 International Boulevard, Oakland, California

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MW-7 cont.	1/22/2004	39.94	9.23	30.71	380	<0.5	1.4 C	<0.5	<0.5	<5.0
	4/1/2004	39.94	10.40	29.54	480	<0.5	2.5 C	<0.5	0.90	0.62
	8/20/2004	39.94	12.92	27.02	410	<0.5	.81 C	<0.5	<0.5	1.70
	12/7/2004	39.94	10.28	29.66	96	<0.5	<0.5	<0.5	<1.0	<0.5
	3/16/2005	39.94	7.44	32.50	209	<0.5	<0.5	<0.5	<1.0	1.74
	5/16/2005	39.94	8.53	31.41	262	4.85	2.19	2.36	4.24	0.73
	7/14/2005	39.94	10.61	29.33	753	20.6	11.9	16.8	33.23	2.36
	10/13/2005	39.94	12.80	27.14	1,690	5.3	2.71	12.6	54	1.93
	1/3/2006	39.94	6.39	33.55	250 Y	0.80	<0.5	0.61	<0.5	1.1
	4/7/2006	39.94	8.10	31.84	3,440	0.64	<2.0	17	<1.0	<0.5
	9/7/2006	39.94	14.52	25.42	320	2.87	<2.0	4.76	1.34	<0.5
	11/28/2006	39.94	12.17	27.77	774	1.81	<2.0	6.76	3.03	<0.5
	MW-8	10/2/1995	97.25	12.86	84.39	NA	NA	NA	NA	NA
1/3/1996		97.25	9.79	87.46	94,000	310	250	180	480	NA
4/3/1996		97.25	7.98	89.27	58,000	250	170	140	330	NA
12/9/1996		97.25	11.13	86.12	27,000	88	43	44	80	ND
4/10/1997		97.25	12.95	84.30	24,000	86	55	50	100	ND
12/30/1997		97.25	8.95	88.30	28,000	6,000	1,600	2,100	4,700	NA
6/30/1998		97.25	NM	NM	54,000	4,600	2,800	3,500	7,300	NA
9/29/1998		97.25	13.02	84.23	NA	NA	NA	NA	NA	NA
12/16/1998		97.25	10.75	86.50	61,000	6,300	1,700	2,200	4,400	1,300
3/16/1999		97.25	7.58	89.67	22,000	1,800	470	2,000	2,000	820
6/10/1999		97.25	10.80	86.45	39,500	3,610	1,635	2,175	5,913	988
8/23/1999		97.25	12.75	84.50	58,000	5,379	2,438	3,001	6,960	639
11/9/1999		97.25	13.65	83.60	10,500	92	<5	<5	3,414	769
2/7/2000		97.25	10.85	86.40	44,200	1,080	617	<5	4,160	240
5/31/2000		97.25	11.15	86.10	25,940	940	130	1,600	3,960	75
8/9/2000		97.25	12.87	84.38	22,000	632	5.38	<5	2,686	37.3
11/2/2000		97.25	12.55	84.70	3,000	278	350	209	980	21
3/13/2001	97.25	8.75	88.50	2,360	81	16	71	270	221	
8/8/2001	97.25	12.97	84.28	5,620	153	46	373	345	174	
11/19/2001	97.25	13.19	84.06	13,000	600	270	750	1,200	400	

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3609 International Boulevard, Oakland, California

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MW-8 cont.	2/21/2002	97.25	9.88	87.37	240,000	1,400	<25	4,200	6,560	<100
	5/7/2002	97.25	10.32	86.93	9,000	360	56	560	622	2,100
	7/30/2002	39.38	11.79	27.59	8,400	340	78	530	517	1,200
	10/20/2002	39.38	13.80	25.58	18,000	950	75	1,400	1,269	700
	1/3/2003	39.38	9.48	29.90	8,100	300	29	370	302	1,100
	5/3/2003	39.38	9.48	29.90	18,000	380	33 C	1,000	516	540
	7/24/2003	39.38	11.92	27.46	12,000	460	54 C	910	435	890
	10/22/2003	39.38	13.09	26.29	16,000	830	87	2,000	675	280
	1/22/2004	39.38	10.32	29.06	18,000	330	37 C	860	239	500
	4/1/2004	39.38	11.23	28.15	12,000	240	26 C	650	128.8 C	<4
	8/20/2004	39.38	13.02	26.36	6,000	310	27	660	56.8 C	<4
	12/8/2004	39.38	10.79	28.59	6,650	171	15	360	35	166
	3/15/2005	39.38	7.62	31.76	11,400	125	21	418	55.3	865
	5/16/2005	39.38	9.15	30.23	10,100	122	13.2	440	34.73	406
	7/14/2005	39.38	10.81	28.57	11,600	213	27.8	854	71.51	184
	10/13/2005	39.38	12.81	26.57	6,590	256	27.7	655	48.50	375
	1/3/2006	39.38	7.40	31.98	4,800	53	5.2	130	21	210
	4/6/2006	39.38	6.04	33.34	8,240	82.5	14.6	364	28.06	771
	9/7/2006	39.38	12.15	27.23	4,130	86.80	7.32	173	19.73	48.60
	11/28/2006	39.38	11.92	27.46	3,680	198	15.10	313	23.82	149
MW-10	12/1/1996	94.54	10.44	84.10	NA	NA	NA	NA	NA	NA
	4/10/1997	94.54	10.07	84.47	1,000	21	9	3	3	ND
	12/30/1997	94.54	8.78	85.76	10,000	5,300	76	1,100	780	NA
	9/29/1998	94.54	11.93	82.61	9,900	5,400	66	970	620	2,600
	12/16/1998	94.54	10.19	84.35	8,700	3,800	51	790	420	1,800
	3/16/1999	94.54	7.30	87.24	4,100	15	28	420	250	2,800
	6/10/1999	94.54	9.95	84.59	4,200	1,168	34	264	154	1,195
	8/23/1999	94.54	11.60	82.94	3,250	2,135	97	600	248	1,800
	11/9/1999	94.54	12.50	82.04	2,950	1,134	20	<5	70	652
	2/7/2000	94.54	9.25	85.29	<50	<5	<5	<5	<5	448
	5/31/2000	94.54	9.45	85.09	4,400	1,500	25	390	107.1	580
	8/9/2000	94.54	11.52	83.02	6,800	1,055	26	54	53.8	1,283
11/2/2000	94.54	11.35	83.19	ND	ND	ND	ND	ND	145	

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3609 International Boulevard, Oakland, California

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MW-10 cont.	3/13/2001	94.54	8.07	86.47	4,935	969	18	41	72	630
	5/22/2001	94.54	9.80	84.74	2,900	630	11	200	31	270
	8/8/2001	94.54	11.64	82.90	242	35	1	11	2	64
	11/19/2001	94.54	12.06	82.48	3,500	900	260	310	258	410
	2/21/2002	94.54	8.28	86.26	4,700	1,100	20	370	63.7	500
	5/7/2002	94.54	9.49	85.05	3,400	660	13	260	48.0	270
	7/30/2002	36.71	10.93	25.78	160	26	0.55	8.1	1.0	72
	10/20/2002	36.71	12.54	24.17	550	130	3.00	31.0	2.7	70
	1/3/2003	36.71	8.23	28.48	17,000	870	11	290	27	270
	5/3/2003	36.71	8.30	28.41	2,500	650	10	190	15.81 C	180
	7/24/2003	36.71	10.76	25.95	750	160	4	58	6.66 C	79
	10/22/2003	36.71	11.91	24.80	2,000	410	11	170	9.14 C	110
	1/22/2004	36.71	8.91	27.80	4,000	600	15	280	15.3 C	110
	4/1/2004	36.71	9.62	27.09	5,100	580	<1	330	26.4	160
	8/20/2004	36.71	11.50	25.21	3,400	550	13	240	17.0	100
	12/7/2004	36.71	9.29	27.42	2,524	556	10	184	16.0	144
	3/15/2005	36.71	7.48	29.23	4,340	354	6.07	166	17.1	258
	5/16/2005	36.71	8.24	28.47	4,750	415	6.87	254	10.4	126
	7/14/2005	36.71	9.78	26.93	6,050	594	9.53	297	10.7	190
	10/13/2005	36.71	11.32	25.39	6,230	811	11.3	355	5.6	167
	1/3/2006	36.71	6.81	29.90	2,000	350	6.0	210	16	88
	4/6/2006	36.71	6.03	30.68	600	86.5	<2.0	59.1	2.36	30.4
9/7/2006	36.71	10.90	25.81	6,960	360	<8.60	253	11.30	103	
11/28/2006	36.71	10.92	25.79	2,800	305	<8.6	228	<8.6	72.8	
MW-11	12/1/1996	95.94	11.99	83.95	NA	NA	NA	NA	NA	NA
	4/1/1997	95.94	11.47	84.47	NA	NA	NA	NA	NA	NA
	12/30/1997	95.94	10.40	85.54	710	66	97	59	190	NA
	6/30/1998	95.94	NM	NM	1,100	45	24	71	100	NA
	9/29/1998	95.94	13.24	82.70	170	7	1	4	9	22
	12/16/1998	95.94	11.58	84.36	650	27	4	25	33	>0.5
	3/16/1999	95.94	8.81	87.13	710	30	6	53	84	8
	6/10/1999	95.94	11.50	84.44	4,600	1,240	35	290	159	1,291
	8/23/1999	95.94	12.75	83.19	170	4	4	ND	6	ND
	11/9/1999	95.94	13.85	82.09	<50	<5	<5	<5	<5	<5

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3609 International Boulevard, Oakland, California

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MW-11 cont.	2/7/2000	95.94	13.60	82.34	700	20	15	<5	35	<5
	8/9/2000	95.94	14.87	81.07	590	10.5	5.94	<5	7.75	<5
	11/2/2000	95.94	12.55	83.39	60	ND	ND	ND	ND	ND
	3/13/2001	95.94	9.61	86.33	273	8.6	2.1	10	14	ND
	5/22/2001	95.94	11.15	84.79	280	12	8.3	3.3	9.8	12
	8/8/2001	95.94	13.04	82.90	NA	NA	NA	NA	NA	NA
	11/19/2001	95.94	13.48	82.46	300	7.9	26	5.1	28.9	ND
	2/21/2002	95.94	9.69	86.25	560	34	20	32	37.3	< 0.5
	5/7/2002	95.94	10.99	84.95	280	16	3	7.6	7.6	<2
	7/30/2002	NS	13.24	NC	120	5.6	<0.5	0.61	0.53	<2.0
	10/20/2002	NS	NM	NC	NA	NA	NA	NA	NA	NA
	1/3/2003	NS	9.76	NC	700	32	5.7	25	14.10	<2.0
	5/3/2003	NS	9.66	NC	280	17	1.5 C	8	4.10	<2.0
	7/24/2003	NS	12.30	NC	340	19 C	3.2	0.58	0.89	<2.0
	10/22/2003	NS	13.38	NC	210	5.0 C	<0.5	<0.5	<0.5	<0.5
	1/22/2004	NS	NM	NC	NA	NA	NA	NA	NA	NA
	4/1/2004	NS	NM	NC	NA	NA	NA	NA	NA	NA
	8/20/2004	NS	NM	NC	NA	NA	NA	NA	NA	NA
	12/7/2004	NS	10.54	NC	486	24	3.0	18	4.00	<0.5
	3/15/2005	NS	NM	NC	NA	NA	NA	NA	NA	NA
	5/16/2005	NS	NM	NC	NA	NA	NA	NA	NA	NA
	7/14/2005	NS	NM	NC	NA	NA	NA	NA	NA	NA
	10/13/2005	NS	NM	NC	NA	NA	NA	NA	NA	NA
1/3/2006	NS	NM	NC	NA	NA	NA	NA	NA	NA	
4/6/2006	NS	7.72	NC	872	19.8	3.63	37.5	3.28	<0.5	
MW-12	11/9/1999	94.84	13.20	81.64	80	<5	<5	<5	<5	229
	2/7/2000	94.84	10.20	84.64	4,000	351	37	<5	24	513
	5/31/2000	94.84	10.48	84.36	3,930	230	10	34	12	200
	8/9/2000	94.84	12.07	82.77	1,730	15.4	12.4	<5	<5	185
	11/2/2000	94.84	12.05	82.79	1,010	9.3	19.0	ND	7.40	215
	3/13/2001	94.84	9.04	85.80	1,517	13	5.6	5.5	11	214
	5/22/2001	94.84	10.52	84.32	31,000	1,200	ND	95	165	1,900
	8/8/2001	94.84	12.24	82.60	2,090	71	1.8	3	4	142
	11/19/2001	94.84	12.76	82.08	3,000	81	69	13	73	120

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3609 International Boulevard, Oakland, California

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MW-12 cont.	2/21/2002	94.84	8.78	86.06	2,500	77	<0.5	5.7	7.4	95
	5/7/2002	94.84	10.26	84.58	2,700	74	<0.5	20	5.1	94
	7/30/2002	36.84	10.93	25.91	2,200	57	<0.5	11	2.6	100
	10/20/2002	36.84	13.13	23.71	2,600	71	<0.5	<0.5	10.3	84
	1/3/2003	36.84	9.23	27.61	2,300	65	<0.5	1	4.00	86
	5/3/2003	36.84	9.24	27.60	2,200	58	<0.5	4.2 C	4.1 C	96
	7/24/2003	36.84	11.44	25.40	2,200	32 C	16 C	<0.5	9.20	66
	10/22/2003	36.84	12.50	24.34	2200 H	31 C	<0.5	<0.5	3.5 C	49
	1/22/2004	36.84	9.56	27.28	1,700	24 C	14 C	3	5.00	72
	4/1/2004	36.84	10.21	26.63	2,000	11 C	<0.5	<0.5	5 C	36
	8/20/2004	36.84	12.00	24.84	1,900	8.9 C	<0.5	<0.5	1.1 C	26
	12/7/2004	36.84	10.03	26.81	1,018	2	<0.5	<0.5	<1.0	26
	3/15/2005	36.84	8.49	28.35	1,890	4.25	<0.5	6.38	<1.0	30.6
	5/16/2005	36.84	9.07	27.77	1,080	<0.5	<0.5	<0.5	<1.0	20.6
	7/14/2005	36.84	10.43	26.41	1,580	2.71	<2.0	3.33	<1.0	29.3
	10/13/2005	36.84	12.08	24.76	1,560	0.74	<2.0	<0.50	<1.0	28.1
	1/3/2006	36.84	7.89	28.95	480 Y	13	<0.5	<0.5	<0.5	30
	4/6/2006	36.84	7.92	28.92	1,310	<0.5	<2.0	<0.5	<1.0	31.1
	9/7/2006	36.84	11.44	25.40	1,220	0.61	<2.0	2.69	<1.0	23.7
	11/28/2006	36.84	11.61	25.23	543	2.15	<2.0	1.72	<2.0	27.6
FDC	2/7/2000	97.10	15.40	81.70	NA	NA	NA	NA	NA	NA
	5/31/2000	97.10	12.41	84.69	NA	NA	NA	NA	NA	NA
	8/9/2000	97.10	15.70	81.40	NA	NA	NA	NA	NA	NA
	11/2/2000	97.10	16.85	80.25	NA	NA	NA	NA	NA	NA
	3/13/2001	97.10	9.39	87.71	NA	NA	NA	NA	NA	NA
	5/22/2001	97.10	15.85	81.25	NA	NA	NA	NA	NA	NA
	8/8/2001	97.10	13.30	83.80	NA	NA	NA	NA	NA	NA
	11/19/2001	97.10	17.82	79.28	NA	NA	NA	NA	NA	NA
	2/21/2002	97.10	16.74	80.36	NA	NA	NA	NA	NA	NA
	5/7/2002	97.10	10.36	86.74	NA	NA	NA	NA	NA	NA
	7/30/2002	39.35	11.93	27.42	NA	NA	NA	NA	NA	NA
	10/20/2002	39.35	13.74	25.61	NA	NA	NA	NA	NA	NA
	1/3/2003	39.35	15.18	24.17	NA	NA	NA	NA	NA	NA
	5/3/2003	39.35	16.20	23.15	NA	NA	NA	NA	NA	NA
	7/24/2003	39.35	16.45	22.90	NA	NA	NA	NA	NA	NA
10/22/2003	39.35	16.53	22.82	NA	NA	NA	NA	NA	NA	

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3609 International Boulevard, Oakland, California

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FDC cont.	1/22/2004	39.35	13.74	25.61	NA	NA	NA	NA	NA	NA
	4/1/2004	39.35	16.30	23.05	NA	NA	NA	NA	NA	NA
	8/20/2004	39.35	16.05	23.30	NA	NA	NA	NA	NA	NA
	12/7/2004	39.35	14.56	24.79	NA	NA	NA	NA	NA	NA
	3/16/2005	39.35	13.55	25.80	NA	NA	NA	NA	NA	NA
	5/17/2005	39.35	14.88	24.47	NA	NA	NA	NA	NA	NA
	7/14/2005	39.35	14.32	25.03	NA	NA	NA	NA	NA	NA
	10/13/2005	39.35	14.99	24.36	NA	NA	NA	NA	NA	NA
	1/3/2006	39.35	11.82	27.53	NA	NA	NA	NA	NA	NA
	4/6/2006	39.35	13.60	25.75	NA	NA	NA	NA	NA	NA
	9/7/2006	39.35	15.05	24.30	NA	NA	NA	NA	NA	NA
	11/28/2006	39.35	15.47	23.88	NA	NA	NA	NA	NA	NA
	FDE	5/31/2000	97.90	13.22	84.68	NA	NA	NA	NA	NA
8/9/2000		97.90	NM	NM	NA	NA	NA	NA	NA	NA
11/2/2000		97.90	12.75	85.15	NA	NA	NA	NA	NA	NA
3/13/2001		97.90	9.14	88.76	NA	NA	NA	NA	NA	NA
5/22/2001		97.90	13.05	84.85	NA	NA	NA	NA	NA	NA
8/8/2001		97.90	13.69	84.21	NA	NA	NA	NA	NA	NA
11/19/2001		97.90	13.92	83.98	NA	NA	NA	NA	NA	NA
2/21/2002		97.90	13.18	84.72	NA	NA	NA	NA	NA	NA
5/7/2002		97.90	11.18	86.72	NA	NA	NA	NA	NA	NA
7/30/2002		40.06	12.81	27.25	NA	NA	NA	NA	NA	NA
10/20/2002		40.06	14.53	25.53	NA	NA	NA	NA	NA	NA
1/3/2003		40.06	13.13	26.93	NA	NA	NA	NA	NA	NA
5/3/2003		40.06	11.79	28.27	NA	NA	NA	NA	NA	NA
7/24/2003		40.06	13.10	26.96	NA	NA	NA	NA	NA	NA
10/22/2003		40.06	13.85	26.21	NA	NA	NA	NA	NA	NA
1/22/2004		40.06	13.27	26.79	NA	NA	NA	NA	NA	NA
4/1/2004		40.06	13.20	26.86	NA	NA	NA	NA	NA	NA
8/20/2004		40.06	14.97	25.09	NA	NA	NA	NA	NA	NA
12/7/2004		40.06	14.25	25.81	NA	NA	NA	NA	NA	NA
3/16/2005		40.06	12.50	27.56	NA	NA	NA	NA	NA	NA
5/17/2005		40.06	13.93	26.13	NA	NA	NA	NA	NA	NA
7/14/2005		40.06	13.98	26.08	NA	NA	NA	NA	NA	NA
10/13/2005		40.06	13.60	26.46	NA	NA	NA	NA	NA	NA

Table 1
Historical Groundwater Elevation Data & Analytical Results
3609 International Boulevard, Oakland, California

Monitoring Well	Date	Top Of 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 ² EPA 8260B (µg/L)
FDE cont.	1/3/2006	40.06	9.83	30.23	NA	NA	NA	NA	NA	NA
	4/6/2006	40.06	11.30	28.76	NA	NA	NA	NA	NA	NA
	9/7/2006	40.06	13.52	26.54	NA	NA	NA	NA	NA	NA
	11/28/2006	40.06	13.73	26.33	NA	NA	NA	NA	NA	NA
FDW	5/31/2000	96.90	12.20	84.70	NA	NA	NA	NA	NA	NA
	8/9/2000	96.90	NM	NM	NA	NA	NA	NA	NA	NA
	11/2/2000	96.90	15.50	81.40	NA	NA	NA	NA	NA	NA
	3/13/2001	96.90	10.12	86.78	NA	NA	NA	NA	NA	NA
	5/22/2001	96.90	13.50	83.40	NA	NA	NA	NA	NA	NA
	8/8/2001	96.90	13.08	83.82	NA	NA	NA	NA	NA	NA
	11/19/2001	96.90	14.31	82.59	NA	NA	NA	NA	NA	NA
	2/21/2002	96.90	12.78	84.12	NA	NA	NA	NA	NA	NA
	5/7/2002	96.90	10.14	86.76	NA	NA	NA	NA	NA	NA
	7/30/2002	39.16	11.79	27.37	NA	NA	NA	NA	NA	NA
	10/20/2002	39.16	13.50	25.66	NA	NA	NA	NA	NA	NA
	1/3/2003	39.16	12.13	27.03	NA	NA	NA	NA	NA	NA
	5/3/2003	39.16	10.84	28.32	NA	NA	NA	NA	NA	NA
	7/24/2003	39.16	12.12	27.04	NA	NA	NA	NA	NA	NA
	10/22/2003	39.16	13.48	25.68	NA	NA	NA	NA	NA	NA
	1/22/2004	39.16	13.58	25.58	NA	NA	NA	NA	NA	NA
	4/1/2004	39.16	13.90	25.26	NA	NA	NA	NA	NA	NA
	8/20/2004	39.16	15.69	23.47	NA	NA	NA	NA	NA	NA
	12/7/2004	39.16	14.85	24.31	NA	NA	NA	NA	NA	NA
	3/16/2005	39.16	13.10	26.06	NA	NA	NA	NA	NA	NA
5/17/2005	39.16	14.60	24.56	NA	NA	NA	NA	NA	NA	
7/14/2005	39.16	15.10	24.06	NA	NA	NA	NA	NA	NA	
10/13/2005	39.16	13.34	25.82	NA	NA	NA	NA	NA	NA	

Table 1
Historical Groundwater Elevation Data & Analytical Results
3609 International Boulevard, Oakland, California

Monitoring Well	Date	Top Of 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 ² EPA 8260B (µg/L)
FDW cont.	1/3/2006	39.16	12.61	26.55	NA	NA	NA	NA	NA	NA
	4/6/2006	39.16	12.80	26.36	NA	NA	NA	NA	NA	NA
	9/7/2006	39.16	15.80	23.36	NA	NA	NA	NA	NA	NA
	11/28/2006	39.16	14.10	25.06	NA	NA	NA	NA	NA	NA

Notes:

¹ Top of casing elevations were re-surveyed to comply with the EDF requirements for electronic reporting of data to the State Water Resources Control Board Database on August 9, 2002.

² MtBE was analyzed using the EPA Method 8021B and confirmed using 8260B.

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

H: Heavier hydrocarbons may have contributed to the quantitation.

NA: Not Analyzed

NA: Not Applicable, Well/Drain did not exist at time of sampling

NC: Not calculated. No top of casing elevation was available for MW-11.

ND, < : Not Detected above laboratory reporting limits.

NM: Not Measured

NS: Not Surveyed.

Y: Sample exhibits fuel pattern which does not resemble standard.

FDC: French drain center riser.

FDE: French drain east riser.

FDW: French drain west riser.

Well MW-4R replaced damaged well MW-4 on April 11, 2005. The first time well MW-4R was monitored was in the Second Quarter 2005

NS: Not surveyed. Well MW-11 was not surveyed due to obstructions surrounding well.

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Ethyl benzene	Total Xylenes
		Reading (gallons)	(concentrations in ug/L)						
			MtBE ²	TPH-g	Benzene	Toluene			
2006									
November	11/20/2006	3,455,980	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<2.0 <2.0	
October	10/18/2006	3,447,850	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0	
September	9/27/2006	3,441,500	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
August	8/14/2006	3,425,340	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0	
July	7/24/2006	3,414,800	<0.5 <0.5	<50 <50	<0.5 0.94	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0	
June	6/15/2006	3,387,940	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel						
	6/7/2006	3,379,880	<0.5 2.89	<50 <50	<0.5 5.3	<2.0 <2.0	<0.5 1.24	<1.0 4.91	
May	5/18/2006	3,350,260	replaced existing 200 gallon holding tank with newer 200 gallon tank						
	5/11/2006	3,337,750	<0.5 0.61	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0	
April	4/19/2006	3,268,110	<0.5 1.66	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0	
	4/10/2006	3,236,770	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel						
March	3/10/2006	3,220,570	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0	
February	2/10/2006	3,186,590	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0	
January	1/4/2006	3,122,610	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Ethyl benzene	Total Xylenes
		Reading (gallons)	(concentrations in ug/L)						
			MtBE ²	TPH-g	Benzene	Toluene			
2005									
December	12/9/2005	3,081,750	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0	
November	11/14/2005	3,072,540	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0	
October	10/17/2005	3,065,260	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0	
September	9/29/2005	3,060,640	Replaced existing 2000 lb carbon vessel with newer 2000 lb vessel, also replaced 55 gallon polishing vessel						
	9/12/2005	3,055,676	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0	
August	8/8/2005	3,042,586	<0.5 0.51	<200 <200	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0	
July	7/7/2005	3,026,010	<0.5 <0.5	<200 <200	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0	
2005									
June	6/9/2005	3,000,386	<0.5 0.61	<200 <200	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0	
May	5/9/2005	2,971,430	<0.5 <0.5	<200 <200	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <1.0	
	5/4/2005	2,964,270	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel totalizer changed at meter reading of 2,189,270						
April	4/4/2005	2,904,500	<0.5 <0.5	<200 <200	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <1.0	

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Ethyl benzene	Total Xylenes
		Reading	(concentrations in ug/L)						
		(gallons)	MtBE ²	TPH-g	Benzene	Toluene			
2005									
March	3/21/2005	2,874,170	<0.5 <0.5	<200 <200	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <1.0	
February	2/14/2005	2,828,000	55 Gallon Drum Changed Out						
	2/7/2005	2,819,000	<5.0 <5.0	<50 <50	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	
January	1/19/2005	2,775,000	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel						
	1/3/2005	2,730,480	3.6 3.8	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
2004									
December	12/6/2004	2,667,620	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <1.0	
November	11/8/2004	2,631,600	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
October	10/13/2004	2,606,420	< 2.0 <2.0	< 50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
September	9/13/2004	2,594,390	< 2.0 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
August	8/25/2004	2,586,010	55 Gallon Drum Changed Out						
	8/9/2004	2,581,250	< 2.0 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
July	7/13/2004	2,568,830	< 2.0 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
	7/21/2004	2,564,710	55 Gallon Drum Changed Out						

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Ethyl benzene	Total Xylenes
		Reading	(concentrations in ug/L)						
		(gallons)	MtBE ²	TPH-g	Benzene	Toluene			
2004									
June	6/14/2004	2,549,470	< 2.0 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
May	5/26/2004	2,530,000	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel						
	5/10/2004	2,488,760	Semi Annual Treatment System Meeting With Ebmud						
	5/17/2004	2,518,910	Replaced 55-gallon polishing vessel and restarted the system						
	5/5/2004	2,500,650	Carbon Changed Out and 55 Gallon Drum Changed Out						
	5/3/2004	2,497,350	< 2.0 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
April	4/15/2004	2,436,190	< 5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
March	3/17/2004	2,376,200	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel						
February	2/24/2004	2,276,770	< 5.0 <5.0	< 5.0 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
January	1/27/2004	2,165,220	< 5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
	1/13/2004	2,116,720	< 5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1				Ethyl benzene	Total Xylenes	
		Reading	(concentrations in ug/L)						
		(gallons)	MtBE ²	TPH-g	Benzene	Toluene			
2003									
December	12/8/2003	2,092,330	< 5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
November	11/17/2003	2,087,670	< 5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
	11/3/2003	2,079,460	< 5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
October	10/13/2003	2,073,060	5.3 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
	10/1/2003	2,072,610	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel						
September	9/15/2003	2,056,910	<5.0 6	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
	9/2/2003	2,040,040	<5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
August	8/19/2003	2,021,040	<5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
July	7/21/2003	1,995,240	< 5.0 40	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
	7/9/2003	1,990,260	< 5.0 36	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1				Ethyl benzene	Total Xylenes	
		Reading (gallons)	(concentrations in ug/L)						
			MtBE ²	TPH-g	Benzene	Toluene			
2003									
June	6/18/2003	1,978,560	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel						
	6/10/2003	1,972,780	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
May	5/21/2003	1,951,830	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
	5/1/2003	1,918,270	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
April	4/11/2003	1,882,440	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
March	3/19/2003	1,846,490	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
February	2/25/2003	1,804,960	replaced 55-gallon polishing vessel with new 55 gallon carbon drum						
	2/19/2003	1,791,720	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
January	1/27/2003	1,733,500	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
	1/2/2003	1,675,600	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Ethyl benzene	Total Xylenes
		Reading	(concentrations in ug/L)						
		(gallons)	MtBE ²	TPH-g	Benzene	Toluene			
2002									
December	12/10/2002	1,672,870	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
November	11/22/2002	1,668,650	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
	11/13/2002	1,664,780	replaced gasket on top of 2000 lb GAC vessel, slight leak was detected						
	11/7/2002	1,663,880	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel						
October	10/16/02 ³	1,661,590	< 310 < 0.5	2,000 Y Z < 50	< 310 < 0.5	< 310 < 0.5	< 310 < 0.5	< 310 < 0.5	
September	9/19/2002	1,653,600	< 5 < 5	< 50 < 50	< 5 < 5	< 5 < 5	< 5 < 5	< 5 < 5	
August	8/23/2002	1,641,650	1 < 0.5	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	
July	7/23/2002	1,632,834	<5.0 < 5.0	< 50 < 50	<5.0 < 5.0	<5.0 < 5.0	<5.0 < 5.0	<5.0 < 5.0	
June	6/24/2002	1,610,050	1.7 < 0.5	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	
May	5/30/2002	1,571,630	< 0.5 < 0.5	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	
	5/20/2002	1,548,000	removed newly installed compressor, installed another compressor						
	5/8/2002	1,538,850	installed new compressor						
	5/1/2002	1,529,650	installed new 55 gallon GAC Vessel						
April	4/24/2002	1,528,740	< 0.5 < 0.5	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	
	4/1/2002	1,478,500	repaired valve plate assembly on compressor						

Table 2
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3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Ethyl benzene	Total Xylenes	
		Reading	(concentrations in ug/L)							
		(gallons)	MtBE ²	TPH-g	Benzene	Toluene				
2002										
March	3/25/2002	1,478,420	performed carbon change-out on treatment system							
	3/18/2002	NR	replaced piston on compressor							
	3/14/2002	1,478,330	compressor not building up pressure							
February	2/27/2002	1,449,830	< 0.5 1.1	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5		
January	1/22/2002	1,381,370	< 2.0 < 2.0	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5		
2001										
December	12/12/2001	1,311,340	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND		
November	11/2/2001	1,272,660	ND 0.6	ND ND	ND ND	ND ND	ND ND	ND ND		
September	9/28/2001	NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND		
August	8/22/2001	1,243,100	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND		
July	7/26/2001	1,227,270	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND		
	7/11/2001	1,226,730	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA		

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1				Ethyl benzene	Total Xylenes	
		Reading	(concentrations in ug/L)						
		(gallons)	MtBE ²	TPH-g	Benzene	Toluene			
2001									
June	6/29/2001	1,224,600	NA ND	NA ND	NA ND	NA ND	NA ND	NA ND	
	6/26/2001	NR	installed new compressor						
	6/16/2001	1,216,580	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
	6/7/2001	1,216,580	compressor not working, repaired compressor						
			NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
May	5/30/2001	1,205,198	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
	5/23/2001	1,194,390	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
	5/17/2001	1,182,360	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
	5/10/2001	1,166,850	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
	5/5/2001	1,151,600	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
April	4/28/2001	1,135,690	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
	4/21/2001	1,113,570	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
	4/11/2001	1,082,700	NA ND	ND ND	ND ND	ND ND	ND ND	ND ND	
	4/6/2001	1,065,540	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Ethyl benzene	Total Xylenes
		Reading	(concentrations in ug/L)						
		(gallons)	MtBE ²	TPH-g	Benzene	Toluene			
2001									
March	3/29/2001	1,036,330	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
			system was re-started						
	3/21/2001	1,036,070	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
			belt replaced on compressor						
	3/17/2001	1,035,100	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
	3/13/2001	1,032,500	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	
	3/2/2001	996,520	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
	3/1/2001	NR	system re-started after carbon change-out						
February	2/28/2001	NR	Carbon Change-out was performed on GAC-1, washed algae from holding tank cleaned 2000 lb GAC, re-started system						
	2/10/2001	975,490	System shut down for maintenance and cleaning.						
January	1/29/2001	957,880	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
2000									
December	12/5/2000	883,000	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
November	11/24/2000	NR	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
	11/1/2000	842,000	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1				Ethyl benzene	Total Xylenes
		Reading	(concentrations in ug/L)					
		(gallons)	MtBE ²	TPH-g	Benzene	Toluene		
2000								
October	10/1/2000	809,000	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
August	8/27/2000	781,000	ND	ND	ND	ND	ND	ND
	8/24/2000	778,000	totalizer changed at meter reading of 775,000					
July	7/26/2000	726,000	ND	ND	ND	ND	ND	ND
	7/19/2000	718,000	ND	ND	ND	ND	ND	ND
	7/13/2000	712,000	ND	ND	ND	ND	ND	ND
	7/7/2000	706,000	ND	ND	ND	ND	ND	ND
June	6/29/2000	700,000	ND	ND	ND	ND	ND	ND
	6/21/2000	682,220	ND	ND	ND	ND	ND	ND
	6/16/2000	669,720	ND	ND	ND	ND	ND	ND
	6/10/2000	651,200	ND	ND	ND	ND	ND	ND
May	5/31/2000	629,000	ND	ND	ND	ND	ND	ND
	5/23/2000	603,700	ND	ND	ND	ND	ND	ND
	5/18/2000	570,000	ND	ND	ND	ND	ND	ND
	5/10/2000	530,400	ND	ND	ND	ND	ND	ND
April	4/30/2000	488,300	ND	ND	ND	ND	ND	ND
	4/18/2000	485,300	ND	ND	ND	ND	ND	0.51
			compressor stopped, system shut down until April 29, 2000					
	4/10/2000	440,200	ND	ND	ND	ND	ND	ND
	4/4/2000	390,100	ND	ND	ND	ND	ND	ND
	4/2/2000	NR	performed a carbon change-out on GAC-1					

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Ethyl benzene	Total Xylenes	
		Reading	(concentrations in ug/L)							
		(gallons)	MtBE ²	TPH-g	Benzene	Toluene				
2000										
March	3/31/2000	NR	replaced GAC-2 with a special GAC designed for removal of MtBE							
	3/24/2000	388,000	ND	ND	ND	ND	ND	ND		
	3/17/2000	357,100	ND	ND	ND	ND	ND	ND		
	3/10/2000	329,000	ND	ND	ND	ND	ND	ND		
	3/3/2000	300,000	transfer overheated, repaired pump, restarted system 3/6/00							
February	2/25/2000	274,000	ND	ND	ND	ND	ND	ND		
	2/18/2000	233,000	ND	ND	ND	ND	ND	ND		
	2/11/2000	190,000	ND	ND	ND	ND	ND	ND		
	2/4/2000	160,800	ND	ND	ND	ND	ND	ND		
January	1/28/2000	130,600	ND	ND	ND	ND	ND	ND		
	1/21/2000	103,435	ND	ND	ND	ND	ND	ND		
	1/17/2000	NR	GAC-1 was replaced with 2,000 lb GAC unit							
	1/14/2000	83,500	second polishing GAC was replaced with 55 gallon GAC unit							
	1/14/2000	83,500	185	ND	ND	ND	ND	ND		
1999										
December	12/23/1999	51,680	1486	NA	ND	ND	ND	ND		
	12/23/1999	51,680	ND	NA	ND	ND	ND	ND		
	12/16/1999	30,450	963	NA	ND	ND	ND	ND		
	12/16/1999	30,450	ND	NA	ND	ND	ND	ND		
	12/9/1999	9,000	230	ND	ND	ND	ND	ND		
Pumping began on December 6, 1999										

Notes:

- 1 Effluent is equivalent to PSP#1
 - 2 MTBE was analyzed using EPA Method 8260B, prior to the September 2003. After September 2003, MtBE was only analyzed by EPA Method 8021B.
 - 3 Lab data as shown for Oct. 2002 is erroneous data. During lab analysis a high detection of 2-Butanone was detected in only the effluent sample. The influent sample for 2-Butanone was at only 20 ppb. This caused a high dilution factor causing a high non-detectable value. The high TPH-g value was misrepresentative due to the Y and Z flags.
- ND, < : Not Detected above laboratory reporting limits
 NA: Not Analyzed
 NR: Not recorded. Totalizer reading not recorded.
 Y: Sample exhibits fuel pattern which does not resemble standard
 Z: Sample exhibits unknown single peak or peaks

Table 3
Total Mass of Petroleum Hydrocarbons Removed
by the Vapor Extraction System & Historical Operational Data
3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Air Flow (ft ³)	Mass Removed ¹ (Pounds)
		Influent	Effluent					
2000								
7/24/2000	5:00 PM	394	0	85	0.0	0	0	0.00
7/25/2000	5:15 PM	38	2	95	24.3	3,911,768	138,225	1.35
7/26/2000	5:05 PM	207	1	80	24.0	3,260,160	115,200	6.15
7/27/2000	9:00 AM	160	5	92	16.0	2,499,456	88,320	3.64
7/28/2000	4:30 PM	141	7	87	31.5	4,653,369	164,430	5.98
7/29/2000	1:30 PM	225	8	85	21.0	3,030,930	107,100	6.21
7/30/2000	9:00 AM	226	12	85	19.5	2,814,435	99,450	5.79
7/31/2000	3:00 PM	141	5	85	30.0	4,329,900	153,000	5.56
8/1/2000	5:00 PM	135	4	80	26.0	3,531,840	124,800	4.34
8/2/2000	4:00 PM	80	4	80	23.0	3,124,320	110,400	2.28
8/3/2000	5:00 PM	60	5	85	25.0	3,608,250	127,500	1.97
8/4/2000	3:00 PM	57	4	85	22.0	3,175,260	112,200	1.65
8/5/2000	2:00 PM	97	8	87	23.0	3,397,698	120,060	3.00
8/6/2000	12:00 PM	114	8	80	22.0	2,988,480	105,600	3.10
8/7/2000	12:00 PM	93	9	85	24.0	3,463,920	122,400	2.93
8/8/2000	4:30 PM	152	10	85	28.5	4,113,405	145,350	5.70
8/10/2000	10:00 AM	173	1	85	41.5	5,989,695	211,650	9.44
8/11/2000	7:00 AM	78	4	70	21.0	2,496,060	88,200	1.77
8/12/2000	9:00 AM	100	6	70	26.0	3,090,360	109,200	2.82
8/13/2000	5:00 PM	107	9	70	32.0	3,803,520	134,400	3.71
8/14/2000	12:30 PM	122	5	70	19.5	2,317,770	81,900	2.58
8/15/2000	6:00 PM	103	12	70	29.5	3,506,370	123,900	3.29
8/16/2000	12:30 PM	112	0	70	18.5	2,198,910	77,700	2.24
8/18/2000	9:00 AM	90	0	75	44.5	5,667,075	200,250	4.65
8/21/2000	12:00 PM	74	5	80	75.0	10,188,000	360,000	6.87
8/24/2000	12:00 PM	68	13	80	72.0	9,780,480	345,600	6.06
8/27/2000	12:30 PM	68.5	2	80	72.5	9,848,400	348,000	6.15
8/31/2000	1:30 PM	52	6	80	97.0	13,176,480	465,600	6.24

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Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Air Flow (ft ³)	Mass Removed ¹ (Pounds)
		Influent	Effluent					
2000								
9/4/2000	12:30 PM	54	5	80	95.0	12,904,800	456,000	6.35
9/7/2000	12:00 PM	55	3	80	71.5	9,712,560	343,200	4.87
9/11/2000	4:30 PM ²	141	0	80	100.5	13,651,920	482,400	17.54
9/14/2000	9:30 AM	56	5	80	65.0	8,829,600	312,000	4.50
9/18/2000	2:00 PM	46	9.5	80	100.5	13,651,920	482,400	5.72
9/18/2000	4:30 PM ³	34	0	80	2.5	339,600	12,000	0.11
9/21/2000	4:30 PM	43	1	80	72.0	9,780,480	345,600	3.83
9/25/2000	5:30 PM	55	6	80	97.0	13,176,480	465,600	6.60
9/28/2000	9:00 AM	47.5	7.5	80	63.5	8,625,840	304,800	3.73
10/1/2000	1:00 PM	38.5	6	80	76.0	10,323,840	364,800	3.62
10/5/2000	3:00 PM ⁴	28.5	3	80	98.0	13,312,320	470,400	3.46
10/5/2000	5:00 PM	36	0	80	2.0	271,680	9,600	0.09
10/8/2000	3:00 PM	28.5	3	80	70.0	9,508,800	336,000	2.47
10/14/2000	3:00 PM	24.5	2.5	80	144.0	19,560,960	691,200	4.37
10/17/2000	2:00 PM	36.5	3.5	80	71.0	9,644,640	340,800	3.21
10/20/2000	8:30 AM	18.5	3.5	80	66.5	9,033,360	319,200	1.52
10/25/2000	2:00 PM	38	3.7	80	125.5	17,047,920	602,400	5.90
10/29/2000	10:00 AM	35	4	80	93.0	12,633,120	446,400	4.03
11/2/2000	4:00 PM	30.5	4	80	102.0	13,855,680	489,600	3.85
11/7/2000	4:00 PM	30	6	80	120.0	16,300,800	576,000	4.46
11/19/2000	12:00 PM	92.7	5.5	80	284.0	38,578,560	1,363,200	32.57
11/24/2000	1:30 PM	25	6.5	80	121.5	16,504,560	583,200	3.76
11/29/2000	3:00 PM	14.5	3.5	80	121.5	16,504,560	583,200	2.18
12/4/2000	4:30 PM	10.7	1	80	121.5	16,504,560	583,200	1.61
12/13/2000	3:30 PM	24	3	80	263.0	35,725,920	1,262,400	7.81
12/28/2000	2:30 PM	10	6	85	359.0	51,814,470	1,830,900	4.72

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Total Mass of Petroleum Hydrocarbons Removed
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3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Air Flow (ft ³)	Mass Removed ¹ (Pounds)
		Influent	Effluent					
2001								
1/4/2001 ⁵	2:00 PM	8.7	3.7	85	167.5	24,175,275	854,250	1.92
8/8/2001	3:00 PM	217	0	85	0.5	72,165	2,550	0.14
9/6/2001	12:00 PM	85	0	85	693.0	100,020,690	3,534,300	77.45
9/13/2001	4:00 PM	186	8	85	172.0	24,824,760	877,200	42.07
9/18/2001	3:00 PM	184	9	85	119.0	17,175,270	606,900	28.79
9/21/2001 ⁶		--	--	--	NC	NC	NC	NC
10/12/01 ⁷		--	--	--	NC	NC	NC	NC
10/23/2001	5:00 PM	114	58	87	0.5	73,863	2,610	0.08
10/25/01 ⁴	3:00 PM	133	0	85	46.0	6,639,180	234,600	8.04
10/29/2001 ⁸	1:20 PM	569	0	85	94.5	13,639,185	481,950	70.70
11/7/2001	3:30 PM	177	0	87	218.0	32,204,268	1,137,960	51.93
11/16/2001	3:00 PM	117	0	87	215.5	31,834,953	1,124,910	33.93
11/21/01 ⁹	12:00 PM	85	72	87	117.0	17,283,942	610,740	13.38
2002								
2/15/02 ¹⁰	4:30 PM	49	0	80	0.5	67,920	2,400	0.03
2/16/2002	3:45 PM	50	0	80	23.3	3,158,280	111,600	1.44
2/21/2002	4:00 PM	37	4	80	120.3	16,334,760	577,200	5.51
2/27/2002	10:30 AM	11	0	83	138.5	19,519,359	689,730	1.96
3/7/02 ¹¹	12:20 PM	10		80	194.0	26,352,960	931,200	2.40
6/12/2002 ¹²	4:15 PM	53	2	75	NA	NA	NA	NA
6/17/2002	11:00 AM	28	2	80	120.0	16,306,560	576,204	4.16
6/24/2002	11:20 AM	24	3.1	80	168.3	22,866,400	808,000	5.00
7/5/2002	1:25 PM	20	5	80	266.0	36,133,440	1,276,800	6.58
7/11/2002	3:30 PM	26	8.0	80	146.0	19,832,640	700,800	4.70
7/23/2002	10:10 AM	28	7.5	83	282.8	39,849,089	1,408,095	10.16
8/9/2002	12:20 PM	7.5	0	80	410.3	55,728,360	1,969,200	3.81
8/15/2002 ¹¹	3:00 PM	7.0	1	80	146.5	19,900,560	703,200	1.27
8/23/2002 ¹³	3:20 PM	NC	NC	NC	NC	NC	NC	NC
8/26/2002	11:15 AM	14.0	2.0	80	71.0	9,644,640	340,800	1.23
9/11/2002	10:10 AM	34.4	0	80	383.0	52,020,588	1,838,183	16.30
9/19/2002	10:55 AM	8.8	1.1	80	192.8	26,183,160	925,200	2.10
9/25/2002	10:30 AM	18.8	1.8	80	143.5	19,493,040	688,800	3.34

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Total Mass of Petroleum Hydrocarbons Removed
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3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Air Flow (ft ³)	Mass Removed ¹ (Pounds)
		Influent	Effluent					
2002								
10/2/2002	8:10 AM	17.1	2.5	80	165.70	22,508,688	795,360	3.51
10/9/2002		PID malfunction		80	NC	NC	NC	NC
10/16/2002	1:45 PM	17.0	4.0	80	341.50	46,389,360	1,639,200	7.18
10/24/2002	10:00 AM	16.5	6.4	80	188.25	25,571,880	903,600	3.84
11/1/2002	10:00 AM	21.1	0.0	85	192.00	27,711,360	979,200	5.33
11/6/2002	10:12 AM	PID malfunction		87	NC	NC	NC	NC
11/7/2002	11:00 AM	17.5	0.0	85	24.75	3,572,168	126,225	0.57
11/13/2002	11:30 AM	15.0	0.0	85	144.50	20,855,685	736,950	2.85
11/22/2002	2:30 PM	6.6	0.0	80	219.00	29,748,960	1,051,200	1.79
11/22/2002		system shut-down due to rainy season and low influent readings						
2003								
5/9/2003	10:30 AM	0.1	0.0	82	0.5	69,618	2,460	0.00
5/12/2003	10:30 AM	0.4	0.3	85	72.00	10,391,760	367,200	0.04
5/21/2003	11:00 AM	2.2	2.2	83	216.50	30,512,211	1,078,170	0.61
6/4/2003	10:30 AM	2.5	0.1	82	335.50	46,713,678	1,650,660	1.06
6/10/2003	10:30 AM	2.2	0.08	82	144.00	20,049,984	708,480	0.40
6/16/2003	12:15 PM	2.1	0.07	82	146.25	20,363,265	719,550	0.39
6/24/2003	4:55 PM	2.6	0.08	82	196.75	27,394,683	968,010	0.65
6/30/2003	11:30 AM	2.2	0.1	82	138.50	19,284,186	681,420	0.39
7/16/2003	12:00 PM	2.2	0.22	82	384.50	53,536,242	1,891,740	1.07
7/21/2003	10:50 AM	2.1	0.21	82	119.00	16,569,084	585,480	0.32
7/28/2003	11:15 AM	2.2	0.22	82	168.25	23,426,457	827,790	0.47
8/11/2003	12:15 PM	2.1	0.21	82	337.00	46,922,532	1,658,040	0.90
8/19/2003	10:05 AM	2.1	0.22	82	190.00	26,454,840	934,800	0.51
8/25/2003	11:30 AM	2.2	0.23	81	145.50	20,011,779	707,130	0.40
9/2/2003	10:50 AM	2.1	0.21	80	191.50	26,013,360	919,200	0.50
9/8/2003	2:10 PM	9.1	3.19	83	147.30	20,759,578	733,554	1.72
9/11/2003	10:00 AM	All 4 SVE carbon drums changed-out						
9/22/2003	1:30 PM	7	0.2	88	334.25	49,944,972	1,764,840	3.19

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Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Air Flow (ft ³)	Mass Removed ¹ (Pounds)
		Influent	Effluent					
2003								
10/1/2003	10:30 AM	6.5	0.2	85	213.00	30,742,290	1,086,300	1.82
10/6/2003	11:00 AM	7	0.3	85	120.50	17,391,765	614,550	1.11
10/13/2003	11:15 AM	5	0.2	85	168.25	24,283,523	858,075	1.11
10/29/2003	10:00 AM	2.4	0	85	382.75	55,242,308	1,952,025	1.21
11/3/2003	11:30 AM	3	0	85	121.50	17,536,095	619,650	0.48
11/10/2003	11:10 AM	3.5	0	85	167.67	24,199,330	855,100	0.77
11/17/2003	1:50 PM	4.1	0	85	170.70	24,637,131	870,570	0.92
11/24/2003	11:00 AM	3.8	0	85	165.20	23,843,316	842,520	0.83
11/24/2003	system shut-down due to rainy season and low influent readings							
2004								
4/5/2004	1:00 PM	5.6	0.11	85	0.5	72165	2550	0.004
4/12/2004	10:30 AM	6.5	0.2	83	165.5	23,324,577	824,190	1.38
4/20/2004	12:00 PM	7.1	0.9	84	193.5	27,599,292	975,240	1.79
4/23/2004	11:00 AM	7.2	2.3	80	71	9,644,640	340,800	0.63
5/3/2004	12:00 PM	7.1	3.4	80	241	32,737,440	1,156,800	2.12
5/5/2004	11:00 PM	All 4 SVE carbon drums changed-out						
5/17/2004	12:00 PM	2.7	0.8	82	336	46,783,296	1,653,120	1.15
5/26/2004	11:00 AM	3.8	0.5	82	215	29,935,740	1,057,800	1.04
6/1/2004	1:00 PM	3.6	0.9	82	146	20,328,456	718,320	0.67
6/7/2004	11:50 AM	3.2	0	82	142.75	19,875,939	702,330	0.58
6/14/2004	11:50 AM	10.9	0	86	168	24,532,704	866,880	2.44
6/21/2004	10:50: AM	13.5	0	83	167	23,535,978	831,660	2.89
6/28/2004	11:50 AM	10.9	0.5	85	169	24,391,770	861,900	2.42
7/2/2004	11:30 AM	8.7	0	85	95.8	13,826,814	488,580	1.10
7/13/2004	2:00 PM	9.1	0.22	85	266.5	38,463,945	1,359,150	3.19
7/21/2004	12:00 PM	8.9	0.5	85	190	27,422,700	969,000	2.22
7/26/2004	11:50 AM	8.5	0.4	85	119.5	17,247,435	609,450	1.34
8/2/2004	11:30 AM	4.9	0.1	85	167.8	24,218,574	855,780	1.08
8/9/2004	11:50 AM	5.6	0.2	85	168.3	24,290,739	858,330	1.24
8/16/2004	12:00 PM	6	0.4	85	168.1	24,261,873	857,310	1.33
8/24/2004	11:50 AM	6.2	1.2	85	191.9	27,696,927	978,690	1.56
8/30/2004	11:30 AM	6	0.4	85	143.66	20,734,448	732,666	1.13
9/7/2004	1:05 PM	5.5	0.8	85	193.5	27,927,855	986,850	1.40
9/13/2004	12:05 PM	5.3	0.9	85	143	20,639,190	729,300	1.00
9/20/2004	11:08 AM	7	2.9	85	167	24,103,110	851,700	1.54
9/27/2004	2:50 PM	6.5	2.1	85	171.75	24,788,678	875,925	1.47

Table 3
Total Mass of Petroleum Hydrocarbons Removed
by the Vapor Extraction System & Historical Operational Data
3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Air Flow (ft ³)	Mass Removed ¹ (Pounds)
		Influent	Effluent					
2004								
10/4/2004	11:30 AM	6.9	3	85	164.55	23,749,502	839,205	1.49
10/13/2004	10:30 AM	6.5	2.9	85	215	31,030,950	1,096,500	1.84
10/18/2004	2:30 PM	6	1.5	85	124	17,896,920	632,400	0.98
10/28/2004	2:00 PM	3.1	0.9	85	239.5	34,567,035	1,221,450	0.98
10/28/2004	system shut-down due to rainy season and low influent readings							
2005								
4/11/2005	system re-started, all four vapor phase carbon drums replaced with new carbon							
4/18/2005	10:50 AM	6.5	0.8	85	167.83	24,223,481	855,953	1.43
4/25/2005	5:30 PM	6	0.7	85	174.33	25,161,626	889,103	1.38
5/4/2005	11:20 AM	0.4	0	85	209.83	30,285,341	1,070,153	0.11
5/9/2005	11:00 AM	1	0.4	85	119.67	17,271,538	610,302	0.16
5/16/2005	10:15 AM	3	0	85	167.25	24,139,193	852,975	0.66
5/23/2005	11:05 AM	0.4	0	90	168.83	25,801,110	911,700	0.09
6/3/2005	3:30 PM	0.2	0	90	268.48	41,029,114	1,449,792	0.07
6/9/2005	3:00 PM	0.2	0	90	143.50	21,929,670	774,900	0.04
6/15/2005	2:15 PM	1	0	85	143.25	20,675,273	730,575	0.19
6/20/2005	12:00 PM	0.6	0	88	117.75	17,594,676	621,720	0.10
6/26/2005	12:00 PM	0.5	0	85	144.00	20,783,520	734,400	0.09
7/7/2005	2:45 PM	0.2	0	90	266.75	40,764,735	1,440,450	0.07
7/11/2005	3:00 PM	0.3	0	90	96.25	14,708,925	519,750	0.04
7/18/2005	1:00 PM	1	0	85	166.00	23,958,780	846,600	0.22
7/25/2005	12:00 PM	1.5	0	87	167.00	24,670,242	871,740	0.34
8/1/2005	1:30 PM	1	0	85	169.50	24,463,935	864,450	0.22
8/8/2005	11:50 AM	0.7	0	80	166.40	22,603,776	798,720	0.14
8/15/2005	1:30 PM	0.9	0	83	169.60	23,902,406	844,608	0.20
8/24/2005	12:00 PM	0.8	0	85	214.50	30,958,785	1,093,950	0.23
8/29/2005	11:45 AM	0.7	0	85	119.75	17,283,518	610,725	0.11
9/6/2005	12:15 PM	0.8	0	85	192.50	27,783,525	981,750	0.20
9/12/2005	12:10 PM	1.2	0	85	144.00	20,783,520	734,400	0.23
9/20/2005	11:30 AM	1.1	0	84	192.60	27,470,923	970,704	0.28

Table 3
Total Mass of Petroleum Hydrocarbons Removed
by the Vapor Extraction System & Historical Operational Data
3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Air Flow (ft ³)	Mass Removed ¹ (Pounds)
		Influent	Effluent					
2005								
10/6/2005	3:00 PM	all 4 vapor phase carbon drums replaced with new carbon drums						
10/14/2005	3:30 PM	33	5	83	192.5	27,129,795	958,650	8.16
10/17/2005	12:00 PM	33	5	86	68.5	10,002,918	353,460	3.01
10/28/2005	11:00 AM	77	1.5	83	263	37,065,642	1,309,740	26.00
11/1/2005	9:40 AM	33	7	86	94.75	13,836,153	488,910	4.16
11/3/2005	3:30 PM	33	7	87	54	7,977,204	281,880	2.40
11/9/2005	3:15 PM	all 4 vapor phase carbon drums replaced with new carbon drums						
11/14/2005	11:30 AM	0.3	0	89	260	39,291,720	1,388,400	0.11
11/22/2005	2:40 PM	0.8	0	88	195	29,137,680	1,029,600	0.21
11/17/2005-11/23/2005		3 new vapor wells installed onsite						
2006								
1/6/2006	10:00 AM	System shut-down due to rainy conditions						
2/22/2006-3/6/2006		Air Sparge and Additional SVE system installed						
4/8/2006		Existing vacuum eductor, which was built and installed in 2000, was rebuilt. To reduce the noise level, foam was placed around the vacuum eductor to act as a noise suppressant						
4/14/2006	2:00 PM	system re-started, all 4 vapor phase carbon drums replaced with new carbon drums						
4/14/2006	2:30 PM	33	0	85	0.5	72,165	2,550	0.02
5/18/2006	12:00 PM	14	0	87	813.5	120,175,101	4,246,470	15.33
5/31/2006	12:30 PM	15	2	83	312.5	44,041,875	1,556,250	6.02
6/7/2006	10:00 AM	17.7	5.8	85	165.5	23,886,615	844,050	3.85
6/14/2006	10:00 AM	8.2	0	89	168	25,388,496	897,120	1.90
6/19/2006	2:30 PM	220	0	88	124.5	18,603,288	657,360	37.29
6/22/2006	11:00 AM	18	0	85	68.5	9,886,605	349,350	1.62
7/6/2006	2:45 PM	3.2	0	80	339.75	46,151,640	1,630,800	1.35
7/24/2006	2:00 PM	Additional vacuum eductor installed in series with the existing blower						
8/2/2006	11:00 AM	25	0	65	644.25	71,105,873	2,512,575	16.19
8/9/2006	11:30 AM	7.3	3.5	110	168.5	31,472,430	1,112,100	2.09
8/14/2006	12:00 PM	8	2.3	100	120.5	20,460,900	723,000	1.49
8/25/2006	12:30 PM	2	0	100	264.5	44,912,100	1,587,000	0.82
8/28/2006	2:30 PM	2.5	0	110	74.5	13,915,110	491,700	0.32
9/7/2006	2:30 PM	1.4	0	105	240	42,789,600	1,512,000	0.55
9/13/2006	12:45 PM	1.6	0	105	142.25	25,361,753	896,175	0.37
9/22/2006	3:00 PM	1.3	0	115	219.25	42,812,948	1,512,825	0.51
9/27/2006	2:15 PM	5.6	1.1	110	119.25	22,273,515	787,050	1.14

Table 3
Total Mass of Petroleum Hydrocarbons Removed
by the Vapor Extraction System & Historical Operational Data
3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Air Flow (ft ³)	Mass Removed ¹ (Pounds)	
		Influent	Effluent						
2006									
10/4/2006	11:15 AM	5.9	1.6	105	165	29,417,850	1,039,500	1.58	
10/10/2006	11:30 AM	0.9	0	105	144.25	25,718,333	908,775	0.21	
10/18/2006	3:15 PM	0.9	0	105	195.75	34,900,268	1,233,225	0.29	
10/27/2006	10:00 AM	303	0	60	210.75	21,471,210	758,700	59.27	
11/1/2006	10:00 AM	0.2	0	90	120	18,338,400	648,000	0.03	
11/7/2006	12:00 PM	0.2	0	80	146	19,832,640	700,800	0.04	
11/7/2006	12:00 PM	System shut-down due to rainy conditions							
Total Mass of Petroleum Hydrocarbons Removed =								947.56	
Average Daily Removal Rate (pounds / day)=								0.41	

Notes:

- ¹ The representative molecular weight of hydrocarbons was assumed to be 150 gram/mole and used the measured temperature of Vapor (25 °C) in converting ppm-v to ppm on mass basis.
 - ² System accidentally shut down from main box. readings taken 30 minutes after startup.
 - ³ GAC Replaced
 - ⁴ GAC-1 removed. new GAC installed at effluent end
 - ⁵ SVE System turned off for rainy season due to low influent concentrations
 - ⁶ system down. hoses disconnected and GAC moved for replacement
 - ⁷ system down for electrical repair
 - ⁸ Carbon change-out of three drums. moved new effluent drum on 10/25/01 to GAC-1
 - ⁹ system shut-down due to high effluent value
 - ¹⁰ System re-started (since November 21, 2001). installed new 4-55 gallon vapor phase carbon vessels. repaired blower
 - ¹¹ System was shut-down due to low influent reading
 - ¹² System was restarted on 6/12/02
 - ¹³ System was re-started but no readings were taken
- Data for October 28, 2005 based on lab data
 NC: Not Calculated

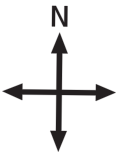
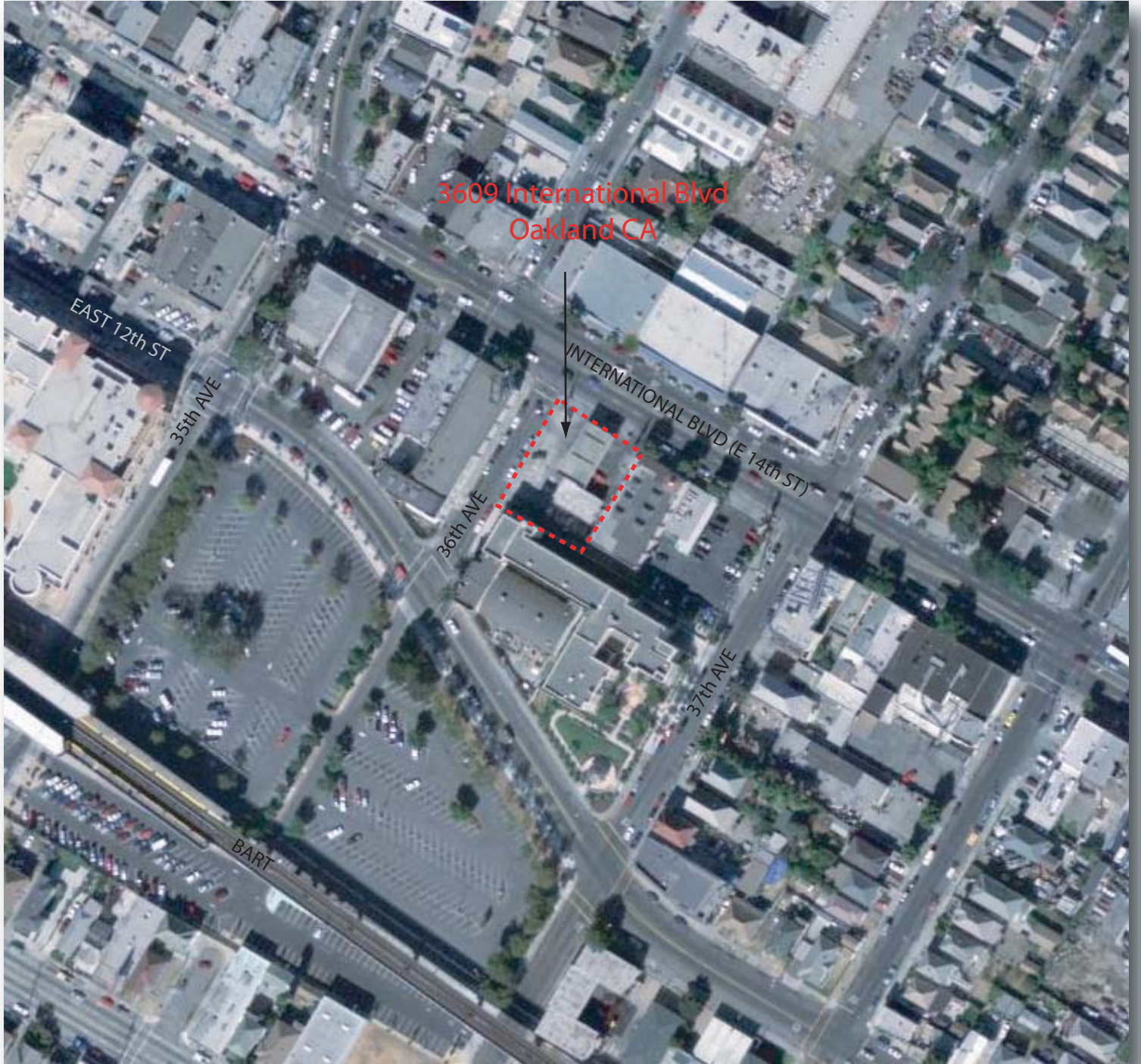
Calculations

Airflow: Flowrate (ft³/min)* 60 min * Time Elapsed (hrs)* 28.3 liters/ft³

Mass Removed: Time Elapsed (hrs) * 60 min* Flowrate (ft³/min)* (28.3 m³/ft³)*

((PID reading * (102 grams TPH-g /mole)* (1 mole / 24.4 L))*(1/1000 m³)) * (1 lb/454 grams)

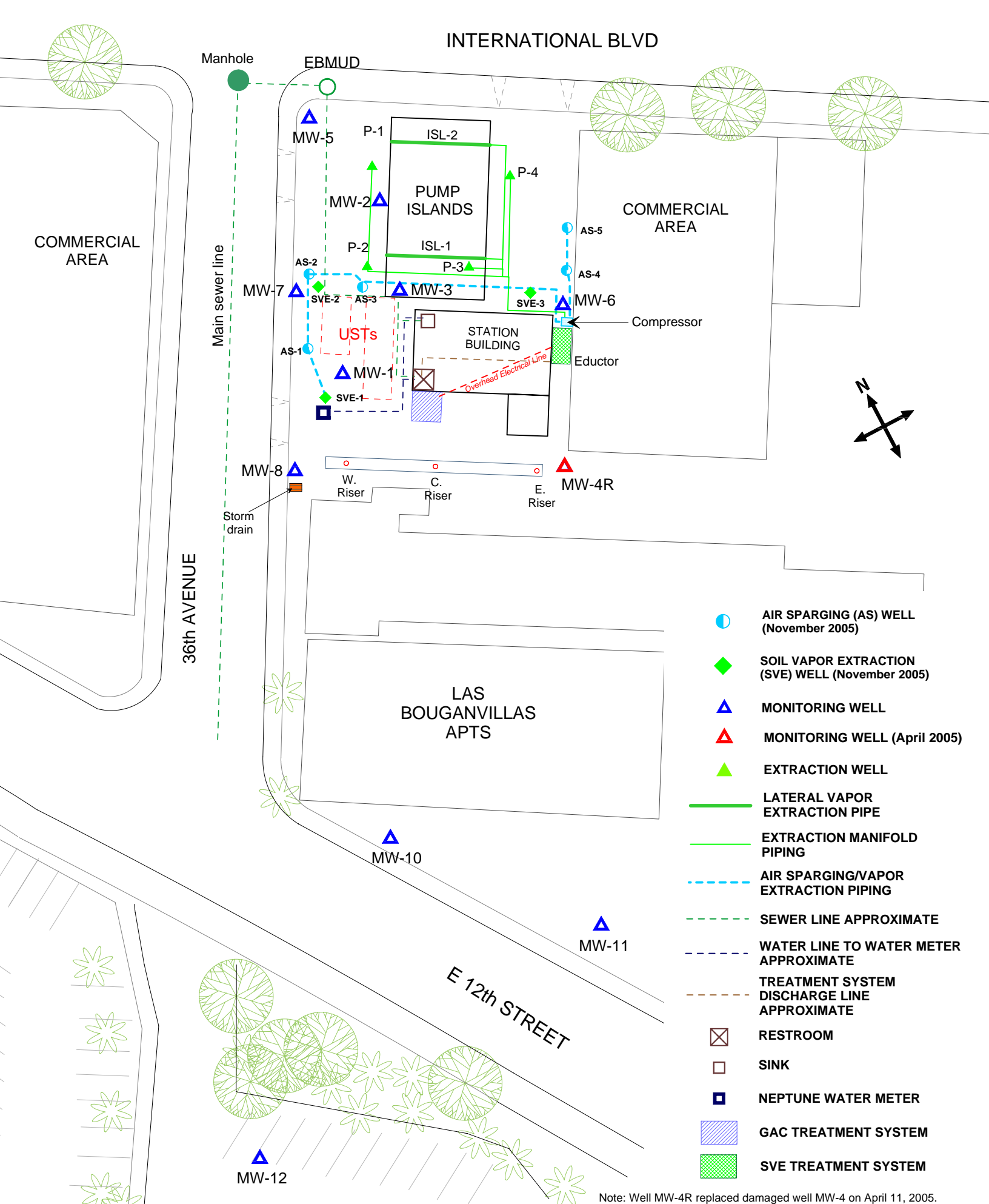
FIGURES



approximate scale in feet



Figure 1: Site vicinity map.



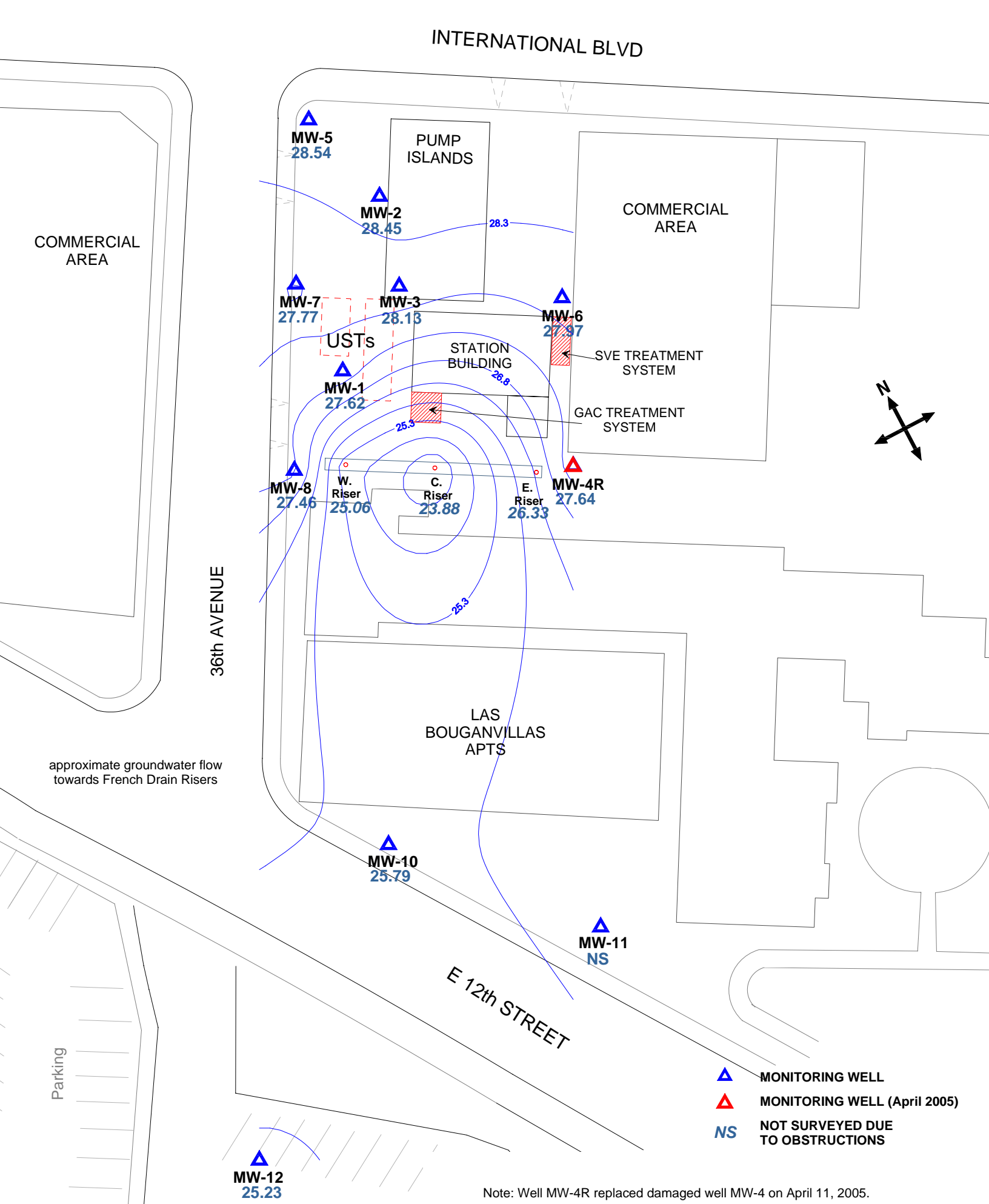
- AIR SPARGING (AS) WELL (November 2005)
- ◆ SOIL VAPOR EXTRACTION (SVE) WELL (November 2005)
- ▲ MONITORING WELL
- ▲ MONITORING WELL (April 2005)
- ▲ EXTRACTION WELL
- LATERAL VAPOR EXTRACTION PIPE
- EXTRACTION MANIFOLD PIPING
- - - AIR SPARGING/VAPOR EXTRACTION PIPING
- - - SEWER LINE APPROXIMATE
- - - WATER LINE TO WATER METER APPROXIMATE
- - - TREATMENT SYSTEM DISCHARGE LINE APPROXIMATE
- X RESTROOM
- SINK
- NEPTUNE WATER METER
- GAC TREATMENT SYSTEM
- SVE TREATMENT SYSTEM

approximate scale in feet
 0 20 40

Figure 2: Site map showing locations of air sparging wells, groundwater monitoring wells, additional soil vapor wells, GAC system, & SVE system.

Note: Well MW-4R replaced damaged well MW-4 on April 11, 2005.





approximate scale in feet

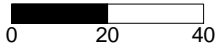
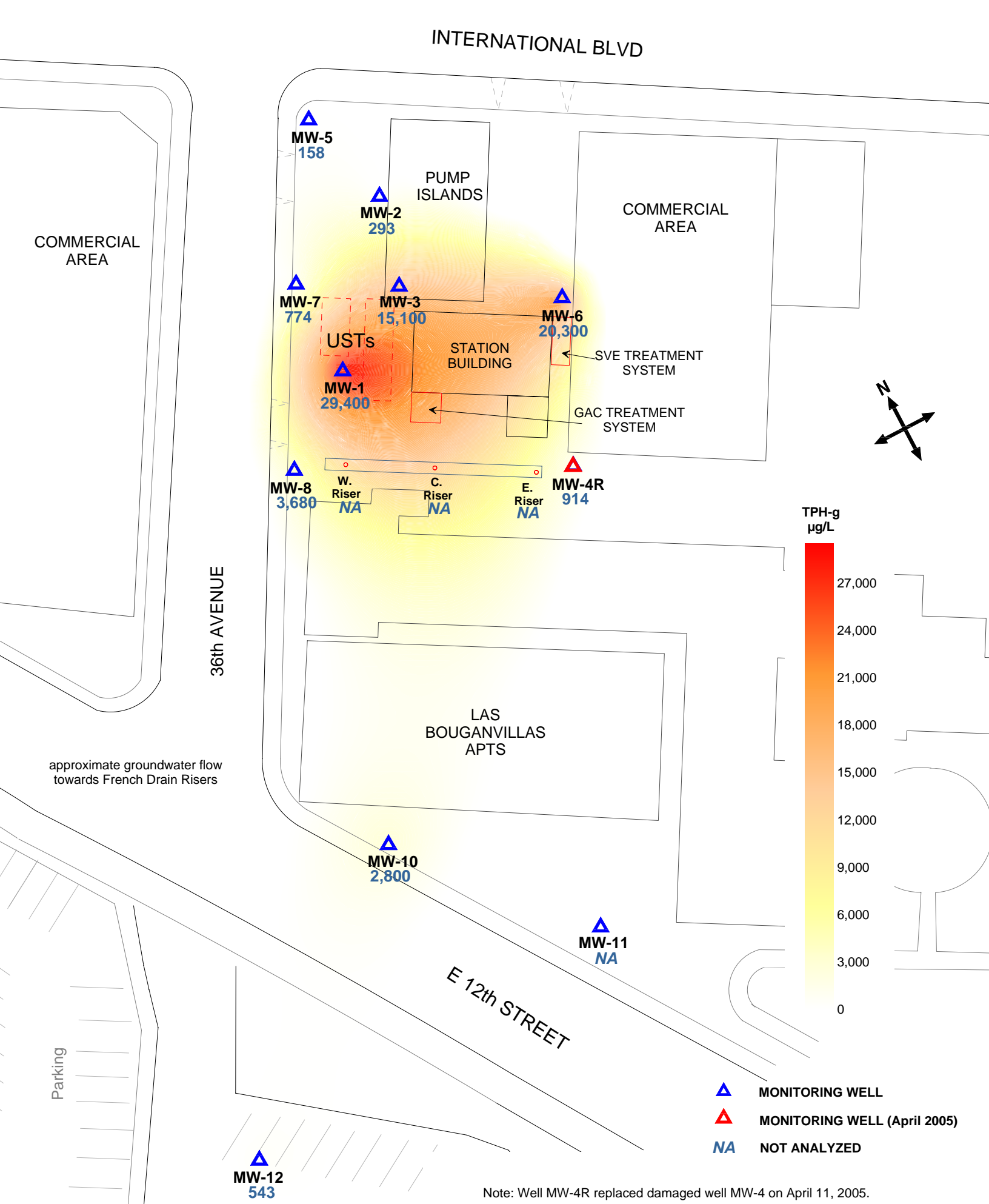


Figure 3: Groundwater elevation contour map in feet.
 November 28, 2006.





approximate scale in feet



Figure 4: Contour map of TPH-g concentrations in the groundwater. November 28 and 29, 2006.

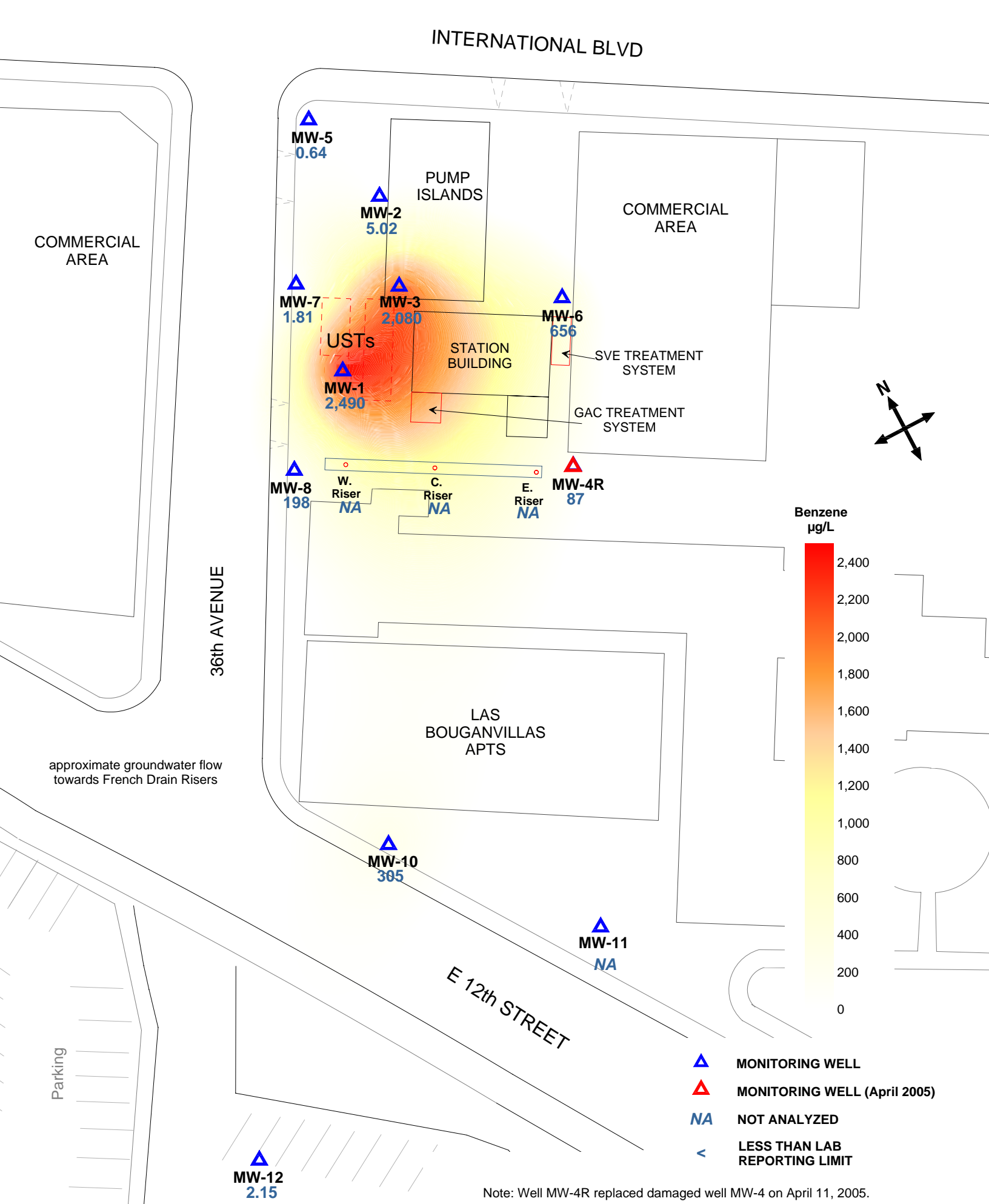
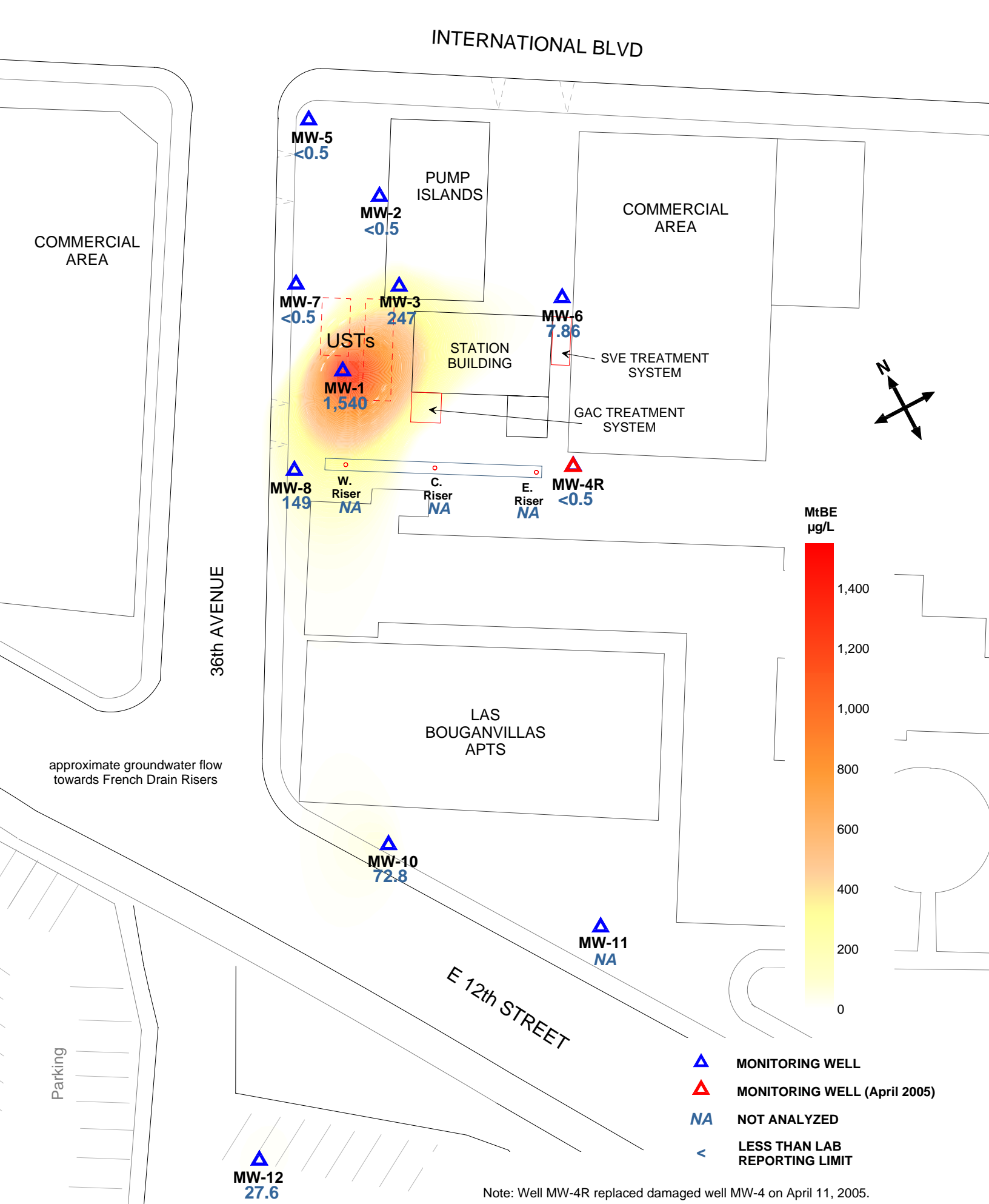


Figure 5: Contour map of Benzene concentrations in the groundwater. November 28 and 29, 2006.



Note: Well MW-4R replaced damaged well MW-4 on April 11, 2005.

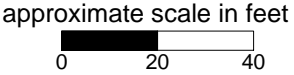
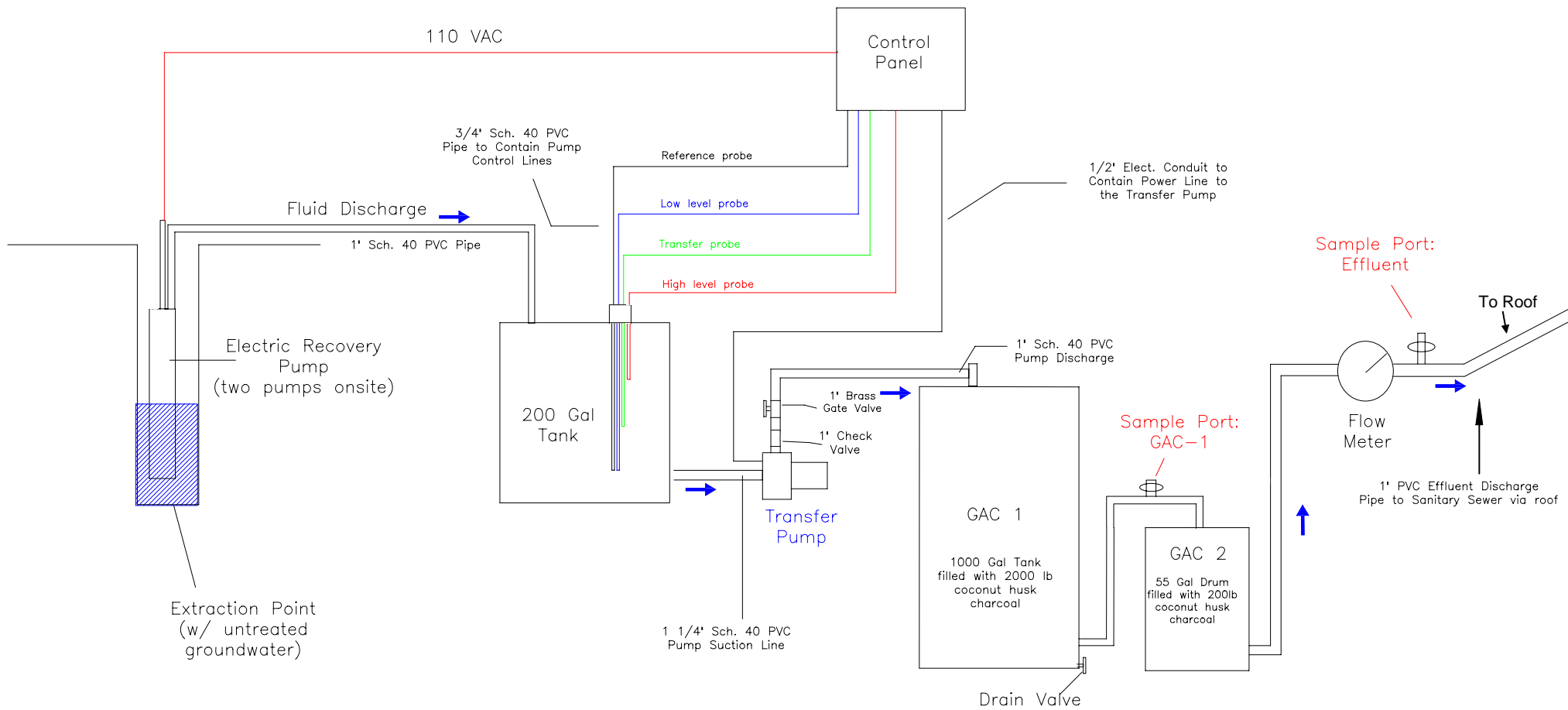


Figure 6: Contour map of MtBE concentrations in the groundwater. (EPA Method 8260B). November 28 and 29, 2006.





(Discharge permit No: 504-27421)
 Tony's Express Auto Service. November 14, 2011 permit expires

Figure 7: Schematic of the Groundwater Remediation System.
 3609 International Blvd., Oakland, CA



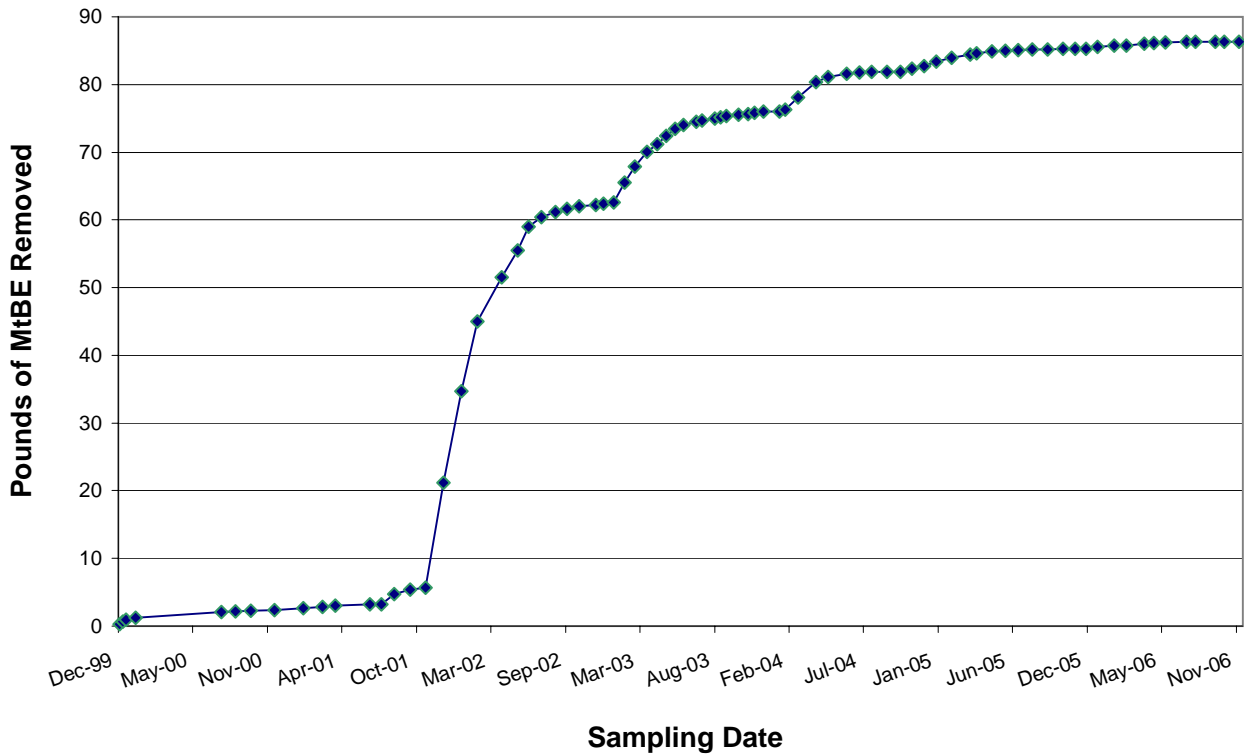
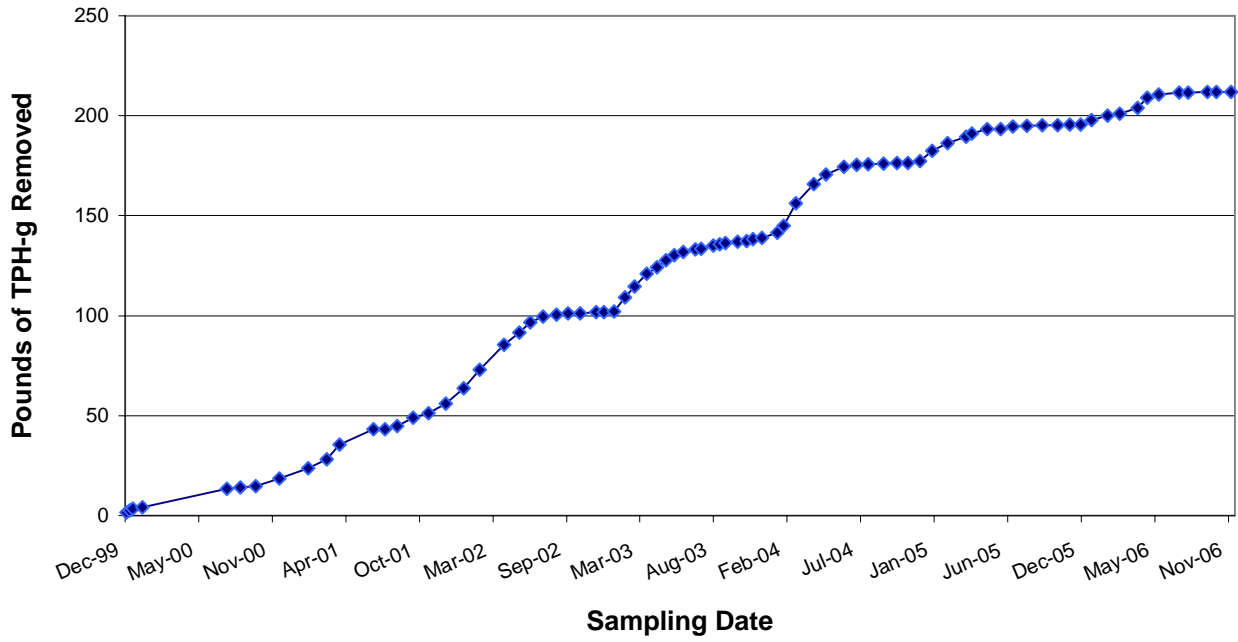


Figure 8. Cumulative mass of TPH-g and MtBE removed from groundwater since the installation of the treatment system.

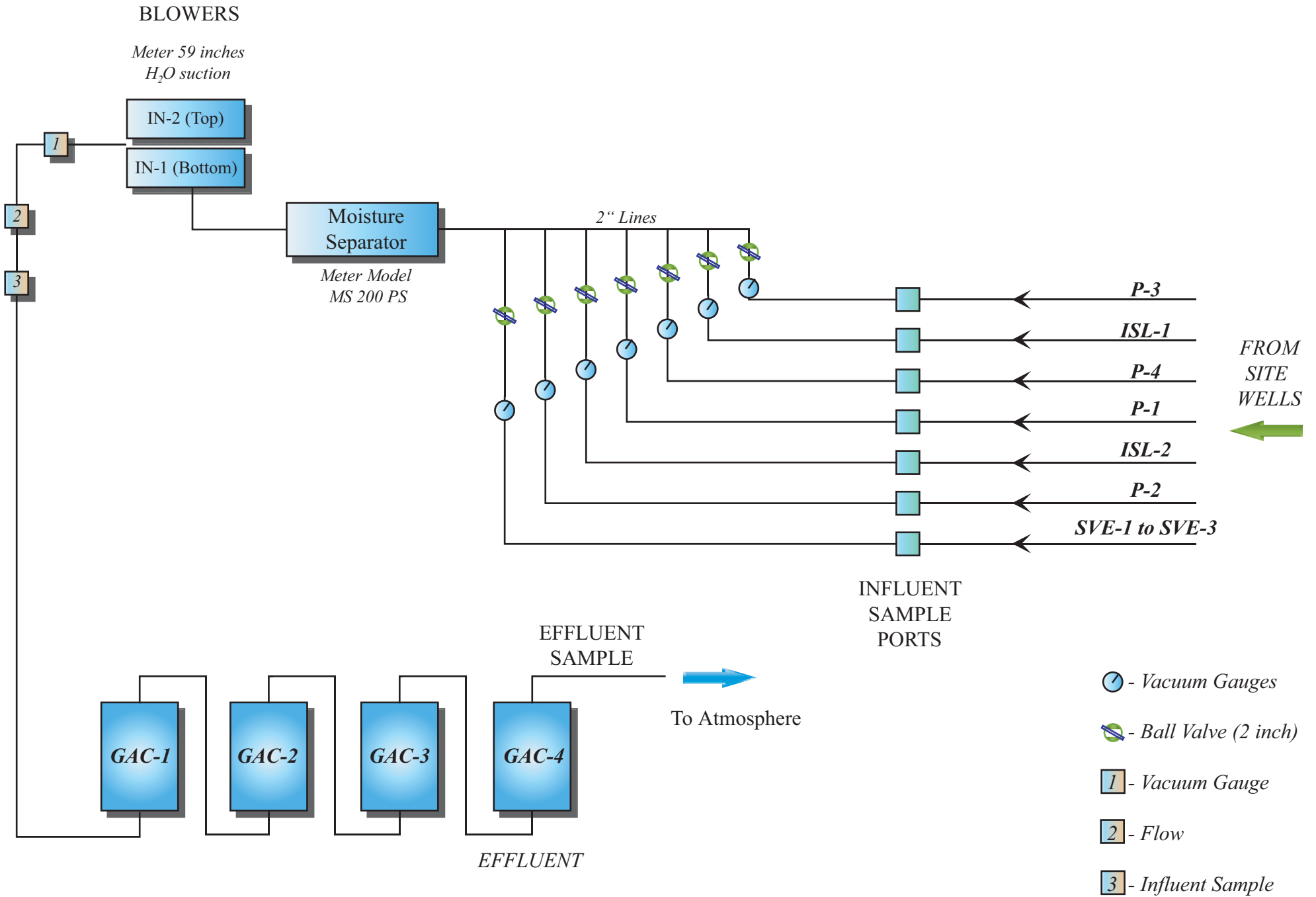


Figure 9: Block Diagram of SVE System

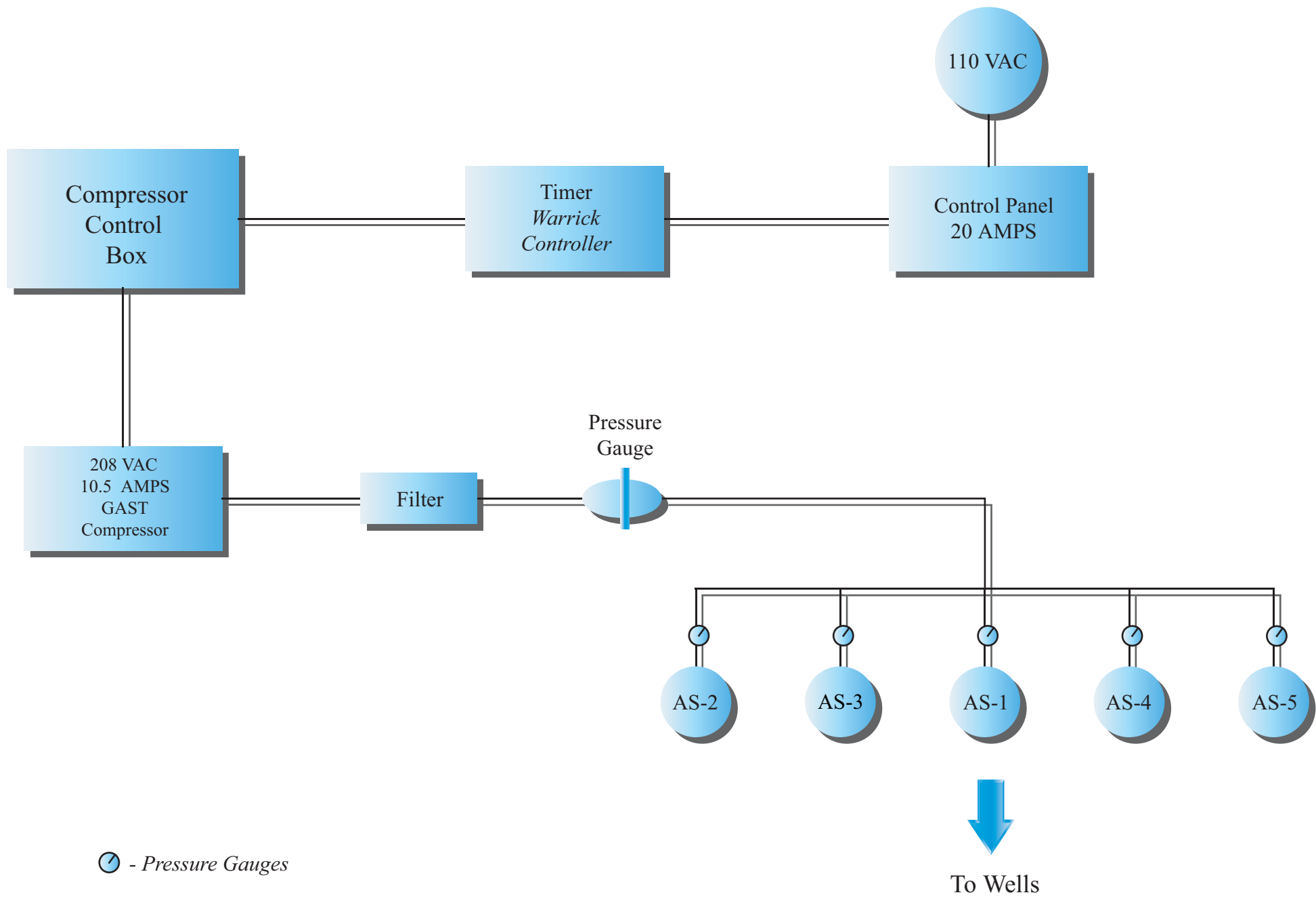


Figure 10: Block diagram of the Air Sparge System

APPENDIX A

SOMA's Groundwater Monitoring Procedures

Field Activities

On November 28, 2006, a total of eight on-site monitoring wells (MW-1 to MW-8), two off-site monitoring wells (MW-10 and MW-12), and three on-site French drain risers were measured for depth to groundwater. On November 28 and 29, 2006, additional field measurements and grab groundwater samples were collected from all of the monitoring wells. This monitoring event was conducted in accordance with the procedures and guidelines of the RWQCB, San Francisco Bay Region.

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

The top of the casing elevation data and the depth to groundwater in each monitoring well and riser were used to calculate the groundwater elevation. Kier and Wright Civil Engineers Surveyors, Inc. surveyed the wells and risers on August 9, 2002. At the time of the survey, monitoring well MW-11 could not be accessed due to obstacles preventing the proper use of surveying equipment; therefore, this well was not surveyed. The top of casing elevations were based on the survey data measured at this time. The elevation data was based on a datum of 14.20 NAVD88. The new survey was conducted to comply with an Electronically Deliverable Format (EDF) request made by the State Water Resources Control Board (SWRCB) Database.

Harrington Surveys, Inc. surveyed the newly installed well MW-4R on April 20, 2005. The elevation data for well MW-4R was referenced from wells MW-5 and MW-7. The survey data measured by Kier and Wright and Harrington Surveys are both presented in Appendix B.

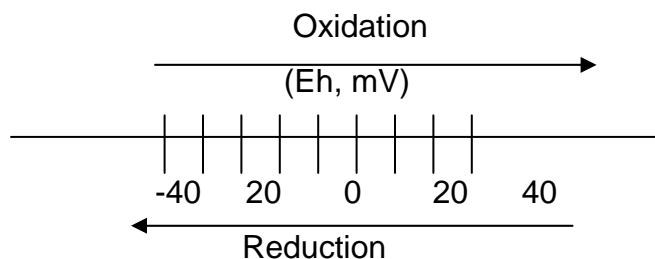
Prior to collecting samples, each well, was purged using a battery operated 2-inch diameter pump (Model ES-60 DC). During the purging activities, the groundwater was measured for parameters such as DO, pH, temperature, EC, and the ORP using a Hanna HI-9828 multi-parameter instrument. Turbidity was measured using a Hanna HI-98703 portable turbidimeter. The equipment was calibrated at the Site using standard solutions and procedures provided by the manufacturer.

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

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

ORP (oxidation reduction potential) is the measure of the potential for an oxidation or reduction process to occur. In the oxidation process a molecule or ion loses one or several electrons. In the reduction process a molecule or ion gains one or several electrons. The unit of the redox potential is the Volt or m-Volt. The most important redox reaction in petroleum-contaminated groundwater is the oxidation of petroleum hydrocarbons in the presence of bacteria and free molecular oxygen. Because the solubility of O_2 in water is low (9 mg/L at 25 °C and 11 mg/L at 5 °C), and because the rate of O_2 replenishment in subsurface environments is limited, DO can be entirely consumed, when the oxidation of only a small amount of petroleum hydrocarbons occurs.

Oxidation of petroleum hydrocarbons can still occur, when all the dissolved O_2 in the groundwater is consumed, however, the oxidizing agents (i.e., the constituents that undergo reduction) now become NO_3^- , MnO_2 , $Fe(OH)_3$, SO_4^{2-} and others (Freeze and Cherry, 1979). As these oxidizing agents are consumed, the groundwater environment becomes more and more reduced. If the process proceeds far enough, the environment may become so strongly reduced that the petroleum hydrocarbons may undergo anaerobic degradation, resulting in the production of methane and carbon dioxide. The concept of oxidation and reduction in terms of changes in oxidation states is illustrated below.



The purging of the wells continued until the parameters for DO, pH, temperature, EC, turbidity, and redox stabilized or three casing volumes were purged.

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

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

Detailed field measurements are shown in Appendix B.

For sampling purposes, after purging, a disposable polyethylene bailer was used to collect sufficient samples from each monitoring well for laboratory analyses. The groundwater sample was transferred into three 40-mL VOA vials and preserved with hydrochloric acid. The vials were then sealed to prevent development of air bubbles within the headspace. After the groundwater samples were collected, they were placed on ice and maintained at 4°C in a cooler. A chain of custody (COC) form was written and placed along with the samples in the cooler. On November 29, 2006, 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 and MtBE. TPH-g, BTEX, and MtBE was prepared using EPA Method 5030B and measured using EPA Method 8260B.

Appendix B

Table of Elevations & Coordinates on Monitoring Wells
Surveyed by Kier Wright Civil Engineers Surveyors, Inc.
& Harrington Surveys, Inc.,
and
Field Measurements of Physical, Chemical, and
Biodegradation Parameters of Groundwater

**TABLE OF ELEVATIONS & COORDINATES
ON MONITORING WELLS
SOMA ENVIRONMENTAL
Oakland-E. 14 the St. "International Blvd"**

WELL NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
FD-C	2109299.85	6064039.85	39.35 40.25	Notch on north side of PVC Punch north rim of box
FD-E	2109281.13	6064067.87	40.06 40.55	Notch on north side of PVC Punch north rim of box
FD-W	2109314.99	6064017.59	39.16 39.95	Notch on north side of PVC Punch north rim of box
MW-1	2109338.74	6064025.97	40.11 40.76	Notch on north side of PVC Punch north rim of box
MW-2	2109383.20	6064073.06	40.71 41.61	Notch on north side of PVC Punch north rim of box
MW-3	2109351.11	6064064.63	40.91 41.68	Notch on north side of PVC Punch north rim of box
MW-4	2109278.18	6064076.40	40.01 40.67	Notch on north side of PVC Punch north rim of box
MW-5	2109410.84	6064058.46	41.16 41.60	Notch on south side of PVC Punch south rim of box
MW-6	2109320.46	6064105.06	40.92 41.52	Notch on north side of PVC Punch north rim of box
MW-7	2109368.19	6064025.54	39.94 40.54	Notch on north side of PVC Punch north rim of box
MW-8	2109321.68	6064000.45	39.38 39.72	Notch on north side of PVC Punch north rim of box

Kier Wright Civil Engineers Surveyors, Inc.
1233 Quarry Lane, Suite 145, Pleasanton, CA 94566
(925) 249-6555 (925) 249-6563

DATE: 08/27/02
JOB# A02576

**TABLE OF ELEVATIONS & COORDINATES
ON MONITORING WELLS
SOMA ENVIRONMENTAL
Oakland-E. 14 the St. "International Blvd"**

WELL NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
MW-10	2109193.97	6063857.39	36.71 37.70	Notch on north side of PVC Punch north rim of box
MW-11	2109125.25	6064007.52	XXXX	NO ELEVATION , BOAT ON TOP
MW-12	2109121.85	6063865.00	36.84 36.87	Notch on north side of PVC

Bench mark: NGS Bench mark No.M 554. To reach the station from the intersection of Interstate Highway 880 and Hegenberger Rd in South Oakland go northeast on Hegenberger Rd for 0.5 MI to a side road right Baldwin St. Turn right and go south on Baldwin St for 0.35 MI to a T-intersection, 85th Ave. for 0.1 MI to a side road right, Railroad Ave. Turn right and go south on Railroad Ave. for 0.1 MI to the station on the left, east, side of the road in a large concrete headwall for a culvert.

Elevation = 14.20 NAVD88 Datum

Coordinate values are based on the California Coordinate System, Zone III NAD 83 Datum.

Klar Wright Civil Engineers Surveyors, Inc.
1233 Quarry Lane, Suite 145, Pleasanton, CA 94566
(925) 249-6555 (925) 249-6563

Harrington Surveys Inc.
Land Surveying & Mapping

2278 Larkey Lane, Walnut Creek, Ca. 94597 Phone (925)935-7228 Fax (925)935-5118
Cell (925)788-7359 E-Mail (ben5132@pacbell.net)

SOMA ENVIRONMENTAL ENGINEERING
2680 BISHOP DR. # 202
SAN RAMON, CA. 94583

MAY 20, 2005

ATTN: ELENA

3609 INTERNATIONAL BLVD.
OAKLAND CA.

SURVEY REPORT


CONTROLLING POINTS FROM SURVEY BY KIER & WRIGHT, DATED 08-27-02:

MW-5 NOTCH, CALIFORNIA COORDINATE SYSTEM, ZONE 3, NAD 83.
NORTH 2,109,410.84 - EAST 6,064,058.45, LAT. N37°46'17.42024"
W122°13'18.51054"
ELEVATION 41.06, NAVD 88,

MW-7 NOTCH, CALIFORNIA COORDINATE SYSTEM, ZONE 3,
NORTH 2,109,368.19 - EAST 6,064,025.54, LAT N37°46'30.32592",
W122°13'18.88771"
ELEVATION 39.94 NAVD 88,

INSTRUMENTATION:
TRIMBLE GPS, MODEL 5800 AND LEICA TCA 1800, 1" HORZ. & VERT.
OBSERVATION: EPOCH = 180.

FIELD SURVEY: APRIL 20, 2005.


BEN HARRINGTON
PLS 5132





Well No.: MW-1
 Casing Diameter: 2 inch
 Depth of Well: 30 ft
 Top of Casing Elevation: 70.11 ft
 Depth to Groundwater: 12.49 ft
 Groundwater Elevation: 27.62 ft
 Water Column Height: 17.51 ft
 Purged Volume: 8 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: November ~~28~~ 29, 2006
 Sampler: Tony Perini

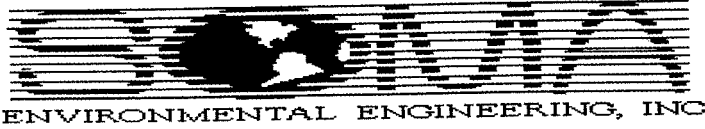
Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

Color: No Yes Describe Blackish
 Sheen: No Yes Describe slight sheen
 Odor: No Yes Describe slight petro odor

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
1052 AM	started purging well									
11 AM	2	3.45	7.08	16.14	815	21.7	136			
1102 AM	5	2.42	7.09	18.31	902	28.8	106			
1105 AM	8	3.28	7.09	18.20	890	88.5	-96			
1109 AM	1 sampled							3.30	35	5

Notes:



Well No.: MW-2
 Casing Diameter: 4 inch
 Depth of Well: 31 ft
 Top of Casing Elevation: 40.71 ft
 Depth to Groundwater: 12.26 ft
 Groundwater Elevation: 28.45 ft
 Water Column Height: 18.74 ft
 Purged Volume: 19 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: November ~~28~~ 29, 2006
 Sampler: Tony Perini

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

Color: No Yes Describe cloudy
 Sheen: No Yes Describe _____
 Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L	
930 AM	<i>Started purging well</i>										
934 AM	4	3.24	7.51	18.24	707	25.3	9.2				
938 AM	8	3.72	7.27	18.94	693	38.5	13.3				
942 AM	13	3.67	7.10	18.80	693	60.3	36.2				
947 AM	19	3.32	7.12	18.90	702	92.2	36				
950 AM	<i>Sampled</i>							0.74	35	29	

Notes:



Well No.: MW-3
 Casing Diameter: 4 inch
 Depth of Well: 31.50 ft
 Top of Casing Elevation: 40.91 ft
 Depth to Groundwater: 12.78 ft
 Groundwater Elevation: 28.13 ft
 Water Column Height: 18.72 ft
 Purged Volume: 18 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: November ~~28~~ 29, 2006
 Sampler: Tony Perini

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

Color: No Yes Describe cloudy
 Sheen: No Yes Describe _____
 Odor: No Yes Describe light petro odor

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
1018 AM	started purging well									
1022 AM	4	3.10	6.98	16.34	998	25.7	-138			
1026 AM	8	3.32	7.02	17.70	935	18.6	-120			
1030 AM	13	3.45	7.03	18.09	972	84.3	-111			
1034 AM	18	2.62	7.03	18.03	975	94.8	-111			
1038 AM	sampled							3.30	16.2	0

Notes:



Well No.: NW-4R
 Casing Diameter: 2 inch
 Depth of Well: 26 ft
 Top of Casing Elevation: 40.34 ft
 Depth to Groundwater: 12.70 ft
 Groundwater Elevation: 27.64 ft
 Water Column Height: 13.30 ft
 Purged Volume: 10 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: November 28-~~29~~, 2006
 Sampler: Tony Perini
BRITAN TRMS

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe cloudy
 Sheen: No Yes Describe _____
 Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
224 PM	<i>Started purging well</i>									
227 PM	3	2.44	7.26	16.90	715	142	-39.4			
230 PM	7	2.08	7.18	17.94	701	151	-49			
233 PM	10	1.80	7.18	17.88	695	274	-53			
236 PM	<i>sampled</i>							1.61	35	0

Notes:



Well No.: MW-5
 Casing Diameter: 2 inch
 Depth of Well: 26.25 ft
 Top of Casing Elevation: 41.16 ft
 Depth to Groundwater: 12.62 ft
 Groundwater Elevation: 28.54 ft
 Water Column Height: 13.63 ft
 Purged Volume: 10 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: November 28-~~26~~, 2006
 Sampler: Tony Perini

Brian Tims

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe _____
 Sheen: No Yes Describe _____
 Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
248 PM	<i>Started purging well</i>									
251 PM	3	1.61	7.23	19.21	764	79.4	-12			
254 PM	7	1.60	6.98	20.19	774	22.4	-40			
257 PM	10	1.07	6.99	20.30	782	13.3	-71			
3 PM	<i>sampled</i>							0.93	20.1	36

Notes:



Well No.: MW-6
 Casing Diameter: 2 inch
 Depth of Well: 25 ft
 Top of Casing Elevation: 40.92 ft
 Depth to Groundwater: 12.95 ft
 Groundwater Elevation: 27.97 ft
 Water Column Height: 12.05 ft
 Purged Volume: 10 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: November 28-~~28~~, 2006
 Sampler: Tony Perini

BITUM TMS

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

Color: No Yes Describe cloudy
 Sheen: No Yes Describe _____
 Odor: No Yes Describe petro odor

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
336 PM	<i>started purging well</i>									
338 PM	2	1.57	7.10	18.37	838	57.3	-151			
341 PM	5	2.47	6.91	17.90	799	151	-127			
345 PM	10	2.12	6.90	18.00	780	54	-92			
348 PM	<i>sampled</i>							3.30	0	2

Notes:



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-7
 Casing Diameter: 2 inch
 Depth of Well: 26 ft
 Top of Casing Elevation: 39.84 ft
 Depth to Groundwater: 12.12 ft
 Groundwater Elevation: 27.72 ft
 Water Column Height: 13.83 ft
 Purged Volume: 5 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: November 28-29, 2006
 Sampler: Tony Perini

Bitum Tims

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe _____
 Sheen: No Yes Describe _____
 Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
3:15 PM	started purging well									
3:17 PM	2	1.68	7.38	20.06	693	40.4	-96			
3:20 PM	5	DRIED								
3:23 PM	stopped							0.96	0	18

Notes:



Well No.: MW-8
 Casing Diameter: 2 inch
 Depth of Well: 26.50 ft
 Top of Casing Elevation: 39.38 ft
 Depth to Groundwater: 11.92 ft
 Groundwater Elevation: 27.46 ft
 Water Column Height: 14.58 ft
 Purged Volume: 10 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: November 28-29, 2006
 Sampler: Tony Perini

Brian Trims

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

Color: No Yes Describe slight blackish
 Sheen: No Yes Describe slight sheen
 Odor: No Yes Describe musty smell

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
1:26 PM	<i>Started purging well</i>									
1:29 PM	3	3.76	7.24	18.09	691	40	-166			
1:32 PM	6	3.60	7.23	18.42	743	66.7	-135			
1:35 PM	10	2.39	7.23	18.30	800	28.5	-132			
1:40 PM	<i>sampled</i>							3.30	13.8	0

Notes:



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-10
 Casing Diameter: 2 inch
 Depth of Well: 23.40 ft
 Top of Casing Elevation: 36.71 ft
 Depth to Groundwater: 10.92 ft
 Groundwater Elevation: 25.79 ft
 Water Column Height: 12.48 ft
 Purged Volume: 11 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: November 28-~~29~~, 2006
 Sampler: Tony Perini

Brian Timms

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe _____
 Sheen: No Yes Describe _____
 Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
1254 PM										
1257 PM	3	3.38	7.32	17.14	710	23.6	3.4			
1 PM	7	1.94	7.20	18.31	704	6.39	-27.2			
1:03 PM	11	2.88	7.20	18.30	728	4.39	-24.2			
1:06 PM	Jumped							0.08	6.9	20

Notes:



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-12
 Casing Diameter: 4 inch
 Depth of Well: 30 ft
 Top of Casing Elevation: 36.84 ft
 Depth to Groundwater: 11.61 ft
 Groundwater Elevation: 25.23 ft
 Water Column Height: 18.39 ft
 Purged Volume: 22 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: November 28-~~29~~, 2006
 Sampler: Tony Perini

BITAN TITMS

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe _____
 Sheen: No Yes Describe _____
 Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
1159 AM	<i>started purging well</i>									
1204 PM	5	4.28	8.13	16.62	771	87.3	-61.2			
1208 PM	10	3.51	7.36	17.53	743	28.7	-72.4			
1213 PM	16	2.25	7.28	18.31	728	15.9	-66.4			
1218 PM	22	2.68	7.29	18.34	726	9.78	-67.5			
1222 PM	<i>sampled</i>							1.98	6.8	1

Notes:



Well No.: *riser F.D. center*
 Casing Diameter: 4 inch
 Depth of Well: _____ ft
 Top of Casing Elevation: 39.35 ft
 Depth to Groundwater: 15.47 ft
 Groundwater Elevation: 23.88 ft
 Water Column Height: _____ ft
 Purged Volume: _____ gallons
not purged

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: November 28-~~29~~, 2006
 Sampler: Tony Perini
BTTan TMS

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe _____
 Sheen: No Yes Describe _____
 Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L

Notes:
*French drain center riser part of remedial system
 only water measurement taken*



Well No.: *risc F.O. East*
 Casing Diameter: 4 inch
 Depth of Well: _____ ft
 Top of Casing Elevation: 40.06 ft
 Depth to Groundwater: 13.73 ft
 Groundwater Elevation: 26.33 ft
 Water Column Height: _____ ft
 Purged Volume: _____ gallons
not purged

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: November 28-~~29~~, 2006
 Sampler: Tony Perini
Brian Adams

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe _____
 Sheen: No Yes Describe _____
 Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L

Notes:

*French drain eastern riscer part of French drain.
 however no active pump is within riscer,
 only water measurements taken*



Well No.: *riser F.O. west*
 Casing Diameter: 4 inch
 Depth of Well: _____ ft
 Top of Casing Elevation: 39.16 ft
 Depth to Groundwater: 19.10 ft
 Groundwater Elevation: 25.06 ft
 Water Column Height: _____ ft
 Purged Volume: _____ gallons
not purged

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: November 28-~~20~~, 2006
 Sampler: Tony Perini
Brian Sims

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump *not sampled*
 Color: No Yes Describe _____
 Sheen: No Yes Describe _____
 Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L

Notes:

French drain western riser part of remedial system only water measurement taken

Appendix C

Chain of Custody Form and Laboratory Report
for the
Fourth Quarter 2006 Monitoring Event

CHAIN OF CUSTODY FORM

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

PAL
 Login# 6110015

Project No: 2331				Sampler: John Lehman / Mehman Howrooz <i>Tony Perini / Bryan Truss</i>								Analyses/Method								
Project Name: 3609 International Blvd Oakland				Report To: Tony Perini								TPHg, BTEX, MIBE 8260B								
				Company: SOMA Environmental Engineering, Inc.																
Turnaround Time: Standard				Tel: 925-734-6400 Fax: 925-734-6401																
Lab No.	Sample ID	Sampling Date/Time		Matrix			# of Containers	Preservatives				Field Notes								
		Date	Time	Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE									
	MW-1	11/29/06	1108 AM	X			3 VOAS	X			X	Grab Sample	X							
	MW-2	11/29/06	950 AM	X			3 VOAS	X			X		X							
	MW-3	11/29/06	1038 AM	X			3 VOAS	X			X		X							
	MW-4R	11/28/06	236 PM	X			3 VOAS	X			X		X							
	MW-5	11/28/06	3 PM	X			3 VOAS	X			X		X							
	MW-6	11/28/06	348 PM	X			3 VOAS	X			X		X							
	MW-7	11/28/06	323 PM	X			3 VOAS	X			X		X							
	MW-8	11/28/06	140 PM	X			3 VOAS	X			X		X							
	MW-10	11/28/06	106 PM	X			3 VOAS	X			X		X							
	MW-11			X			3 VOAS	X			X		X							
	MW-12	11/28/06	1222 PM	X			3 VOAS	X			X		X							
Sampler Remarks:				Relinquished by:				Date/Time:				Received by:				Date/Time:				
EDF REQUIRED				<i>Tony Perini</i>				11/29/06 1230 PM				<i>James Zingiri</i>				11/29/06 12:30 PM				

08 December 2006

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

RE: 3609 International Blvd, Oakland

Work Order Number: 6110015

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

Sincerely,



Maiid Akhavan
Laboratory Director



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

Project: 3609 International Blvd, Oakland
Project Number: 2331
Project Manager: Mansour Sepehr

Reported:
08-Dec-06 14:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6110015-01	Water	29-Nov-06 11:08	29-Nov-06 12:51
MW-2	6110015-02	Water	29-Nov-06 09:50	29-Nov-06 12:51
MW-3	6110015-03	Water	29-Nov-06 10:38	29-Nov-06 12:51
MW-4R	6110015-04	Water	28-Nov-06 14:36	29-Nov-06 12:51
MW-5	6110015-05	Water	28-Nov-06 15:00	29-Nov-06 12:51
MW-6	6110015-06	Water	28-Nov-06 15:48	29-Nov-06 12:51
MW-7	6110015-07	Water	28-Nov-06 15:23	29-Nov-06 12:51
MW-8	6110015-08	Water	28-Nov-06 13:40	29-Nov-06 12:51
MW-10	6110015-09	Water	28-Nov-06 13:06	29-Nov-06 12:51
MW-12	6110015-10	Water	28-Nov-06 12:22	29-Nov-06 12:51



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

Project: 3609 International Blvd, Oakland
Project Number: 2331
Project Manager: Mansour Sepehr

Reported:
08-Dec-06 14:29

Volatile Organic Compounds by EPA Method 8260B
Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6110015-01RE2) Water Sampled: 29-Nov-06 11:08 Received: 29-Nov-06 12:51									
Gasoline (C6-C12)	29400	550	ug/l	11	BL60502	29-Nov-06	04-Dec-06	EPA 8260B	
Benzene	2490	10.8	"	21.5	"	"	"	"	
Ethylbenzene	1510	10.8	"	"	"	"	"	"	
m&p-Xylene	1280	43.0	"	"	"	"	"	"	
o-xylene	535	10.8	"	"	"	"	"	"	
Toluene	782	43.0	"	"	"	"	"	"	
MTBE	1540	10.8	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		96.2 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		104 %		70-130	"	"	"	"	
MW-2 (6110015-02) Water Sampled: 29-Nov-06 09:50 Received: 29-Nov-06 12:51									
Gasoline (C6-C12)	293	50.0	ug/l	1	BL60502	29-Nov-06	29-Nov-06	EPA 8260B	
Benzene	5.02	0.500	"	"	"	"	"	"	
Ethylbenzene	24.0	0.500	"	"	"	"	"	"	
m&p-Xylene	12.0	2.00	"	"	"	"	"	"	
o-xylene	3.15	0.500	"	"	"	"	"	"	
Toluene	3.25	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.2 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		98.8 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		99.8 %		70-130	"	"	"	"	
MW-3 (6110015-03) Water Sampled: 29-Nov-06 10:38 Received: 29-Nov-06 12:51									
Gasoline (C6-C12)	15100	550	ug/l	11	BL60502	29-Nov-06	29-Nov-06	EPA 8260B	
Benzene	2080	5.50	"	"	"	"	"	"	
Ethylbenzene	1290	5.50	"	"	"	"	"	"	
m&p-Xylene	1110	22.0	"	"	"	"	"	"	
o-xylene	514	5.50	"	"	"	"	"	"	
Toluene	381	22.0	"	"	"	"	"	"	
MTBE	247	5.50	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.4 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		97.2 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		100 %		70-130	"	"	"	"	

Pacific Analytical Laboratory

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



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

Project: 3609 International Blvd, Oakland
Project Number: 2331
Project Manager: Mansour Sepehr

Reported:
08-Dec-06 14:29

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4R (6110015-04) Water Sampled: 28-Nov-06 14:36 Received: 29-Nov-06 12:51									
Gasoline (C6-C12)	914	50.0	ug/l	1	BL60502	29-Nov-06	29-Nov-06	EPA 8260B	
Benzene	87.0	0.500	"	"	"	"	"	"	
Ethylbenzene	15.1	0.500	"	"	"	"	"	"	
m&p-Xylene	9.29	2.00	"	"	"	"	"	"	
o-xylene	1.11	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		98.0 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		103 %	70-130		"	"	"	"	
MW-5 (6110015-05) Water Sampled: 28-Nov-06 15:00 Received: 29-Nov-06 12:51									
Gasoline (C6-C12)	158	50.0	ug/l	1	BL60502	29-Nov-06	29-Nov-06	EPA 8260B	
Benzene	0.640	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	2.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		97.4 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		101 %	70-130		"	"	"	"	
MW-6 (6110015-06RE1) Water Sampled: 28-Nov-06 15:48 Received: 29-Nov-06 12:51									
Gasoline (C6-C12)	20300	100	ug/l	2	BL60502	29-Nov-06	04-Dec-06	EPA 8260B	
Benzene	656	5.50	"	11	"	"	"	"	
Ethylbenzene	1060	5.50	"	"	"	"	"	"	
m&p-Xylene	609	22.0	"	"	"	"	"	"	
o-xylene	151	5.50	"	"	"	"	"	"	
Toluene	96.3	22.0	"	"	"	"	"	"	
MTBE	7.86	5.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		99.8 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		103 %	70-130		"	"	"	"	



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

Project: 3609 International Blvd, Oakland
Project Number: 2331
Project Manager: Mansour Sepehr

Reported:
08-Dec-06 14:29

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (6110015-07) Water Sampled: 28-Nov-06 15:23 Received: 29-Nov-06 12:51									
Gasoline (C6-C12)	774	50.0	ug/l	1	BL60502	29-Nov-06	29-Nov-06	EPA 8260B	
Benzene	1.81	0.500	"	"	"	"	"	"	
Ethylbenzene	6.76	0.500	"	"	"	"	"	"	
m&p-Xylene	2.33	2.00	"	"	"	"	"	"	
o-xylene	0.700	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		95.4 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		106 %		70-130	"	"	"	"	
MW-8 (6110015-08RE2) Water Sampled: 28-Nov-06 13:40 Received: 29-Nov-06 12:51									
Gasoline (C6-C12)	3680	50.0	ug/l	1	BL60502	29-Nov-06	04-Dec-06	EPA 8260B	
Benzene	198	2.15	"	4.3	"	"	"	"	
Ethylbenzene	313	2.15	"	"	"	"	"	"	
m&p-Xylene	20.1	8.60	"	"	"	"	"	"	
o-xylene	3.72	2.15	"	"	"	"	"	"	
Toluene	15.1	8.60	"	"	"	"	"	"	
MTBE	149	2.15	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		96.0 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		103 %		70-130	"	"	"	"	
MW-10 (6110015-09RE2) Water Sampled: 28-Nov-06 13:06 Received: 29-Nov-06 12:51									
Gasoline (C6-C12)	2800	50.0	ug/l	1	BL60502	29-Nov-06	05-Dec-06	EPA 8260B	
Benzene	305	2.15	"	4.3	"	"	"	"	
Ethylbenzene	228	2.15	"	"	"	"	"	"	
m&p-Xylene	ND	8.60	"	"	"	"	"	"	
o-xylene	ND	2.15	"	"	"	"	"	"	
Toluene	ND	8.60	"	"	"	"	"	"	
MTBE	72.8	2.15	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.2 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		98.0 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		101 %		70-130	"	"	"	"	



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

Project: 3609 International Blvd, Oakland
 Project Number: 2331
 Project Manager: Mansour Sepehr

Reported:
 08-Dec-06 14:29

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-12 (6110015-10) Water Sampled: 28-Nov-06 12:22 Received: 29-Nov-06 12:51									
Gasoline (C6-C12)	543	50.0	ug/l	1	BL60502	29-Nov-06	30-Nov-06	EPA 8260B	
Benzene	2.15	0.500	"	"	"	"	"	"	
Ethylbenzene	1.72	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	2.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	27.6	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		96.6 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		104 %		70-130	"	"	"	"	



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

Project: 3609 International Blvd, Oakland
Project Number: 2331
Project Manager: Mansour Sepehr

Reported:
08-Dec-06 14:29

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BL60502 - EPA 5030 Water MS

Blank (BL60502-BLK1)

Prepared & Analyzed: 05-Dec-06

Surrogate: 4-Bromofluorobenzene	45.4		ug/l	50.0		90.8	70-130			
Surrogate: Dibromofluoromethane	51.8		"	50.0		104	70-130			
Surrogate: Perdeuterotoluene	49.5		"	50.0		99.0	70-130			
Gasoline (C6-C12)	ND	50.0	"							
Benzene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
m&p-Xylene	ND	2.00	"							
o-xylene	ND	0.500	"							
Toluene	ND	2.00	"							
MTBE	ND	0.500	"							

LCS (BL60502-BS1)

Prepared & Analyzed: 05-Dec-06

Surrogate: 4-Bromofluorobenzene	48.5		ug/l	50.0		97.0	70-130			
Surrogate: Dibromofluoromethane	48.5		"	50.0		97.0	70-130			
Surrogate: Perdeuterotoluene	49.2		"	50.0		98.4	70-130			
Gasoline (C6-C12)	2360	50.0	"	2000		118	70-130			
Benzene	109	0.500	"	100		109	70-130			
Toluene	101	2.00	"	100		101	70-130			
MTBE	101	0.500	"	100		101	70-130			

LCS Dup (BL60502-BSD1)

Prepared & Analyzed: 05-Dec-06

Surrogate: 4-Bromofluorobenzene	50.0		ug/l	50.0		100	70-130			
Surrogate: Dibromofluoromethane	48.6		"	50.0		97.2	70-130			
Surrogate: Perdeuterotoluene	48.2		"	50.0		96.4	70-130			
Gasoline (C6-C12)	2220	50.0	"	2000		111	70-130	6.11	20	
Benzene	108	0.500	"	100		108	70-130	0.922	20	
Toluene	100	2.00	"	100		100	70-130	0.995	20	
MTBE	96.1	0.500	"	100		96.1	70-130	4.97	20	



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

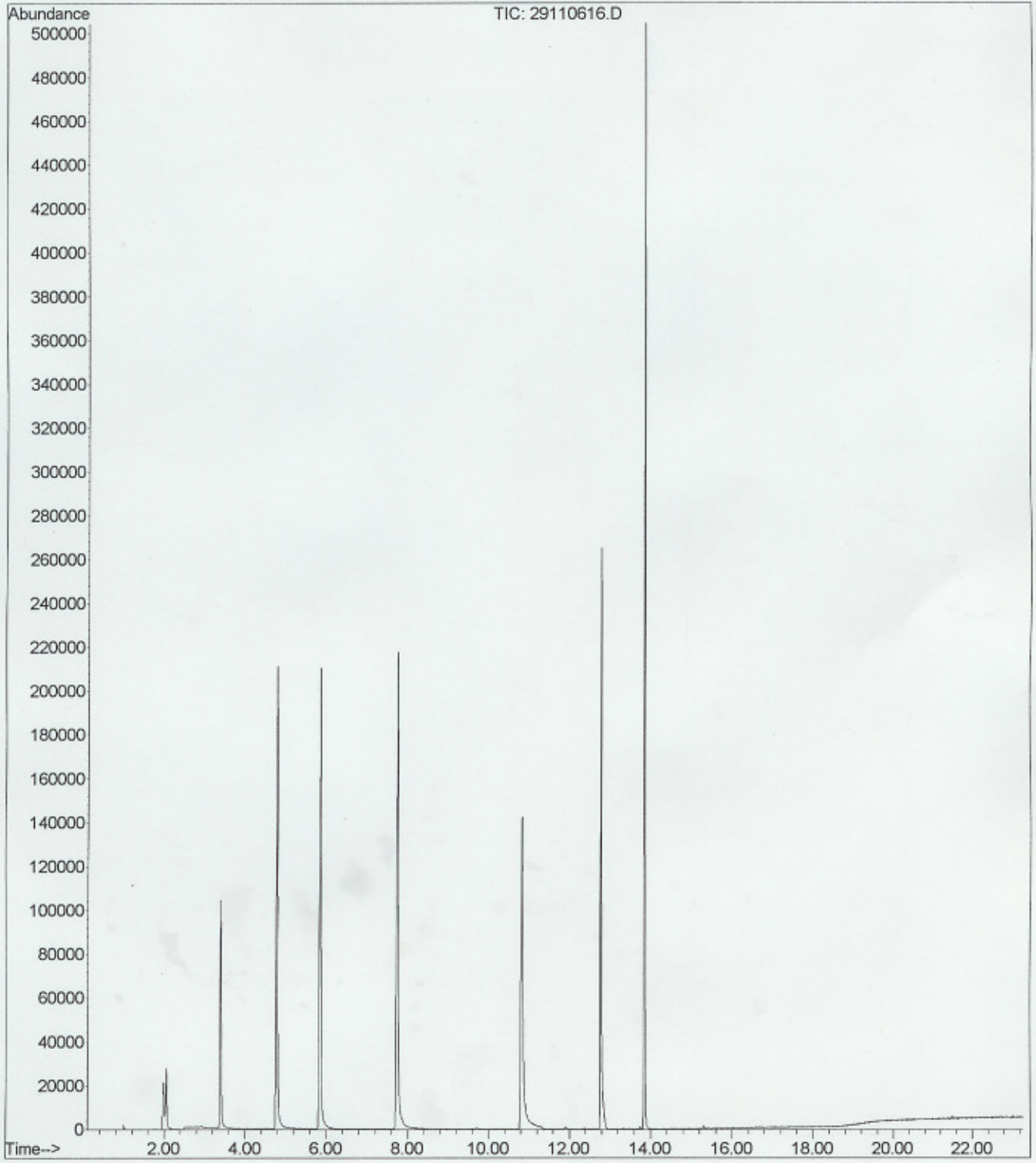
Project: 3609 International Blvd, Oakland
Project Number: 2331
Project Manager: Mansour Sepehr

Reported:
08-Dec-06 14:29

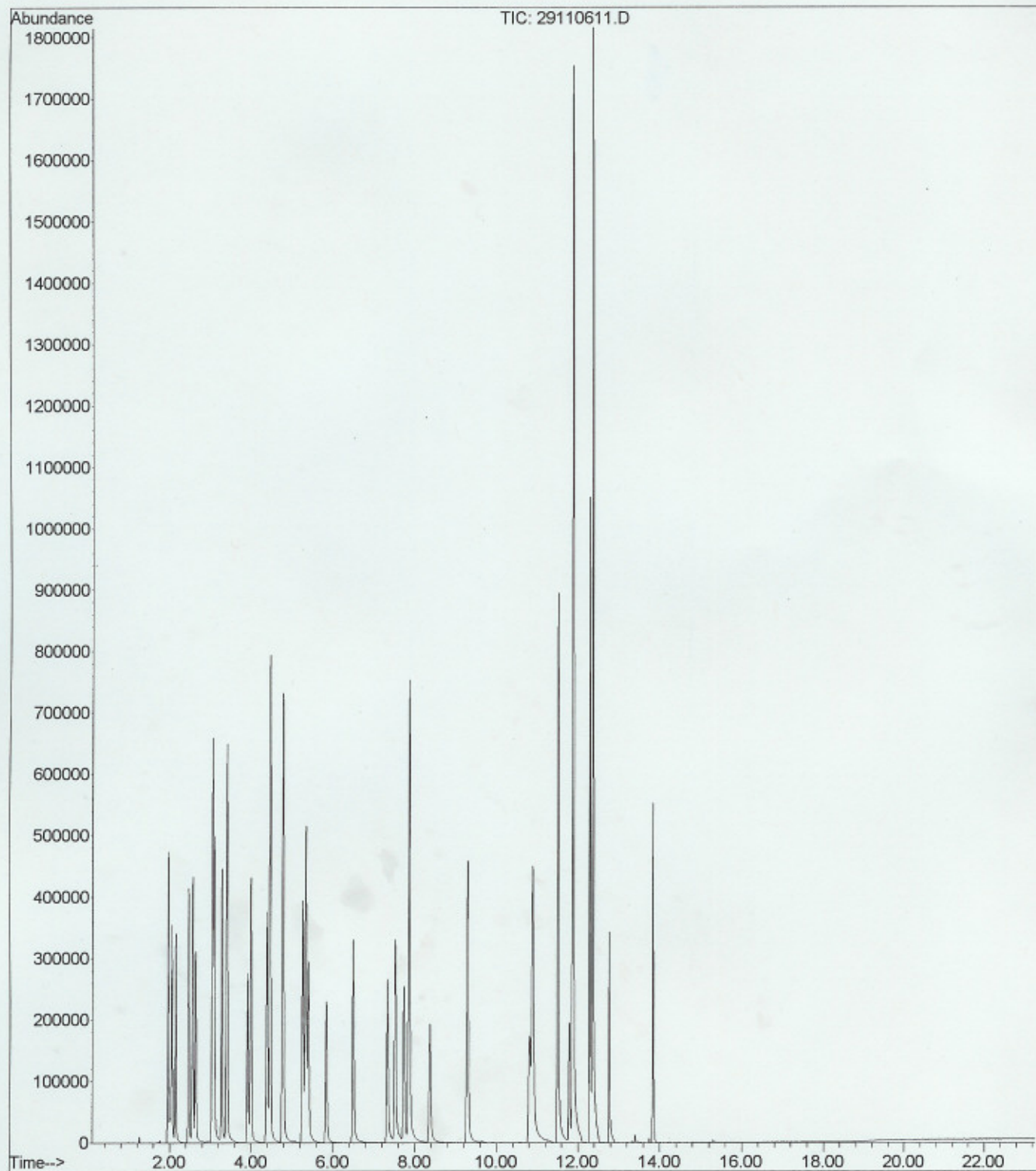
Notes and Definitions

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

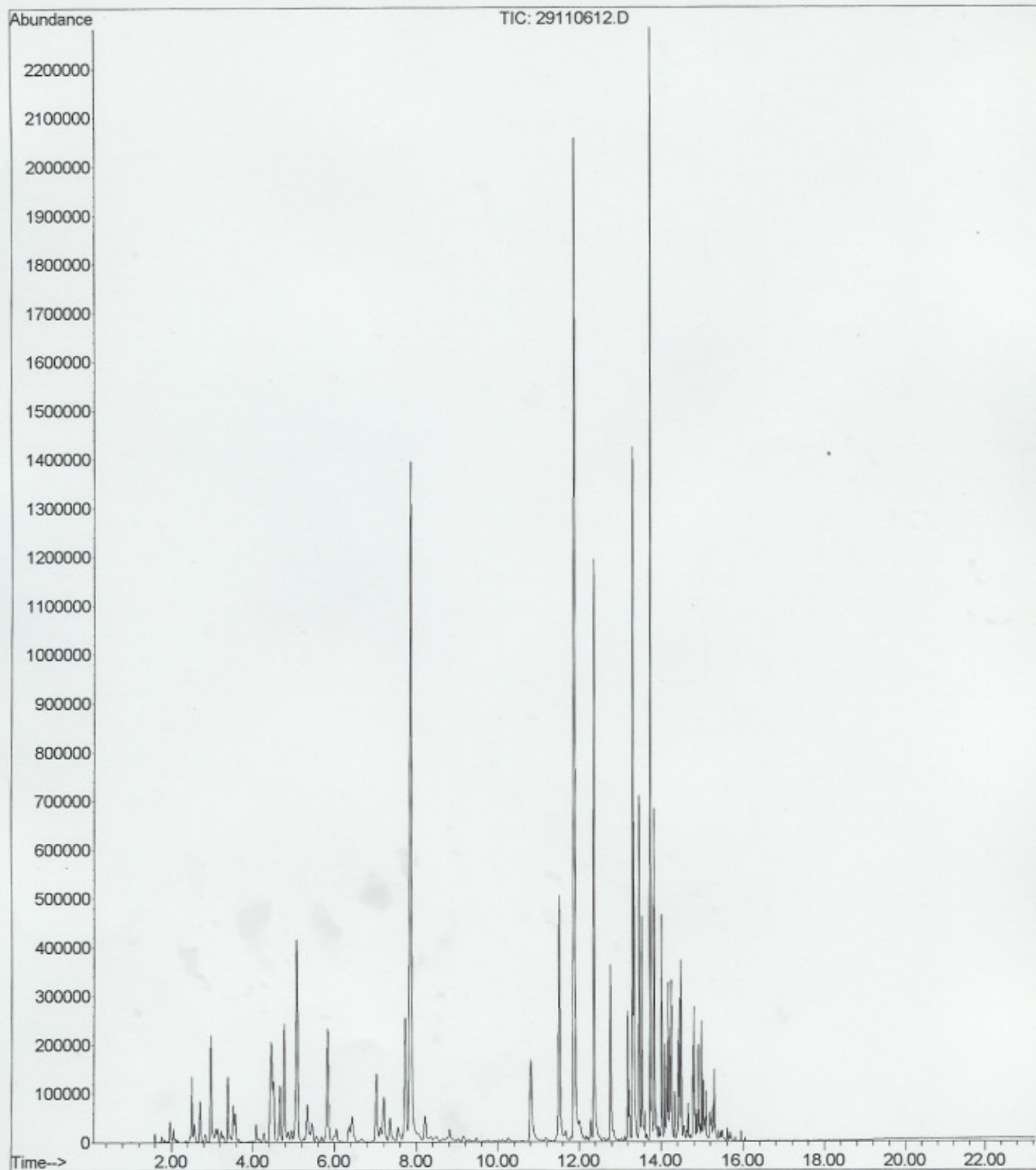
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Operator :
Acquired : 29 Nov 2006 7:12 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BL60502-BLK1
Misc Info :
Vial Number: 16



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Operator :
Acquired : 29 Nov 2006 4:30 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BL60502-BS1@voc
Misc Info :
Vial Number: 11



File :C:\MSDChem\1\DATA\2006-Nov-29-0941.b\29110612.D
Operator :
Acquired : 29 Nov 2006 5:03 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BL60502-BS1@gas
Misc Info :
Vial Number: 12



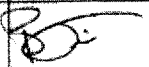
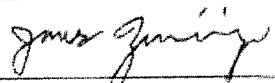
Appendix D

Chain of Custody Forms and Laboratory Reports
for the
Groundwater Extraction Treatment System

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# 6110012

Project No: 2333				Sampler: Brian Tms								Analyses/Method										
Project Name: 3609 International Blvd. Oakland				Report To: Tony Perini								TPHg, BTEX, MIBE 8260B										
Turnaround Time: Standard				Company: SOMA Environmental Engineering, Inc.																		
				Tel: 925-734-6400 Fax: 925-734-6401																		
		Sampling Date/Time		Matrix			# of Containers	Preservatives				Field Notes										
Lab No.	Sample ID	Date	Time	Soil	Water	Waste		HCl	H ₂ SO ₄	HNO ₃	ICE											
	Influent	11/20/06	3:05 PM				3-VOAs	*			*	Grab Sample										
	GAC-1	11/20/06	2:55 PM				3-VOAs	*			*	Grab Sample										
	PSP-1	11/20/06	2:45 PM				3-VOAs	*			*	Grab Sample										
Sampler Remarks: EDF Output Required				Relinquished by: 				Date/Time: 11/20/06 4:00 PM		Received by: 				Date/Time: 11/20/06 4:00 PM								

PAL Pacific Analytical Laboratory
851 West Midway Ave. Suite 201
Alameda, CA 94501 Phone (510) 864-0364

04 December 2006

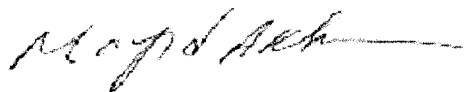
Mansour Sepehr
SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton, CA 94588

RE: 3609 International Blvd, Oakland

Work Order Number: 6110012

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,



Mansour Sepehr
Laboratory Director

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

Project: 3609 International Blvd, Oakland
Project Number: 2333
Project Manager: Mansour Sepehr

Reported:
04-Dec-06 11:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Influent	6110012-01	Water	20-Nov-06 15:05	20-Nov-06 16:00
GAC-1	6110012-02	Water	20-Nov-06 14:55	20-Nov-06 16:00
PSP-1	6110012-03	Water	20-Nov-06 14:45	20-Nov-06 16:00

SOMA Environmental Engineering Inc. 6620 Owens Drive, Suite A Pleasanton CA, 94588	Project: 3609 International Blvd, Oakland Project Number: 2333 Project Manager: Mansour Sepehr	Reported: 04-Dec-06 11:26
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Volatile Organic Compounds by EPA Method 8260B
Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Influent (6110012-01) Water Sampled: 20-Nov-06 15:05 Received: 20-Nov-06 16:00									
Gasoline (C6-C12)	244	50.0	ug/l	1	BK62701	20-Nov-06	25-Nov-06	EPA 8260B	
Benzene	111	0.500	"	"	"	"	"	"	
Ethylbenzene	4.86	0.500	"	"	"	"	"	"	
m&p-Xylene	6.10	2.00	"	"	"	"	"	"	
o-xylene	1.28	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	174	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		100 %	70-130		"	"	"	"	
GAC-1 (6110012-02) Water Sampled: 20-Nov-06 14:55 Received: 20-Nov-06 16:00									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BK62701	20-Nov-06	25-Nov-06	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	2.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		103 %	70-130		"	"	"	"	
PSP-1 (6110012-03) Water Sampled: 20-Nov-06 14:45 Received: 20-Nov-06 16:00									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BK62701	20-Nov-06	25-Nov-06	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	2.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		103 %	70-130		"	"	"	"	

Pacific Analytical Laboratory

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

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

Project: 3609 International Blvd, Oakland

Project Number: 2333

Project Manager: Mansour Sepehr

Reported:
04-Dec-06 11:26

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton CA, 94588

Project: 3609 International Blvd, Oakland
Project Number: 2333
Project Manager: Mansour Sepehr

Reported:
04-Dec-06 11:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BK62701 - EPA 5030 Water MS

Blank (BK62701-BLK1)

Prepared & Analyzed: 27-Nov-06

Surrogate: 4-Bromofluorobenzene	47.9		ug/l	50.0		95.8	70-130			
Surrogate: Dibromofluoromethane	50.0		"	50.0		100	70-130			
Surrogate: Perdeuterotoluene	51.2		"	50.0		102	70-130			
Gasoline (C6-C12)	ND	50.0	"							
Benzene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
m&p-Xylene	ND	2.00	"							
o-xylene	ND	0.500	"							
Toluene	ND	2.00	"							
MTBE	ND	0.500	"							

LCS (BK62701-BS1)

Prepared & Analyzed: 27-Nov-06

Surrogate: 4-Bromofluorobenzene	49.1		ug/l	50.0		98.2	70-130			
Surrogate: Dibromofluoromethane	42.0		"	50.0		84.0	70-130			
Surrogate: Perdeuterotoluene	50.5		"	50.0		101	70-130			
Gasoline (C6-C12)	2140	50.0	"	2000		107	70-130			
Benzene	124	0.500	"	100		124	70-130			
Toluene	99.4	2.00	"	100		99.4	70-130			
MTBE	82.1	0.500	"	100		82.1	70-130			

LCS Dup (BK62701-BSD1)

Prepared & Analyzed: 27-Nov-06

Surrogate: 4-Bromofluorobenzene	49.3		ug/l	50.0		98.6	70-130			
Surrogate: Dibromofluoromethane	42.4		"	50.0		84.8	70-130			
Surrogate: Perdeuterotoluene	49.5		"	50.0		99.0	70-130			
Gasoline (C6-C12)	1980	50.0	"	2000		99.0	70-130	7.77	20	
Benzene	122	0.500	"	100		122	70-130	1.63	20	
Toluene	96.7	2.00	"	100		96.7	70-130	2.75	20	
MTBE	84.5	0.500	"	100		84.5	70-130	2.88	20	

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

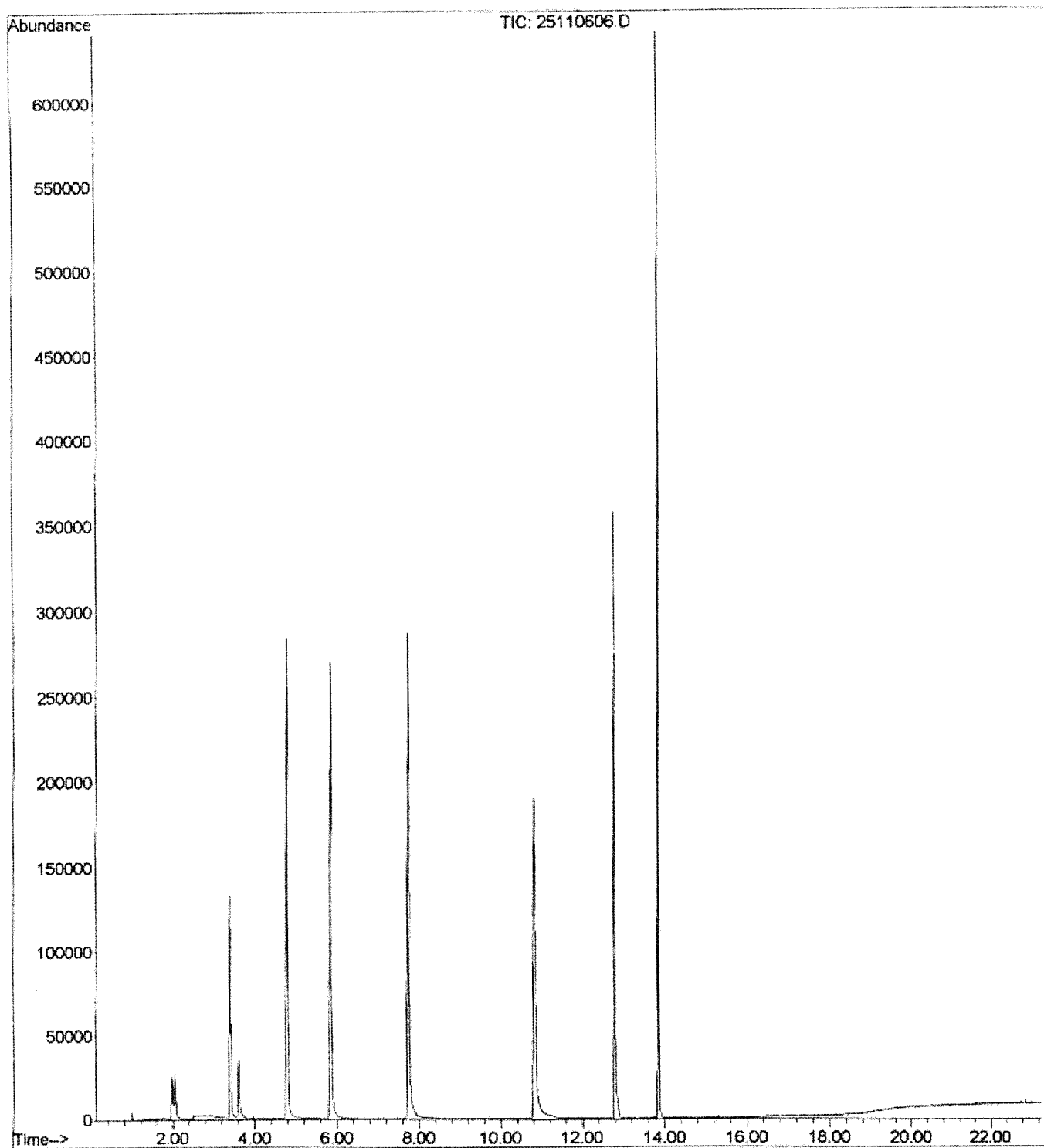
Project: 3609 International Blvd, Oakland
Project Number: 2333
Project Manager: Mansour Sepehr

Reported:
04-Dec-06 11:26

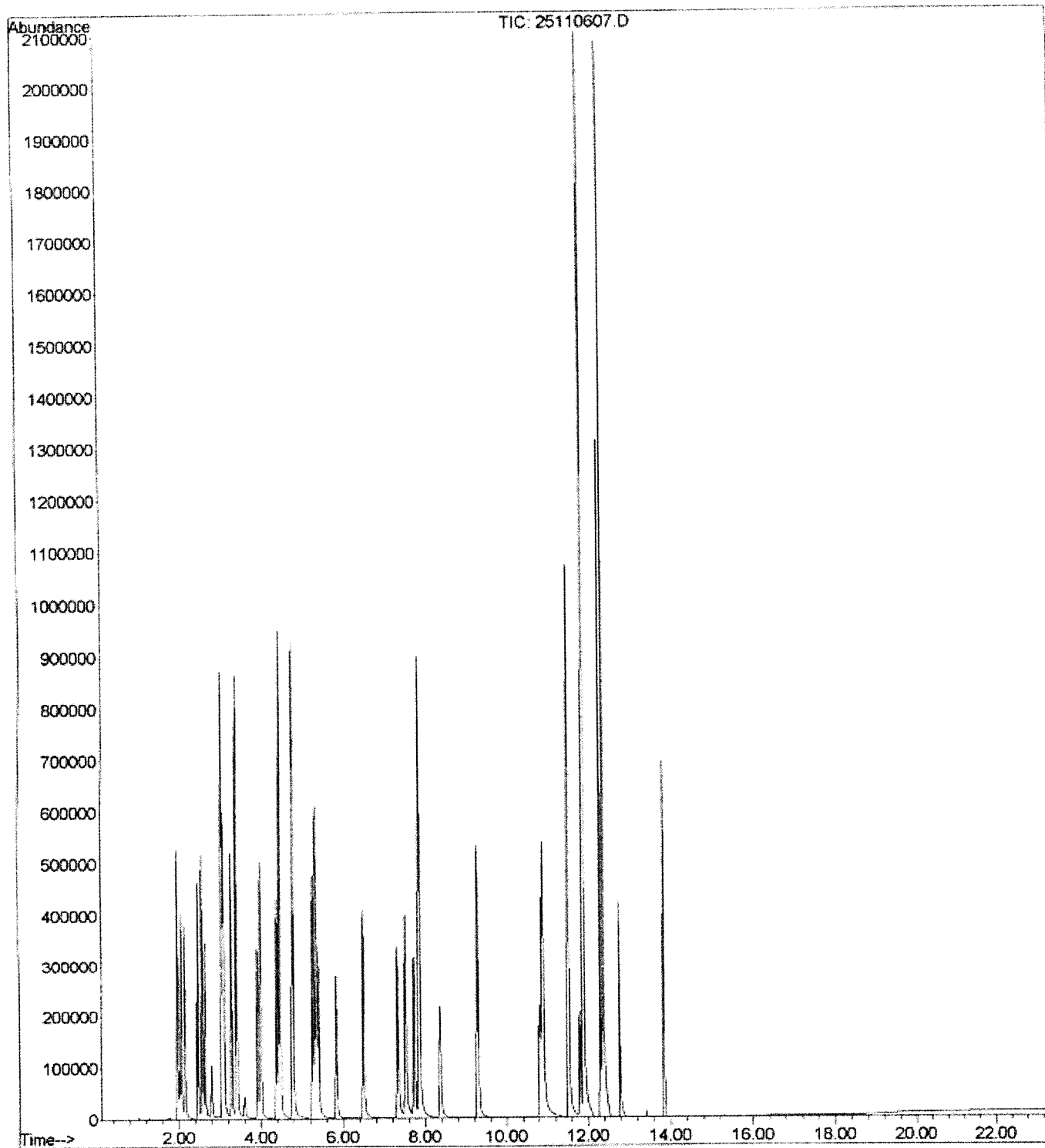
Notes and Definitions

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

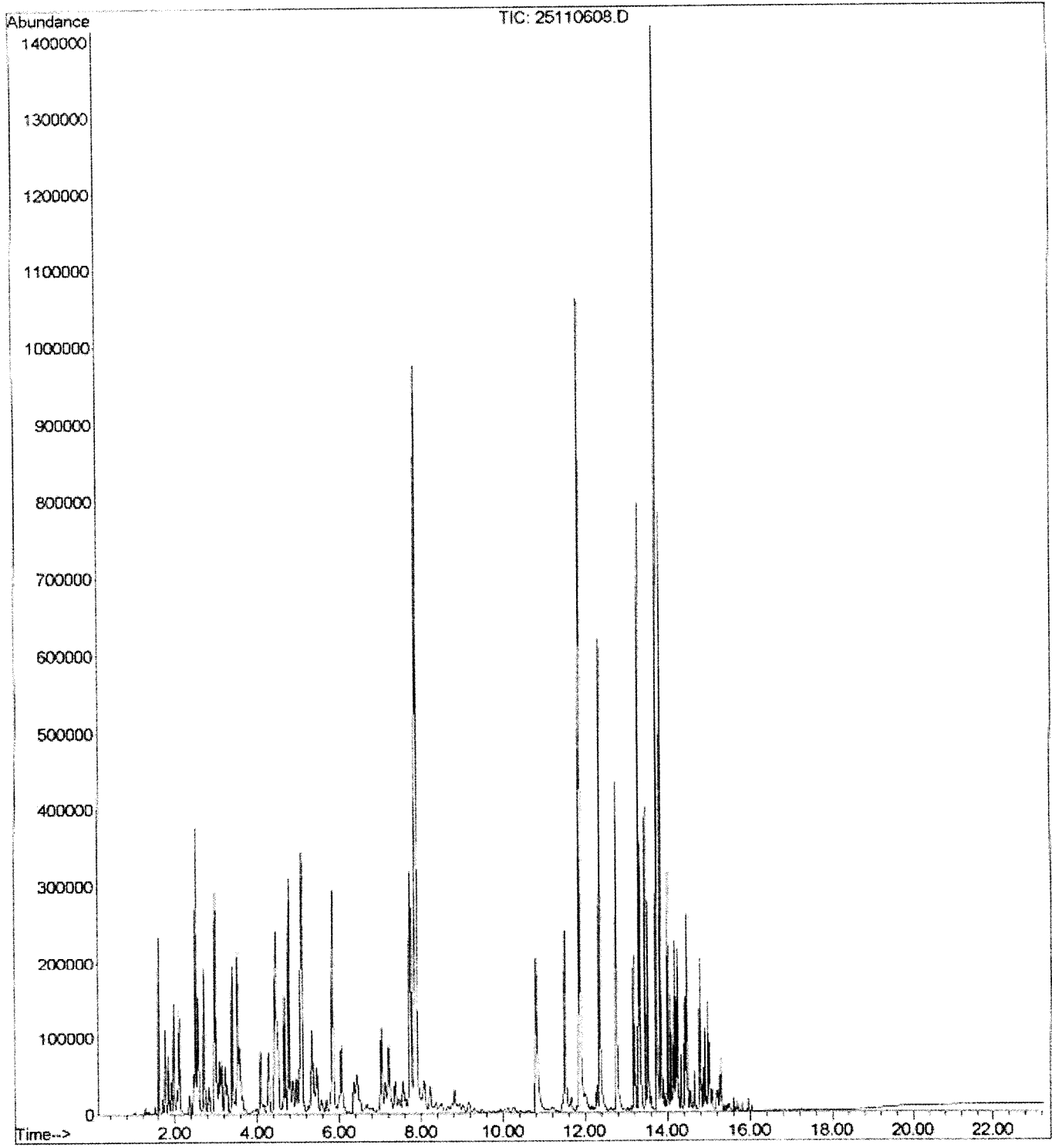
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Operator :
Acquired : 25 Nov 2006 1:41 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BK62701-BLK1
Misc Info :
Vial Number: 6



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Operator :
Acquired : 25 Nov 2006 2:14 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BK62701-BS1@voc
Misc Info :
Vial Number: 7



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Operator :
Acquired : 25 Nov 2006 2:48 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BK62701-BS1@gas
Misc Info :
Vial Number: 8



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# 6100000

Project No: 2333				Sampler: <u>Brown Tins</u>								Analyses/Method										
Project Name: 3609 International Blvd. Oakland				Report To: Tony Perini								TPHG. 8260B BTEX MIBE										
				Company: SOMA Environmental Engineering, Inc.																		
Turnaround Time: Standard				Tel: 925-734-6400 Fax: 925-734-6401																		
		Sampling Date/Time		Matrix			# of Containers	Preservatives				Field Notes										
Lab No.	Sample ID	Date	Time	Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE											
	Influent	<u>10/18/06</u>	<u>3:20 P.M.</u>				3-VOAs	*			*	Grab Sample	*									
	GAC-1	<u>10/18/06</u>	<u>3:10 P.M.</u>				3-VOAs	*			*	Grab Sample	*									
	PSP-1	<u>10/18/06</u>	<u>3:00 P.M.</u>				3-VOAs	*			*	Grab Sample	*									
Sampler Remarks: EDF Output Required				Relinquished by: <u>[Signature]</u>				Date/Time: <u>10/18/06</u> <u>3:45 PM</u>				Received by: <u>[Signature]</u>				Date/Time: <u>10/18/06</u> <u>3:45 PM</u>						

PAL Pacific Analytical Laboratory

851 West Midway Ave. Suite 201
Alameda, CA 94501

Phone (510) 864-0364

24 October 2006

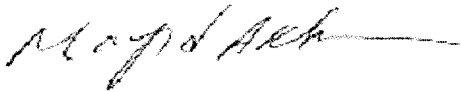
Mansour Sepehr
SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton, CA 94588

RE: 3609 International Blvd, Oakland

Work Order Number: 6100006

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

Sincerely,



Maiid Akhavan
Laboratory Director

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

Project: 3609 International Blvd, Oakland
Project Number: 2333
Project Manager: Mansour Sepehr

Reported:
24-Oct-06 13:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Influent	6100006-01	Water	18-Oct-06 13:20	18-Oct-06 16:37
GAC-1	6100006-02	Water	18-Oct-06 13:10	18-Oct-06 16:37
PSP-1	6100006-03	Water	18-Oct-06 13:00	18-Oct-06 16:37

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

Project: 3609 International Blvd, Oakland
Project Number: 2333
Project Manager: Mansour Sepehr

Reported:
24-Oct-06 13:30

Volatile Organic Compounds by EPA Method 8260B Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Influent (6100006-01) Water Sampled: 18-Oct-06 13:20 Received: 18-Oct-06 16:37									
Gasoline (C6-C12)	1230	100	ug/l	2	BJ62001	18-Oct-06	19-Oct-06	EPA 8260B	
Benzene	259	1.00	"	"	"	"	"	"	
Ethylbenzene	39.0	1.00	"	"	"	"	"	"	
m&p-Xylene	44.2	2.00	"	"	"	"	"	"	
o-xylene	39.8	1.00	"	"	"	"	"	"	
Toluene	9.75	4.00	"	"	"	"	"	"	
MTBE	217	1.00	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		89.0 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		98.0 %	70-130		"	"	"	"	
GAC-1 (6100006-02) Water Sampled: 18-Oct-06 13:10 Received: 18-Oct-06 16:37									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BJ62001	18-Oct-06	19-Oct-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	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		100 %	70-130		"	"	"	"	
PSP-1 (6100006-03) Water Sampled: 18-Oct-06 13:00 Received: 18-Oct-06 16:37									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BJ62001	18-Oct-06	19-Oct-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	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		101 %	70-130		"	"	"	"	

Pacific Analytical Laboratory

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

PAL

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

Project: 3609 International Blvd, Oakland

Project Number: 2333

Project Manager: Mansour Sepehr

Reported:
24-Oct-06 13:30

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOMA Environmental Engineering Inc. 6620 Owens Drive, Suite A Pleasanton CA, 94588	Project: 3609 International Blvd, Oakland Project Number: 2333 Project Manager: Mansour Sepehr	Reported: 24-Oct-06 13:30
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BJ62001 - EPA 5030 Water MS

Blank (BJ62001-BLK1)

Prepared & Analyzed: 20-Oct-06

Surrogate: 4-Bromofluorobenzene	46.8		ug/l	50.0		93.6	70-130			
Surrogate: Dibromofluoromethane	55.6		"	50.0		111	70-130			
Surrogate: Perdeuterotoluene	51.4		"	50.0		103	70-130			
Gasoline (C6-C12)	ND	50.0	"							
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	"							

LCS (BJ62001-BS1)

Prepared & Analyzed: 20-Oct-06

Surrogate: 4-Bromofluorobenzene	47.5		ug/l	50.0		95.0	70-130			
Surrogate: Dibromofluoromethane	44.2		"	50.0		88.4	70-130			
Surrogate: Perdeuterotoluene	46.9		"	50.0		93.8	70-130			
Gasoline (C6-C12)	1860	50.0	"	2000		93.0	70-130			
Benzene	114	0.500	"	100		114	70-130			
Toluene	108	2.00	"	100		108	70-130			
MTBE	104	0.500	"	100		104	70-130			

LCS Dup (BJ62001-BSD1)

Prepared & Analyzed: 20-Oct-06

Surrogate: 4-Bromofluorobenzene	51.4		ug/l	50.0		103	70-130			
Surrogate: Dibromofluoromethane	44.4		"	50.0		88.8	70-130			
Surrogate: Perdeuterotoluene	49.8		"	50.0		99.6	70-130			
Gasoline (C6-C12)	1830	50.0	"	2000		91.5	70-130	1.63	20	
Benzene	98.9	0.500	"	100		98.9	70-130	14.2	20	
Toluene	104	2.00	"	100		104	70-130	3.77	20	
MTBE	94.4	0.500	"	100		94.4	70-130	9.68	20	

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

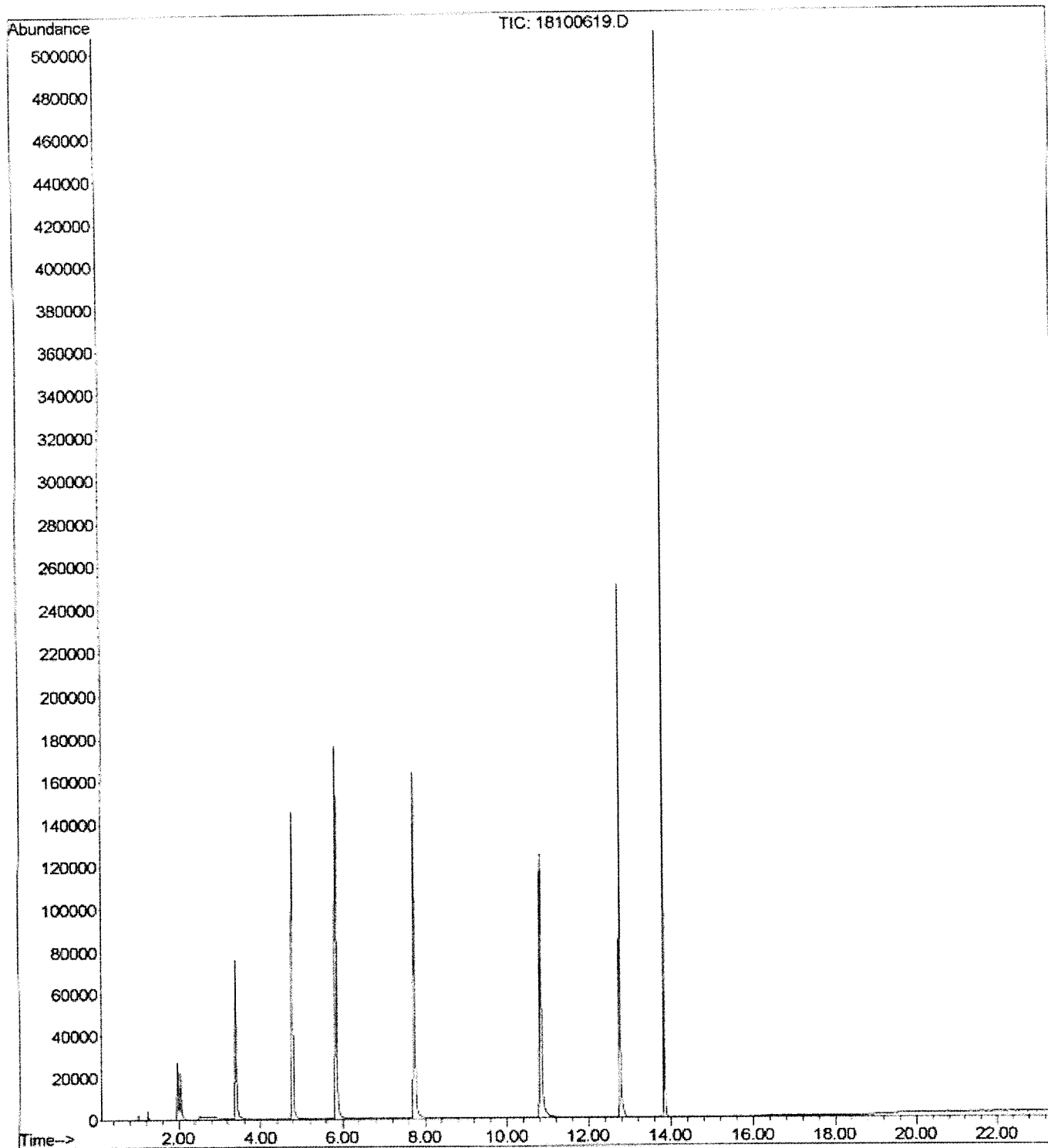
Project: 3609 International Blvd, Oakland
Project Number: 2333
Project Manager: Mansour Sepehr

Reported:
24-Oct-06 13:30

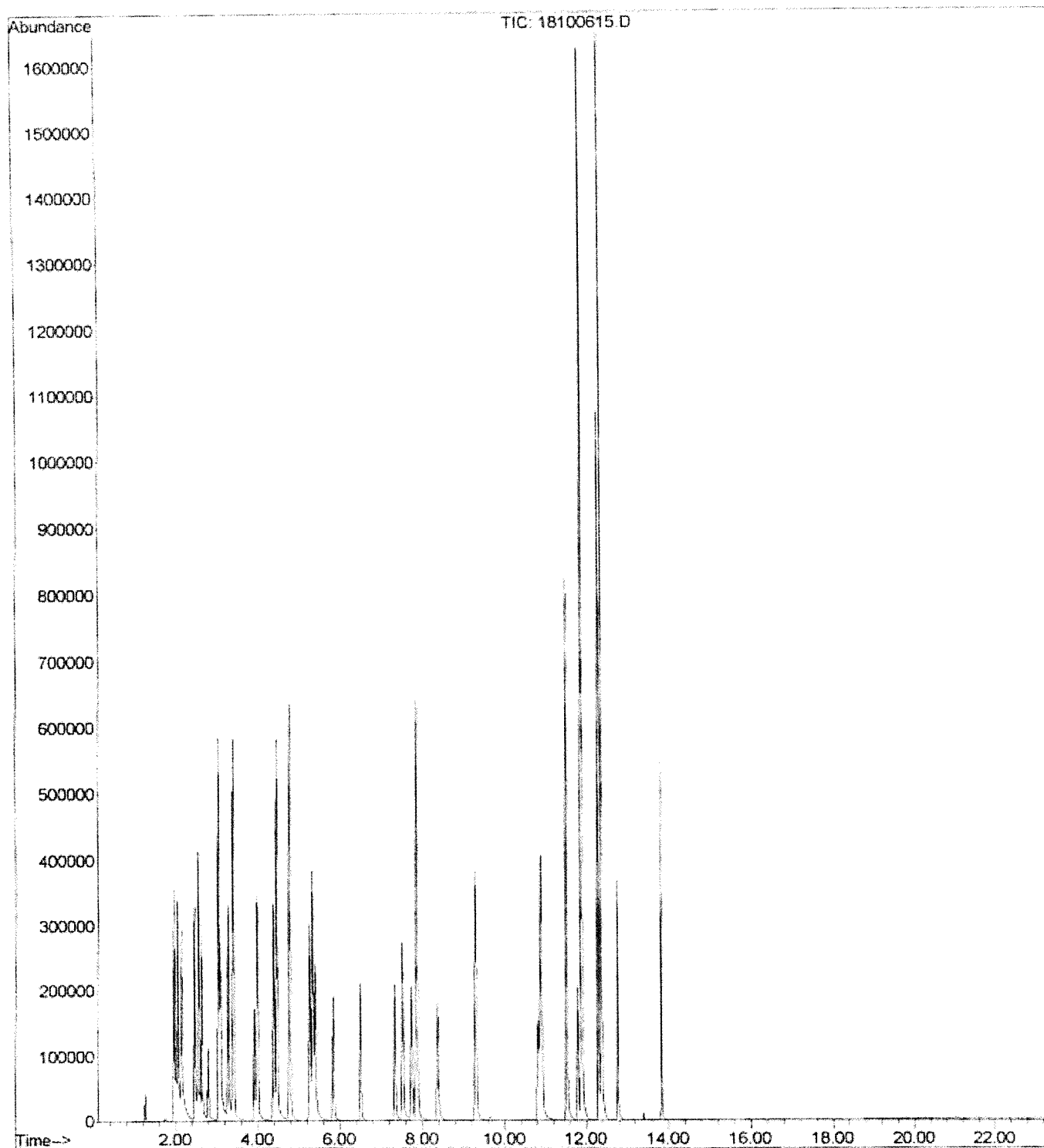
Notes and Definitions

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\2006-Oct-18-0937.b\18100619.D
Operator :
Acquired : 18 Oct 2006 7:25 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BJ62001-BLK1
Misc Info :
Vial Number: 19



File :C:\MSDCHEM\1\DATA\2006-Oct-18-0937.b\18100615.D
Operator :
Acquired : 18 Oct 2006 5:12 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BJ62001-BS1@voc
Misc Info :
Vial Number: 15



File :C:\MSDCHEM\1\DATA\2006-Oct-18-0937.b\18100616.D
Operator :
Acquired : 18 Oct 2006 5:45 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BJ62001-BS1@gas
Misc Info :
Vial Number: 16

