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July 21, 2008

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 "Second Quarter 2008 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,

Mansour Sepehr, Ph.D., PE
Principal Hydrogeologist

Enclosure

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

Mr. Vince Tong w/report enclosure
Traction International

Second Quarter 2008 Groundwater Monitoring and Remediation System Operation Report With Evaluation of Effectiveness of Monthly MPE

Tony's Express Auto Service
3609 International Boulevard
Oakland, California

July 21, 2008

Project 2331

Prepared for

Mr. Abolghassem Razi
3609 International Boulevard
Oakland, California 94601

CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this report on behalf of Mr. Abolghassem Razi, property owner of 3609 International Boulevard, Oakland, California, to comply with Alameda County Environmental Health Services requirements for the Second Quarter 2008 groundwater monitoring event.

Mansour Sepehr, PhD, PE
Principal Hydrogeologist

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1. INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) has prepared this monitoring and groundwater remediation report on behalf of Mr. Abolghassem Razi, owner of the property at 3609 International Boulevard at the intersection of 36th Avenue and International Boulevard in Oakland, California (Figure 1). Tony's Express Auto Service operates on the property.

This report summarizes results of the Second Quarter 2008 groundwater monitoring event conducted at the site on May 6 and 7, 2008, and includes laboratory analytical results for the groundwater samples.

This report also describes operation of the groundwater remediation systems comprised of groundwater-pump-and treat, groundwater air sparging and the results of four monthly multi-phase extraction (MPE) events conducted at the site, each with a duration of 5-days. The locations of groundwater remediation systems are shown in Figure 2.

1.1 Summary of Field Activities

On May 6, 2008 eight on-site monitoring wells (MW-1 through MW-3, MW-4R, MW-5 through MW-8), two off-site wells (MW-10, MW-12), three French drain risers (FD Center, FD East, and FD West), and one extraction well (EX-1) were measured for depth to groundwater.

On May 6 and 7, 2008, additional field measurements and grab groundwater samples were collected from all monitoring wells except MW-11. SOMA field crew was unable to monitor well MW-11 because the gate for access to this well was locked.

Groundwater monitoring activities were performed in accordance with general guidelines of the California Regional Water Quality Control Board (CRWQCB) and the Alameda County Environmental Health Services (ACEHS). A description of groundwater monitoring procedures followed is included in Appendix A. Figure 2 shows well and riser locations.

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

1.2 Summary of Laboratory Analysis

Pacific Analytical Laboratory, a state-certified laboratory, analyzed groundwater samples for the following:

- Total petroleum hydrocarbons as gasoline (TPH-g)
- Benzene, toluene, ethylbenzene, total xylenes (BTEX)
- Methyl tertiary-butyl ether (MtBE)

Samples were prepared using EPA Method 5030 and analyzed using EPA Method 8260B.

2. RESULTS

Following are results of field measurements and laboratory analyses for the May 6 and 7, 2008 groundwater monitoring event.

2.1 Field Measurements

As shown in Table 1, depths to groundwater for the monitoring wells ranged from 10.19 feet in well MW-10 to 12.69 feet in MW-3. Corresponding groundwater elevations ranged from 25.99 feet in MW-12 to 29.10 feet in MW-5. Groundwater elevations for the center, east, and west risers and extraction well EX-1 were 24.40 feet, 27.64 feet, 27.15 feet, and 23.13 feet, respectively.

Figure 3 shows the groundwater elevation contour map. Groundwater flows toward extraction well EX-1 at an approximate gradient of 0.110 feet/feet. The lowest site-wide groundwater elevation was measured in EX-1, which is providing a capture zone within the region of the UST cavity and in general has reduced off-site contaminant migration.

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

The most energetically preferred electron acceptor for redox reactions is dissolved oxygen (DO). Evaluating distribution of electron acceptors can provide evidence of where, and to what extent, hydrocarbon biodegradation is occurring.

Upon equalization of the surrounding aquifer, when the purge cycle was terminated, DO concentrations ranged from 0.08 mg/L in well MW-8 to 0.81 mg/L in well MW-1. Oxidation-reduction potential (ORP) showed negative redox potentials in all monitoring wells. Oxidation of petroleum hydrocarbons could have occurred in these monitoring wells with negative redox potential, because it indicates that contaminants in groundwater are conducive to anaerobic biodegradation.

Ferrous iron concentrations were detected throughout the site except in wells MW-4R and MW-10. Detectable Ferrous iron concentrations, which can indicate

anaerobic biodegradation, ranged from 0.05 mg/L in well MW-5 to 3.15 mg/L in MW-3.

Nitrate concentrations were non-detectable throughout the site.

High ferrous iron concentrations in combination with non-detectable nitrate levels indicate anaerobic biodegradation beneath the site.

The absence of sulfate in groundwater samples may indicate an anaerobic methanogenesis process. Sulfate was below the equipment tolerance level in all monitoring wells except for MW-5 and MW-7, where it was detected at 9 mg/L and 17 mg/L respectively.

2.2 Laboratory Analysis

Table 1 presents laboratory analysis results for groundwater samples collected during this monitoring event, and Appendix C contains chain of custody documentation and laboratory analytical reports.

TPH-g was detected throughout the site except at well MW-7. Detectable TPH-g concentrations ranged from 68.9 µg/L in MW-4R to 8,700 µg/L in MW-6.

In the more impacted wells MW-1, MW-3, MW-6 and MW-8 the following concentration trends were observed.

- At MW-1 in the vicinity of the UST cavity, TPH-g has increased slightly since the previous monitoring event; however, the current TPH-g concentration is significantly lower than in Fourth Quarter 2006.
- At MW-3 in the vicinity of the UST cavity, TPH-g has increased since the previous monitoring event.
- Since the previous monitoring event, TPH-g has increased at MW-6.
- The groundwater sample collected from MW-8 indicated a decrease in TPH-g concentrations.

Refer to Table 1 for detailed TPH-g site concentration trends.

Figure 4 displays the contour map of TPH-g concentrations in groundwater. The majority of the TPH-g plume was in the vicinity of the UST cavity at wells MW-3, MW-6 and MW-1, as well as in MW-8 southwest of MW-1 and MW-3. Capture zones have been established at the French drain and extraction well, which have decreased off-site migration. TPH-g decreased at both off-site wells, MW-10 and MW-12, since First Quarter 2007.

The following BTEX concentration trends were observed during this monitoring event:

- All BTEX analytes were below laboratory-reporting limits in wells MW-5 and MW-7.
- In well MW-12, all BTEX analytes were below laboratory-reporting limits, except ethylbenzene, which was at low level.
- In MW-4R, toluene and xylenes were non-detectable and in MW-10, xylenes were non-detectable.
- The highest benzene, toluene, and total xylenes were detected in MW-3 at 232 µg/L, 66.7 µg/L, and 942 µg/L, respectively. The highest ethylbenzene concentration was detected in MW-6 at 365 µg/L.

Figure 5 shows the contour map of benzene concentrations in the groundwater. The majority of the benzene plume appears to be in the vicinity of the pump islands and USTs, at well MW-3. Refer to Table 1 for benzene concentration trends.

MtBE was below the laboratory-detection limit in wells MW-2, MW-4R, MW-6, and MW-7. Detectable MtBE concentrations ranged from 0.52 µg/L in MW-5 to 23 µg/L in MW-10. Figure 6 shows the contour map of MtBE concentrations in the groundwater.

3. GROUNDWATER TREATMENT SYSTEM OPERATION

The treatment system began operating on December 9, 1999. Since startup, 3,927,778 gallons of groundwater have been treated and discharged (as of June 9, 2008) into the East Bay Municipal Utility District (EBMUD) sewer system under the existing discharge permit.

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 submersible 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 that was refurbished with new carbon; the 200-pound carbon drum was also replaced. The former 2,000-pound vessel had become rusted from prolonged use. A schematic diagram of the remediation system is displayed in Figure 7.

On February 19, 2007, a carbon change-out was conducted on the remedial system, during which the 2,000-pound vessel was refurbished with new carbon and the 200-pound carbon drum was replaced.

To reduce the hydrocarbon source region in the vicinity of the UST cavity, SOMA oversaw installation of extraction well EX-1 by Gregg Drilling & Testing, Inc. on

February 5, 2007. On April 20, 2007, SOMA installed an electric submersible pump in well EX-1, connected it to the existing groundwater remediation system, and began extracting groundwater from the well. The pump is powered on the same electrical circuit as the two existing pumps inside the French drain risers. Underground piping to the existing system influent surge tank conveys the extracted groundwater, which is then treated using GAC and discharged to the local sanitary sewer system, in accordance with the site EBMUD discharge permit. Figure 2 shows the location of EX-1.

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

Since startup, the treatment system has removed approximately 240.82 pounds of hydrocarbons and 87.59 pounds of MtBE from groundwater at the site. Figure 8 shows approximate masses of TPH-g and MtBE removed from impacted groundwater during operation of the treatment system.

4. OPERATION OF AIR SPARGING SYSTEM

From February 22, 2006 to March 6, 2006, SOMA oversaw installation of the air sparging system, which 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 MW-6 (Figure 2). Figures 9 and 10 show the block diagrams of the air sparging and vapor extraction units. The operating permit for the soil vapor extraction (SVE) system was extended to August 2008 by the Bay Area Air Quality Management District (BAAQMD).

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

The air sparging system was initially started on March 15, 2006. However, due to close proximity of the system to a residential area, the system was modified to reduce noise level. Specifically, a timer was installed on the compressor to control operation hours of the air sparging system and limit operation to daytime hours. To further suppress noise, the existing blower unit, installed in 2000, was rebuilt and foam was placed around it as a noise suppressant.

To more effectively increase removal of contaminants in the soil, an additional vacuum blower was installed in series to the existing vacuum blower 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.

On May 23, 2007, SOMA restarted the SVE and air sparge systems and resumed recording of field readings for these systems. Based on field measurements, it appeared that using both vacuum blowers in series on the same extraction manifold had little effect on the air flow rate into the system or the concentrations of hydrocarbons in the extracted gases. Therefore, the inlet piping from the well field was divided into two manifolds with the intent to use each vacuum pump to extract from a separate set of wells. However, due to alterations in the facility's main electrical supply panel made by non-SOMA personnel without SOMA's knowledge, the operation of both vacuum pumps at the same time was not possible because the resultant electrical load tripped the circuit breaker that includes the SVE system. Subsequent operation of the SVE system has been limited to one blower at a time.

As shown in Table 3, approximately 967.2 pounds of hydrocarbons as vapor have been removed from the impacted soil, as of September 28, 2007. Table 3 also outlines the history of the SVE system. The remedial system has been shut down since then because of wet weather.

5. MULTI-PHASE EXTRACTION EVENTS

5.1 March 2008 Event

The March 2008 multi-phase extraction (MPE) event took place between March 24 and 28, 2008 utilizing wells MW-1 and MW-3. MPE operational data is presented in Table 4. Extraction data is presented in Appendix E. Field data sheets are presented in Table A. A representative sample was analyzed from the stack of the thermal oxidizer to show compliance with the BAAQMD permit. Table 6 lists sample identifiers and analysis results.

MPE was performed at wells MW-1 and MW-3, starting on Monday, March 24, 2008, at 09:45 and ending on March 28, 2008, at 13:00. Total MPE time at wells MW-1 and MW-3 was 5,415 minutes, or 90.25 hours.

The estimated mass of VOCs removed from the soil vapor extracted from MW-1 and MW-3 during the MPE event was 24.3 lbs. The estimated VOC mass removal rate was 6.46 lbs/day.

As of the March 2008 MPE event, the cumulative total mass of VOCs extracted by MPE from extraction wells is 88.3 lbs; this includes 64 lbs extracted during the December 2007 pilot test and 24.3 lbs during the March 2008 event.

Listed in Table 7 are analysis results for groundwater samples collected from MW-1 and MW-3 before and after conducting the March 2008 MPE event. Also listed in Table 7 are analysis results for groundwater samples collected from MW-1 and MW-3 during the December 2007 pilot test. Comparison of analysis results before and after the March 2008 MPE event indicates that concentrations of TPH-g increased at MW-1 and MW-3. In the same comparison, concentrations of BTEX and MtBE increased at wells MW-1 and MW-3 except for a decrease in MtBE concentration at MW-3. Decreases in constituent concentrations illustrate that fuel hydrocarbons are being stripped and removed from the smear zone. Increases in constituent concentrations illustrate that significant fuel hydrocarbons are still adsorbed to the smear zone.

5.2 April 2008 Event

The April 2008 event took place between April 14 and 18, 2008 utilizing wells MW-1 and MW-3. MPE operational data is presented in Table 4. Extraction data is presented in Table 5. Field data sheets are presented in Appendix E. A representative sample was analyzed from the stack of the thermal oxidizer to show compliance with the BAAQMD permit. Table 6 lists sample identifiers and analysis results.

MPE was performed at wells MW-1 and MW-3, starting on Monday, April 14, 2008, at 10:00 and ending on April 18, 2008, at 14:30. Total MPE time at wells MW-1 and MW-3 was 5,670 minutes, or 94.5 hours.

The estimated mass of VOCs removed from the soil vapor extracted from MW-1 and MW-3 during the MPE event was 43.06 lbs. The estimated VOC mass removal rate was 10.94 lbs/day.

As of the April 2008 MPE event, the cumulative total mass of VOCs extracted by MPE from extraction wells is 131.36 lbs (Figure 17); this includes 64 lbs extracted during the December 2007 pilot test, 24.3 lbs during the March 2008 event, and 43.06 lbs during the April 2008 event. Figure18 illustrates the mass of VOCs removed during each MPE event. The increase in removal rate of contaminants during this event in comparison with the March 2008 event can be attributed to the lack of rainfall In April 2008.

Listed in Table 7 are analysis results for groundwater samples collected from MW-1 and MW-3 before and after conducting the April 2008 MPE event. Also listed in Table 7 are analysis results for groundwater samples collected from MW-1 and MW-3 during previous events. Figures 11 through 16 illustrate results

of groundwater analysis. Comparison of analysis results before and after the April 2008 MPE event indicates that concentrations of TPH-g increased at MW-1 and decreased at MW-3. In the same comparison, concentrations of BTEX and MtBE increased at well MW-1. Also in the same comparison, concentrations of benzene, toluene, total xylenes, and MtBE increased at MW-3 while concentrations of ethylbenzene decreased at MW-3. Decreases in constituent concentrations illustrate that fuel hydrocarbons are being stripped and removed from the smear zone. Increases in constituent concentrations illustrate that significant fuel hydrocarbons are still adsorbed to the smear zone.

5.3 May 2008 Event

The May 2008 event took place between May 12 and 16, 2008 utilizing wells MW-1 and MW-3. MPE operational data is presented in Table 4. Extraction data is presented in Table 5. Field data sheets are presented in Appendix E. A representative sample was analyzed from the stack of the thermal oxidizer to show compliance with the BAAQMD permit. Table 6 lists sample identifiers and analysis results.

MPE was performed at wells MW-1 and MW-3, starting on Monday, May 12, 2008, at 09:30 and ending on May 16, 2008, at 13:00. Total MPE time at wells MW-1 and MW-3 was 4,837 minutes, or 80.62 hours.

A delay in MPE operations was encountered on Monday, May 12, 2008, at 13:37 due to low propane levels in the thermal oxidizer system. Propane was delivered the same day at 15:30 and MPE operations continued at 16:00. Another delay in MPE operations occurred due to overheating of the electric generator. High ambient temperatures of over 100°F were observed during the day through the early evening on Thursday, May 15, 2008. Consequently, the generator shut down later that evening. The MTS was restarted and MPE operations continued at 0800 the next morning on May 16, 2008.

The estimated mass of VOCs removed from the soil vapor extracted from MW-1 and MW-3 during the MPE event was 46.19 lbs. The estimated VOC mass removal rate was 13.75 lbs/day.

As of the May 2008 MPE event, the cumulative total mass of VOCs extracted by MPE from extraction wells is 177.55 lbs (Figure 17); this includes 64 lbs extracted during the December 2007 pilot test, 24.3 lbs during the March 2008 event, 43.06 lbs during the April 2008 event, and 46.19 lbs during the May 2008 event. Figure 18 illustrates the mass of VOCs removed during each MPE event.

Listed in Table 7 are analysis results for groundwater samples collected from MW-1 and MW-3 before and after conducting the April 2008 MPE event. Also listed in Table 7 are analysis results for groundwater samples collected from

MW-1 and MW-3 during previous events. Figures 11 through 16 illustrate the results of groundwater analysis. Comparison of analysis results before and after the May 2008 MPE event indicates that concentrations of TPH-g increased at MW-1 and MW-3. In the same comparison, concentrations of BTEX and MtBE increased at well MW-1 and MW-3. Increases in constituent concentrations illustrate that fuel hydrocarbons are still adsorbed to the smear zone.

5.4 June 2008 Event

The June 2008 event took place between June 9 and 13, 2008 utilizing wells MW-1 and MW-3. MPE operational data is presented in Appendix E. Extraction data is presented in Table 5. Field data sheets are presented in Table A. A representative sample was analyzed from the stack of the thermal oxidizer to show compliance with the BAAQMD permit. Table 6 lists sample identifiers and analysis results of vapor samples.

MPE was performed at wells MW-1 and MW-3, starting on Monday, June 9, 2008, at 10:30 and ending on June 13, 2008, at 15:00. Total MPE time at wells MW-1 and MW-3 was 6,030 minutes, or 100.5 hours.

The estimated mass of VOCs removed from the soil vapor extracted from MW-1 and MW-3 during the MPE event was 58.0 lbs. The estimated VOC mass removal rate was 13.85 lbs/day.

Laboratory analysis results of vapor samples taken at wells MW-1 and MW-3 show a decrease in concentrations of TPH-g, benzene, and MtBE over the length of the MPE event. The total mass of TPH-g, benzene and MtBE removed by the June 2008 event is estimated using average values of soil vapor analytical results for the event and the median flow rate for the extraction wells. The estimated total mass of TPH-g removed from extracted soil vapor by the June 2008 event conducted on wells MW-1 and MW-3 was 37.91 lbs; of benzene removed, 0.15 lbs; and of MtBE removed, 0.0056 lbs

(*Note: The discrepancy between the estimated total mass of VOCs removed and the total mass of TPH-g, benzene, and MtBE removed is based on the difference between PID measurements as hexane and laboratory analyses of the extracted vapor stream. The concentrations based on laboratory analysis are representative only of that moment in the pilot test at which the extracted vapor stream was sampled. Since the laboratory analytical results are not representative of the entire length of the pilot test, unlike the PID measurements which are collected continuously over the length of the pilot test, the total mass of VOCs removed as measured by PID is used to estimate mass removals.)

As of the June 2008 MPE event, the cumulative total mass of VOCs extracted by MPE from extraction wells is 235.55 lbs (Figure 17); this includes 64 lbs

extracted during the December 2007 pilot test, 24.3 lbs during the March 2008 event, 43.06 lbs during the April 2008 event, 46.19 lbs during the May 2008 event, and 58.0 lbs during the June 2008 event. Figure 18 illustrates the mass of VOCs removed during each MPE event.

Listed in Table 7 are analysis results for groundwater samples collected from MW-1 and MW-3 before and after conducting the June 2008 MPE event. Also listed in Table 7 are analysis results for groundwater samples collected from MW-1 and MW-3 during previous events. Figures 11 through 16 illustrate the results of groundwater analysis. Comparison of analysis results before and after the June 2008 MPE event indicates that concentrations of TPH-g increased at MW-1 and MW-3. In the same comparison, concentrations of BTEX and MtBE increased at wells MW-1 and MW-3. Increases in constituent concentrations illustrate that fuel hydrocarbons are still adsorbed to the smear zone.

Figures 19 through 21 illustrate the concentrations of TPH-g, benzene, and MtBE in monitoring well MW-1 from the Fourth Quarter 2007 monitoring event to June 2008 MPE event. Figures 21 through 24 illustrate the concentrations of TPH-g, benzene, and MtBE in monitoring well MW-3 from the Fourth Quarter 2007 monitoring event to June 2008 MPE event. Comparison of these analytical results indicates a decreasing trend of contaminant concentrations in these wells.

6. CONCLUSIONS AND RECOMMENDATIONS

Findings of the Second Quarter 2008 groundwater monitoring event are summarized below.

1. In general, based on low groundwater elevations observed at EX-1, a capture zone remains established at this location.
2. Compared with the previous monitoring event, TPH-g concentrations have remained almost the same. It appears that MW-3 and MW-6 are located within the remaining hotspots of the groundwater chemical plume.
3. It appears that MtBE concentrations in groundwater are diminishing across the site and that current maximum concentrations are below the Environmental Screening Levels (ESLs) for industrial land use type where groundwater is not a potential drinking water source.
4. The bioattenuation study confirmed occurrence of biodegradation beneath the site. Based on this study, affected areas appear to be in the vicinity of the USTs, around wells MW-1 and MW-3 and the eastern section of the Site, around MW-6.
5. The source area remains in the vicinity of the UST cavity, pump islands, and eastern section of the mechanic shop at wells MW-1, MW-3, and MW-6. During this monitoring event the highest benzene, toluene, and total xylenes were detected at MW-3 at 232 µg/L, 66.7 µg/L, and 942 µg/L,

respectively. The highest ethylbenzene concentration was detected in MW-6 at 365 µg/L.

6. In general, the GAC and SVE systems have effectively reduced the peak contaminant levels beneath the site. Since initial startup, approximately 240.82 pounds of hydrocarbons and 87.59 pounds of MtBE have been removed from the groundwater. Approximately 967.2 pounds of petroleum hydrocarbons have been removed from the vadose zone.
7. Implementation of MPE events at the site has been effective in reducing the contaminant concentrations at the site. The cumulative total mass of VOCs extracted by MPE during the pilot test followed by four MPE events was 235.55 lbs. Comparison of current benzene concentration with pre-MPE events shows a dramatic reduction in contaminant levels in source area wells such as MW-3 and MW-1.

Based on results of this monitoring event, SOMA recommends:

1. Continuing operation of the pump-and-treat system to maintain the removal rate of contaminant masses in groundwater.
2. Temporarily discontinuing testing for ferrous iron, nitrate, and sulfate parameters. Due to the extent of biodegradation data generated during quarterly monitoring events, SOMA has adequately characterized Site groundwater.
3. We recommend reducing the number of groundwater monitoring wells during the quarterly events. Monitoring the source area wells such as MW-1, MW-3 and MW-6 will be sufficient to evaluate the effectiveness of MPE events and determine if the site is eligible for the regulatory closure. This will allow SOMA to focus the available funds for remediating the site and spend the remaining budget in removing the source.
4. Continued monthly MPE events. MPE events were conducted in March, April, May, and June 2008. A total of approximately 235.55 lbs of volatile organic compounds (VOCs) were removed during the MPE tests conducted on site.

7. REPORT LIMITATIONS

This report is the summary of work done by SOMA including observations and descriptions of site conditions. It includes analytical results produced by state-certified laboratories for the current and previous monitoring events and summaries of data produced by environmental consultants for previous monitoring events. Quantities and locations of wells were selected to provide the required information, but may not be completely representative of entire site conditions. All conclusions and recommendations are based on laboratory

analysis results. Conclusions beyond those specifically stated in this document should not be inferred from this report.

SOMA warrants that the services were provided in accordance with 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

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.	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
	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
	2/27/2007	40.11	9.68	30.43	17,000	1,400	452	989	1,583	1,150
	5/24/2007	40.11	11.58	28.53	8,630	575	121	306	687	235
	8/21/2007	40.11	13.34	26.77	7,480	544	87	356	537	172
	11/15/2007	40.11	12.73	27.38	18,500	413	93.1	523	627	86.6
	2/22/2008	40.11	9.82	30.29	3,450	20.7	3.73	60.2	78.0	8.11
	5/7/2008	**40.11**	**12.09**	**28.02**	**4,470**	**26.1**	**14.80**	**57.6**	**464.6**	**10.60**

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	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
	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

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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.	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
	2/27/2007	40.71	8.78	31.93	3,190	18.30	49.20	396	466	<1.0
	5/23/2007	40.71	11.09	29.62	<50.0	<0.500	<2.00	6.22	4.68	<0.500
	8/21/2007	40.71	13.31	27.40	241	3.12	<2.00	17.6	7.59	<0.500
	11/16/2007	40.71	12.59	28.12	61.1	5.09	<2.00	1.67	<2.00	<0.5
	2/21/2008	40.71	8.56	32.15	<50	<0.5	<2.00	1.41	<2.00	<0.5
	5/7/2008	**40.71**	**11.81**	**28.90**	**1,510**	**3.80**	**5.55**	**135**	**92.18**	**<0.5**
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

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-3 cont.	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
	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

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MW-3 cont.	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
	2/27/2007	40.91	9.43	31.48	5,950	1,100	116	531	500	170
	5/24/2007	40.91	11.63	29.28	8,240	1,360	116	540	696	37
	8/21/2007	40.91	13.75	27.16	13,200	2,240	119	868	983	36.4
	11/16/2007	40.91	13.25	27.66	5,490	2,360	52	523	213.9	43
	2/22/2008	40.91	10.07	30.84	7,840	402	64.5	496	430	<1
	5/7/2008	**40.91**	**12.69**	**28.22**	**8,180**	**232**	**66.7**	**208**	**942**	**5.11**
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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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	<0.5
	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
	2/26/2007	40.34	9.78	30.56	561	38.4	<2.0	41.30	9.67	<0.5
	5/23/2007	40.34	11.36	28.98	351	35.8	<2.0	23.20	4.82	<0.5
	8/20/2007	40.34	13.45	26.89	223	24.7	<2.0	9.15	2.54	<0.5
	11/15/2007	40.34	13.01	27.33	1,740	94.5	<2.0	41	15.52	<0.5
	2/22/2008	40.34	9.68	30.66	122	8.12	<2.0	3.14	<2.0	<0.5
	5/6/2008	**40.34**	**12.17**	**28.17**	**68.9**	**3.12**	**<2.0**	**0.65**	**<2.0**	**<0.5**
MW-5	10/2/1995	99.04	13.57	85.47	1,500	1	1	4	5	NA
	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

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MW-5 cont.	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
	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

Table 1

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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-5 cont.	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	158	0.64	<2.0	<0.5	<2.0	<0.5
	2/26/2007	41.16	8.92	32.24	78.2	<0.5	<2.0	<0.5	<2.0	0.52
	5/23/2007	41.16	11.36	29.80	58.4	<0.5	<2.0	4.36	<2.0	<0.5
	8/20/2007	41.16	13.52	27.64	82.4	0.52	<2.0	4.49	2.3	<0.5
	11/16/2007	41.16	12.74	28.42	<50	3.45	<2.00	<0.5	<2.0	0.58
	2/21/2008	41.16	8.67	32.49	131	<0.5	<2.0	<0.5	<2.0	<0.5
	5/6/2008	**41.16**	**12.06**	**29.10**	**300**	**<0.5**	**<2.0**	**<0.5**	**<2.0**	**0.52**
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
	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

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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-6 cont.	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
	2/27/2007	40.92	9.68	31.24	8,440	249	36.30	697	316.8	<2.15
	5/24/2007	40.92	11.59	29.33	11,400	292	34.8	493	278.5	<2.15
	8/21/2007	40.92	13.88	27.04	9,480	727	87.6	761	590	<2.15
	11/16/2007	40.92	13.29	27.63	5,430	436	29.8	439	147.8	<2.15
	2/22/2008	40.92	9.41	31.51	4,870	100	9.56	331	76.9	<1.0
	5/7/2008	**40.92**	**12.47**	**28.45**	**8,700**	**125**	**10.30**	**365**	**209.3**	**<1.0**

Table 1

Historical Groundwater Elevation Data & Analytical Results

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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-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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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-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
	2/26/2007	39.94	10.41	29.53	1,240	<0.5	<2.0	6.83	<2.0	<0.5
	5/23/2007	39.94	10.16	29.78	265	<0.5	<2.0	5.38	<2.0	<0.5
	8/20/2007	39.94	12.98	26.96	<50.0	0.78	<2.0	4.87	2.36	<0.5
	11/15/2007	39.94	12.45	27.49	135	<0.5	<2.00	0.54	<2.0	<0.5
	2/21/2008	39.94	8.79	31.15	<50	3.18	<2.0	1.69	<2.0	<0.5
	5/6/2008	**39.94**	**11.31**	**28.63**	**<50**	**<0.5**	**<2.0**	**<0.5**	**<2.0**	**<0.5**
MW-8	10/2/1995	97.25	12.86	84.39	NA	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

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MW-8 cont.	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
	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
	2/27/2007	39.38	8.52	30.86	5,690	122	15.10	455	33.62	203
	5/24/2007	39.38	10.79	28.59	3,400	32.60	4.35	177	14.65	69.5
	8/20/2007	39.38	12.71	26.67	1,310	58.60	4.22	106	7.20	26.8
	11/15/2007	39.38	12.13	27.25	10,300	169	11.1	281	12.0	60.4
	2/22/2008	39.38	8.51	30.87	5,130	33.3	4.12	218	5.87	<0.5
	5/6/2008	**39.38**	**11.41**	**27.97**	**3,490**	**20.3**	**2.38**	**90.3**	**0.77**	**21.8**
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

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MW-10 cont.	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
	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

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-10 cont.	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
	2/26/2007	36.71	8.02	28.69	9,470	1,400	29.3	1,260	32.60	263.0
	5/23/2007	36.71	9.54	27.17	860	138	2.45	69.2	4.65	30.9
	8/20/2007	36.71	11.47	25.24	86.6	2.88	<2.00	5.98	2.30	2.68
	11/15/2007	36.71	11.12	25.59	492	104	<2.00	41.2	<2.0	18.7
	2/21/2008	36.71	7.85	28.86	2,040	228	4.44	193	2.68	11
	5/6/2008	**36.71**	**10.19**	**26.52**	**2,510**	**161**	**3.36**	**130**	**<2.0**	**23**
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
	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

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-11 cont.	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
	5/6/2008	**NS**	**NM**	**NC**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
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
	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

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-12 cont.	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
	2/26/2007	36.84	9.04	27.80	5,580	9.81	11	8.52	31.3	14.2
	5/23/2007	36.84	10.37	26.47	350	<0.5	<2.0	4.74	2.32	18.9
	8/20/2007	36.84	12.03	24.81	556	0.68	<2.0	4.81	2.41	20.3
	11/15/2007	36.84	11.84	25.00	678	0.79	<2.0	0.51	<2.0	20.4
	2/21/2008	36.84	8.86	27.98	375	0.59	<2.0	1.06	<2.0	2.52
	5/6/2008	**36.84**	**10.85**	**25.99**	**742**	**<0.5**	**<2.0**	**0.70**	**<2.0**	**8.92**
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

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)
FDC cont.	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
	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
	2/26/2007	39.35	13.01	26.34	NA	NA	NA	NA	NA	NA
	5/23/2007	39.35	14.23	25.12	NA	NA	NA	NA	NA	NA
	8/20/2007	39.35	15.92	23.43	NA	NA	NA	NA	NA	NA
	11/15/2007	39.35	15.98	23.37	NA	NA	NA	NA	NA	NA
	2/21/2008	39.35	10.22	29.13	NA	NA	NA	NA	NA	NA
	5/6/2008	**39.35**	**14.95**	**24.40**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FDE	5/31/2000	97.90	13.22	84.68	NA	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

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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.	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
	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
	2/26/2007	40.06	11.20	28.86	NA	NA	NA	NA	NA	NA
	5/23/2007	40.06	12.72	27.34	NA	NA	NA	NA	NA	NA
	8/20/2007	40.06	13.49	26.57	NA	NA	NA	NA	NA	NA
	11/15/2007	40.06	13.28	26.78	NA	NA	NA	NA	NA	NA
	2/21/2008	40.06	9.86	30.20	NA	NA	NA	NA	NA	NA
	5/6/2008	**40.06**	**12.42**	**27.64**	**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

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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.	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
	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
	2/26/2007	39.16	10.21	28.95	NA	NA	NA	NA	NA	NA
	5/23/2007	39.16	12.44	26.72	NA	NA	NA	NA	NA	NA
	8/20/2007	39.16	15.08	24.08	NA	NA	NA	NA	NA	NA
	11/15/2007	39.16	15.12	24.04	NA	NA	NA	NA	NA	NA
	2/21/2008	39.16	8.93	30.23	NA	NA	NA	NA	NA	NA
	5/6/2008	**39.16**	**12.01**	**27.15**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
EX-1	2/27/2007	40.51	9.05	31.46	15,900	1,400	1,190	725	2,880	185
	5/23/2007	40.51	15.37	25.14	NA	NA	NA	NA	NA	NA
	8/20/2007	40.51	17.42	23.09	NA	NA	NA	NA	NA	NA
	11/15/2007	40.51	13.28	27.23	NA	NA	NA	NA	NA	NA
	2/21/2008	40.51	16.91	23.60	NA	NA	NA	NA	NA	NA
	5/6/2008	**40.51**	**17.38**	**23.13**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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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)

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.
Well EX-1 was installed in the First Quarter 2007 and initially monitored in February 2007.

Table 2

Total Volume of Water Treated, Historical Operational Data, and Laboratory Analytical Results for PSP #1 and GAC-1 Samples

3609 International Boulevard, Oakland, California

Month	Date	Effluent Totalizer Reading (gallons)	Lab Results For PSP #1 [1] and GAC-1 Samples: MtBE [2] (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
2008								
June	**6/9/2008**	**3,927,778**	**<0.5** **<0.5**	**<50** **<50**	**<0.5** **<0.5**	**<2.0** **<2.0**	**<0.5** **<0.5**	**<2.0** **<2.0**
March	3/4/2008	3,839,508	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<2.0 <2.0
2007								
October	10/31/2007	3,673,410	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<2.0 <2.0
July	7/27/2007	3,643,880	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<2.0 <2.0
May	5/17/2007	3,590,070	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<2.0 <2.0
April	4/27/2007	3,561,230	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<2.0 <2.0
	4/20/2007	3,546,800	Startup of groundwater extraction from the new extraction well EX-1. As of this date, groundwater is being extracted from three wells at the site (EX-1, West Riser, and Center Riser).					
March	3/16/2007	3,528,090	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<2.0 <2.0
February	2/22/2007	3,510,560	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<2.0 <2.0
	2/19/2007	3,508,300	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel					
January	1/16/2007	3,488,140	<0.5 1.37	<50 <50	<0.5 1.68	<2.0 <2.0	<0.5 1.25	<2.0 <2.0

Table 2

Total Volume of Water Treated, Historical Operational Data, and Laboratory Analytical Results for PSP #1 and GAC-1 Samples

3609 International Boulevard, Oakland, California

Month	Date	Effluent Totalizer Reading (gallons)	Lab Results For PSP #1 [1] and GAC-1 Samples: MtBE [2] (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
2006								
December	12/22/2006	3,469,890	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
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					
May	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					

Table 2

Total Volume of Water Treated, Historical Operational Data, and Laboratory Analytical Results for PSP #1 and GAC-1 Samples

3609 International Boulevard, Oakland, California

Month	Date	Effluent Totalizer Reading (gallons)	Lab Results For PSP #1 [1] and GAC-1 Samples: MtBE [2] (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
2006								
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
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
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 Laboratory Analytical Results for PSP #1 and GAC-1 Samples

3609 International Boulevard, Oakland, California

Month	Date	Effluent Totalizer Reading (gallons)	Lab Results For PSP #1 [1] and GAC-1 Samples: MtBE [2] (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
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					
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

Table 2

Total Volume of Water Treated, Historical Operational Data, and Laboratory Analytical Results for PSP #1 and GAC-1 Samples

3609 International Boulevard, Oakland, California

Month	Date	Effluent Totalizer Reading (gallons)	Lab Results For PSP #1 [1] and GAC-1 Samples: MtBE [2] (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
2004								
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	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
January	1/27/2004	2,165,220	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	1/13/2004	2,116,720	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
2003								
December	12/8/2003	2,092,330	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
November	11/17/2003	2,087,670	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	11/3/2003	2,079,460	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
October	10/13/2003	2,073,060	5.3	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 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	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			6	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	9/2/2003	2,040,040	<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
August	8/19/2003	2,021,040	<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
July	7/21/2003	1,995,240	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			40	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	7/9/2003	1,990,260	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			36	< 50	< 5.0	< 5.0	< 5.0	< 5.0
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	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
May	5/21/2003	1,951,830	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	5/1/2003	1,918,270	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
April	4/11/2003	1,882,440	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0

Table 2

Total Volume of Water Treated, Historical Operational Data, and Laboratory Analytical Results for PSP #1 and GAC-1 Samples

3609 International Boulevard, Oakland, California

		Effluent	Lab Results For PSP #1 [1] and GAC-1 Samples					
Month	Date	Totalizer Reading (gallons)	MtBE [2] (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
2003								
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
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

Total Volume of Water Treated, Historical Operational Data, and Laboratory Analytical Results for PSP #1 and GAC-1 Samples

3609 International Boulevard, Oakland, California

Month	Date	Effluent Totalizer Reading (gallons)	Lab Results For PSP #1 [1] and GAC-1 Samples: MtBE [2] (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
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	< 50	< 0.5	< 0.5	< 0.5	< 0.5
			1.1	< 50	< 0.5	< 0.5	< 0.5	< 0.5
January	1/22/2002	1,381,370	< 2.0	< 50	< 0.5	< 0.5	< 0.5	< 0.5
			< 2.0	< 50	< 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	ND	ND	ND	ND	ND
			0.6	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
June	6/29/2001	1,224,600	NA	NA	NA	NA	NA	NA
			ND	ND	ND	ND	ND	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
			compressor not working, repaired compressor					
	6/7/2001	1,216,580	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 Laboratory Analytical Results for PSP #1 and GAC-1 Samples

3609 International Boulevard, Oakland, California

		Effluent	Lab Results For PSP #1 [1] and GAC-1 Samples					
Month	Date	Totalizer Reading (gallons)	MtBE [2] (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
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	ND	ND	ND	ND	ND
			NA	NA	NA	NA	NA	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
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

Table 2

Total Volume of Water Treated, Historical Operational Data, and Laboratory Analytical Results for PSP #1 and GAC-1 Samples

3609 International Boulevard, Oakland, California

		Effluent	Lab Results For PSP #1 [1] and GAC-1 Samples					
Month	Date	Totalizer Reading (gallons)	MtBE [2] (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
2000								
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					
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					
			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
			ND	NA	ND	ND	ND	ND
	12/16/1999	30,450	963	NA	ND	ND	ND	ND
			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 The designator "Effluent" used on sampling and laboratory documents refers to samples collected from 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
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by the Vapor Extraction System & Historical Operational Data
3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate	Time Elapsed	Air Flow	Air Flow	Mass Removed [1]
		Influent	Effluent	(ft^3/min)	(Hours)	(Liters)	(ft^3)	(Pounds)
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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		Influent	Effluent	(ft^3/min)	(Hours)	(Liters)	(ft^3)	(Pounds)
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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Date	Time	PID (ppmv)		Flow Rate	Time Elapsed	Air Flow	Air Flow	Mass Removed [1]
		Influent	Effluent	(ft^3/min)	(Hours)	(Liters)	(ft^3)	(Pounds)
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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Date	Time	PID (ppmv)		Flow Rate	Time Elapsed	Air Flow	Air Flow	Mass Removed [1]
		Influent	Effluent	(ft^3/min)	(Hours)	(Liters)	(ft^3)	(Pounds)
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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		Influent	Effluent	(ft^3/min)	(Hours)	(Liters)	(ft^3)	(Pounds)
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

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		Influent	Effluent	(ft^3/min)	(Hours)	(Liters)	(ft^3)	(Pounds)
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	Time Elapsed	Air Flow	Air Flow	Mass Removed [1]
		Influent	Effluent	(ft^3/min)	(Hours)	(Liters)	(ft^3)	(Pounds)
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	Time Elapsed	Air Flow	Air Flow	Mass Removed [1]
		Influent	Effluent	(ft^3/min)	(Hours)	(Liters)	(ft^3)	(Pounds)
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						
2007								
5/23/2007		System Re-started						
5/23/2007	10:45 AM	31.3	0	85	1	144,330	5,100	0.04
5/29/2007	11:00 AM	11.2	1.7	80	144.25	19,594,920	692,400	2.00
6/11/2007	12:00 PM	8.1	1.1	80	313	42,517,920	1,502,400	3.14
6/20/2007	3:00 PM	1.4	0.5	75	219	27,889,650	985,500	0.36
7/3/2007	12:00 PM	1.5	0.4	75	1	127,350	4,500	0.00
7/12/2007	12:00 PM	8	0.3	80	144.25	19,594,920	692,400	1.43
7/27/2007	9:30 AM	8.5	0.4	85	313	45,175,290	1,596,300	3.50
8/7/2007	3:30 PM	14	0.9	105	219	39,045,510	1,379,700	4.98
8/21/2007	2:00 PM	16.5	0	110	1	186,780	6,600	0.03
9/7/2007	12:30 PM	12.2	0.1	105	144.25	25,718,333	908,775	2.86
9/21/2007	10:00 AM	1.9	0.3	84	313	44,643,816	1,577,520	0.77
9/28/2007	11:00 AM	1.9	0.3	85	219	31,608,270	1,116,900	0.55
					Total Mass of Petroleum Hydrocarbons Removed =			**967.20**
					***Average Daily Removal Rate (pounds / day)*=**			**0.37**

Notes:

[1] The representative molecular weight of hydrocarbons was assumed to be 150 gram/mole and use
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 concentration

[6] system down, hoses disconnected and GAC moved for replacemer

[7] system down for electrical repai

[8] Carbon change-out of three drums, moved new effluent drum on 10/25/01 to GAC-

[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 blow

[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 (ft^3/min)* 60 min * Time Elapsed (hrs)* 28.3 liters/ft^3

Mass Removed: Time Elapsed (hrs) * 60 min* Flowrate (ft^3/min)* (28.3 m^3/ft^3)*
(((PID reading * (102 grams TPH-g /mole)* (1 mole / 24.4 L))*(1/1000 m^3)) * (1 lb/454 grams)

Table 4

March 2008 MPE Event
Operational Data

3609 International Boulevard
Oakland, California

DATE	TIME	PID (ppmv)	WELL MANIFOLD VACUUM (In of Hg)	OXIDIZER TEMPERATURE (^{0}F)	WELL FIELD VAPOR FLOW RATE (scfm)	TOTAL SYSTEM VAPOR FLOW RATE (scfm)	DILUTION AIR FLOW RATE (scfm)	SYSTEM (BLOWER) VACUUM (In of Hg)	SYSTEM TOTALIZER READING (gallons)	COMMENTS
3/24/2008	945									begin at MW-1 and MW-3; sampled MW-1 and MW-3
	1045	1,909	26.4	1,712	30	30	0	27.5	250	
	1130	1,434	26.3	1,674	31	31	0	27.4	487	
	1230	1,456	26.2	1,667	33	33	0	27.3	670	
	1330	1,200	26.2	1,646	33	33	0	27.3	903	
	1430	961	26.1	1,642	33	33	0	27.3	1,130	
	1530	833	25.9	1,634	36	36	0	27.1	1,347	
	1630	735	25.8	1,628	36	36	0	27.1	1,561	
	1730	681	25.7	1,622	38	38	0	27	1,771	
3/25/2008	800	420	25.1	1,569	44	44	0	26.6	4,257	In = 420; Eff = 1
	900	406	25.1	1,572	46	46	0	26.5	4,406	
	1000	406	25	1,572	47	47	0	26.4	4,530	
	1100	384	25.1	1,563	47	47	0	26.4	4,669	
	1200	373	25.1	1,561	47	47	0	26.4	4,823	
	1400	380	25	1,555	47	47	0	26.4	5,127	
	1600	376	24.8	1,549	47	47	0	26.4	5,429	
	1630	388	24.7	1,549	49	49	0	26.3	5,479	
	1730	400	24.7	1,550	49	49	0	26.3	5,580	system down @ 0700 due to generator failure; engineer
3/26/2008	700	400	24.7	1,550	49	49	0	26.3	7,382	called to repair
	1600									generator repaired; restart
	1700	633	24.8	1,500	54	54	0	26	7,382	
3/27/2008	800	286	24.2	1,493	57	57	0	25.8	9,425	

Table 4

March 2008 MPE Event
Operational Data

3609 International Boulevard
Oakland, California

DATE	TIME	PID (ppmv)	WELL MANIFOLD VACUUM (In of Hg)	OXIDIZER TEMPERATURE (^{0}F)	WELL FIELD VAPOR FLOW RATE (scfm)	TOTAL SYSTEM VAPOR FLOW RATE (scfm)	DILUTION AIR FLOW RATE (scfm)	SYSTEM (BLOWER) VACUUM (In of Hg)	SYSTEM TOTALIZER READING (gallons)	COMMENTS
	900	296	24	1,504	62	62	0	25.5	9,551	
	1000	296	23.9	1,500	62	62	0	25.5	9,646	
	1430	230	24	1,494	60	60	0	25.6	10,195	
	1530	345	24	1,480	60	60	0	25.6	10,283	
	1630	325	23.8	1,509	63	63	0	25.4	10,436	
3/28/2008	900	282	23.4	1,483	65	65	0	25.3	12,509	
	1000	292	23.3	1,492	68	68	0	25.1	12,601	
	1300	215	23.4	1,481	66	66	0	25.2	12,960	
										end at MW-1 and MW-3; sampled MW-1 and MW-3

Totalizer readings = 12,960 gallons
Total time of test = 5,415 minutes = 90.25 hours

Notes

ppmv	parts per million vapor
In of Hg	inches of mercury
In of H_20	inches of water
^{0}F	degrees Fahrenheit
scfm	standard cubic feet per minute

Table 4

April 2008 MPE Event
Operational Data

3609 International Boulevard
Oakland, California

DATE	TIME	PID (ppmv)	WELL MANIFOLD VACUUM (In of Hg)	OXIDIZER TEMPERATURE (^{0}F)	WELL FIELD VAPOR FLOW RATE (scfm)	TOTAL SYSTEM VAPOR FLOW RATE (scfm)	DILUTION AIR FLOW RATE (scfm)	SYSTEM (BLOWER) VACUUM (In of Hg)	SYSTEM TOTALIZER READING (gallons)	COMMENTS
4/14/2008	1000									begin at MW-1 and MW-3; sampled MW-1 and MW-3
	1100	1,981	21.7	1,550	55	55	0	25.9	0	
	1530									system was shutdown due to concern over the LRP
	1600	1,981	21.7	1,554	55	55	0	25.9	111	overheating; engineer made adjustments; MTS down from
	1630	1,987	21	1,595	57	57	0	25.8	183	1100 - 1530
	1700	1,783	22.3	1,599	60	60	0	25.6	255	
	1730	1,616	21.9	1,595	66	66	0	25.2	325	
4/15/2008	700	650	23.6	1,513	66	66	0	25.2	1,740	In = 650; Eff = 1
	800	681	23.6	1,517	63	63	0	25.4	1,843	
	900	651	23.6	1,503	66	66	0	25.2	1,946	
	1000	650	23.4	1,504	66	66	0	25.2	2,059	
	1100	645	23.6	1,508	66	66	0	25.2	2,152	
	1200	636	23.4	1,511	66	66	0	25.2	2,220	
	1300	635	23.6	1,510	65	65	0	25.3	2,320	
	1400	579	23.4	1,512	66	66	0	25.2	2,425	
	1500	583	23.5	1,511	66	66	0	25.2	2,528	
	1600	562	23.6	1,506	66	66	0	25.2	2,630	
	1700	563	23.5	1,506	66	66	0	25.2	2,730	
4/16/2008	700	430	23.4	1,471	66	66	0	25.2	4,022	
	800									system shutdown @ 0700 to clean Y strainer on LRP
	830	540	23.4	1,474	70	70	0	25	4,119	overheating issue resolved; restart MTS @ 0800
	900	562	23.3	1,495	66	66	0	25.2	4,170	

Table 4

April 2008 MPE Event
Operational Data

3609 International Boulevard
Oakland, California

DATE	TIME	PID (ppmv)	WELL MANIFOLD VACUUM (In of Hg)	OXIDIZER TEMPERATURE (^{0}F)	WELL FIELD VAPOR FLOW RATE (scfm)	TOTAL SYSTEM VAPOR FLOW RATE (scfm)	DILUTION AIR FLOW RATE (scfm)	SYSTEM (BLOWER) VACUUM (In of Hg)	SYSTEM TOTALIZER READING (gallons)	COMMENTS
	1000	569	23	1,504	70	70	0	25	4,282	LRP shutting down due to low oil leve
	1030									
	1100	560	23.6	1,506	60	60	0	25.6	4,353	added oil to LRP reservoir; MTS down from 1000 - 1030
	1200	548	23.4	1,508	65	65	0	25.3	4,422	
	1300	554	23.2	1,508	70	70	0	25	4,526	
	1400	514	23.2	1,503	68	68	0	25.1	4,663	
	1500	401	23.3	1,504	70	70	0	25	4,732	
	1600	382	23.2	1,502	70	70	0	25	4,834	
	1700	342	23.2	1,500	70	70	0	25	4,937	
4/17/2008	800	420	23	1,473	70	70	0	25	6,294	
	900	426	23.1	1,478	70	70	0	25	6,395	
	1000	416	23.1	1,483	70	70	0	25	6,497	
	1100	420	23.1	1,482	70	70	0	25	6,566	
	1200	413	23.1	1,483	70	70	0	25	6,666	
	1300	398	23	1,484	70	70	0	25	6,734	
	1400	378	23.1	1,487	70	70	0	25	6,835	
	1500	378	23	1,492	70	70	0	25	6,937	
	1600	366	23	1,489	70	70	0	25	7,004	
	1700	372	23	1,489	70	70	0	25	7,106	
4/18/2008	900	313	23	1,464	70	70	0	25	8,463	
	1000	320	23	1,460	70	70	0	25	8,521	
	1100	328	23	1,461	70	70	0	25	8,621	
	1200	334	22.9	1,459	73	73	0	24.8	8,688	
	1300	322	23	1,451	70	70	0	25	8,758	
	1400	304	22.8	1,463	73	73	0	24.8	8,856	
	1430	300	22.8	1,472	73	73	0	24.8	8,890	end at MW-1 and MW-3; sampled MW-1 and MW-3

Totalizer readings = 8,890 gallons

Total time of test = 5,670 minutes = 94.5 hours

Notes

ppmv	parts per million vapor
In of Hg	inches of mercury
In of H_20	inches of water
^{0}F	degrees Fahrenheit
scfm	standard cubic feet per minute

Table 4

May 2008 MPE Event
Operational Data

3609 International Boulevard
Oakland, California

DATE	TIME	PID (ppmv)	WELL MANIFOLD VACUUM (In of Hg)	OXIDIZER TEMPERATURE (^{0}F)	WELL FIELD VAPOR FLOW RATE (scfm)	TOTAL SYSTEM VAPOR FLOW RATE (scfm)	DILUTION AIR FLOW RATE (scfm)	SYSTEM (BLOWER) VACUUM (In of Hg)	SYSTEM TOTALIZER READING (gallons)	COMMENTS
5/12/2008	930								0	begin at MW-1 and MW-3; sampled MW-1 and MW-3
	1000	2,750	23.8	1,570	63	63	0	25.4	55	
	1100	1,810	23.1	1,578	70	70	0	25	186	
	1200	1,501	23	1,551	71	71	0	24.9	314	
	1300	1,305	22.9	1,546	71	71	0	24.9	426	
	1337									System shut down due to low propane
	1530									Propane delivered
	1600									System restarted
	1610	1,301	23.7	1,454	65	65	0	25.3	521	
	1700	1,128	23	1,529	70	70	0	25	626	
5/13/2008	730	653	22.5	1,475	74	74	0	24.7	2,190	In = 653; Eff = 4
	830	657	22.1	1,485	79	79	0	24.4	2,291	
	930	797	26.1	1,550	38	38	0	27	2,377	
	1030	748	26.2	1,630	31	31	0	27.4	2,457	pumping from MW-3 only; treatment system overwhelmed & holding tank overflowing. Treatment system modified to allow more flow
	1300	761	26	1,642	38	38	0	27	2,640	
	1400	660	22.8	1,545	70	70	0	25	2,693	
	1500	620	22.4	1,508	73	73	0	24.8	2,812	
	1600	600	22.4	1,501	74	74	0	24.7	2,930	
5/14/2008	800	526	22.2	1,459	76	76	0	24.6	4,420	
	900	511	22	1,463	79	79		24.4	4,497	
	1000	480	22	1,463	77	77	0	24.5	4,619	
	1100	465	22	1,461	77	77	0	24.5	4,706	

Table 4

May 2008 MPE Event
Operational Data

3609 International Boulevard
Oakland, California

DATE	TIME	PID (ppmv)	WELL MANIFOLD VACUUM (In of Hg)	OXIDIZER TEMPERATURE (^{0}F)	WELL FIELD VAPOR FLOW RATE (scfm)	TOTAL SYSTEM VAPOR FLOW RATE (scfm)	DILUTION AIR FLOW RATE (scfm)	SYSTEM (BLOWER) VACUUM (In of Hg)	SYSTEM TOTALIZER READING (gallons)	COMMENTS
	1200	463	22	1,462	79	79	0	24.4	4,780	
	1300	449	22	1,453	77	77	0	24.5	4,854	
	1400	448	22	1,474	79	79	0	24.4	4,950	
	1500	443	21.9	1,473	79	79	0	24.4	5,031	
	1600	437	21.9	1,474	79	79	0	24.4	5,117	
	1700	436	21.8	1,471	82	82	0	24.2	5,208	
5/15/2008	830	403	21.6	1,455	82	82	0	24.2	6,536	In = 403; Eff = 2
	930	389	21.6	1,462	82	82	0	24.2	6,627	
	1130	378	21.6	1,467	85	85	0	24	6,807	
	1230	360	21.6	1,470	85	85	0	24	6,897	
	1330	333	21.6	1,457	82	82	0	24.2	6,968	
	1430	366	21.6	1,459	82	82	0	24.2	7,032	
	1530	412	21.6	1,461	85	85	0	24	7,112	
	1600	420	21.6	1,468	85	85	0	24	7,144	
5/16/2008	830	432	22	1,486	79	79	0	24.4	7,307	System down overnight after operator left. Morning inspection showed generator overheated, +100F during day until late afternoon. Restarted at 8 A.M.
	900	428	22.1	1,472	79	79	0	24.4	7,343	
	1000	404	22.2	1,472	82	82	0	24.2	7,448	
	1100	404	22	1,475	82	82	0	24.2	7,549	
	1200	388	22	1,483	82	82	0	24.2	7,648	
	1300	359	22	1,477	82	82	0	24.2	7,744	end at MW-1 and MW-3; sampled MW-1 and MW-3

Totalizer readings = 7,744 gallons

Total time of test = 4,837 minutes = 80.62 hours

Notes

ppmv	parts per million vapor
In of Hg	inches of mercury
In of H_20	inches of water
^{0}F	degrees Fahrenheit
scfm	standard cubic feet per minute

Table 4

June 2008 MPE Event
Operational Data

3609 International Boulevard
Oakland, California

DATE	TIME	PID (ppmv)	WELL MANIFOLD VACUUM (In of Hg)	OXIDIZER TEMPERATURE (^{0}F)	WELL FIELD VAPOR FLOW RATE (scfm)	TOTAL SYSTEM VAPOR FLOW RATE (scfm)	DILUTION AIR FLOW RATE (scfm)	SYSTEM (BLOWER) VACUUM (In of Hg)	SYSTEM TOTALIZER READING (gallons)	COMMENTS
6/9/2008	1030								0	begin at MW-1 and MW-3; sampled MW-1 and MW-3
	1130	1,722	23	1,568	73	73	0	24.8	102	
	1230	1,380	22.7	1,560	74	74	0	24.7	230	
	1330	1,118	22.4	1,538	77	77	0	24.5	353	
	1430	997	22.3	1,521	81	81	0	24.3	444	
	1530	910	22.2	1,511	81	81	0	24.3	529	
	1630	825	22.2	1,499	82	82	0	24.2	654	
	1730	815	22.2	1,496	82	82	0	24.2	736	
6/10/2008	730	560	20.8	1,473	85	85	0	24	-	In = 560; Eff = 3; Isolate MW-3 for initial vapor sample
	830	590	22.4	1,574	44	44	0	26.6	-	Isolate MW-1 for initial vapor sample
	930	580	20	1,578	54	54	0	26	2,020	
	1030	641	21.2	1,482	82	82	0	24.2	2,106	
	1130	595	20.8	1,481	84	84	0	24.1	2,238	
	1230	570	21.8	1,473	84	84	0	24.1	2,280	
	1330	533	21.9	1,474	85	85	0	24	2,386	
	1430	548	21.8	1,474	85	85	0	24	2,445	
	1530	547	20.9	1,475	87	87	0	23.9	2,527	
	1630	530	21.6	1,471	87	87	0	23.9	2,610	
	1700	525	21.5	1,475	89	89	0	23.8	2,633	
6/11/2008	800	468	22	1,493	90	90	0	23.7	3,764	
	900	478	21.4	1,467	92	92	0	23.6	3,840	
	1000	457	21.3	1,478	92	92	0	23.6	3,881	

Table 4

June 2008 MPE Event
Operational Data

3609 International Boulevard
Oakland, California

DATE	TIME	PID (ppmv)	WELL MANIFOLD VACUUM (In of Hg)	OXIDIZER TEMPERATURE (^{0}F)	WELL FIELD VAPOR FLOW RATE (scfm)	TOTAL SYSTEM VAPOR FLOW RATE (scfm)	DILUTION AIR FLOW RATE (scfm)	SYSTEM (BLOWER) VACUUM (In of Hg)	SYSTEM TOTALIZER READING (gallons)	COMMENTS
	1030	460	21.4	1,485	92	92	0	23.6	3,920	
	1100	462	21.3	1,472	92	92	0	23.6	3,960	
	1200	452	21.3	1,496	90	90	0	23.7	4,046	
	1300	510	21.5	1,481	85	85	0	24	4,115	
	1400	462	21.5	1,467	87	87	0	23.9	4,193	
	1500	451	21.4	1,475	87	87	0	23.9	4,265	
	1600	436	21.4	1,489	89	89	0	23.8	4,340	
	1630	438	21.4	1,473	89	89	0	23.8	4,378	
6/12/2008	800	407	21.1	1,499	90	90	0	23.7	5,460	
	900	393	21.2	1,494	90	90	0	23.7	5,533	
	1000	376	21.2	1,496	92	92	0	23.6	5,608	
	1100	375	21	1,472	92	92	0	23.6	-	
	1200	388	21	1,478	89	89	0	23.8	-	
	1300	360	21	1,468	89	89	0	23.8	-	Isolate MW-3 for final vapor sample
	1400	356	25.2	1,585	47	47	0	26.4	-	Isolate MW-1 for final vapor sample
	1500	356	25	1,574	50	50	0	26.2	-	
	1600	397	21.4	1,489	85	85	0	24	-	
	1700	365	21.4	1,475	85	85	0	24	-	
6/13/2008	700									quick site drive-by, system running
	1130									system shut down after arrival, immediate restart - low
	1230	389	21.3	1,469	87	87	0	23.9	7,358	vacuum pump oil sensor triggered by operator
	1330	379	21.2	1,494	89	89	0	23.8	7,433	
	1430	351	21.2	1,472	89	89	0	23.8	7,510	
	1500	360	21.2	1,466	89	89	0	23.8	7,560	end at MW-1 and MW-3; sampled MW-1 and MW-3

Totalizer readings = 7,560 gallons

Total time of test = 6,030 minutes = 100.5 hours

Notes

ppmv	parts per million vapor
In of Hg	inches of mercury
In of H_20	inches of water
^{0}F	degrees Fahrenheit
scfm	standard cubic feet per minute

Table 5

March 2008 MPE Event
Extraction Data and VOC Mass Removal Rate

3609 International Boulevard
Oakland, California

WELL	COMMENT	DATE	CLOCK TIME	INCREMENTAL TIME	ELAPSED TIME	Q			PID		MASS REMOVAL		
				minutes	minutes	SCFM	ft^3 of extracted air	Moles of extracted air	ppmv as hexane	VOC mole %	lb VOC mass removal as hexane	lbs/min	lbs/day
MW-1/3	**START**	**3/24/2008**	945	0									
			1045	60	60	30	1,790	4.7224	1,909	0.0019	0.7771	0.0130	19
			1130	45	105	31	1,414	3.7302	1,434	0.0014	0.4611	0.0102	15
			1230	60	165	33	1,980	5.2248	1,456	0.0015	0.6558	0.0109	16
			1330	60	225	33	1,980	5.2248	1,200	0.0012	0.5405	0.0090	13
			1430	60	285	33	1,980	5.2248	961	0.0010	0.4328	0.0072	10
			1530	60	345	36	2,171	5.7273	833	0.0008	0.4112	0.0069	10
			1630	60	405	36	2,171	5.7273	735	0.0007	0.3629	0.0060	9
			1730	60	465	38	2,266	5.9785	681	0.0007	0.3509	0.0058	8
		3/25/2008	800	870	1,335	44	38,377	101.2579	420	0.0004	3.6659	0.0042	6
			900	60	1,395	46	2,742	7.2345	406	0.0004	0.2532	0.0042	6
			1000	60	1,455	47	2,837	7.4857	406	0.0004	0.2620	0.0044	6
			1100	60	1,515	47	2,837	7.4857	384	0.0004	0.2478	0.0041	6
			1200	60	1,575	47	2,837	7.4857	373	0.0004	0.2407	0.0040	6
			1400	120	1,695	47	5,674	14.9714	380	0.0004	0.4904	0.0041	6
			1600	120	1,815	47	5,674	14.9714	376	0.0004	0.4852	0.0040	6
			1630	30	1,845	49	1,466	3.8685	388	0.0004	0.1294	0.0043	6
			1730	60	1,905	49	2,932	7.7369	400	0.0004	0.2668	0.0044	6
		3/26/2008	700	810	2,715	49	39,586	104.4485	400	0.0004	3.6014	0.0044	6
	pause		1600	0	2,715								
			1700	60	2,775	54	3,218	8.4906	633	0.0006	0.4633	0.0077	11
		3/27/2008	800	900	3,675	57	51,125	134.8946	286	0.0003	3.3256	0.0037	5
			900	60	3,735	62	3,694	9.7466	296	0.0003	0.2487	0.0041	6
			1000	60	3,795	62	3,694	9.7466	296	0.0003	0.2487	0.0041	6
			1430	270	4,065	60	16,194	42.7292	230	0.0002	0.8472	0.0031	5
			1530	60	4,125	60	3,599	9.4954	345	0.0003	0.2824	0.0047	7
			1630	60	4,185	63	3,789	9.9978	325	0.0003	0.2801	0.0047	7
		3/28/2008	900	990	5,175	65	64,092	169.1087	282	0.0003	4.1108	0.0042	6
			1000	60	5,235	68	4,075	10.7514	292	0.0003	0.2706	0.0045	6
	STOP		1300	180	5,415	66	11,939	31.5007	215	0.0002	0.5838	0.0032	5
	TOTAL				**5,415**		**286,133**	**755**			**24.30**	**0.0045**	**6.46**
	MEDIAN					**47**			**394**	**0.0004**			

Notes

Q	volumetric flow rate
SCFM	standard cubic feet per minute
ft^3	cubic feet per minute
VOC	volatile organic compounds
PID	photo-ionization detector
ppmv	parts per million vapor

DERIVATION OF MASS REMOVAL RATE

ppmv as hexane/1,000,000 = VOC mole %
ft3 of extracted air/(379 ft3 air/lb-mole air) = moles of extracted air
(moles of extracted air)(VOC mole %)(86.2 lb/lb-mole hexane) = lbs of VOC removed as hexane
(lbs of VOC mass removed as hexane)(elapsed time) = lbs/min of VOC removed as hexane
(lbs/min of VOC removed as hexane)(60 min/1 hour)(24 hours/1 day) = lbs/day of VOC removed as hexane

Table 5

April 2008 MPE Event
Extraction Data and VOC Mass Removal Rate

3609 International Boulevard
Oakland, California

WELL	COMMENT	DATE	CLOCK TIME	INCREMENTAL TIME	ELAPSED TIME	Q			PID		MASS REMOVAL		
				minutes	minutes	SCFM	ft^3 of extracted air	Moles of extracted air	ppmv as hexane	VOC mole %	lb VOC mass removal as hexane	lbs/min	lbs/day
MW-1/3	START	**4/14/2008**	1000	0									
			1100	60	60	55	3,313	8.7418	1,981	0.0020	1.4928	0.0249	36
	pause		1530	0	60								
			1600	30	90	55	1,657	4.3709	1,981	0.0020	0.7464	0.0249	36
			1630	30	120	57	1,704	4.4965	1,987	0.0020	0.7702	0.0257	37
			1700	30	150	60	1,799	4.7477	1,783	0.0018	0.7297	0.0243	35
			1730	30	180	66	1,990	5.2501	1,616	0.0016	0.7313	0.0244	35
		4/15/2008	700	810	990	66	53,724	141.7530	650	0.0007	7.9424	0.0098	14
			800	60	1,050	63	3,789	9.9978	681	0.0007	0.5869	0.0098	14
			900	60	1,110	66	3,980	10.5002	651	0.0007	0.5892	0.0098	14
			1000	60	1,170	66	3,980	10.5002	650	0.0007	0.5883	0.0098	14
			1100	60	1,230	66	3,980	10.5002	645	0.0006	0.5838	0.0097	14
			1200	60	1,290	66	3,980	10.5002	636	0.0006	0.5757	0.0096	14
			1300	60	1,350	65	3,884	10.2490	635	0.0006	0.5610	0.0094	13
			1400	60	1,410	66	3,980	10.5002	579	0.0006	0.5241	0.0087	13
			1500	60	1,470	66	3,980	10.5002	583	0.0006	0.5277	0.0088	13
			1600	60	1,530	66	3,980	10.5002	562	0.0006	0.5087	0.0085	12
			1700	60	1,590	66	3,980	10.5002	563	0.0006	0.5096	0.0085	12
		4/16/2008	700	840	2,430	66	55,714	147.0031	430	0.0004	5.4488	0.0065	9
	pause		800	0	2,430								
			830	30	2,460	70	2,085	5.5013	540	0.0005	0.2561	0.0085	12
			900	30	2,490	66	1,990	5.2501	562	0.0006	0.2543	0.0085	12
			1000	60	2,550	70	4,170	11.0026	569	0.0006	0.5397	0.0090	13
	pause		1030	0	2,550								
			1100	30	2,580	60	1,799	4.7477	560	0.0006	0.2292	0.0076	11
			1200	60	2,640	65	3,884	10.2490	548	0.0005	0.4841	0.0081	12
			1300	60	2,700	70	4,170	11.0026	554	0.0006	0.5254	0.0088	13
			1400	60	2,760	68	4,075	10.7514	514	0.0005	0.4764	0.0079	11
			1500	60	2,820	70	4,170	11.0026	401	0.0004	0.3803	0.0063	9
			1600	60	2,880	70	4,170	11.0026	382	0.0004	0.3623	0.0060	9
			1700	60	2,940	70	4,170	11.0026	342	0.0003	0.3244	0.0054	8
		4/17/2008	800	900	3,840	70	62,550	165.0396	420	0.0004	5.9751	0.0066	10
			900	60	3,900	70	4,170	11.0026	426	0.0004	0.4040	0.0067	10
			1000	60	3,960	70	4,170	11.0026	416	0.0004	0.3945	0.0066	9
			1100	60	4,020	70	4,170	11.0026	420	0.0004	0.3983	0.0066	10
			1200	60	4,080	70	4,170	11.0026	413	0.0004	0.3917	0.0065	9
			1300	60	4,140	70	4,170	11.0026	398	0.0004	0.3775	0.0063	9
			1400	60	4,200	70	4,170	11.0026	378	0.0004	0.3585	0.0060	9
			1500	60	4,260	70	4,170	11.0026	378	0.0004	0.3585	0.0060	9
			1600	60	4,320	70	4,170	11.0026	366	0.0004	0.3471	0.0058	8
			1700	60	4,380	70	4,170	11.0026	372	0.0004	0.3528	0.0059	8
		4/18/2008	900	960	5,340	70	66,720	176.0422	313	0.0003	4.7497	0.0049	7
			1000	60	5,400	70	4,170	11.0026	320	0.0003	0.3035	0.0051	7
			1100	60	5,460	70	4,170	11.0026	328	0.0003	0.3111	0.0052	7
			1200	60	5,520	73	4,360	11.5051	334	0.0003	0.3312	0.0055	8
			1300	60	5,580	70	4,170	11.0026	322	0.0003	0.3054	0.0051	7
			1400	60	5,640	73	4,360	11.5051	304	0.0003	0.3015	0.0050	7
	STOP		1430	30	5,670	73	2,180	5.7525	300	0.0003	0.1488	0.0050	7
	TOTAL				**5,670**		**384,306**	**1014**			**43.06**	**0.0076**	**10.94**
	MEDIAN					**70**			**527**	**0.0005**			

Notes

Q	volumetric flow rate
SCFM	standard cubic feet per minute
ft^3	cubic feet per minute
VOC	volatile organic compounds
PID	photo-ionization detector
ppmv	parts per million vapor

DERIVATION OF MASS REMOVAL RATE

ppmv as hexane/1,000,000 = VOC mole %
ft3 of extracted air/(379 ft3 air/lb-mole air) = moles of extracted air
(moles of extracted air)(VOC mole %)(86.2 lb/lb-mole hexane) = lbs of VOC removed as hexane
(lbs of VOC mass removed as hexane)(elapsed time) = lbs/min of VOC removed as hexane
(lbs/min of VOC removed as hexane)(60 min/1 hour)(24 hours/1 day) = lbs/day of VOC removed as hexane

Table 5

May 2008 MPE Event
Extraction Data and VOC Mass Removal Rate

3609 International Boulevard
Oakland, California

WELL	COMMENT	DATE	CLOCK TIME	INCREMENTAL TIME	ELAPSED TIME	Q			PID		MASS REMOVAL		
				minutes	minutes	SCFM	ft^3 of extracted air	Moles of extracted air	ppmv as hexane	VOC mole %	lb VOC mass removal as hexane	lbs/min	lbs/day
MW-1/3	**START**	**5/12/2008**	930	0									
			1000	30	30	63	1,890	4.9868	2,750	0.0028	1.1821	0.0394	57
			1100	60	90	70	4,200	11.0818	1,810	0.0018	1.7290	0.0288	41
			1200	60	150	71	4,260	11.2401	1,501	0.0015	1.4543	0.0242	35
			1300	60	210	71	4,260	11.2401	1,305	0.0013	1.2644	0.0211	30
	pause		1337	7	217								
			1610	10	227	65	647	1.7082	1,301	0.0013	0.1916	0.0192	28
			1700	50	277	70	3,475	9.1689	1,128	0.0011	0.8915	0.0178	26
		5/13/2008	730	870	1,147	74	64,607	170.4658	653	0.0007	9.5953	0.0110	16
			830	60	1,207	79	4,741	12.5099	657	0.0007	0.7085	0.0118	17
			930	60	1,267	38	2,266	5.9785	797	0.0008	0.4107	0.0068	10
			1030	60	1,327	31	1,885	4.9736	748	0.0007	0.3207	0.0053	8
			1300	150	1,477	38	5,665	14.9462	761	0.0008	0.9804	0.0065	9
			1400	60	1,537	70	4,170	11.0026	660	0.0007	0.6260	0.0104	15
			1500	60	1,597	73	4,360	11.5051	620	0.0006	0.6149	0.0102	15
			1600	60	1,657	74	4,456	11.7563	600	0.0006	0.6080	0.0101	15
		5/14/2008	800	960	2,617	76	72,813	192.1196	526	0.0005	8.7109	0.0091	13
			900	60	2,677	79	4,741	12.5099	511	0.0005	0.5510	0.0092	13
			1000	60	2,737	77	4,646	12.2587	480	0.0005	0.5072	0.0085	12
			1100	60	2,797	77	4,646	12.2587	465	0.0005	0.4914	0.0082	12
			1200	60	2,857	79	4,741	12.5099	463	0.0005	0.4993	0.0083	12
			1300	60	2,917	77	4,646	12.2587	449	0.0004	0.4745	0.0079	11
			1400	60	2,977	79	4,741	12.5099	448	0.0004	0.4831	0.0081	12
			1500	60	3,037	79	4,741	12.5099	443	0.0004	0.4777	0.0080	11
			1600	60	3,097	79	4,741	12.5099	437	0.0004	0.4712	0.0079	11
			1700	60	3,157	82	4,932	13.0123	436	0.0004	0.4890	0.0082	12
		5/15/2008	830	930	4,087	82	76,441	201.6907	403	0.0004	7.0065	0.0075	11
			930	60	4,147	82	4,932	13.0123	389	0.0004	0.4363	0.0073	10
			1130	120	4,267	85	10,244	27.0294	378	0.0004	0.8807	0.0073	11
			1230	60	4,327	85	5,122	13.5147	360	0.0004	0.4194	0.0070	10
			1330	60	4,387	82	4,932	13.0123	333	0.0003	0.3735	0.0062	9
			1430	60	4,447	82	4,932	13.0123	366	0.0004	0.4105	0.0068	10
			1530	60	4,507	85	5,122	13.5147	412	0.0004	0.4800	0.0080	12
			1600	30	4,537	85	2,561	6.7574	420	0.0004	0.2446	0.0082	12
	pause	**5/16/2008**	830	30	4,567	79	2,371	6.2549	432	0.0004	0.2329	0.0078	11
			900	30	4,597	79	2,371	6.2549	428	0.0004	0.2308	0.0077	11
			1000	60	4,657	82	4,932	13.0123	404	0.0004	0.4532	0.0076	11
			1100	60	4,717	82	4,932	13.0123	404	0.0004	0.4532	0.0076	11
			1200	60	4,777	82	4,932	13.0123	388	0.0004	0.4352	0.0073	10
	STOP		1300	60	4,837	82	4,932	13.0123	359	0.0004	0.4027	0.0067	10
	TOTAL				**4,837**		**365,024**	**963**			**46.19**	**0.0095**	**13.75**
	MEDIAN					**79**			**456**	**0.0005**			

Notes

Q	volumetric flow rate
SCFM	standard cubic feet per minute
ft^3	cubic feet per minute
VOC	volatile organic compounds
PID	photo-ionization detector
ppmv	parts per million vapor

DERIVATION OF MASS REMOVAL RATE

ppmv as hexane/1,000,000 = VOC mole %
ft3 of extracted air/(379 ft3 air/lb-mole air) = moles of extracted air
(moles of extracted air)(VOC mole %)(86.2 lb/lb-mole hexane) = lbs of VOC removed as hexane
(lbs of VOC mass removed as hexane)(elapsed time) = lbs/min of VOC removed as hexane
(lbs/min of VOC removed as hexane)(60 min/1 hour)(24 hours/1 day) = lbs/day of VOC removed as hexane

Table 5

June 2008 MPE Event
Extraction Data and VOC Mass Removal Rate

3609 International Boulevard
Oakland, California

WELL	COMMENT	DATE	CLOCK TIME	INCREMENTAL TIME	ELAPSED TIME	Q			PID		MASS REMOVAL		
				minutes	minutes	SCFM	ft^3 of extracted air	Moles of extracted air	ppmv as hexane	VOC mole %	lb VOC mass removal as hexane	lbs/min	lbs/day
MW-1/3	START	**6/9/2008**	1030	0									
			1130	60	60	73	4,360	11.5051	1,722	0.0017	1.7078	0.0285	41
			1230	60	120	74	4,456	11.7563	1,380	0.0014	1.3985	0.0233	34
			1330	60	180	77	4,646	12.2587	1,118	0.0011	1.1814	0.0197	28
			1430	60	240	81	4,836	12.7611	997	0.0010	1.0967	0.0183	26
			1530	60	300	81	4,836	12.7611	910	0.0009	1.0010	0.0167	24
			1630	60	360	82	4,932	13.0123	825	0.0008	0.9254	0.0154	22
			1730	60	420	82	4,932	13.0123	815	0.0008	0.9142	0.0152	22
		6/10/2008	730	840	1,260	85	71,709	189.2061	560	0.0006	9.1334	0.0109	16
			830	60	1,320	44	2,640	6.9657	590	0.0006	0.3543	0.0059	9
			930	60	1,380	54	3,218	8.4906	580	0.0006	0.4245	0.0071	10
			1030	60	1,440	82	4,932	13.0123	641	0.0006	0.7190	0.0120	17
			1130	60	1,500	84	5,027	13.2635	595	0.0006	0.6803	0.0113	16
			1230	60	1,560	84	5,027	13.2635	570	0.0006	0.6517	0.0109	16
			1330	60	1,620	85	5,122	13.5147	533	0.0005	0.6209	0.0103	15
			1430	60	1,680	85	5,122	13.5147	548	0.0005	0.6384	0.0106	15
			1530	60	1,740	87	5,217	13.7659	547	0.0005	0.6491	0.0108	16
			1630	60	1,800	87	5,217	13.7659	530	0.0005	0.6289	0.0105	15
			1700	30	1,830	89	2,656	7.0086	525	0.0005	0.3172	0.0106	15
		6/11/2008	800	900	2,730	90	81,116	214.0252	468	0.0005	8.6341	0.0096	14
			900	60	2,790	92	5,503	14.5196	478	0.0005	0.5983	0.0100	14
			1000	60	2,850	92	5,503	14.5196	457	0.0005	0.5720	0.0095	14
			1030	30	2,880	92	2,751	7.2598	460	0.0005	0.2879	0.0096	14
			1100	30	2,910	92	2,751	7.2598	462	0.0005	0.2891	0.0096	14
			1200	60	2,970	90	5,408	14.2683	452	0.0005	0.5559	0.0093	13
			1300	60	3,030	85	5,122	13.5147	510	0.0005	0.5941	0.0099	14
			1400	60	3,090	87	5,217	13.7659	462	0.0005	0.5482	0.0091	13
			1500	60	3,150	87	5,217	13.7659	451	0.0005	0.5352	0.0089	13
			1600	60	3,210	89	5,312	14.0171	436	0.0004	0.5268	0.0088	13
			1630	30	3,240	89	2,656	7.0086	438	0.0004	0.2646	0.0088	13
		6/12/2008	800	930	4,170	90	83,819	221.1594	407	0.0004	7.7590	0.0083	12
			900	60	4,230	90	5,408	14.2683	393	0.0004	0.4834	0.0081	12
			1000	60	4,290	92	5,503	14.5196	376	0.0004	0.4706	0.0078	11
			1100	60	4,350	92	5,503	14.5196	375	0.0004	0.4693	0.0078	11
			1200	60	4,410	89	5,312	14.0171	388	0.0004	0.4688	0.0078	11
			1300	60	4,470	89	5,312	14.0171	360	0.0004	0.4350	0.0072	10
			1400	60	4,530	47	2,820	7.4406	356	0.0004	0.2283	0.0038	5
			1500	60	4,590	50	3,028	7.9881	356	0.0004	0.2451	0.0041	6
			1600	60	4,650	85	5,122	13.5147	397	0.0004	0.4625	0.0077	11
			1700	60	4,710	85	5,122	13.5147	365	0.0004	0.4252	0.0071	10
	pause	**6/13/2008**	1130	1110	5,820	87	96,570	254.8021	389	0.0004	8.5440	0.0077	11
			1230	60	5,880	87	5,217	13.7659	389	0.0004	0.4616	0.0077	11
			1330	60	5,940	89	5,312	14.0171	379	0.0004	0.4579	0.0076	11
			1430	60	6,000	89	5,312	14.0171	351	0.0004	0.4241	0.0071	10
	STOP		1500	30	6,030	89	2,656	7.0086	360	0.0004	0.2175	0.0072	10
	TOTAL				**6,030**		**517,461**	**1365**			**58.00**	**0.0096**	**13.85**
	MEDIAN					**87**			**462**	**0.0005**			

Notes

Q	volumetric flow rate
SCFM	standard cubic feet per minute
ft^3	cubic feet per minute
VOC	volatile organic compounds
PID	photo-ionization detector
ppmv	parts per million vapor

100.5
4.1875

DERIVATION OF MASS REMOVAL RATE

ppmv as hexane/1,000,000 = VOC mole %
ft3 of extracted air/(379 ft3 air/lb-mole air) = moles of extracted air
(moles of extracted air)(VOC mole %)(86.2 lb/lb-mole hexane) = lbs of VOC removed as hexane
(lbs of VOC mass removed as hexane)(elapsed time) = lbs/min of VOC removed as hexane
(lbs/min of VOC removed as hexane)(60 min/1 hour)(24 hours/1 day) = lbs/day of VOC removed as hexane

Table 6

March 2008 MPE Event
Mass Removal

3609 International Boulevard
Oakland, California

Extraction Well	Vapor Sample ID	Collection Date/Time	PID ppmv (hexane)	Q (CFM)	Mass Removal Rate (lbs/day) (VOCs)	Total Test time (minutes/days)	Total Mass Removed (lbs) (VOCs)
MW-1/3	Influent	3/25/2008 @ 0800	420(a)	47	6.46	5,415/3.76	**24.30 (b)**
MW-1/3	Stack	3/25/2008 @ 0750	1(a)	47	N/A	N/A	N/A
		REMOVAL EFFICIENCIES	99.7619%				

Notes

CFM	cubic feet per minute
lbs/day	pounds per day
(a)	dilution factor 1
(b)	average value

DERIVATION OF MASS REMOVAL RATE
DERIVATION OF TOTAL MASS REMOVED
Table 2

DERIVATION OF REMOVAL EFFICIENCIES
INFLUENT sample concentration / STACK concentration

Table 6

April 2008 MPE Event
Mass Removal

3609 International Boulevard
Oakland, California

Extraction Well	Vapor Sample ID	Collection Date/Time	PID ppmv (hexane)	Q (CFM)	Mass Removal Rate (lbs/day) (VOCs)	Total Test time (minutes/days)	Total Mass Removed (lbs) (VOCs)
MW-1/3	Influent	4/15/2008 @ 0700	650(a)	70	10.94	5,670/3.94	**43.06 (b)**
MW-1/3	Stack	4/15/2008 @ 0650	1(a)	70	N/A	N/A	N/A
		REMOVAL EFFICIENCIES	99.8462%				

Notes

CFM	cubic feet per minute
lbs/day	pounds per day
(a)	dilution factor 1
(b)	average value

DERIVATION OF MASS REMOVAL RATE
DERIVATION OF TOTAL MASS REMOVED
Table 2

DERIVATION OF REMOVAL EFFICIENCIES
INFLUENT sample concentration / STACK concentration

Table 6

May 2008 MPE Event
Mass Removal

3609 International Boulevard
Oakland, California

Extraction Well	Vapor Sample ID	Collection Date/Time	PID ppmv (hexane)	Q (CFM)	Mass Removal Rate (lbs/day) (VOCs)	Total Test time (minutes/days)	Total Mass Removed (lbs) (VOCs)
MW-1/3	Influent	5/13/2008 @ 0730	653(a)	79	13.75	4,837/3.36	**46.19 (b)**
MW-1/3	Stack	5/13/2008 @ 0720	4(a)	79	N/A	N/A	N/A
		REMOVAL EFFICIENCIES	99.3874%				

Notes

CFM	cubic feet per minute
lbs/day	pounds per day
(a)	dilution factor 1
(b)	average value

DERIVATION OF MASS REMOVAL RATE
DERIVATION OF TOTAL MASS REMOVED
Table 2

DERIVATION OF REMOVAL EFFICIENCIES
INFLUENT sample concentration / STACK concentration

Table 6

June 2008 MPE Event
Mass Removal

3609 International Boulevard
Oakland, California

Extraction Well	Vapor Sample ID	Collection Date/Time	USEPA TO-3 MODIFIED	USEPA TO-15 MODIFIED									Q (CFM)	Mass Removal Rate (lbs/day) (TPHg/benzene/MtBE)	Total Test time (minutes/days)	Total Mass Removed (lbs) (TPHg/benzene/MtBE)
			TPHg (ug/m^3)	Benzene (ug/m^3)	MtBE (ug/m^3)	Toluene (ug/m^3)	Ethyl benzene (ug/m^3)	Total Xylenes (ug/m^3)	DIPE (ug/m^3)	ETBE (ug/m^3)	TAME (ug/m^3)	TBA (ug/m^3)				
MW-3	Influent	6/10/08 @ 0820	1,290,000(a)	8,300(b)	<250(b)	<260(b)	2,100(b)	12,400(b)	<330(b)	<330(b)	<330(b)	<240(b)	87	**9.05 (f) / 0.037 (f) / 0.0013 (f)**	**6,030 / 4.1875**	**37.91 (f) / 0.15 (f) / 0.0056 (f)**
MW-3	Influent	6/12/08 @ 1300	1,000,000(d)	7,700(e)	<90(e)	2,300(e)	1,600(e)	10,000(e)	NA	<100(e)	<100(e)	<76(e)				
MW-3	Stack	6/10/08 @ 0800	<3,500(c)	<16(c)	<18(c)	<19(c)	<22(c)	<42(c)	<21(c)	<21(c)	<21(c)	110	N/A			
		REMOVAL EFFICIENCIES	99.73%	99.81%	92.80%	99.17%	98.95%	99.82%	93.64%	93.64%	93.64%	<54.17%	N/A			
MW-1	Influent	6/10/08 @ 0930	1,250,000(a)	1,500(b)	<250(b)	550(b)	1,040(b)	6,500(b)	<330(b)	<330(b)	<330(b)	<240(b)	87			
MW-1	Influent	6/12/08 @ 1400	1,100,000(d)	1,400(e)	<90(e)	<94(e)	430(e)	2,680(e)	NA	<100(e)	<100(e)	<76(e)				

Notes

CFM	cubic feet per minute
lbs/day	pounds per day
ug/m^3	micrograms per cubic meter
DIPE	di-isopropyl ether
ETBE	ethyl tertiary butyl ether
TAME	methyl tertiary amyl ether
TBA	tertiary butyl alcohol
(a)	dilution factor 1000
(b)	dilution factor 500
(c)	dilution factor 10
(d)	dilution factor 100
(e)	dilution factor 50
(f)	average value

DERIVATION OF MASS REMOVAL RATE

(**ug/m^3**) [(1mg/1000ug) ($1m^3$/1000 L)] = **mg/L**
(**mg/L**) (28.32 L/1 ft^3) ([Q} ft^3/min) = **mg/min**
(**mg/min**)(1g/1000mg)(1kg/1000g)(60min/1hr)(24hr/1day) = **kg/day**
(**kg/day**)(2.2lbs/1kg) = **lbs/day**

DERIVATION OF TOTAL MASS REMOVED

Total time of test = **days** (Tables 1, 2 and 3)
(average mass removal rate [**lbs/day**])(total time of test [**days**]) = Total Removed (**lbs**)

DERIVATION OF REMOVAL EFFICIENCIES
Influent sample concentration / STACK sample concentration

Table 7

Dissolved-Phase Hydrocarbon Concentrations
Pre- and Post-MPE Event

3609 International Boulevard
Oakland, California

Monitoring Well	Date	MPE Event	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)
MW-1	12/3/2007	Pilot Test	839	9	<2	1	<2.5	4
	12/7/2007	Pilot Test	2,270	20	6	34	50	11
	3/24/2008	March 2008	<50	<0.5	<2.0	<0.5	<2.5	<0.5
	3/28/2008	March 2008	705	10	4	8	40	5
	4/14/2008	April 2008	<50	<0.5	<2.0	<0.5	<2.5	<0.5
	4/18/2008	April 2008	3,710	27	21	47	303	11
	5/12/2008	May 2008	<50	<0.5	<2.0	<0.5	<2.0	1
	5/16/2008	May 2008	2,780	28	3	2	82	25
	6/9/2008	June 2008	<50	<0.5	<2.0	<0.5	<2.0	1
	6/13/2008	June 2008	1,730	11	8	53	92	9
MW-3	12/3/2007	Pilot Test	2,040	2,200	<22	115	33	25
	12/7/2007	Pilot Test	4,610	785	57	275	262	6
	3/24/2008	March 2008	4,720	251	8	384	270	3
	3/28/2008	March 2008	13,700	653	395	514	1,153	<2.15
	4/14/2008	April 2008	6,350	124	19	231	464	<0.5
	4/18/2008	April 2008	4,630	191	101	74	692	<2.15
	5/12/2008	May 2008	3,460	111	8	99	222	<0.5
	5/16/2008	May 2008	16,600	795	371	427	3,807	10
	6/9/2008	June 2008	3,770	177	8	161	209	1
	6/13/2008	June 2008	6,910	534	283	233	1,241	<5.5

Notes:

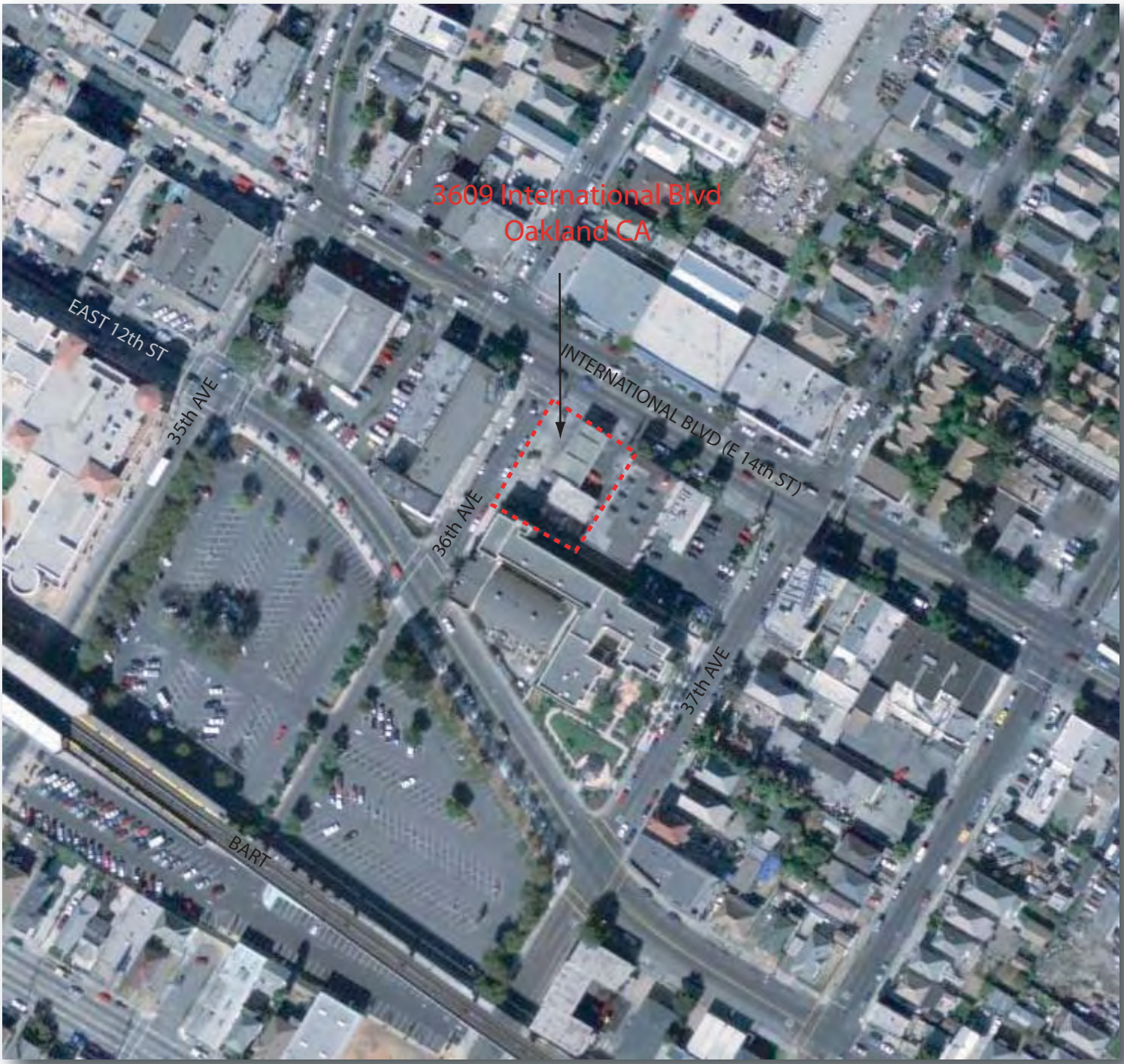
TPHg = Total petroleum hydrocarbons as gasoline

TPHd = Total petroleum hydrocarbons as diesel

MTBE = methyl-tertiary-butyl ether

ug/l - Micrograms per liter

FIGURES

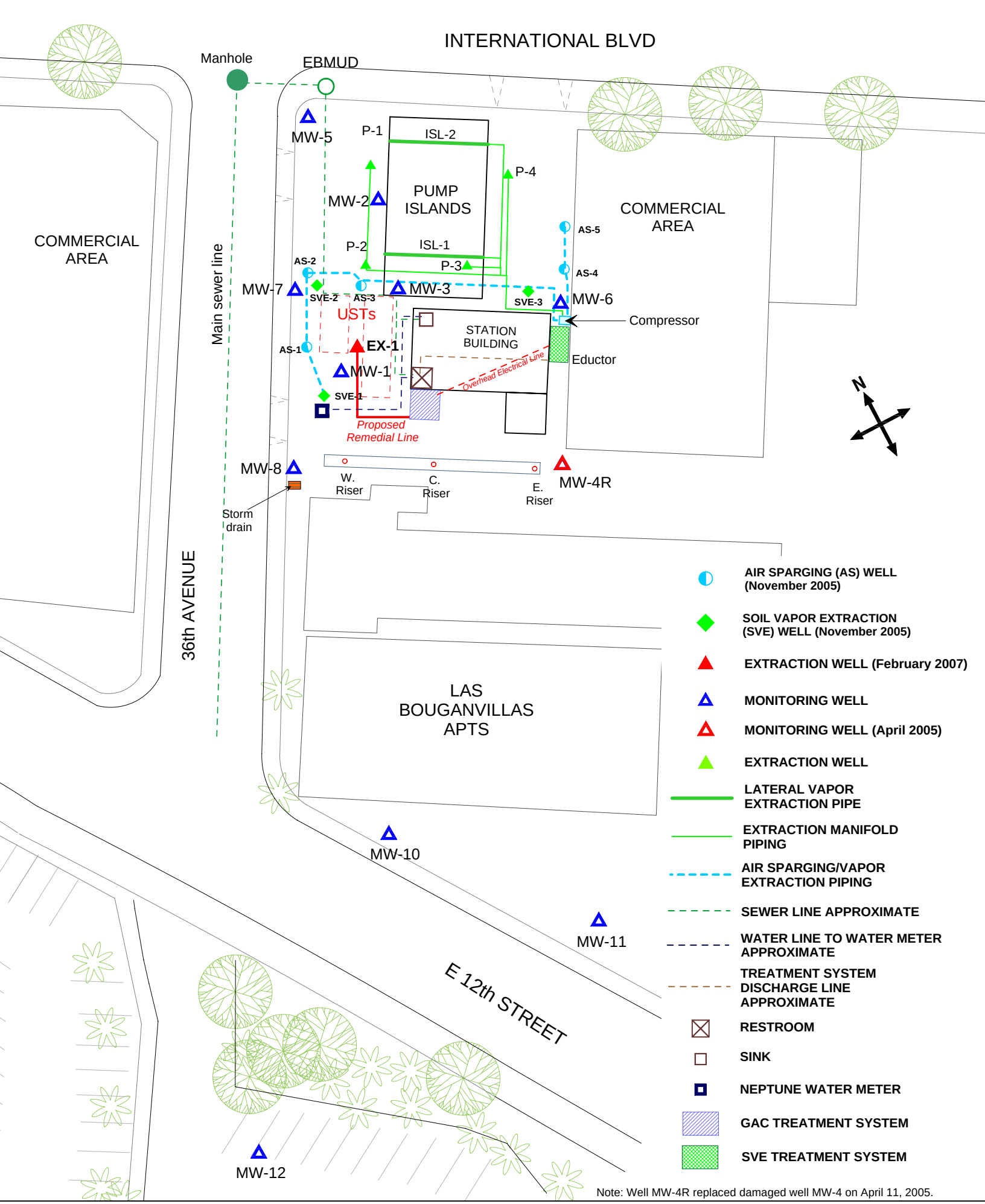


approximate scale in feet

0 150 300

Figure 1: Site vicinity map.

ENVIRONMENTAL ENGINEERING, INC.



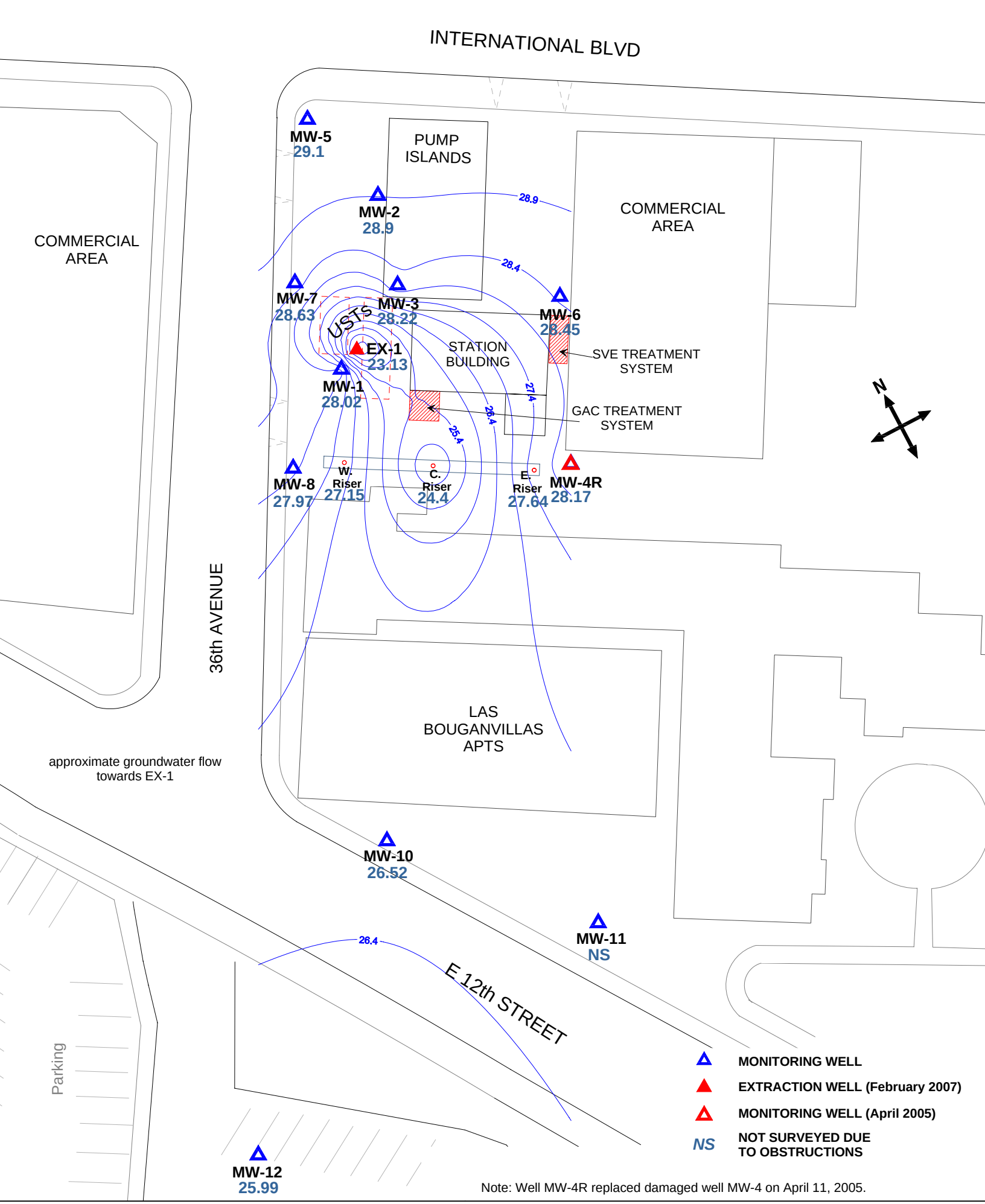
Note: Well MW-4R replaced damaged well MW-4 on April 11, 2005.

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.

ENVIRONMENTAL ENGINEERING, INC.



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

approximate scale in feet

0 20 40

Figure 3: Groundwater elevation contour map in feet, May 6, 2008.

ENVIRONMENTAL ENGINEERING, INC.

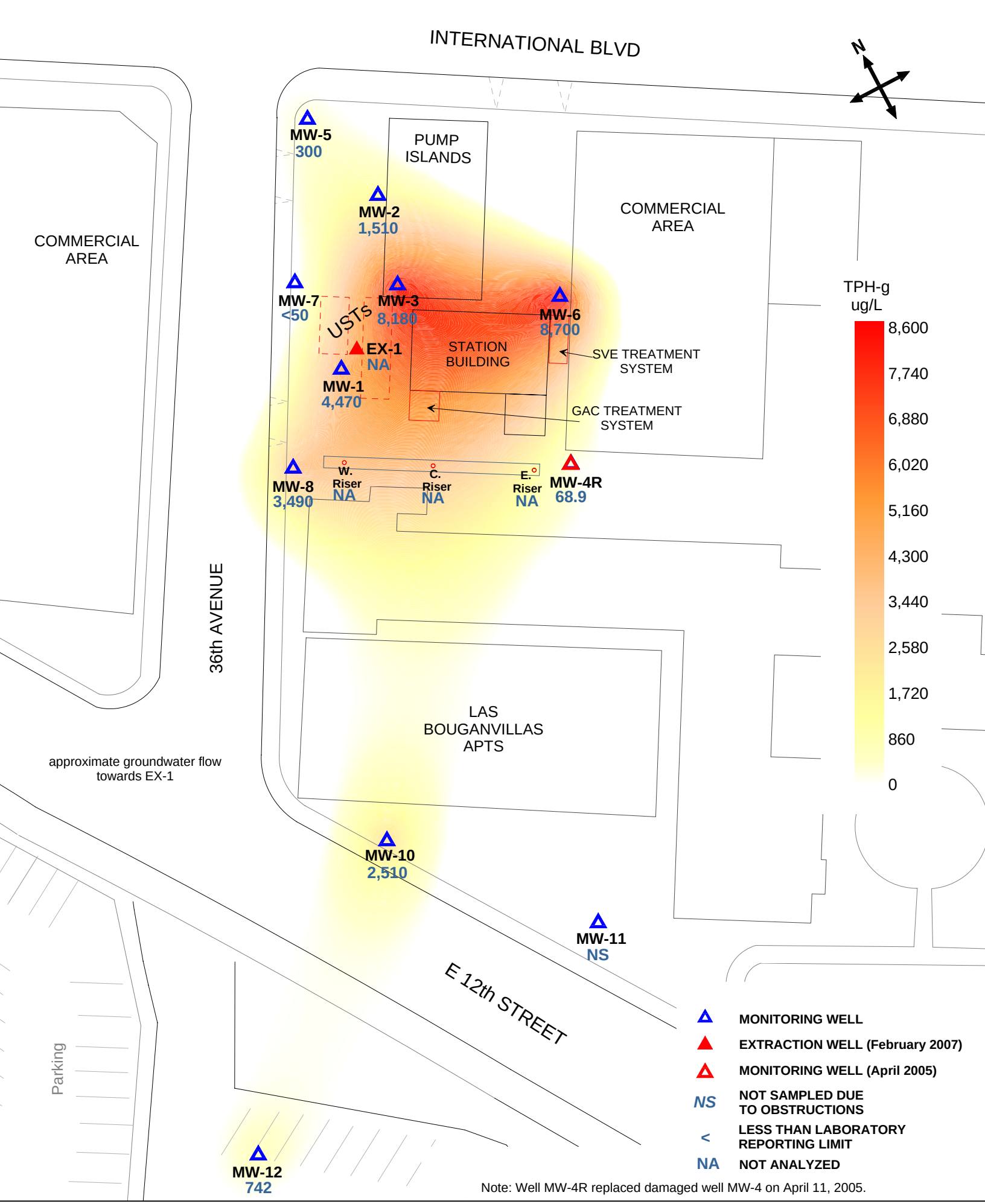
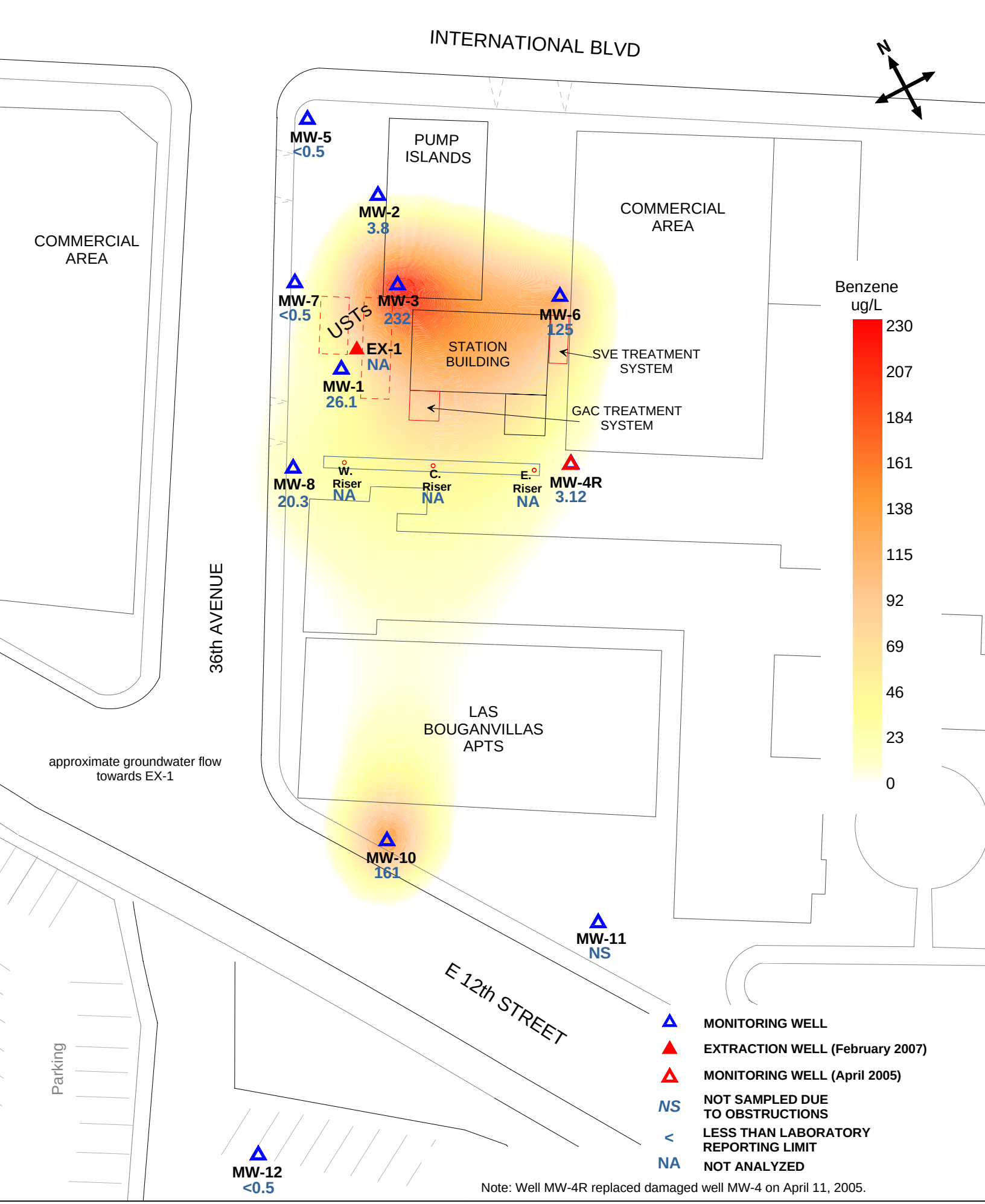


Figure 4: Contour map of TPH-g concentrations in the groundwater.
May 6 and 7, 2008.

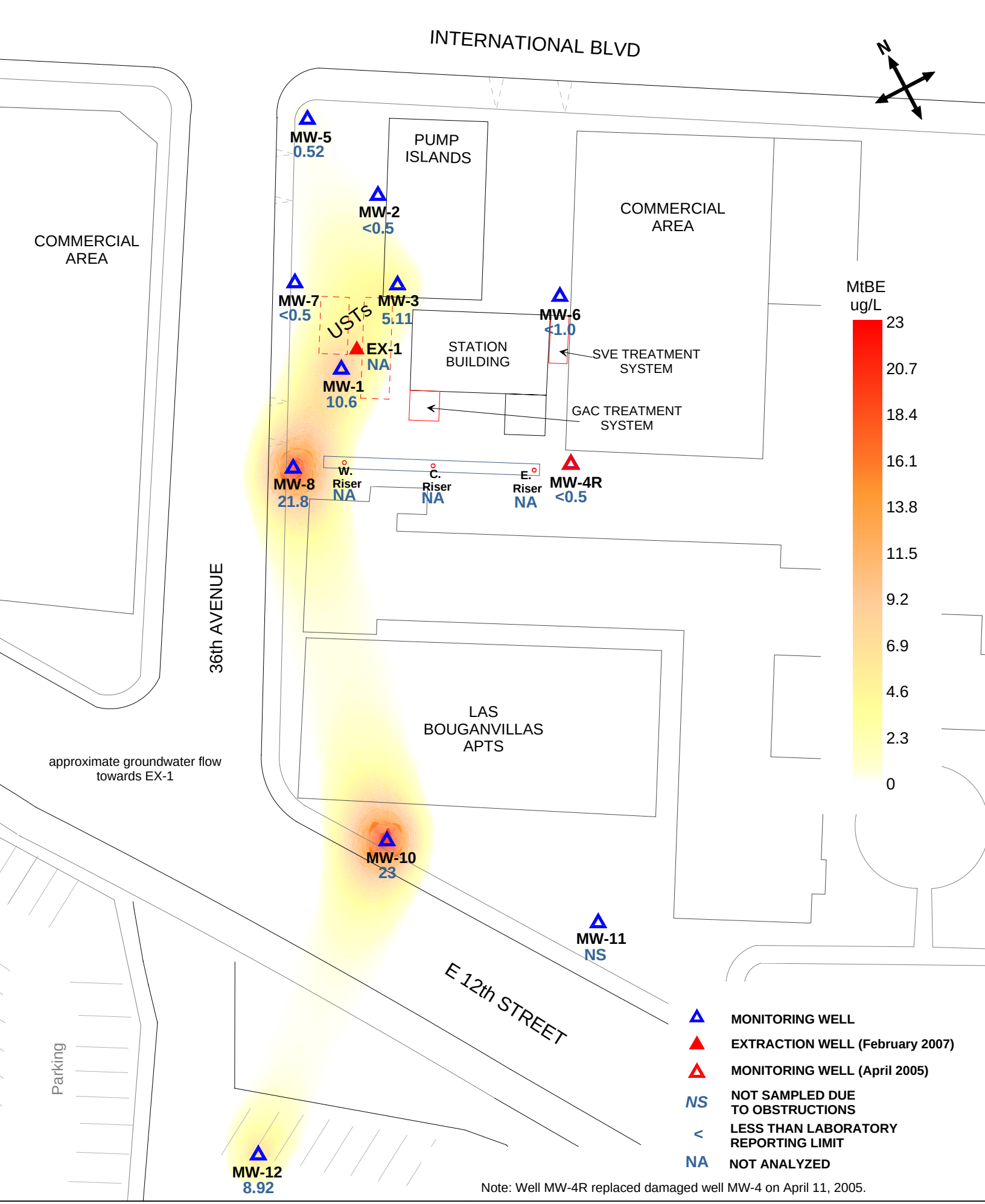
ENVIRONMENTAL ENGINEERING, INC.



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

Figure 5: Contour map of benzene concentrations in the groundwater. May 6 and 7, 2008.

ENVIRONMENTAL ENGINEERING, INC.

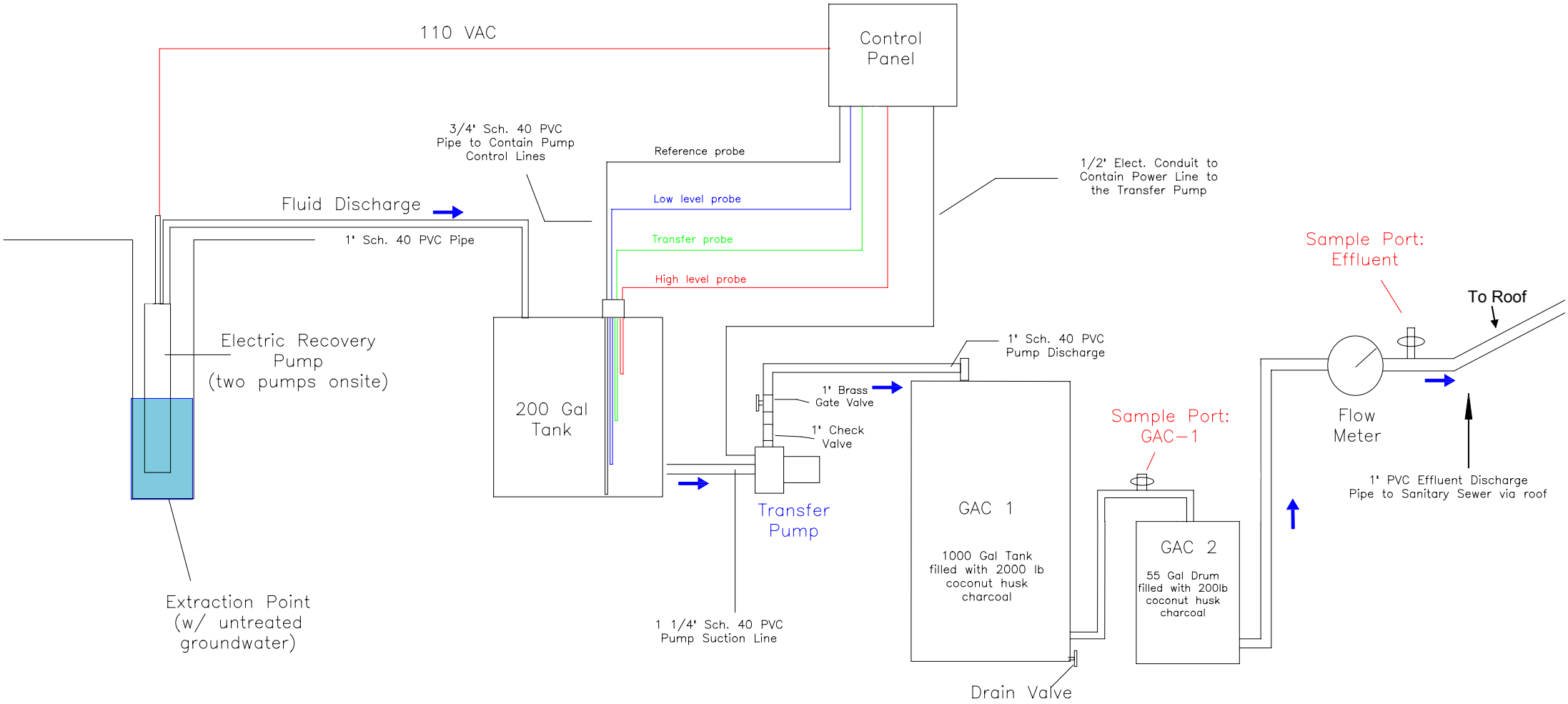


Note: Well MW-4R replaced damaged well MW-4 on April 11, 2005.

approximate scale in feet
0 20 40

Figure 6: Contour map of MtBE concentrations in the groundwater (EPA Method 8260B). May 6 and 7, 2008.

ENVIRONMENTAL ENGINEERING, INC.

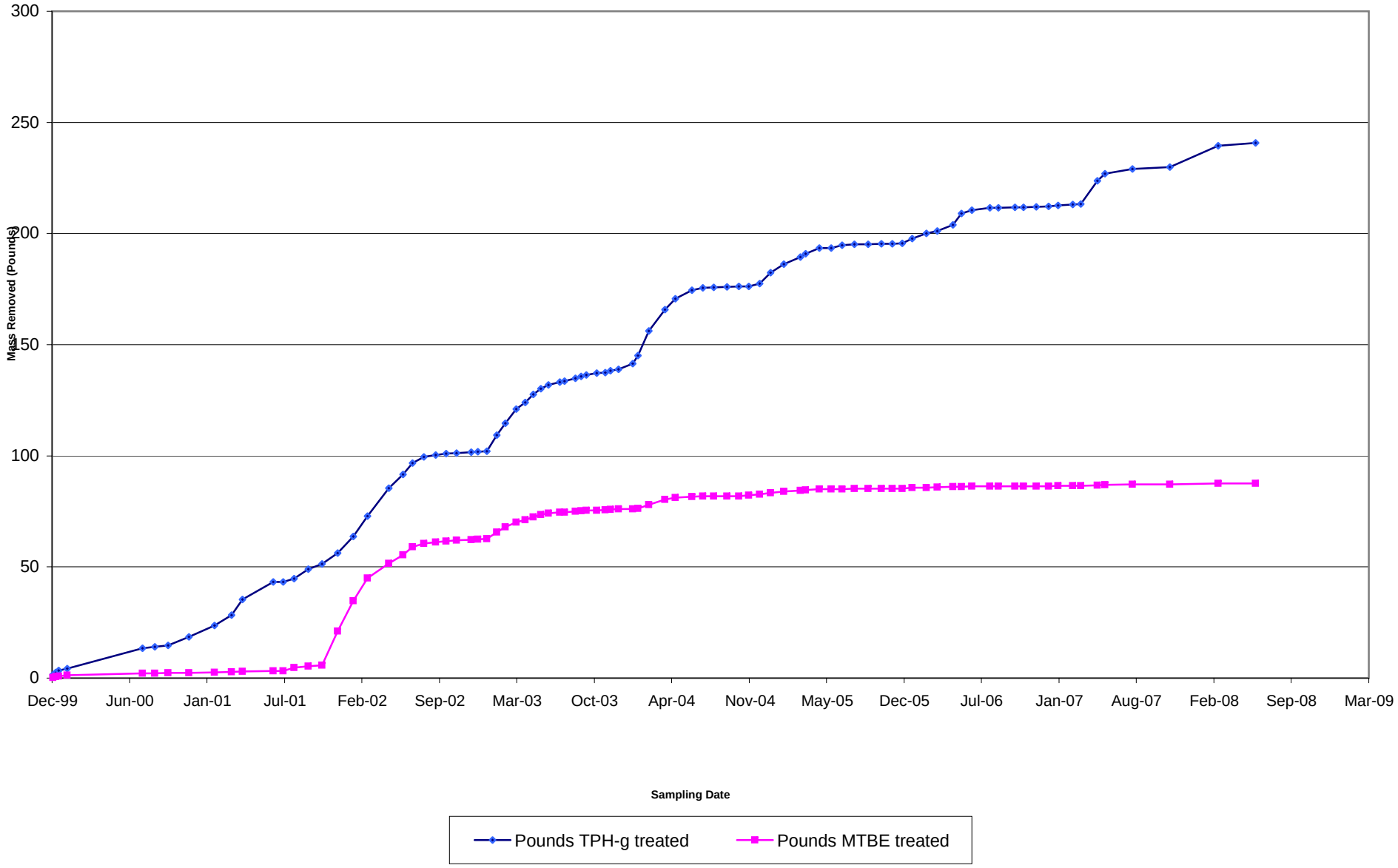


(Discharge permit No: 504-27421)
Tony's Express Auto Service. November 14, 2011 permit expires

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

SOMA ENVIRONMENTAL ENGINEERING, INC.

Figure 8: Cumulative Mass of TPH-g and MtBE Removed from Groundwater since the Installation of the Treatment System



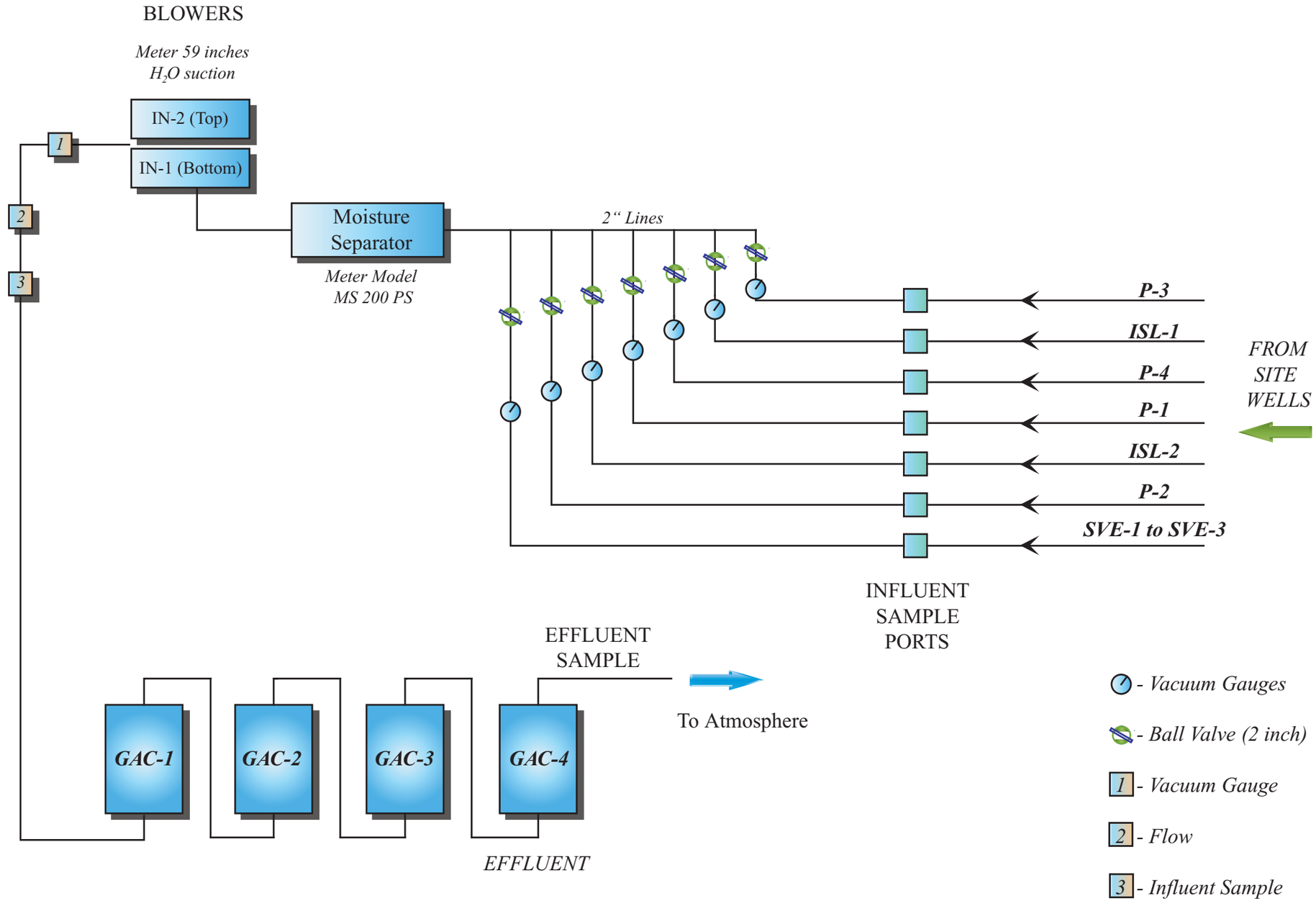


Figure 9: Block Diagram of SVE System

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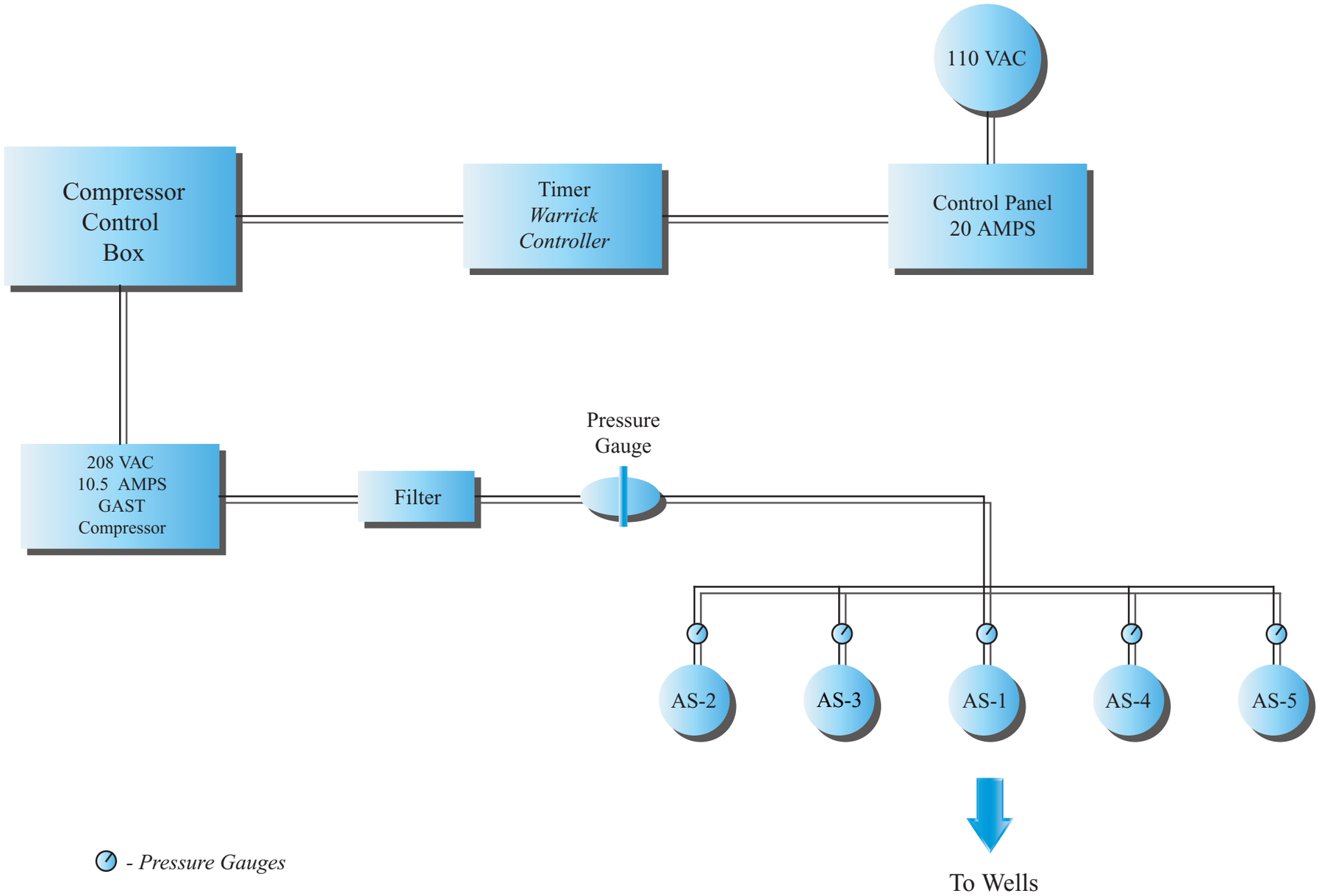


Figure 10: Block diagram of the Air Sparge System

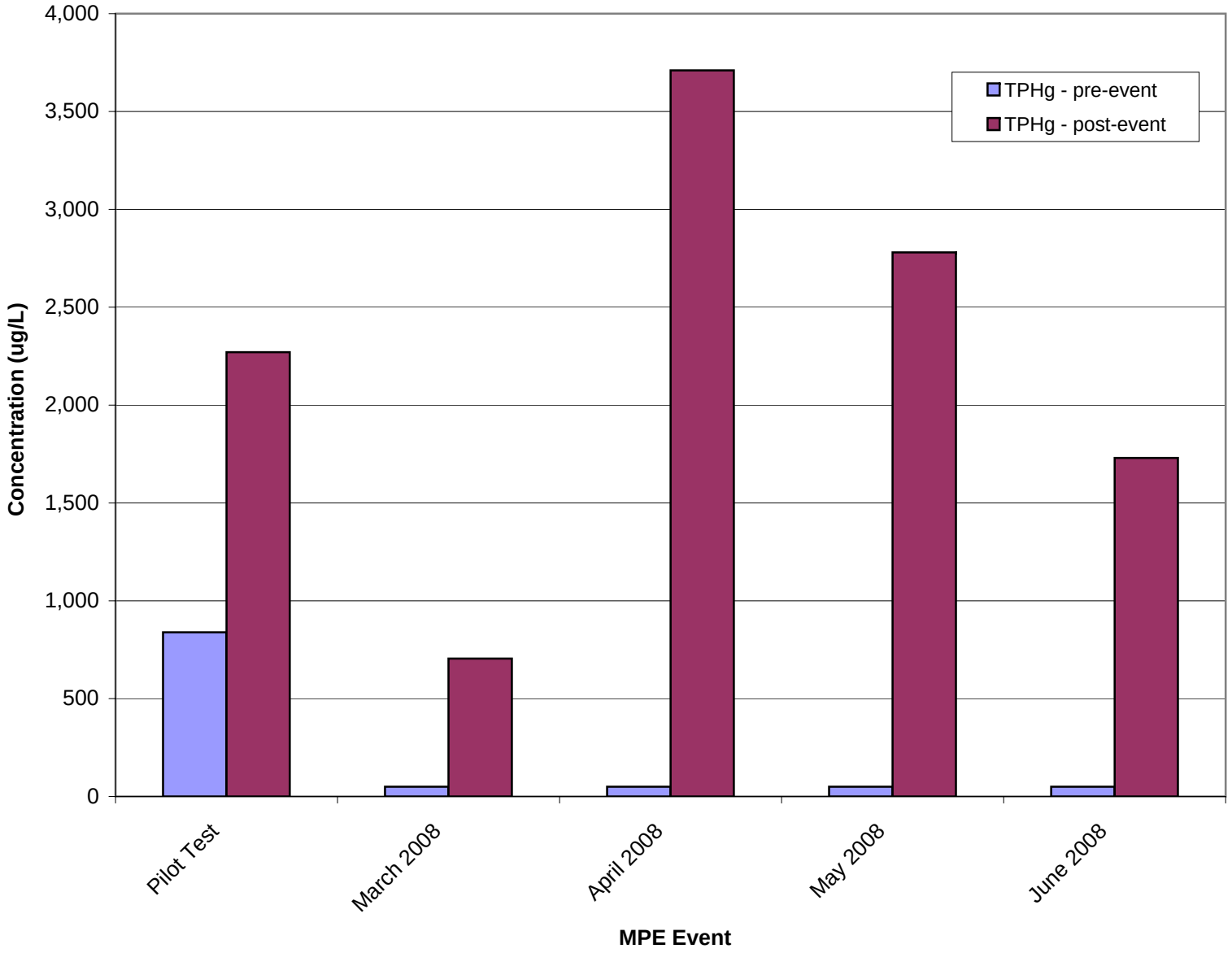


Figure 11: Dissolved-Phase Hydrocarbon Concentrations in Groundwater, TPH-g, Pre- and Post-MPE Event, MW-1

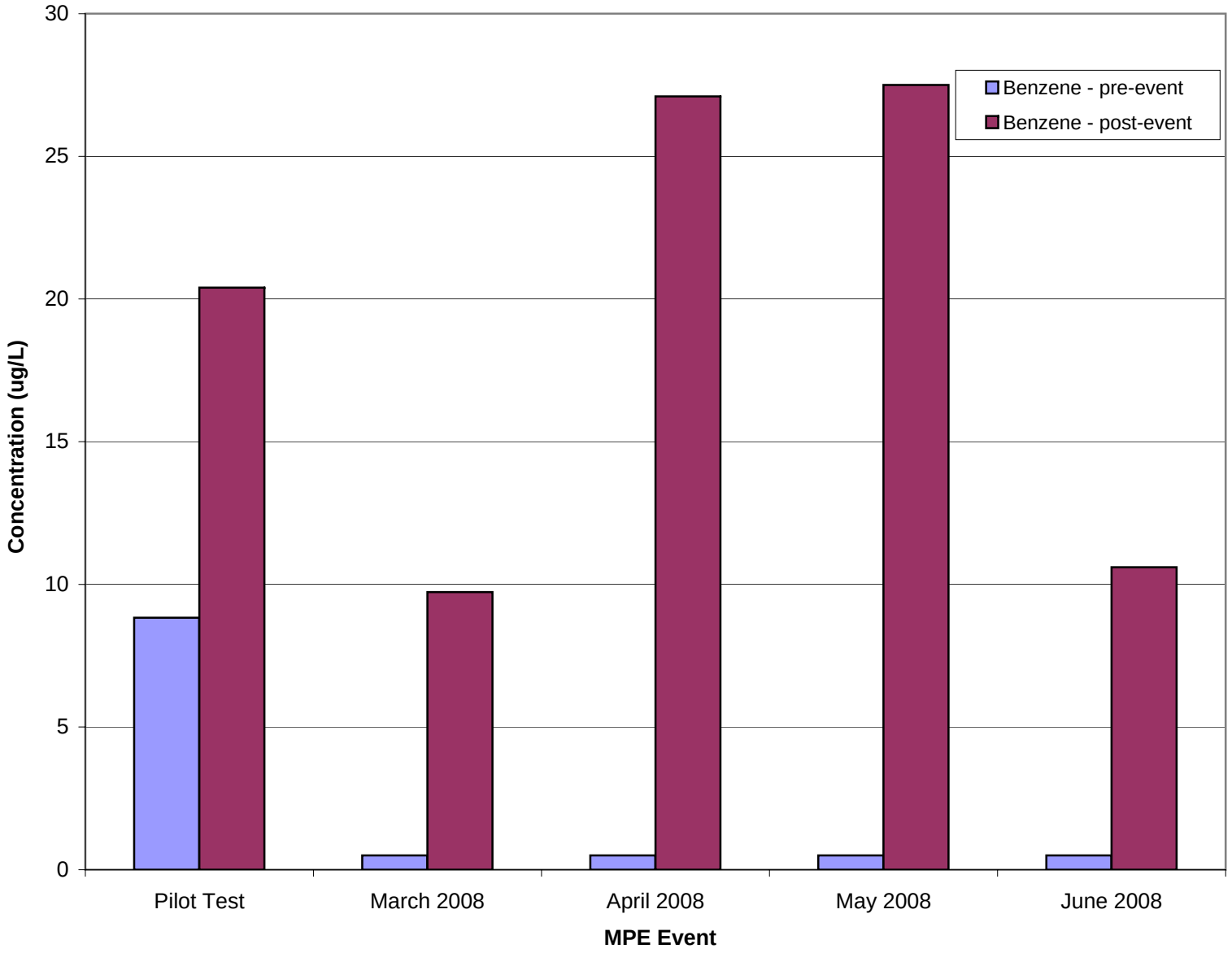


Figure 12: Dissolved-Phase Hydrocarbon Concentrations in Groundwater, Benzene, Pre- and Post-MPE Event, MW-1

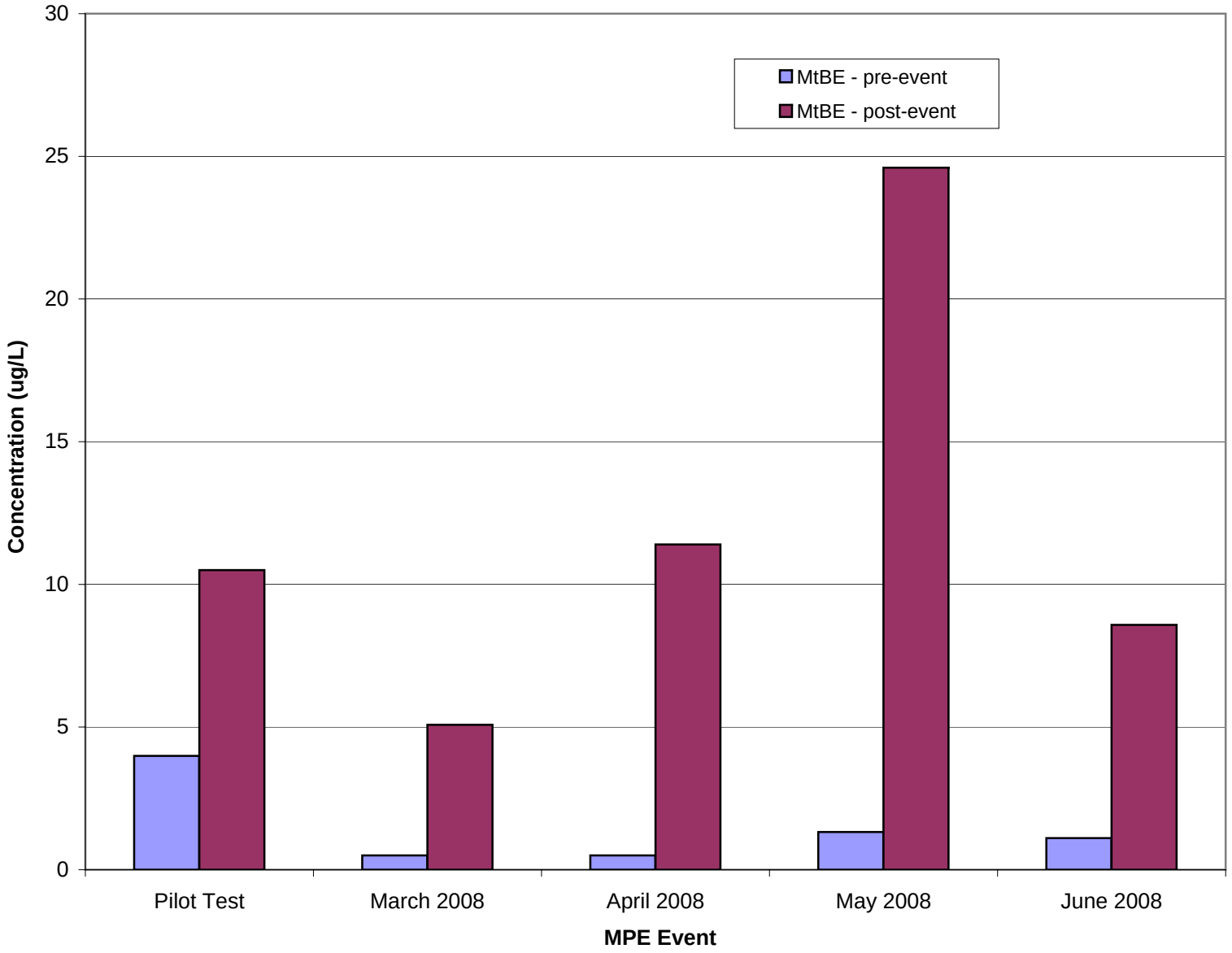


Figure 13: Dissolved-Phase Hydrocarbon Concentrations in Groundwater, MtBE, Pre- and Post-MPE Event, MW-1

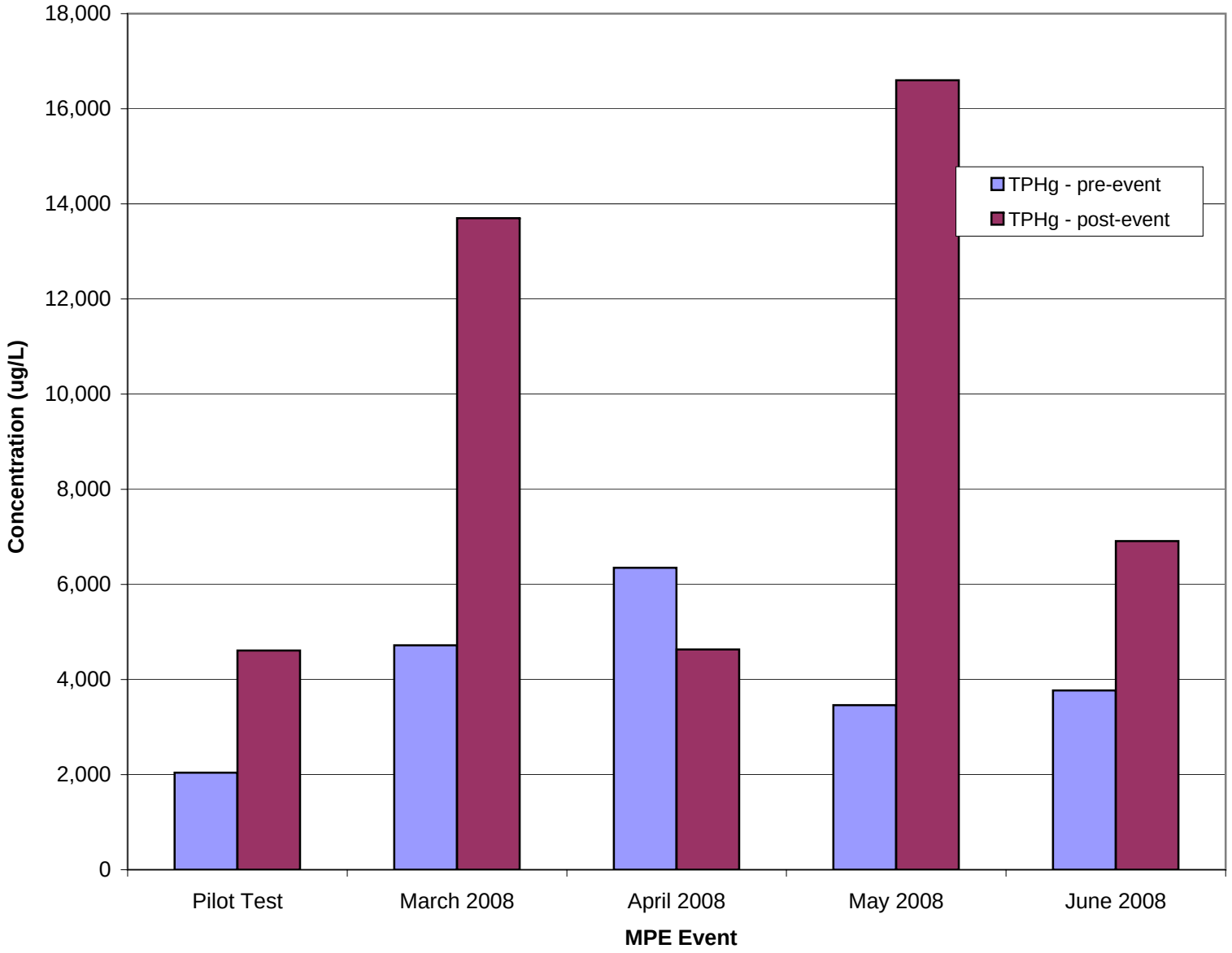


Figure 14: Dissolved-Phase Hydrocarbon Concentrations in Groundwater, TPH-g, Pre- and Post-MPE Event, MW-3

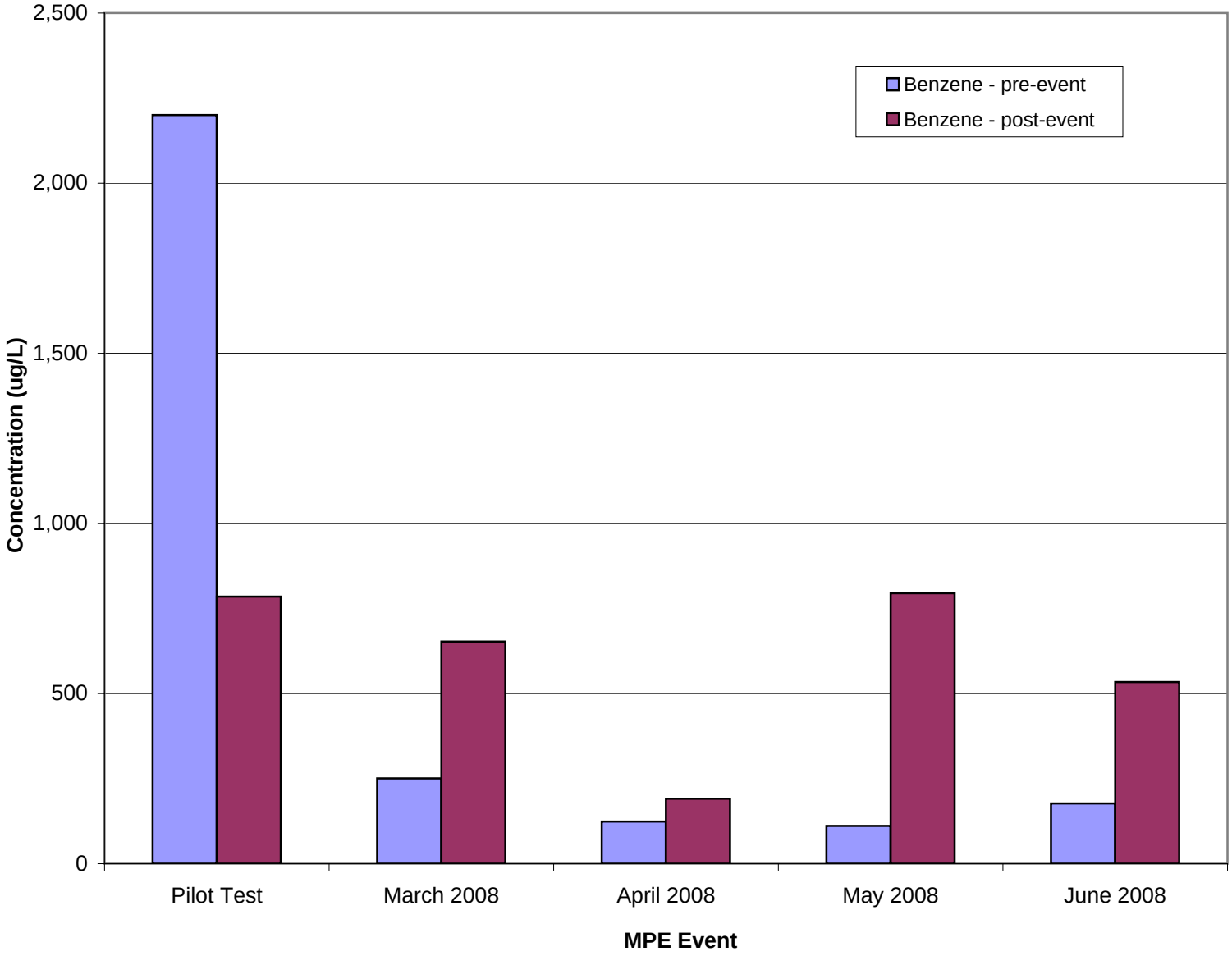


Figure 15: Dissolved-Phase Hydrocarbon Concentrations in Groundwater, Benzene, Pre- and Post-MPE Event, MW-3

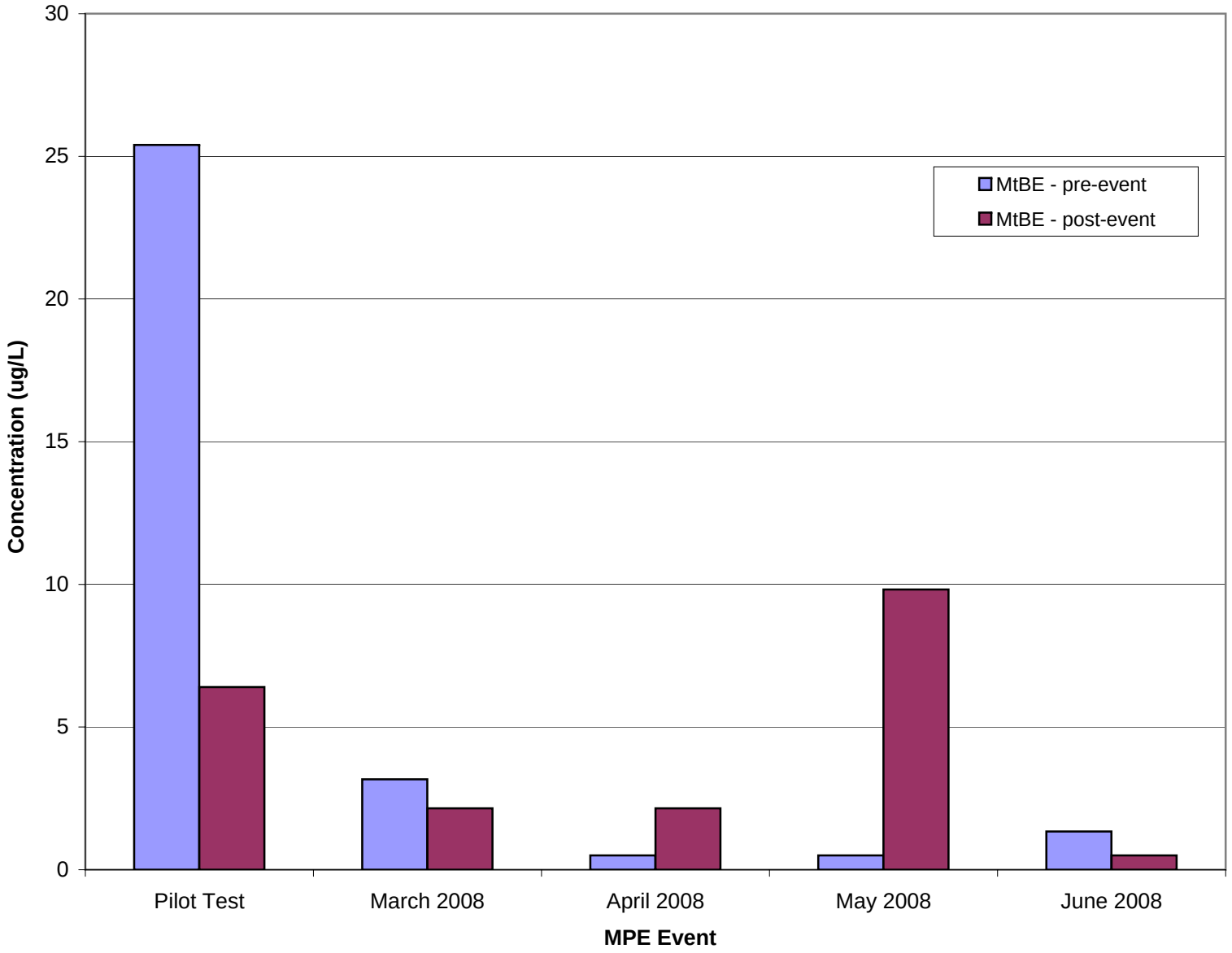


Figure 16: Dissolved-Phase Hydrocarbon Concentrations in Groundwater, MtBE, Pre- and Post-MPE Event, MW-3

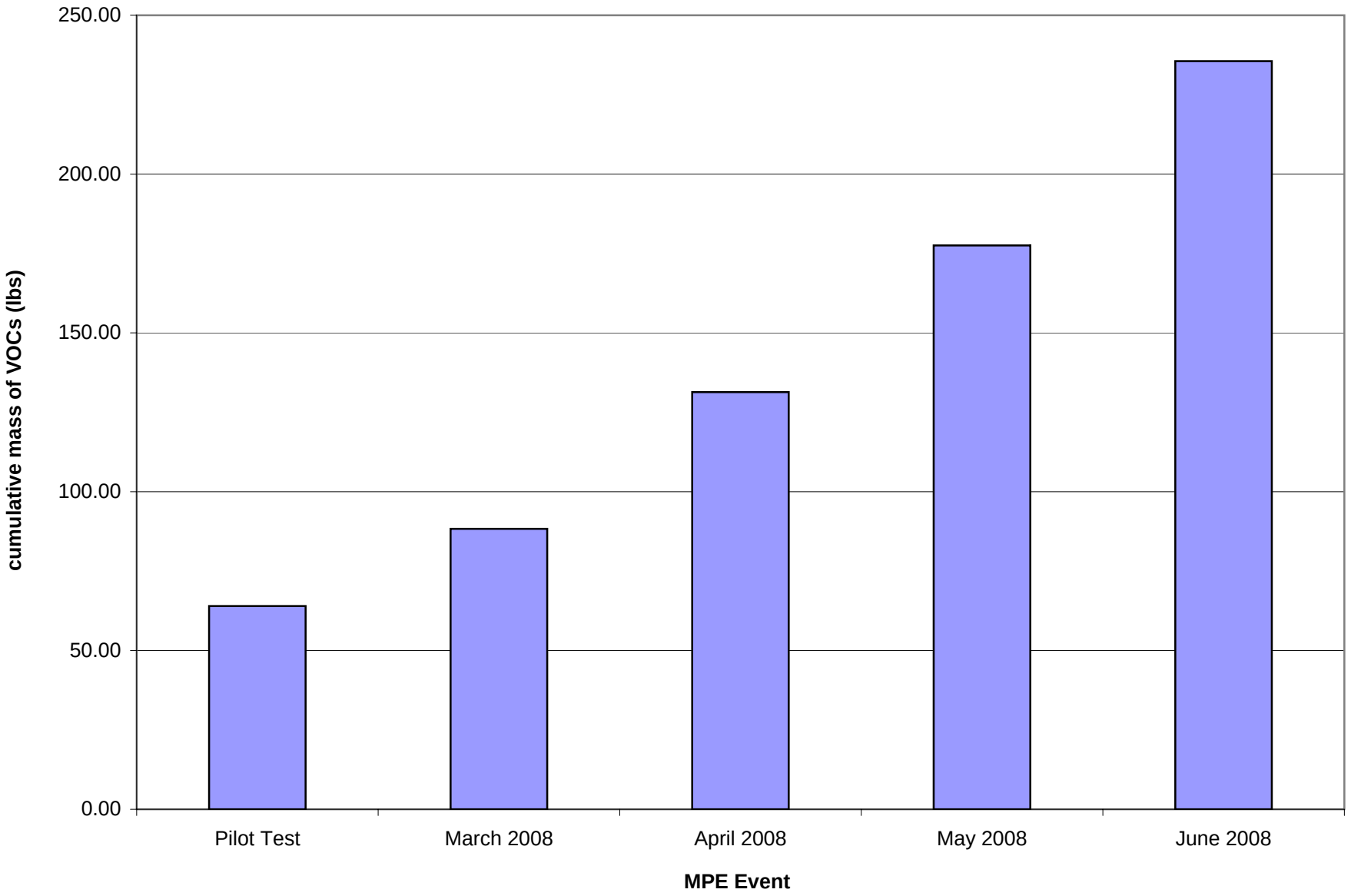


Figure 17: Cumulative Mass of VOCs Removed

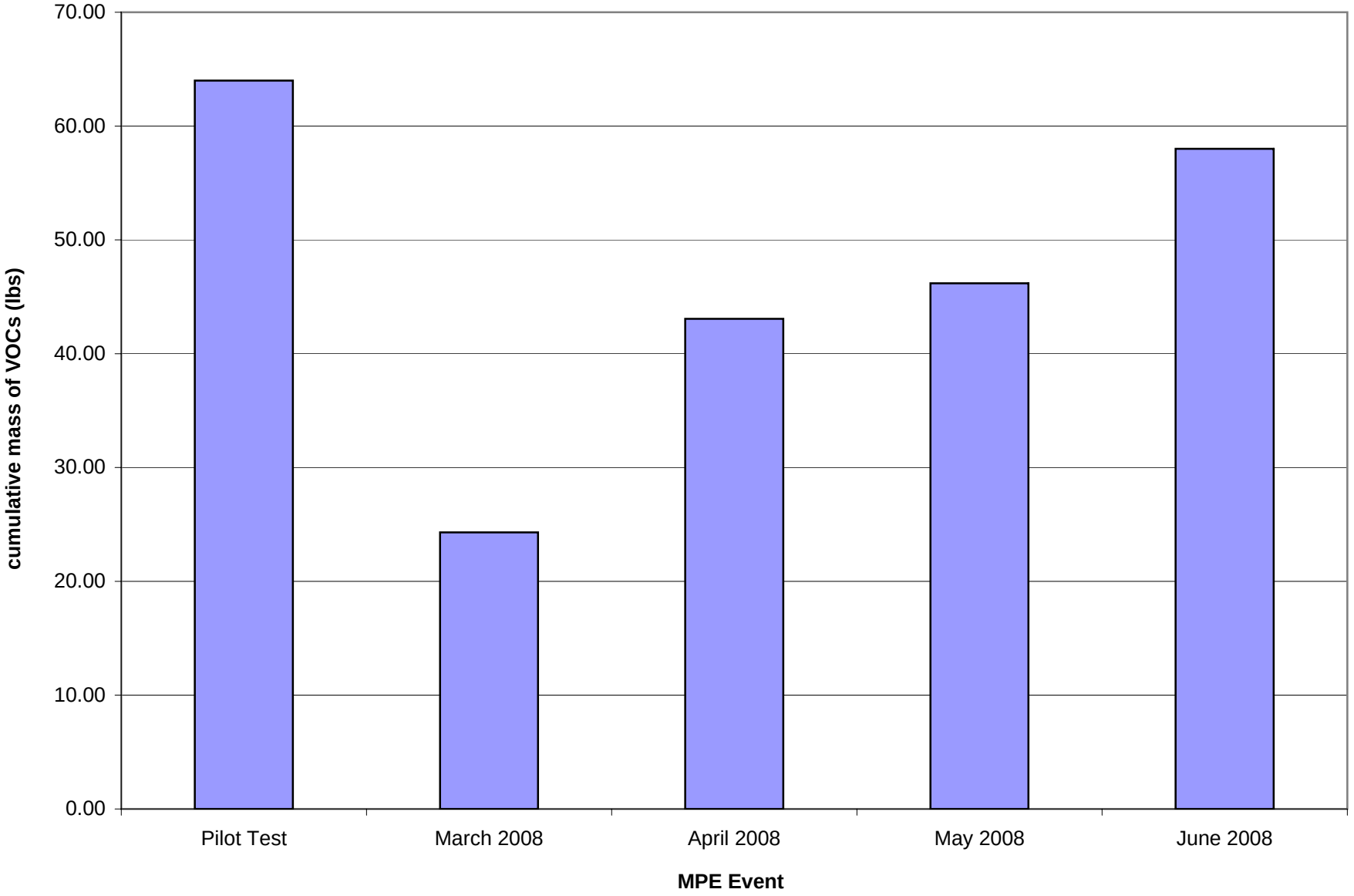


Figure 18: Mass of VOCs Removed Per Event

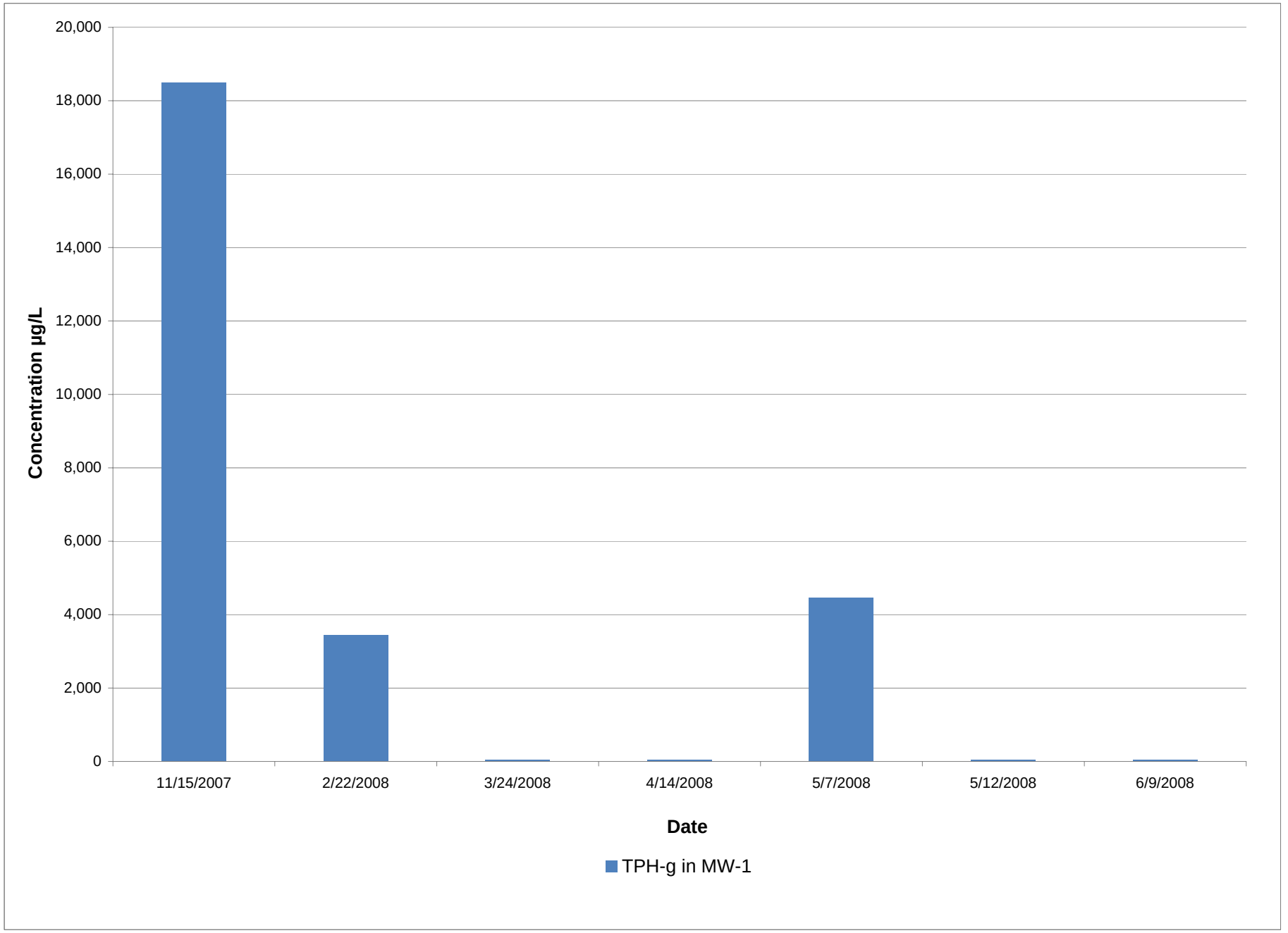


Figure 19: Comparison of TPH-g Concentrations in MW-1

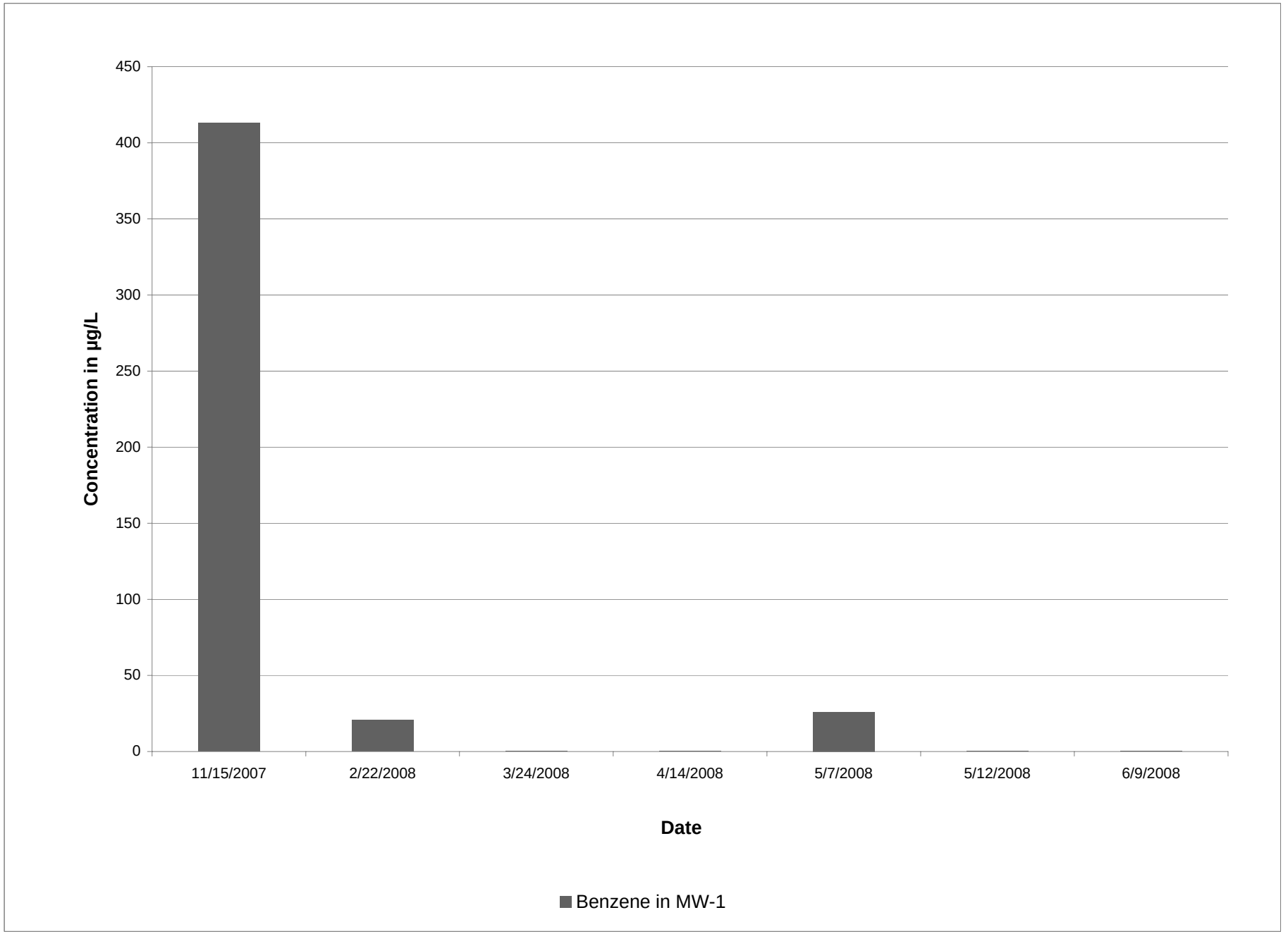


Figure 20: Comparison of Benzene Concentrations in MW-1

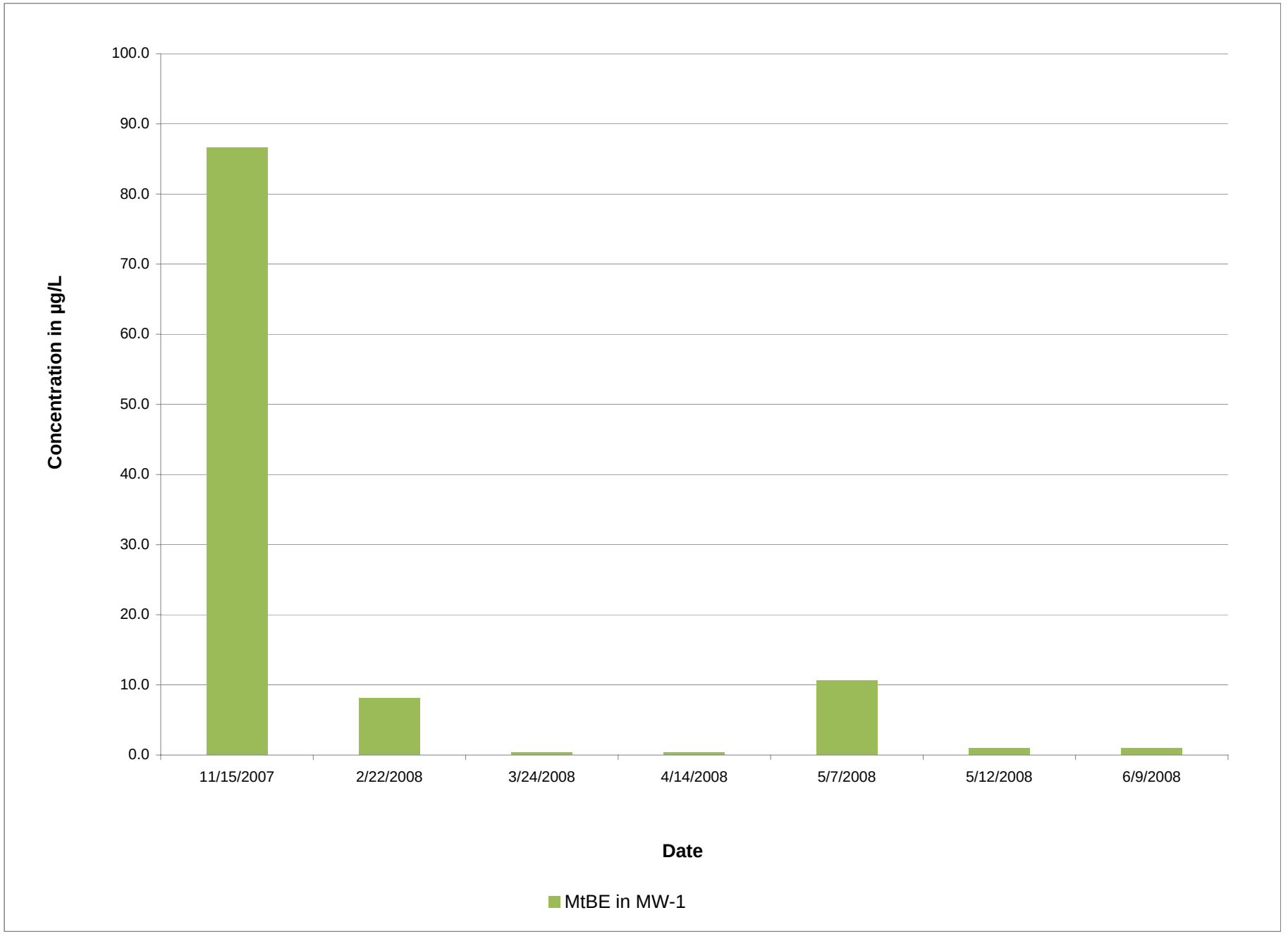


Figure 21: Comparison of MtBE Concentrations in MW-1

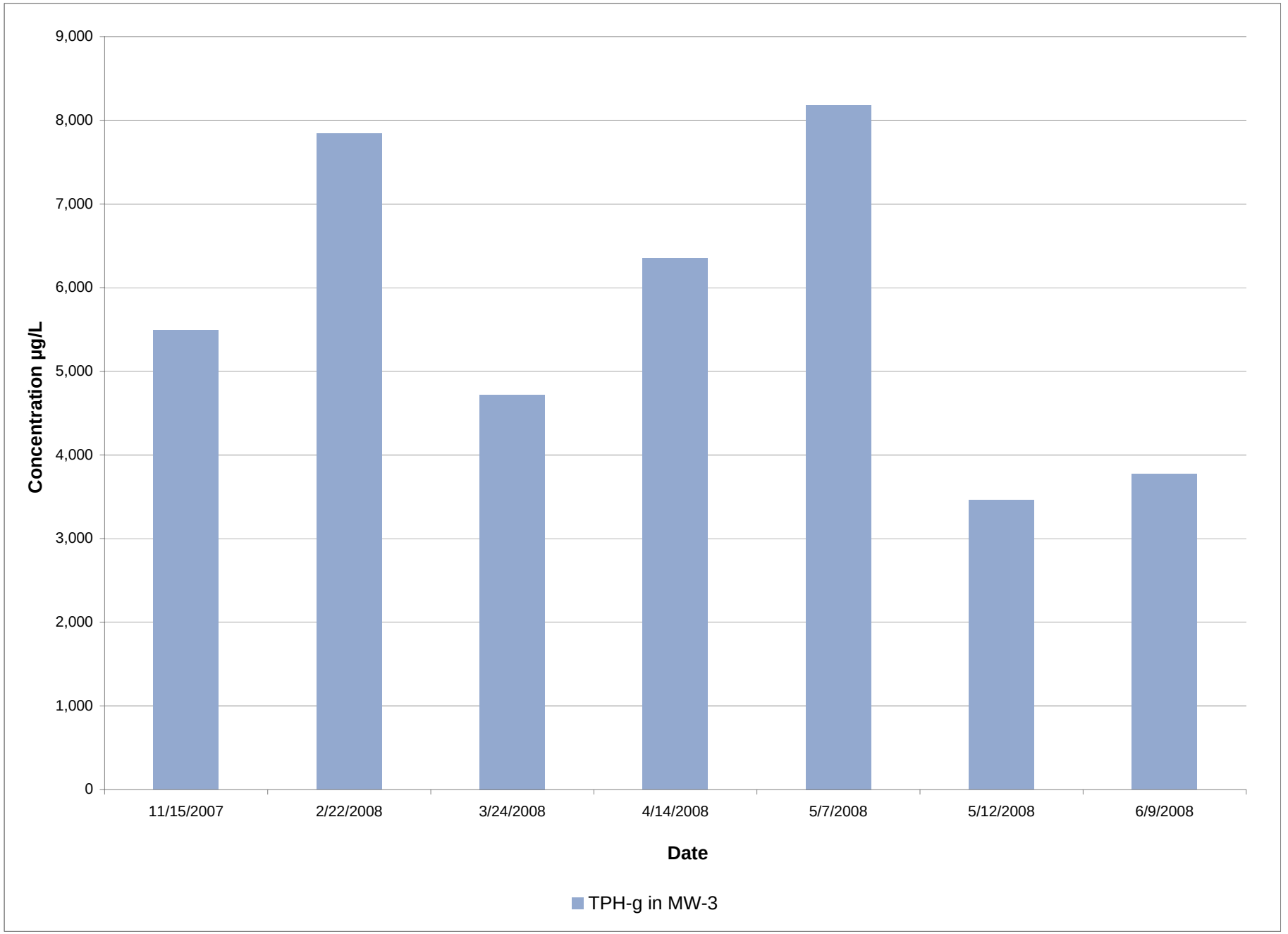


Figure 22: Comparison of TPH-g Concentrations in MW-3

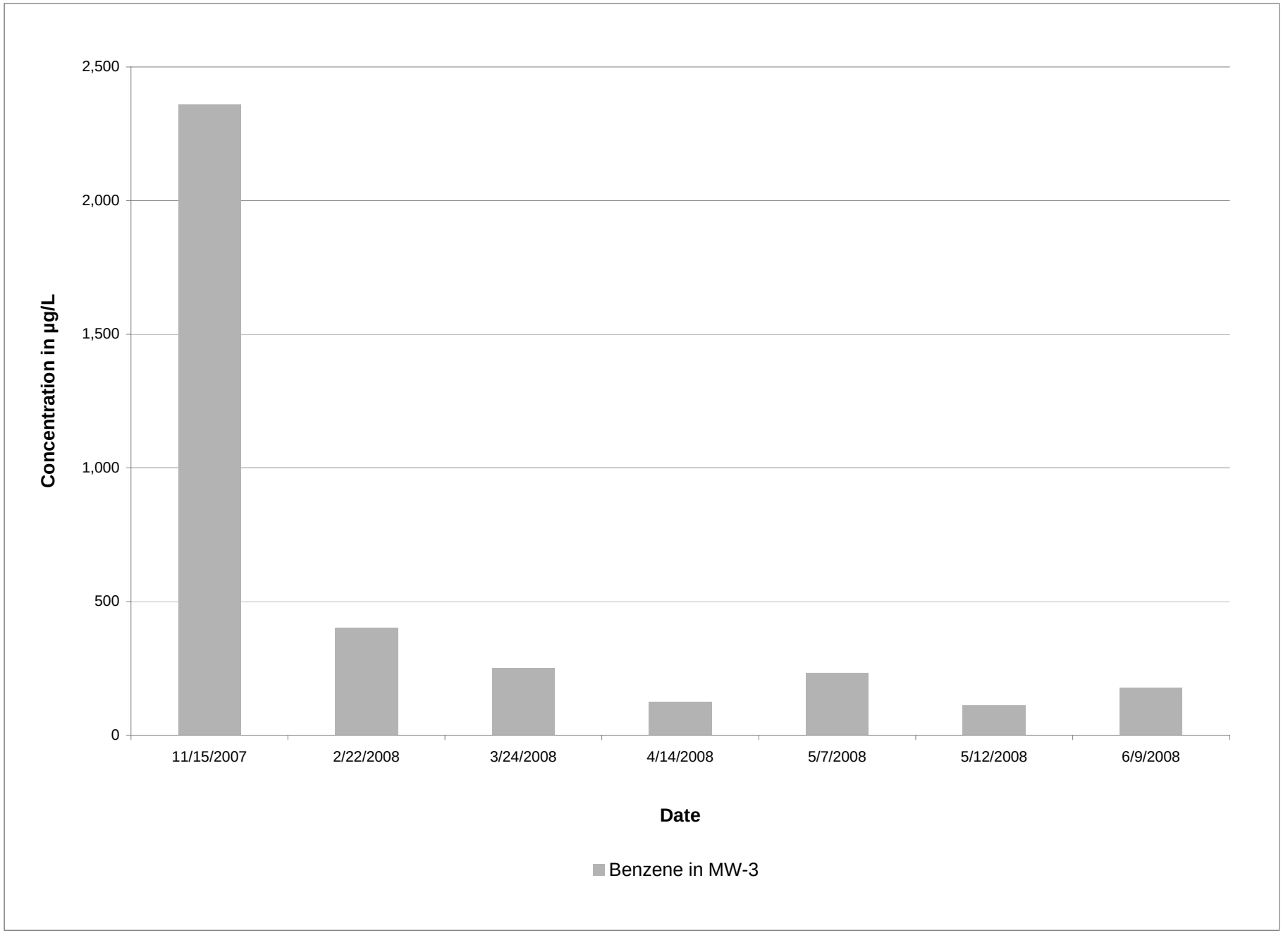


Figure 23: Comparison of Benzene Concentrations in MW-3

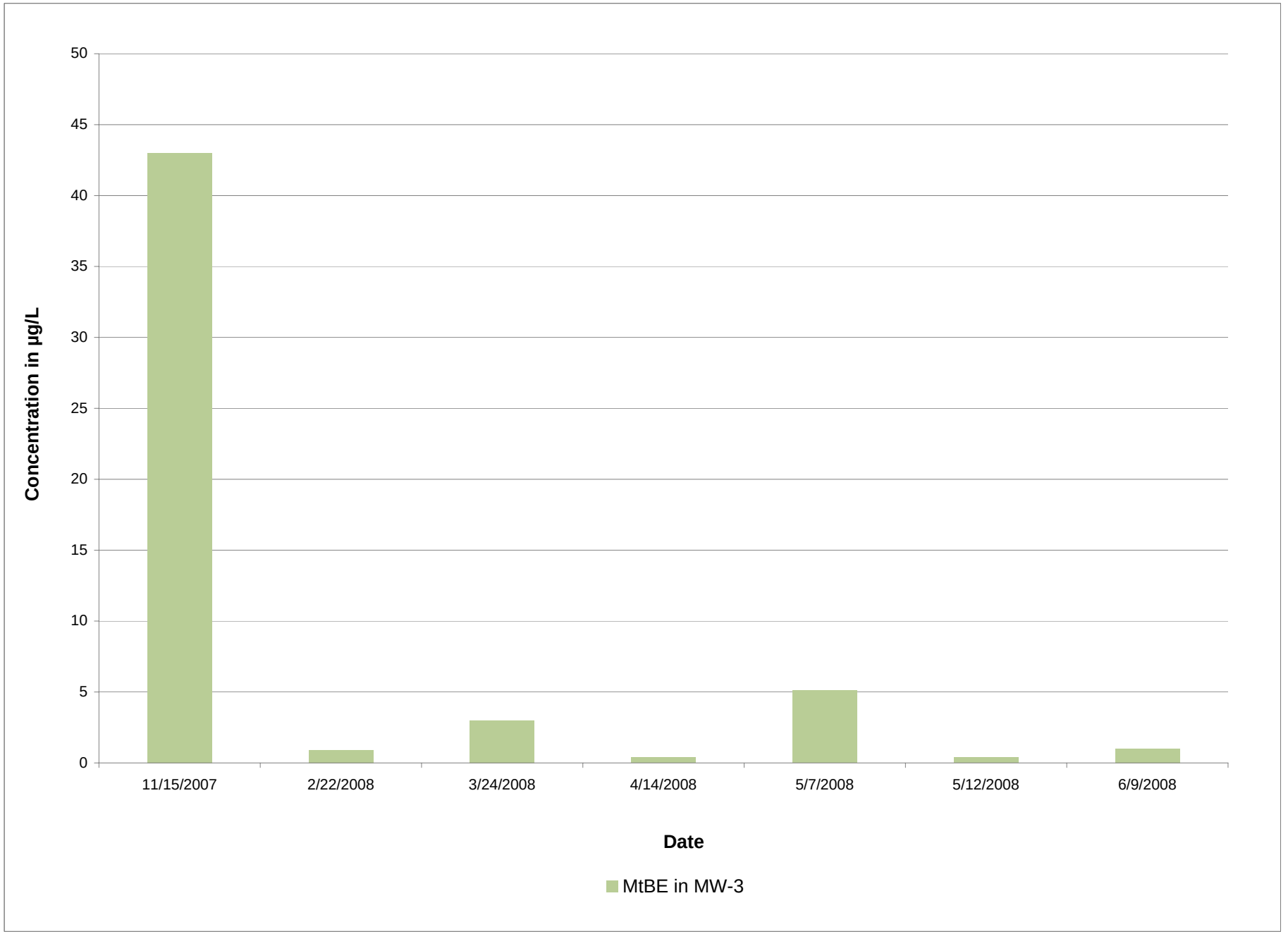


Figure 24: Comparison of MtBE Concentrations in MW-3

APPENDIX A

Standard Operating Procedures for

Conducting Groundwater Monitoring Activities

Standard Operating Procedures for Conducting Groundwater Monitoring Activities

Prior to measurement of groundwater depth at each well, equalization with the surrounding aquifer must be achieved. Initially, the well cap is removed and the pressure is allowed to dissipate, creating a more stable water table level within the well. After about 10-15 minutes, once the water level in the well stabilizes, the depth to groundwater is measured from the top of the casing to the nearest 0.01 foot using an electric sounder.

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

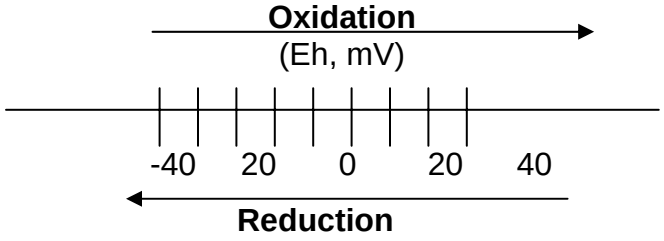
The pH of groundwater has an effect on the activity of microbial populations in the groundwater. The groundwater temperature affects the metabolic activity of bacteria. The groundwater EC is directly related to the concentration of total dissolved solids (TDS) in solution.

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 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 millivolt. 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 ^{o}C and 11 mg/L at 5 ^{o}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 advances far enough, the environment may become so strongly reduced that the

petroleum hydrocarbons 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.



Purging of wells continues until the parameters for DO, pH, temperature, EC, turbidity, and redox stabilize, or three casing volumes are purged.

Once stabilization occurs, the groundwater samples are 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} are measured colorimetrically using the Hach Colorimeter Model 890, 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.

For sampling purposes, after purging a disposable polyethylene bailer is used to collect sufficient samples from each monitoring well for laboratory analyses. Groundwater samples are transferred into 40-mL VOA vials and preserved with hydrochloric acid. The vials are sealed to prevent development of air bubbles within the headspace. For TPH-d analysis, groundwater samples are collected using 1-L, amber, nonpreserved glass containers. Samples are placed in an ice-filled cooler and maintained at 4°C. A chain of custody form is prepared to be delivered with the samples, which are delivered promptly to a California state-certified analytical laboratory.

Appendix B

Table of Elevations and Coordinates of Monitoring Wells and Field Measurements of Physical, Chemical, and Biodegradation Parameters of Groundwater

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
FD-C	2109299.85	6064039.85	39.35	Notch on north side of PVC
			40.25	Punch north rim of box
FD-E	2109281.13	6064067.87	40.06	Notch on north side of PVC
			40.55	Punch north rim of box
FD-W	2109314.99	6064017.59	39.16	Notch on north side of PVC
			39.95	Punch north rim of box
MW-1	2109338.74	6064025.97	40.11	Notch on north side of PVC
			40.76	Punch north rim of box
MW-2	2109383.20	6064073.06	40.71	Notch on north side of PVC
			41.61	Punch north rim of box
MW-3	2109351.11	6064064.63	40.91	Notch on north side of PVC
			41.68	Punch north rim of box
MW-4	2109278.18	6064076.40	40.01	Notch on north side of PVC
			40.67	Punch north rim of box
MW-5	2109410.84	6064058.46	41.16	Notch on south side of PVC
			41.60	Punch south rim of box
MW-6	2109320.46	6064105.06	40.92	Notch on north side of PVC
			41.52	Punch north rim of box
MW-7	2109368.19	6064025.54	39.94	Notch on north side of PVC
			40.54	Punch north rim of box
MW-8	2109321.68	6064000.46	39.38	Notch on north side of PVC
			39.72	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	6063957.39	36.71	Notch on north side of PVC
			37.70	Punch north rim of box
MW-11	2109125.26	6064007.52	**XXXX**	**NO ELEVATION , BOAT ON TOP**
MW-12	2109121.85	6063865.00	36.84	Notch on north side of PVC
			36.87	

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.

Kier 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. # 203
SAN RAMON, CA. 94583

MAY 20, 2005

ATTN: ELENA

3609 INTERNATIONAL BLVD.
OAKLAND CA.

SURVEY REPORT

CONTROLING POINTS FRON 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

SURVEY REPORT
3609 INTERNATIONAL BLVD
OAKLAND CA.

HARRINGTON SURVEYS INC.
2278 LARKEY LN.
WALNUT CREEK CA. 94597

05\20\05

PT#	NORTH	EAST	ELEV	LATITUDE N.	LONGTIDUDE W.	DESCRIPTION
13	2109276.287	6064076.999	40.34	37°46'30.41532"	122°13'18.24871"	MW-4R NOTCH TOP 2" PVC
14	2109276.63	6064076.962	40.70			MW-4R PUNCH N. RIM
15	2109277.144	6064076.433	40.68			MW-4R PAVINC

DATE: 8/17/05
Job No. 07-014
DATE OF SURVEY 3/8/07
INSTRUMENTS: Leica SR530 L530, Leica - TCRA 1102 - Total Station, Leica - NA 3003 - Level

TABLE OF ELEVATIONS & COORDINATES

3609 International Blvd., Oakland

SOMA ENVIRONMENTAL, PROJECT # 2331

WELL ID #	NORTHING (FT.) / LATITUDE (D.M.S.)	EASTING (FT.) / LONGITUDE (D.M.S.)	ELEVATION (FT.)	DESCRIPTION
EX-1	2109341.80	6064034.13	40.51	Casing
			40.93	Vault
EX-1 DECIMAL DEGREES	37.7752931	-122.2218880		
LOCAL CONTROL				
MW-7	2109368.62	6064025.48	39.94	Casing
	37.7753663	-122.2219197	40.54	Vault
MW-8	2109321.68	6064000.47	39.38	Casing
	37.7752361	-122.2220033	39.72	Vault

NOTE
THE VALUES FOR EX-1 ARE DERIVED FROM LOCAL CONTROL BASED UPON CONTROL VALUES USED FROM THE PREVIOUS SITE SURVEY AS PROVIDED BY KIER AND WRIGHT DATED 08-27-2002

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 0N HEGENBERGER ROAD FOR 0.5MI TO A SITE ROAD RIGHT BALDWIN ST. TURN RIGHT AND GO SOUTH ON BALDWIN ST. FOR 0.35MI TO A T-INTERSECTION, 85TH AVE. FOR 0.1MI TO A SIDE ROAD RIGHT, RAILROAD AVE. TURN RIGHT AND GO SOUTH ON RAILROAD AVE. FOR 0.1MI TO THE STATION ON THE LEFT, EAST, SIDE OF THE ROAD IN A LARGE CONCRETE HEADWALL FOR A CULVERT.

Coordinate values are based on the California Coordinate System, Zone III NAD 83 Datum.
Elevation =14.20 FEET NAVD88 Datum

LICENSED LAND SURVEYOR
JOSEPH M. BRAJKOVICH
No. 5254
Exp. 12-31-07
STATE OF CALIFORNIA

PLS Surveys, Inc.
2220 Livingston Street, Suite 202
Oakland, CA 94606
510.261.0900

PRINTED: 3/19/2007
9:24 AM

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-1	**Project No.:**	2331
Casing Diameter:	2 inch	**Address:**	Tony's Express Auto Service
Depth of Well:	30.00 ft		3609 International Blvd
Top of Casing Elevation:	40.11 ft		Oakland, CA
Depth to Groundwater:	12.09 ft	**Date:**	May 7, 2008
Groundwater Elevation:	28.10 ft	**Sampler:**	Lizzie Hightower
Water Column Height:	17.91 ft		Eric Gassner-Wollwage
Purged Volume:	9 gallons		

Purging Method: Bailer ☐ Pump ☑

Sampling Method: Bailer ☑ Pump ☐

Color: No ☐ Yes ☑ Describe Cloudy

Sheen: No ☑ Yes ☐ Describe

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)
10:43	Started purging well									
10:44	3	0.55	6.59	19.54	326	84.8	-100.8			
10:45	6	0.73	6.69	19.93	298	999	-166.4			
10:46	9	0.81	6.71	20.21	302	361	-164.3			
10:49	Sampled							1.22	0	0

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-2	**Project No.:**	2331
Casing Diameter:	4 inch	**Address:**	Tony's Express Auto Service
Depth of Well:	31.00 ft		3609 International Blvd
Top of Casing Elevation:	40.71 ft		Oakland, CA
Depth to Groundwater:	11.81 ft	**Date:**	May 7, 2008
Groundwater Elevation:	28.90 ft	**Sampler:**	Lizzie Hightower
Water Column Height:	19.19 ft		Eric Gassner-Wollwage
Purged Volume:	24 gallons		

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)
10:19	Started purging well									
10:20	3	0.64	6.53	20.14	283	14.2	+20.9			
10:22	9	0.63	6.44	20.07	307	24.3	+18.2			
10:24	15	0.55	6.42	20.11	292	31.5	+17.1			
10:26	21	0.58	6.37	20.14	299	51.6	+6.5			
10:27	24	0.63	6.37	20.20	300	65.9	-3.5			
10:30	Sampled							0.15	0	0

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-3	**Project No.:**	2331
Casing Diameter:	4 inch	**Address:**	Tony's Express Auto Service
Depth of Well:	31.50 ft		3609 International Blvd
Top of Casing Elevation:	40.91 ft		Oakland, CA
Depth to Groundwater:	12.69 ft	**Date:**	May 7, 2008
Groundwater Elevation:	28.22 ft	**Sampler:**	Lizzie Hightower
Water Column Height:	18.81 ft		Eric Gassner-Wollwage
Purged Volume:	24 gallons		

Purging Method: Bailer ☐ Pump ☑

Sampling Method: Bailer ☑ Pump ☐

Color: No ☑ Yes ☐ **Describe**

Sheen: No ☐ Yes ☑ **Describe** Rainbow sheen

Odor: No ☐ Yes ☒ **Describe** petro

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)
11:31	Started		purging well							
11:32	3	0.4	6.80	20.42	521	22.2	-227.8			
1134	9	0.13	6.78	20.44	521	19.1	-239.4			
11.36	15	0.09	6.93	20.39	512	55.2	-242.2			
1138	21	0.10	6.80	20.46	514	99.7	-242.1			
1139	24	0.10	6.78	20.52	520	151	-241.1			
1143	Sampled							3.15	0	0

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-4R	**Project No.:**	2331
Casing Diameter:	2 inch	**Address:**	Tony's Express Auto Service
Depth of Well:	26.00 ft		3609 International Blvd
Top of Casing Elevation:	40.34 ft		Oakland, CA
Depth to Groundwater:	12.17 ft	**Date:**	May 6~~-X~~ 2008
Groundwater Elevation:	28.17 ft	**Sampler:**	Lizzie Hightower
Water Column Height:	13.83 ft		Eric Gassner-Wollwage
Purged Volume:	9 gallons		

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)
12:26	Started pumping well									
12:27	3	0.23	7.05	18.96	559	67.3	-78.4			
12:28	6	0.22	6.97	18.93	566	108	-96.2			
12:29	9	0.23	6.99	19.04	565	362	-111.6			
12:32	Sampled							0	0	0

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-5	**Project No.:**	2331
Casing Diameter:	2 inch	**Address:**	Tony's Express Auto Service
Depth of Well:	26.20 ft		3609 International Blvd
Top of Casing Elevation:	41.16 ft		Oakland, CA
Depth to Groundwater:	12.06 ft	**Date:**	May 6-X 2008
Groundwater Elevation:	29.10 ft	**Sampler:**	Lizzie Hightower
Water Column Height:	14.14 ft		Eric Gassner-Wollwage
Purged Volume:	9 gallons		

Purging Method: Bailer ☐ Pump ☑

Sampling Method: Bailer ☑ Pump ☐

Color: No ☑ Yes ☐ **Describe** _____

Sheen: No ☑ Yes ☐ **Describe** _____

Odor: No ☑ Yes ☐ **Describe** _____

Field Measurements:

Time	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)
13:15	Started purging well									
13:16	3	0.20	6.68	20.83	695	38.0	-56.9			
13:17	6	0.17	6.69	20.47	668	36.3	-89.1			
13:18	9	0.20	6.73	20.57	651	32.5	-128.9			
13:21	Sampled							0.05	0	9

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-6	**Project No.:**	2331
Casing Diameter:	2 inch	**Address:**	Tony's Express Auto Service
Depth of Well:	25.00 ft		3609 International Blvd
Top of Casing Elevation:	40.92 ft		Oakland, CA
Depth to Groundwater:	12.47 ft	**Date:**	May 7, 2008
Groundwater Elevation:	28.45 ft	**Sampler:**	Lizzie Hightower
Water Column Height:	12.53 ft		Eric Gassner-Wollwage
Purged Volume:	6 gallons		

Purging Method: Bailer ☐ Pump ☑

Sampling Method: Bailer ☑ Pump ☐

Color: No ☐ Yes ☑ Describe Gray

Sheen: No ☐ Yes ☐ Describe Slight rainbow

Odor: No ☐ Yes ☐ Describe petro

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)
11:08	Started purging				well					
11:09	3	0.49	6.72	19.46	644	63.4	-226.0			
11:10	6	0.46	6.67	19.59	623	155	-213.6			
11:14	sampled							1.36	0	0

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-7	**Project No.:**	2331
Casing Diameter:	2 inch	**Address:**	Tony's Express Auto Service
Depth of Well:	26.00 ft		3609 International Blvd
Top of Casing Elevation:	39.94 ft		Oakland, CA
Depth to Groundwater:	11.31 ft	**Date:**	May 6~~7~~ 2008
Groundwater Elevation:	28.63 ft	**Sampler:**	Lizzie Hightower
Water Column Height:	14.69 ft		Eric Gassner-Wollwage
Purged Volume:	9 gallons		

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)
12:50	Started purging well									
12:51	3	0.23	6.92	20.47	588	33.2	-38.8			
12:52	6	0.16	6.84	20.34	622	59.1	-39.4			
12:53	9	0.74	6.86	21.14	600	1000	-35.2			
12:56	Sampled							0.31	0	17

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-8	**Project No.:**	2331
Casing Diameter:	2 inch	**Address:**	Tony's Express Auto Service
Depth of Well:	26.50 ft		3609 International Blvd
Top of Casing Elevation:	39.38 ft		Oakland, CA
Depth to Groundwater:	11.41 ft	**Date:**	May 6~~X~~ 2008
Groundwater Elevation:	27.97 ft	**Sampler:**	Lizzie Hightower
Water Column Height:	15.09 ft		Eric Gassner-Wollwage
Purged Volume:	9 gallons		

Purging Method: Bailer ☐ Pump ☑

Sampling Method: Bailer ☑ Pump ☐

Color: No ☐ Yes ☑ Describe Very Slightly Cloudy

Sheen: No ☑ Yes ☐ Describe

Odor: No ☐ Yes ☑ Describe Very Slight Petro

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)
11:53	Started purging well									
11:54	3	0.20	7.80	19.75	630	67.4	-204.5			
11:55	6	0.10	7.65	19.43	622	150	-222.7			
11:56	9	0.08	7.60	19.49	621	197	-231.5			
11:59	Sampled							0.84	0	0

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-10	**Project No.:**	2331
Casing Diameter:	2 inch	**Address:**	Tony's Express Auto Service
Depth of Well:	23.40 ft		3609 International Blvd
Top of Casing Elevation:	36.71 ft		Oakland, CA
Depth to Groundwater:	10.19 ft	**Date:**	May 6~~-X~~ 2008
Groundwater Elevation:	26.52 ft	**Sampler:**	Lizzie Hightower
Water Column Height:	13.21 ft		Eric Gassner-Wollwage
Purged Volume:	6 gallons		

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)
11:22	Started purging well									
11:23	3	0.11	6.71	18.5	618	22.0	-65.1			
11:24	6	0.09	6.74	18.5	623	13.6	-99.9			
11:27	Sampled							0	0	0

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-11	**Project No.:**	2331
Casing Diameter:	_____ inch	**Address:**	Tony's Express Auto Service
Depth of Well:	_____ ft		3609 International Blvd
Top of Casing Elevation:	_____ ft		Oakland, CA
Depth to Groundwater:	_____ ft	**Date:**	May 6-7, 2008
Groundwater Elevation:	_____ ft	**Sampler:**	Lizzie Hightower
Water Column Height:	_____ ft		Eric Gassner-Wollwage
Purged Volume:	_____ gallons		
	Not purged		

Purging Method: Bailer ☐ Pump ☐

Sampling Method: Bailer ☐ Pump ☐ Not sampled

Color: No ☐ Yes ☐ **Describe** Unknown

Sheen: No ☐ Yes ☐ **Describe** Unknown

Odor: No ☐ Yes ☐ **Describe** Unknown

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)
Gate w/ access to well locked - unable to get to well. Did not take any field measurements or take a sample.										

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-12	**Project No.:**	2331
Casing Diameter:	4 inch	**Address:**	Tony's Express Auto Service
Depth of Well:	30.00 ft		3609 International Blvd
Top of Casing Elevation:	36.84 ft		Oakland, CA
Depth to Groundwater:	10.85 ft	**Date:**	May 6~~7~~ 2008
Groundwater Elevation:	25.99 ft	**Sampler:**	Lizzie Hightower
Water Column Height:	19.15 ft		Eric Gassner-Wollwage
Purged Volume:	24 gallons		

Purging Method: Bailer ☐ Pump ☑

Sampling Method: Bailer ☑ Pump ☐

Color: No ☑ Yes ☐ **Describe**

Sheen: No ☑ Yes ☐ **Describe**

Odor: No ☐ Yes ☑ **Describe** Very 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)
10:52	Started purging well									
10:53	3	1.22	6.86	19.42	205	12.2	-214.4			
10:55	9	0.61	6.81	19.44	257	14.7	-221.1			
10:57	15	0.28	6.84	19.50	440	8.46	-223.1			
10:59	21	0.33	6.80	19.56	444	11.0	-218.7			
11:00	24	0.39	6.78	19.56	423	11.5	-215.9			
11:04	Sampled							1.42	0	0

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well No.:	French Drain F.D. Center	**Project No.:**	2331
Casing Diameter:	4 inch	**Address:**	Tony's Express Auto Service
Depth of Well:	NM ft		3609 International Blvd
Top of Casing Elevation:	39.35 ft		Oakland, CA
Depth to Groundwater:	14.95 ft	**Date:**	May 6-X, 2008
Groundwater Elevation:	24.40 ft	**Sampler:**	Lizzie Hightower
Water Column Height:	NM ft		Eric Gassner-Wollwage
Purged Volume:	— gallons		
	Not purged		

Purging Method: Bailer ☐ Pump ☐

Sampling Method: Bailer ☐ Pump ☐ Not sampled

Color: No ☐ Yes ☐ **Describe** Unknown

Sheen: No ☐ Yes ☐ **Describe** Unknown

Odor: No ☐ Yes ☐ **Describe** Unknown

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 is part of the remedial system, only water measurement taken.

ENVIRONMENTAL ENGINEERING, INC

Well No.:	French Drain F.D. East	**Project No.:**	2331
Casing Diameter:	4 inch	**Address:**	Tony's Express Auto Service
Depth of Well:	NM ft		3609 International Blvd
Top of Casing Elevation:	40.06 ft		Oakland, CA
Depth to Groundwater:	12.42 ft	**Date:**	May 6-~~7~~2008
Groundwater Elevation:	27.64 ft	**Sampler:**	Lizzie Hightower
Water Column Height:	NM ft		Eric Gassner-Wollwage
Purged Volume:	— gallons		
	Not purged		

Purging Method: Bailer ☐ Pump ☐

Sampling Method: Bailer ☐ Pump ☐ Not sampled

Color: No ☐ Yes ☐ Describe Unknown

Sheen: No ☐ Yes ☐ Describe Unknown

Odor: No ☐ Yes ☐ Describe Unknown

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 East Riser is part of the French Drain, however, no active pump is within riser. Only water measurement taken.

ENVIRONMENTAL ENGINEERING, INC

Well No.:	French Drain F.D. West	**Project No.:**	2331
Casing Diameter:	4 inch	**Address:**	Tony's Express Auto Service
Depth of Well:	NM ft		3609 International Blvd
Top of Casing Elevation:	39.16 ft		Oakland, CA
Depth to Groundwater:	12.01 ft	**Date:**	May 6~~X~~ 2008
Groundwater Elevation:	27.15 ft	**Sampler:**	Lizzie Hightower
Water Column Height:	NM ft		Eric Gassner-Wollwage
Purged Volume:	— gallons		

Not purged

Purging Method: Bailer ☐ Pump ☐

Sampling Method: Bailer ☐ Pump ☐ Not sampled

Color: No ☐ Yes ☐ Describe Unknown

Sheen: No ☐ Yes ☐ Describe Unknown

Odor: No ☐ Yes ☐ Describe Unknown

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 west Riser is part of the remedial system, only water measurement taken.

ENVIRONMENTAL ENGINEERING, INC

Well No.:	EX-1	**Project No.:**	2331
Casing Diameter:	4 inch	**Address:**	Tony's Express Auto Service
Depth of Well:	NM ft		3609 International Blvd
Top of Casing Elevation:	40.51 ft		Oakland, CA
Depth to Groundwater:	17.38 ft	**Date:**	May 6-X 2008
Groundwater Elevation:	23.13 ft	**Sampler:**	Lizzie Hightower
Water Column Height:	NM ft		Eric Gassner-Wollwage
Purged Volume:	— gallons		

Not purged

Purging Method: Bailer ☐ Pump ☐

Sampling Method: Bailer ☐ Pump ☐ Not sampled

Color: No ☐ Yes ☐ **Describe** Unknown

Sheen: No ☐ Yes ☐ **Describe** Unknown

Odor: No ☐ Yes ☐ **Describe** Unknown

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: Extraction well EX-1 is part of the remedial system

Appendix C

Chain of Custody Form and Laboratory Report

CHAIN OF CUSTODY FORM

Page 1 of 1

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

PAL
Login# 805 0010

Project No: 2331	Sampler: Lizzie Hightower / Eric Gassner-Wollwage	Analyses/Method
Project Name: 3609 International Blvd Oakland	Report To: Joyce Bobek	TPH-g, BTEX, MtBE 8260B
	Company: SOMA Environmental Engineering, Inc.	
Turnaround Time: Standard	Tel: 925-734-6400 Fax: 925-734-6401	

Lab No.	Sample ID	Sampling Date/Time: Date	Time	Matrix: Soil	Water	Waste	# of Containers	Preservatives: HCL	H_2So4	HNO_3	ICE	Field Notes	TPH-g, BTEX, MtBE 8260B
	MW-1	5/7/08	10:49		X		3 VOAS	X			X	Grab Sample	X
	MW-2	5/7/08	10:30		X		3 VOAS	X			X		X
	MW-3	5/7/08	11:43		X		3 VOAS	X			X		X
	MW-4R	5/6/08	12:32		X		3 VOAS	X			X		X
	MW-5	5/6/08	13:21		X		3 VOAS	X			X		X
	MW-6	5/7/08	11:14		X		3 VOAS	X			X		X
	MW-7	5/6/08	12:56		X		3 VOAS	X			X		X
	MW-8	5/6/08	11:59		X		3 VOAS	X			X		X
	MW-10	5/6/08	11:27		X		3 VOAS	X			X		X
	~~MW-11~~				~~X~~		~~3 VOAS~~	~~X~~			~~X~~		
	MW-12	5/6/08	11:04		X		3 VOAS	X			X	Grab Sample	X

Sampler Remarks:	Relinquished by:	Date/Time:	Received by:	Date/Time:
EDF REQUIRED	E. Hightower	5/7/08 13:30	V. Vasquez	5/7/08 1330

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

02 June 2008

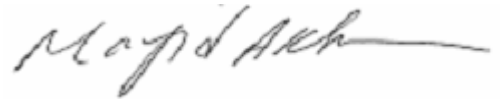
Mansour Sepehr
SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton, CA 94588

RE: 3609 International Blvd, Oakland

Work Order Number: 8050010

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.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2331	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	02-Jun-08 19:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	8050010-01	Water	07-May-08 10:49	07-May-08 13:30
MW-2	8050010-02	Water	07-May-08 10:30	07-May-08 13:30
MW-3	8050010-03	Water	07-May-08 11:43	07-May-08 13:30
MW-4R	8050010-04	Water	06-May-08 12:32	07-May-08 13:30
MW-5	8050010-05	Water	06-May-08 13:21	07-May-08 13:30
MW-6	8050010-06	Water	07-May-08 11:14	07-May-08 13:30
MW-7	8050010-07	Water	06-May-08 12:56	07-May-08 13:30
MW-8	8050010-08	Water	06-May-08 11:59	07-May-08 13:30
MW-10	8050010-09	Water	06-May-08 11:27	07-May-08 13:30
MW-12	8050010-10	Water	06-May-08 11:04	07-May-08 13:30

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2331	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	02-Jun-08 19:07

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (8050010-01RE1) Water Sampled: 07-May-08 10:49 Received: 07-May-08 13:30									
Gasoline (C6-C12)	**4470**	100	ug/l	2	BE81501	08-May-08	14-May-08	EPA 8260B	
Benzene	**26.1**	1.00	"	"	"	"	"	"	
Ethylbenzene	**57.6**	1.00	"	"	"	"	"	"	
m&p-Xylene	**394**	4.00	"	"	"	"	"	"	
o-xylene	**70.6**	1.00	"	"	"	"	"	"	
Toluene	**14.8**	4.00	"	"	"	"	"	"	
MTBE	**10.6**	1.00	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*118 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*113 %*		*70-130*		"	"	"	
MW-2 (8050010-02) Water Sampled: 07-May-08 10:30 Received: 07-May-08 13:30									
Gasoline (C6-C12)	**1510**	50.0	ug/l	1	BE81501	08-May-08	12-May-08	EPA 8260B	
Benzene	**3.80**	0.500	"	"	"	"	"	"	
Ethylbenzene	**135**	0.500	"	"	"	"	"	"	
m&p-Xylene	**85.6**	2.00	"	"	"	"	"	"	
o-xylene	**6.58**	0.500	"	"	"	"	"	"	
Toluene	**5.55**	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*120 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*113 %*		*70-130*		"	"	"	
MW-3 (8050010-03RE1) Water Sampled: 07-May-08 11:43 Received: 07-May-08 13:30									
Gasoline (C6-C12)	**8180**	215	ug/l	4.3	BE81501	08-May-08	14-May-08	EPA 8260B	
Benzene	**232**	2.15	"	"	"	"	"	"	
Ethylbenzene	**208**	2.15	"	"	"	"	"	"	
m&p-Xylene	**769**	8.60	"	"	"	"	"	"	
o-xylene	**173**	2.15	"	"	"	"	"	"	
Toluene	**66.7**	8.60	"	"	"	"	"	"	
MTBE	**5.11**	2.15	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*115 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*120 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*113 %*		*70-130*		"	"	"	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2331	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	02-Jun-08 19:07

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4R (8050010-04) Water Sampled: 06-May-08 12:32 Received: 07-May-08 13:30									
Gasoline (C6-C12)	**68.9**	50.0	ug/l	1	BE81501	08-May-08	12-May-08	EPA 8260B	
Benzene	**3.12**	0.500	"	"	"	"	"	"	
Ethylbenzene	**0.650**	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	2.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*123 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*111 %*		*70-130*		"	"	"	
MW-5 (8050010-05) Water Sampled: 06-May-08 13:21 Received: 07-May-08 13:30									
Gasoline (C6-C12)	**300**	50.0	ug/l	1	BE81501	08-May-08	12-May-08	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	**0.520**	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*119 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*110 %*		*70-130*		"	"	"	
MW-6 (8050010-06) Water Sampled: 07-May-08 11:14 Received: 07-May-08 13:30									
Gasoline (C6-C12)	**8700**	100	ug/l	2	BE81501	08-May-08	14-May-08	EPA 8260B	
Benzene	**125**	1.00	"	"	"	"	"	"	
Ethylbenzene	**365**	1.00	"	"	"	"	"	"	
m&p-Xylene	**199**	4.00	"	"	"	"	"	"	
o-xylene	**10.3**	1.00	"	"	"	"	"	"	
Toluene	**10.3**	4.00	"	"	"	"	"	"	
MTBE	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*117 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*116 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*111 %*		*70-130*		"	"	"	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2331	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	02-Jun-08 19:07

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (8050010-07) Water Sampled: 06-May-08 12:56 Received: 07-May-08 13:30									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BE81501	08-May-08	13-May-08	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		*108 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*124 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*110 %*		*70-130*		"	"	"	
MW-8 (8050010-08) Water Sampled: 06-May-08 11:59 Received: 07-May-08 13:30									
Gasoline (C6-C12)	**3490**	50.0	ug/l	1	BE81501	08-May-08	13-May-08	EPA 8260B	
Benzene	**20.3**	0.500	"	"	"	"	"	"	
Ethylbenzene	**90.3**	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	2.00	"	"	"	"	"	"	
o-xylene	**0.770**	0.500	"	"	"	"	"	"	
Toluene	**2.38**	2.00	"	"	"	"	"	"	
MTBE	**21.8**	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*117 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*117 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*111 %*		*70-130*		"	"	"	
MW-10 (8050010-09) Water Sampled: 06-May-08 11:27 Received: 07-May-08 13:30									
Gasoline (C6-C12)	**2510**	50.0	ug/l	1	BE81501	08-May-08	13-May-08	EPA 8260B	
Benzene	**161**	0.500	"	"	"	"	"	"	
Ethylbenzene	**130**	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	2.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	**3.36**	2.00	"	"	"	"	"	"	
MTBE	**23.0**	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*121 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*111 %*		*70-130*		"	"	"	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2331	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	02-Jun-08 19:07

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-12 (8050010-10) Water Sampled: 06-May-08 11:04 Received: 07-May-08 13:30									
Gasoline (C6-C12)	**742**	50.0	ug/l	1	BE81501	08-May-08	13-May-08	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	**0.700**	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	2.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	**8.92**	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*		*70-130*		*"*	*"*	*"*	
Surrogate: Dibromofluoromethane		*117 %*		*70-130*		*"*	*"*	*"*	
Surrogate: Perdeuterotoluene		*111 %*		*70-130*		*"*	*"*	*"*	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2331	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	02-Jun-08 19:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

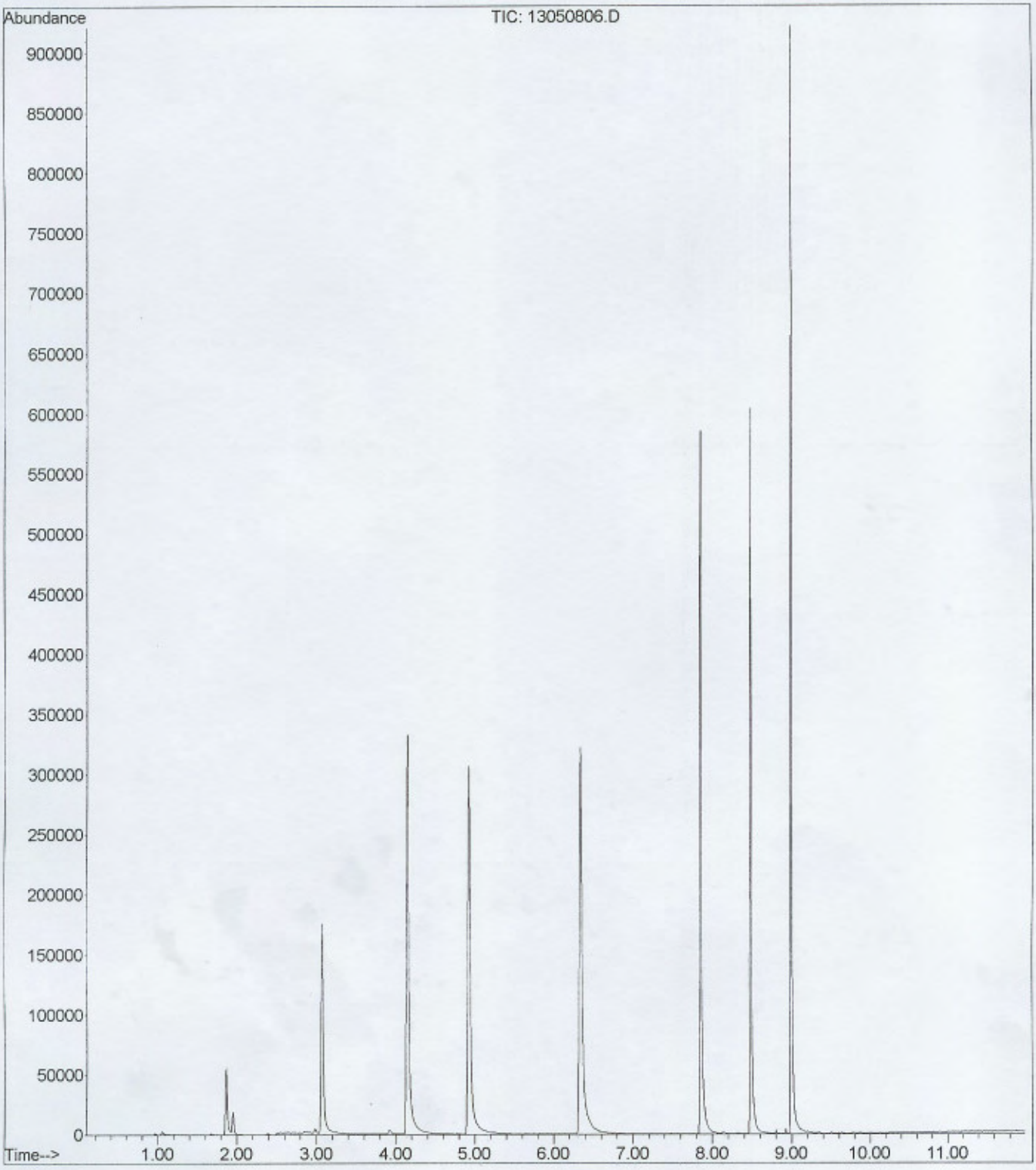
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BE81501 - EPA 5030 Water MS										
Blank (BE81501-BLK1)				Prepared & Analyzed: 15-May-08						
Surrogate: 4-Bromofluorobenzene	*52.1*		*ug/l*	*50.0*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*63.0*		*"*	*50.0*		*126*	*70-130*			
Surrogate: Perdeuterotoluene	*55.4*		*"*	*50.0*		*111*	*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 (BE81501-BS1)				Prepared & Analyzed: 15-May-08						
Surrogate: 4-Bromofluorobenzene	*48.2*		*ug/l*	*50.0*		*96.4*	*70-130*			
Surrogate: Dibromofluoromethane	*47.4*		*"*	*50.0*		*94.8*	*70-130*			
Surrogate: Perdeuterotoluene	*47.5*		*"*	*50.0*		*95.0*	*70-130*			
Gasoline (C6-C12)	2030	50.0	"	2000		102	70-130			
Benzene	88.5	0.500	"	100		88.5	70-130			
Toluene	86.0	2.00	"	100		86.0	70-130			
MTBE	77.8	0.500	"	100		77.8	70-130			
LCS Dup (BE81501-BSD1)				Prepared & Analyzed: 15-May-08						
Surrogate: 4-Bromofluorobenzene	*49.0*		*ug/l*	*50.0*		*98.0*	*70-130*			
Surrogate: Dibromofluoromethane	*47.6*		*"*	*50.0*		*95.2*	*70-130*			
Surrogate: Perdeuterotoluene	*49.1*		*"*	*50.0*		*98.2*	*70-130*			
Gasoline (C6-C12)	1990	50.0	"	2000		99.5	70-130	1.99	20	
Benzene	92.9	0.500	"	100		92.9	70-130	4.85	20	
Toluene	89.7	2.00	"	100		89.7	70-130	4.21	20	
MTBE	74.8	0.500	"	100		74.8	70-130	3.93	20	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2331	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	02-Jun-08 19:07

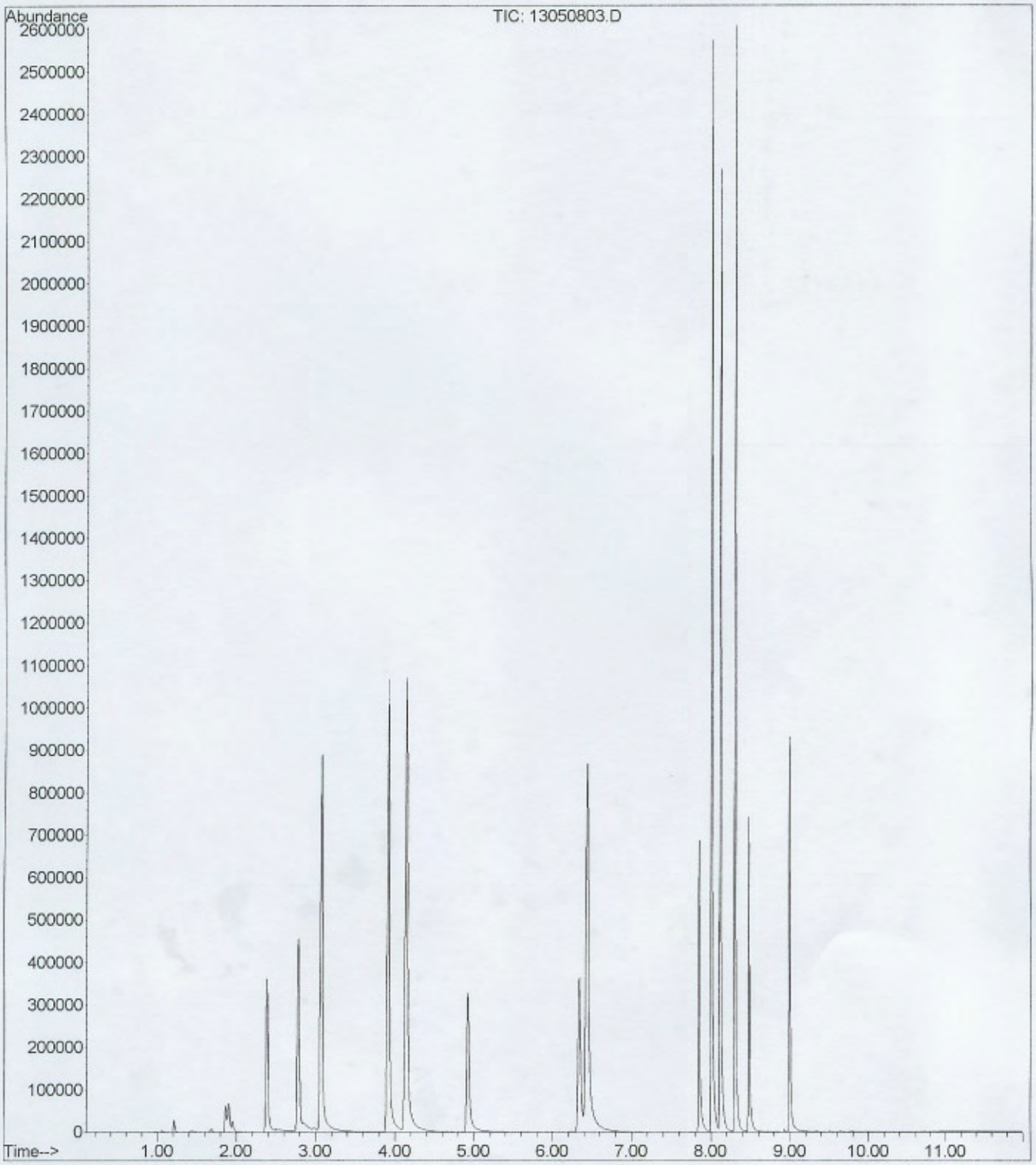
Notes and Definitions

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

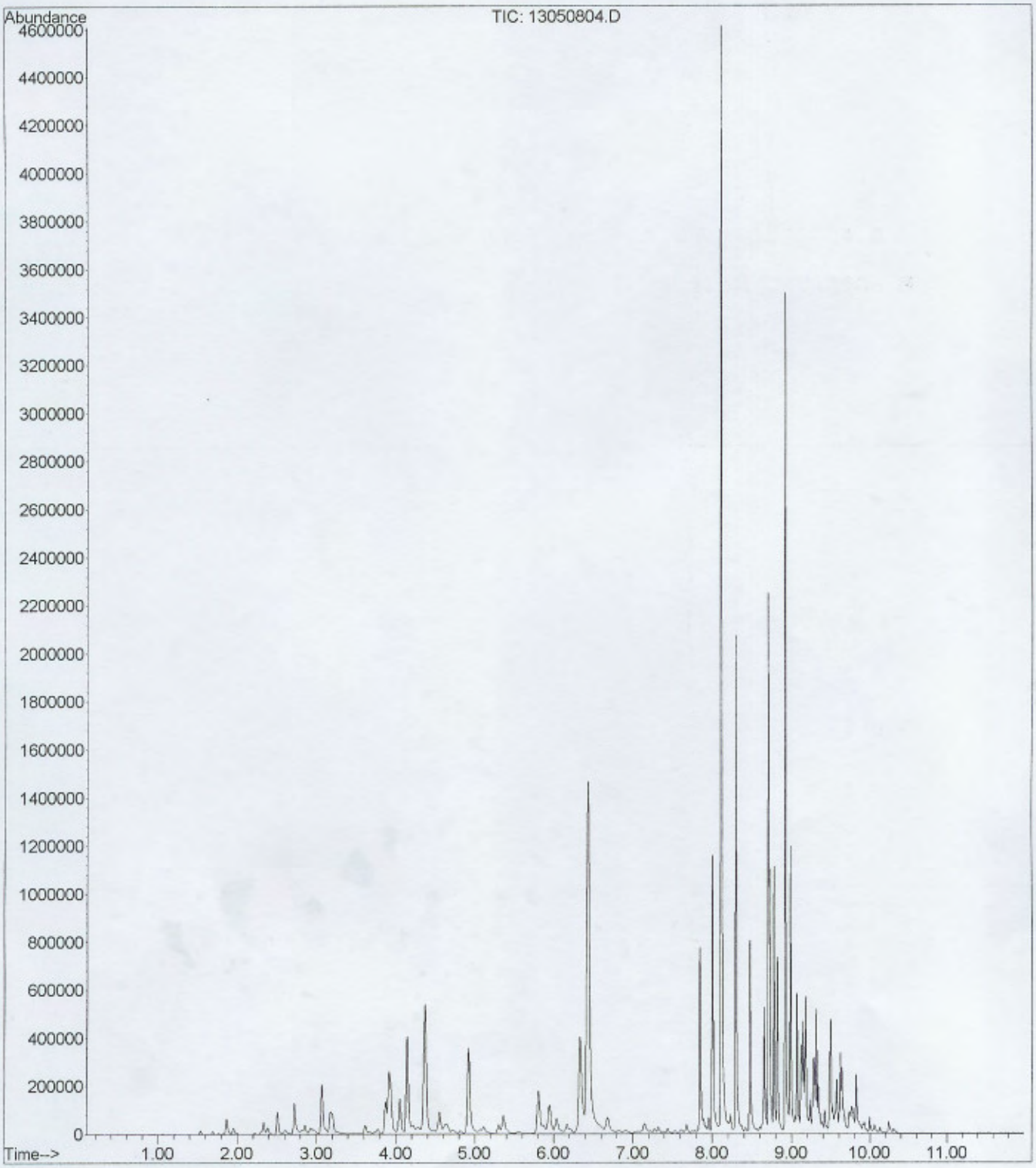
File :C:\MSDChem\1\DATA\2008-May-13-1734.b\13050806.D
Operator :
Acquired : 13 May 2008 8:01 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BE81501-BLK1
Misc Info :
Vial Number: 6



File : C:\MSDChem\1\DATA\2008-May-13-1734.b\13050803.D
Operator :
Acquired : 13 May 2008 6:42 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BE81501-BS1@voc
Misc Info :
Vial Number: 3



File :C:\MSDChem\1\DATA\2008-May-13-1734.b\13050804.D
Operator :
Acquired : 13 May 2008 7:09 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BE81501-BS1@gas
Misc Info :
Vial Number: 4



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# 8060008

Project No: 2333	Sampler: ERIC GASSNER-WOLLWAGE
Project Name: 3609 INTERNATIONAL BLVD. OAKLAND	Report To: JOYCE BOBEK
	Company: SOMA Environmental Engineering, Inc.
Turnaround Time: Standard	Tel: 925-734-6400 Fax: 925-734-6401

Analyses/Method: TPH-g, BTEX, MTBE 8260B

Lab No.	Sample ID	Date	Time	Soil	Water	Waste	# of Containers	HCL	H_2SO_4	HNO_3	ICE	Field Notes	TPH-g, BTEX, MTBE 8260B
	PSP-1	6/9/08	940		X		6 VOAs	X			X		
	GAC-1	↓	945		X		6 VOAs	X			X		
	INFLUENT	↓	950		X		6 VOAs	X			X		

Sampler Remarks:	Relinquished by:	Date/Time:	Received by:	Date/Time:
EDF output required	E. [signature]	6/10/08 15:12	[signature]	06/10/08 15:17

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

26 June 2008

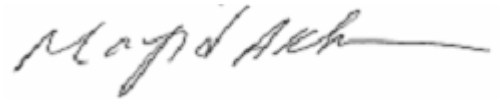
Mansour Sepehr
SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton, CA 94588

RE: 3609 International Blvd, Oakland

Work Order Number: 8060008

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.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2333	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	26-Jun-08 17:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PSP-1	8060008-01	Water	09-Jun-08 09:40	10-Jun-08 15:17
GAC-1	8060008-02	Water	09-Jun-08 09:45	10-Jun-08 15:17
Influent	8060008-03	Water	09-Jun-08 09:50	10-Jun-08 15:17

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2333	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	26-Jun-08 17:58

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PSP-1 (8060008-01) Water Sampled: 09-Jun-08 09:40 Received: 10-Jun-08 15:17									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BF81901	19-Jun-08	19-Jun-08	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		*89.6 %*		*70-130*	"	"	"	"	
Surrogate: Dibromofluoromethane		*119 %*		*70-130*	"	"	"	"	
Surrogate: Perdeuterotoluene		*98.4 %*		*70-130*	"	"	"	"	
GAC-1 (8060008-02) Water Sampled: 09-Jun-08 09:45 Received: 10-Jun-08 15:17									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BF81901	19-Jun-08	19-Jun-08	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		*90.6 %*		*70-130*	"	"	"	"	
Surrogate: Dibromofluoromethane		*120 %*		*70-130*	"	"	"	"	
Surrogate: Perdeuterotoluene		*98.0 %*		*70-130*	"	"	"	"	
Influent (8060008-03) Water Sampled: 09-Jun-08 09:50 Received: 10-Jun-08 15:17									
Gasoline (C6-C12)	**1920**	50.0	ug/l	1	BF81901	19-Jun-08	19-Jun-08	EPA 8260B	
Benzene	**129**	0.500	"	"	"	"	"	"	
Ethylbenzene	**3.64**	0.500	"	"	"	"	"	"	
m&p-Xylene	**160**	2.00	"	"	"	"	"	"	
o-xylene	**107**	0.500	"	"	"	"	"	"	
Toluene	**20.4**	2.00	"	"	"	"	"	"	
MTBE	**122**	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*		*70-130*	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*		*70-130*	"	"	"	"	
Surrogate: Perdeuterotoluene		*102 %*		*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.	Project:	3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number:	2333	**Reported:**
Pleasanton CA, 94588	Project Manager:	Mansour Sepehr	26-Jun-08 17:58

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2333	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	26-Jun-08 17:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

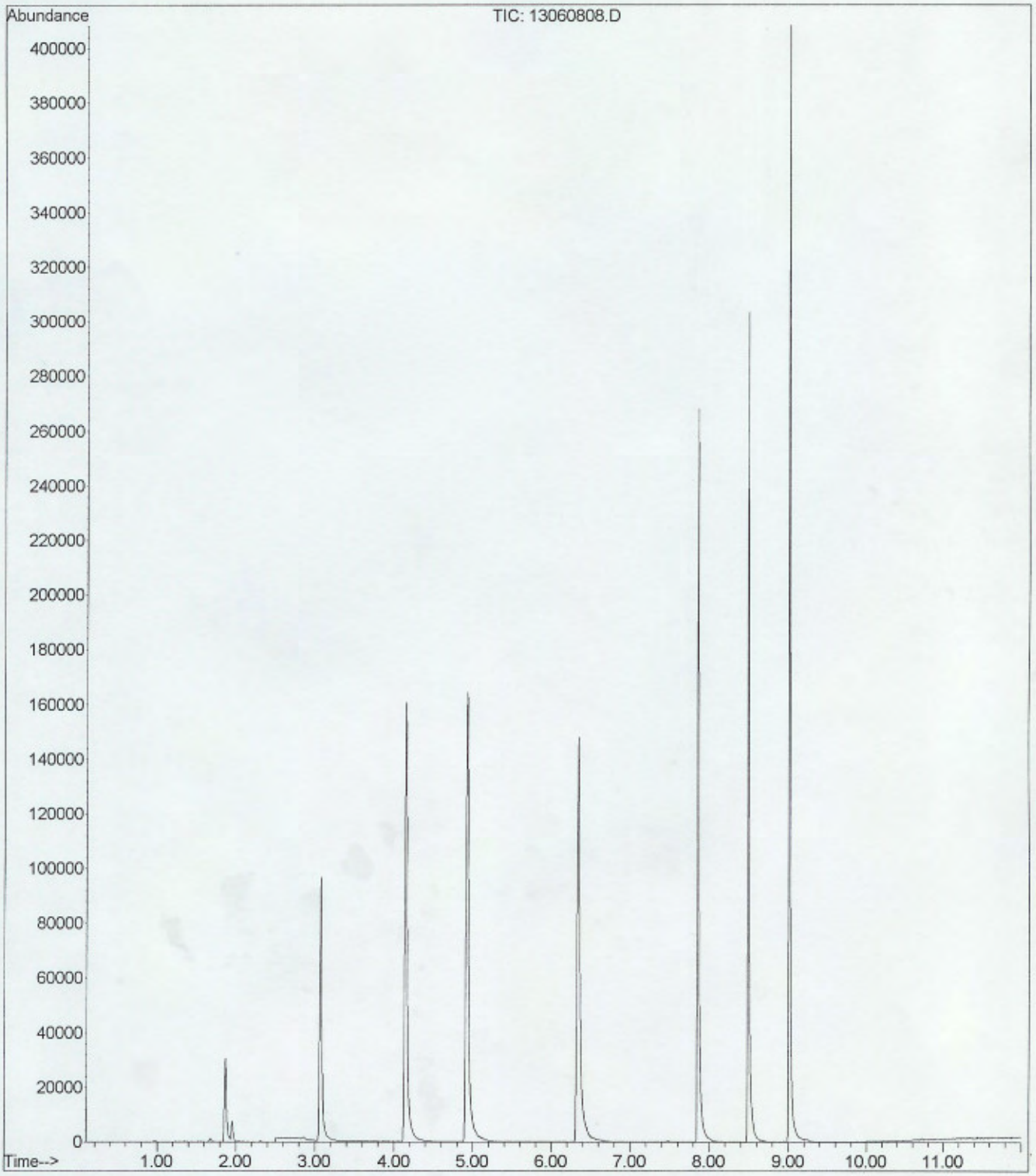
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BF81901 - EPA 5030 Water MS										
Blank (BF81901-BLK1)				Prepared & Analyzed: 19-Jun-08						
Surrogate: 4-Bromofluorobenzene	*44.4*		*ug/l*	*50.0*		*88.8*	*70-130*			
Surrogate: Dibromofluoromethane	*58.0*		*"*	*50.0*		*116*	*70-130*			
Surrogate: Perdeuterotoluene	*48.3*		*"*	*50.0*		*96.6*	*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 (BF81901-BS1)				Prepared & Analyzed: 19-Jun-08						
Surrogate: 4-Bromofluorobenzene	*50.6*		*ug/l*	*50.0*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*50.6*		*"*	*50.0*		*101*	*70-130*			
Surrogate: Perdeuterotoluene	*49.4*		*"*	*50.0*		*98.8*	*70-130*			
Gasoline (C6-C12)	2000	50.0	"	2000		100	70-130			
Benzene	106	0.500	"	100		106	70-130			
Toluene	105	2.00	"	100		105	70-130			
MTBE	102	0.500	"	100		102	70-130			
LCS Dup (BF81901-BSD1)				Prepared & Analyzed: 19-Jun-08						
Surrogate: 4-Bromofluorobenzene	*51.4*		*ug/l*	*50.0*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*50.1*		*"*	*50.0*		*100*	*70-130*			
Surrogate: Perdeuterotoluene	*49.2*		*"*	*50.0*		*98.4*	*70-130*			
Gasoline (C6-C12)	2050	50.0	"	2000		102	70-130	2.47	20	
Benzene	102	0.500	"	100		102	70-130	3.85	20	
Toluene	99.8	2.00	"	100		99.8	70-130	5.08	20	
MTBE	93.3	0.500	"	100		93.3	70-130	8.91	20	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2333	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	26-Jun-08 17:58

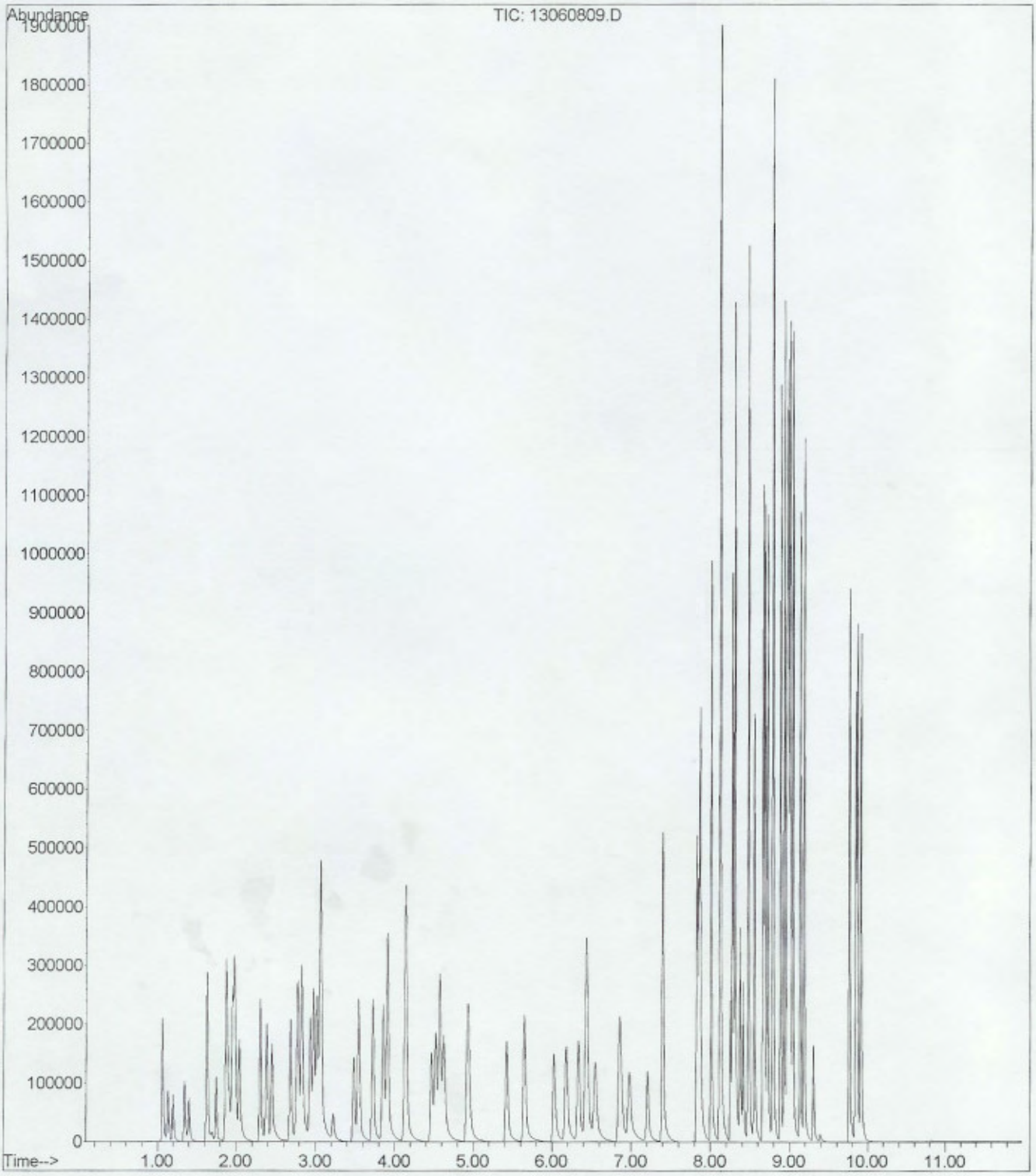
Notes and Definitions

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

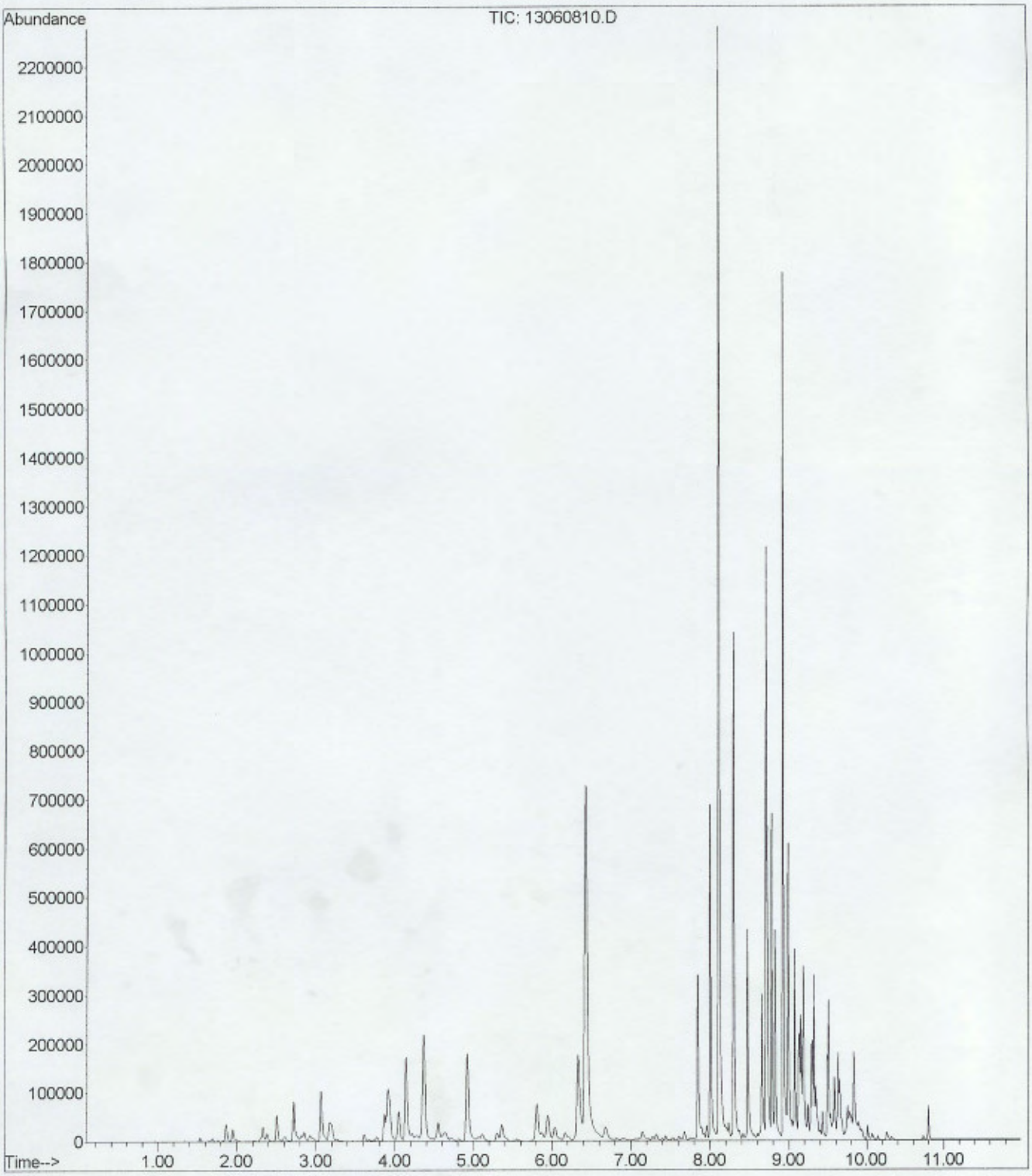
File :C:\MSDChem\1\DATA\2008-Jun-13-1602.b\13060808.D
Operator :
Acquired : 17 Jun 2008 3:40 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BF81901-BLK1
Misc Info :
Vial Number: 8



File :C:\MSDChem\1\DATA\2008-Jun-13-1602.b\13060809.D
Operator :
Acquired : 17 Jun 2008 4:05 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BF81901-BS1
Misc Info :
Vial Number: 9



File :C:\MSDChem\1\DATA\2008-Jun-13-1602.b\13060810.D
Operator :
Acquired : 17 Jun 2008 4:31 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BF81901-BS1
Misc Info :
Vial Number: 10



Appendix E

MPE Events 2008: Field Data Sheets

Golden Gate Remediation Technology

SITE: Tony's Express Auto Service PERSONNEL: J A
ADDRESS: 3609 International Blvd., Oakland
PROJECT #: 2335

MTS OPERATIONAL DATA

DATE	TIME	OXIDIZER TEMPERATURE (F)	PUMP/AIR TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	TOTAL FLOW (SCFM)	DILUTION FLOW (SCFM)	WELL FLOW (SCFM)	INFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER
3/24/2008	945	begin at MW-1 and MW-3; sampled MW-1 and MW-3								
	1045	1712	169	26.4	27.5	30	0	30	1,909	250
	1130	1674	171	26.3	27.4	31	0	31	1,434	487
	1230	1667	172	26.2	27.3	33	0	33	1,456	670
	1330	1646	171	26.2	27.3	33	0	33	1,200	903
	1430	1642	172	26.1	27.3	33	0	33	961	1,130
	1530	1634	173	25.9	27.1	36	0	36	833	1,347
	1630	1628	172	25.8	27.1	36	0	36	735	1,561
	1730	1622	173	25.7	27	38	0	38	681	1,771
3/25/2008	800	1569	169	25.1	26.6	44	0	44	In = 420; Eff = 1	4,257
	900	1572	170	25.1	26.5	46	0	46	406	4,406
	1000	1572	171	25	26.4	47	0	47	406	4,530
	1100	1563	171	25.1	26.4	47	0	47	384	4,669
	1200	1561	171	25.1	26.4	47	0	47	373	4,823
	1400	1555	171	25	26.4	47	0	47	380	5,127
	1600	1549	171	24.8	26.4	47	0	47	376	5,429
	1630	1549	172	24.7	26.3	49	0	49	388	5,479
	1730	1550	170	24.7	26.3	49	0	49	400	5,580
3/26/2008	700	1550	170	24.7	26.3	49	0	49	400	7,382
		system shutdown @ 0700 due to generator failure; engineer called to repair								
	1600	restart								

P. O. Box 12072, Pleasanton, CA 94588 (925) 847-0684

Golden Gate Remediation Technology

SITE: Tony's Express Auto Service
ADDRESS: 3609 International Blvd., Oakland
PROJECT #: 2335

PERSONNEL: J A

MTS OPERATIONAL DATA

DATE	TIME	OXIDIZER TEMPERATURE (F)	PUMP/AIR TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	TOTAL FLOW (SCFM)	DILUTION FLOW (SCFM)	WELL FLOW (SCFM)	INFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER
	1700	1500	170	24.8	26	54	0	54	633	7,382
3/27/2008	800	1493	169	24.2	25.8	57	0	57	286	9,425
	900	1504	168	24	25.5	62	0	62	296	9,551
	1000	1500	171	23.9	25.5	62	0	62	296	9,646
	1430	1494	173	24	25.6	60	0	60	230	10,195
	1530	1480	171	24	25.6	60	0	60	345	10,283
	1630	1509	171	23.8	25.4	63	0	63	325	10,436
3/28/2008	900	1483	169	23.4	25.3	65	0	65	282	12,509
	1000	1492	171	23.3	25.1	68	0	68	292	12,601
	1300	1481	169	23.4	25.2	66	0	66	215	12,960
		end at MW-1 and MW-3; sampled MW-1 and MW-3								

P. O. Box 12072, Pleasanton, CA 94588 (925) 847-0684

Golden Gate Remediation Technology

SITE: Tony's Express Auto Service PERSONNEL: J A
ADDRESS: 3609 International Blvd., Oakland
PROJECT #: 2335

MTS OPERATIONAL DATA

DATE	TIME	OXIDIZER TEMPERATURE (F)	PUMP/AIR TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	TOTAL FLOW (SCFM)	DILUTION FLOW (SCFM)	WELL FLOW (SCFM)	INFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER
4/14/2008	1000	begin at MW-1 and MW-3; sampled MW-1 and MW-3								
	1100	1550	200	21.7	25.9	55	0	55	1,981	0
	1530	system was shutdown due to concern over the LRP overheating; engineer made adjustments; down from 1100 - 1530								
	1600	1554	184	21.7	25.9	55	0	55	1,981	111
	1630	1595	191	21	25.8	57	0	57	1,987	183
	1700	1599	196	22.3	25.6	60	0	60	1,783	255
	1730	1595	197	21.9	25.2	66	0	66	1,616	325
4/15/2008	700	1513	194	23.6	25.2	66	0	66	In = 650; Eff = 1	1,740
	800	1517	187	23.6	25.4	63	0	63	681	1,843
	900	1503	197	23.6	25.2	66	0	66	651	1,946
	1000	1504	190	23.4	25.2	66	0	66	650	2,059
	1100	1508	188	23.6	25.2	66	0	66	645	2,152
	1200	1511	190	23.4	25.2	66	0	66	636	2,220
	1300	1510	194	23.6	25.3	65	0	65	635	2,320
	1400	1512	187	23.4	25.2	66	0	66	579	2,425
	1500	1511	186	23.5	25.2	66	0	66	583	2,528
	1600	1506	182	23.6	25.2	66	0	66	562	2,630
	1700	1506	184	23.5	25.2	66	0	66	563	2,730
4/16/2008	700	1471	194	23.4	25.2	66	0	66	430	4,022
	800	system shutdown @ 0700 to clean Y strainer on LRP; overheating issue resolved; restart MTS @ 0800								
	830	1474	168	23.4	25	70	0	70	540	4,119

P. O. Box 12072, Pleasanton, CA 94588 (925) 847-0684

Golden Gate Remediation Technology

SITE: Tony's Express Auto Service PERSONNEL: J A
ADDRESS: 3609 International Blvd., Oakland
PROJECT #: 2335

MTS OPERATIONAL DATA

DATE	TIME	OXIDIZER TEMPERATURE (F)	PUMP/AIR TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	TOTAL FLOW (SCFM)	DILUTION FLOW (SCFM)	WELL FLOW (SCFM)	INFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER
	900	1495	169	23.3	25.2	66	0	66	562	4,170
	1000	1504	170	23	25	70	0	70	569	4,282
	1030	LRP shutting down; oil at low level in LRP; added oil to LRP reservoir; MTS down from 1000 - 1030								
	1100	1506	170	23.6	25.6	60	0	60	560	4,353
	1200	1508	170	23.4	25.3	65	0	65	548	4,422
	1300	1508	173	23.2	25	70	0	70	554	4,526
	1400	1503	172	23.2	25.1	68	0	68	514	4,663
	1500	1504	169	23.3	25	70	0	70	401	4,732
	1600	1502	170	23.2	25	70	0	70	382	4,834
	1700	1500	173	23.2	25	70	0	70	342	4,937
4/17/2008	800	1473	170	23	25	70	0	70	420	6,294
	900	1478	171	23.1	25	70	0	70	426	6,395
	1000	1483	169	23.1	25	70	0	70	416	6,497
	1100	1482	171	23.1	25	70	0	70	420	6,566
	1200	1483	172	23.1	25	70	0	70	413	6,666
	1300	1484	174	23	25	70	0	70	398	6,734
	1400	1487	173	23.1	25	70	0	70	378	6,835
	1500	1492	173	23	25	70	0	70	378	6,937
	1600	1489	173	23	25	70	0	70	366	7,004
	1700	1489	172	23	25	70	0	70	372	7,106
4/18/2008	900	1464	170	23	25	70	0	70	313	8,463

P. O. Box 12072, Pleasanton, CA 94588 (925) 847-0684

Golden Gate Remediation Technology

SITE: Tony's Express Auto Service
ADDRESS: 3609 International Blvd., Oakland
PROJECT #: 2335

PERSONNEL: J A

MTS OPERATIONAL DATA

DATE	TIME	OXIDIZER TEMPERATURE (F)	PUMP/AIR TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	TOTAL FLOW (SCFM)	DILUTION FLOW (SCFM)	WELL FLOW (SCFM)	INFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER
	1000	1460	170	23	25	70	0	70	320	8,521
	1100	1461	171	23	25	70	0	70	328	8,621
	1200	1459	172	22.9	24.8	73	0	73	334	8,688
	1300	1451	171	23	25	70	0	70	322	8,758
	1400	1463	169	22.8	24.8	73	0	73	304	8,856
	1430	1472	170	22.8	24.8	73	0	73	300	8,890
		end at MW-1 and MW-3; sampled MW-1 and MW-3								

P. O. Box 12072, Pleasanton, CA 94588 (925) 847-0684

Golden Gate Remediation Technology

SITE: Tony's Express Auto Service PERSONNEL: J A
ADDRESS: 3609 International Blvd., Oakland
PROJECT #: 2335

MTS OPERATIONAL DATA

DATE	TIME	OXIDIZER TEMPERATURE (F)	PUMP/AIR TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	TOTAL FLOW (SCFM)	DILUTION FLOW (SCFM)	WELL FLOW (SCFM)	INFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER
5/12/2008	930	begin at MW-1 and MW-3; sampled MW-1 and MW-3								0
	1000	1570	172	23.8	25.4	63	0	63	2,750	55
	1100	1578	172	23.1	25	70	0	70	1,810	186
	1200	1551	173	23	24.9	71	0	71	1,501	314
	1300	1546	172	22.9	24.9	71	0	71	1,305	426
	1337	System shut down due to low propane								
	1530	Propane delivered								
	1600	System Restarted								
	1610	1454	173	23.7	25.3	65	0	65	1,301	521
	1700	1529	173	23	25	70	0	70	1,128	626
5/13/2008	730	1475	170	22.5	24.7	74	0	74	653	2,190
	830	1485	171	22.1	24.4	79	0	79	657	2,291
	930	1550	171	26.1	27	38	0	38	797	2,377
	1030	1630	172	26.2	27.4	31	0	31	748	2,457
	1300	1642	172	26	27	38	0	38	761	2,640
		temporarily pumping from only MW-3 from 0930 - 1300; treatment system overwhelmed and holding tank overflowing;								
		treatment system modified to allow more flow								
	1400	1545	174	22.8	25	70	0	70	660	2,693
	1500	1508	175	22.4	24.8	73	0	73	620	2,812
	1600	1501	174	22.4	24.7	74	0	74	600	2,930
5/14/2008	800	1459	171	22.2	24.6	76	0	76	526	4,420

P. O. Box 12072, Pleasanton, CA 94588 (925) 847-0684

Golden Gate Remediation Technology

SITE: Tony's Express Auto Service PERSONNEL: J A
ADDRESS: 3609 International Blvd., Oakland
PROJECT #: 2335

MTS OPERATIONAL DATA

DATE	TIME	OXIDIZER TEMPERATURE (F)	PUMP/AIR TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	TOTAL FLOW (SCFM)	DILUTION FLOW (SCFM)	WELL FLOW (SCFM)	INFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER
	900	1463	173	22	24.4	79	0	79	511	4,497
	1000	1463	173	22	24.5	77	0	77	480	4,619
	1100	1461	174	22	24.5	77	0	77	465	4,706
	1200	1462	175	22	24.4	79	0	79	463	4,780
	1300	1453	177	22	24.5	77	0	77	449	4,854
	1400	1474	178	22	24.4	79	0	79	448	4,950
	1500	1473	180	21.9	24.4	79	0	79	443	5,031
	1600	1474	181	21.9	24.4	79	0	79	437	5,117
	1700	1471	181	21.8	24.2	82	0	82	436	5,208
5/15/2008	830	1455	177	21.6	24.2	82	0	82	In=403; eff=2	6,536
	930	1462	173	21.6	24.2	82	0	82	389	6,627
	1130	1467	203	21.6	24	85	0	85	378	6,807
	1230	1470	191	21.6	24	85	0	85	360	6,897
	1330	1457	189	21.6	24.2	82	0	82	333	6,968
	1430	1459	192	21.6	24.2	82	0	82	366	7,032
	1530	1461	194	21.6	24	85	0	85	412	7,112
	1600	1468	180	21.6	24	85	0	85	420	7,144
		System down overnight after operator left. Morning inspection showed generator overheated, +100F during day until late afternoon and early evening. Restarted at 8 A.M.								
5/16/2008	830	1486	173	22	24.4	79	0	79	432	7,307
	900	1472	174	22.1	24.4	79	0	79	428	7,343
	1000	1472	173	22.2	24.2	82	0	82	404	7,448

P. O. Box 12072, Pleasanton, CA 94588 (925) 847-0684

Golden Gate Remediation Technology

SITE: Tony's Express Auto Service
ADDRESS: 3609 International Blvd., Oakland
PROJECT #: 2335

PERSONNEL: J A

MTS OPERATIONAL DATA

DATE	TIME	OXIDIZER TEMPERATURE (F)	PUMP/AIR TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	TOTAL FLOW (SCFM)	DILUTION FLOW (SCFM)	WELL FLOW (SCFM)	INFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER
	1100	1475	176	22	24.2	82	0	82	404	7,549
	1200	1483	176	22	24.2	82	0	82	388	7,648
	1300	1477	176	22	24.2	82	0	82	359	7,744
		end at MW-1 and MW-3; sampled MW-1 and MW-3								

P. O. Box 12072, Pleasanton, CA 94588 (925) 847-0684

Golden Gate Remediation Technology

SITE: Tony's Express Auto Service PERSONNEL: J A
ADDRESS: 3609 International Blvd., Oakland
PROJECT #: 2335

MTS OPERATIONAL DATA

DATE	TIME	OXIDIZER TEMPERATURE (F)	PUMP/AIR TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	TOTAL FLOW (SCFM)	DILUTION FLOW (SCFM)	WELL FLOW (SCFM)	INFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER
6/9/2008	1030	begin at MW-1 and MW-3; sampled MW-1 and MW-3								0
	1130	1568	173	23	24.8	73	0	73	1,722	102
	1230	1560	172	22.7	24.7	74	0	74	1,380	230
	1330	1538	173	22.4	24.5	77	0	77	1,118	353
	1430	1521	174	22.3	24.3	81	0	81	997	444
	1530	1511	172	22.2	24.3	81	0	81	910	529
	1630	1499	172	22.2	24.2	82	0	82	825	654
	1730	1496	173	22.2	24.2	82	0	82	815	736
6/10/2008	730	1473	172	20.8	24	85	0	85	In=560; eff=3	-
		Isolate MW-3 for initial vapor sample								
	830	1574	171	22.4	26.6	44	0	44	590	-
		Isolate MW-1 for initial vapor sample								
	930	1578	173	20	26	54	0	54	580	2,020
	1030	1482	176	21.2	24.2	82	0	82	641	2,106
	1130	1481	174	20.8	24.1	84	0	84	595	2,238
	1230	1473	173	21.8	24.1	84	0	84	570	2,280
	1330	1474	171	21.9	24	85	0	85	533	2,386
	1430	1474	172	21.8	24	85	0	85	548	2,445
	1530	1475	172	20.9	23.9	87	0	87	547	2,527
	1630	1471	172	21.6	23.9	87	0	87	530	2,610
	1700	1475	173	21.5	23.8	89	0	89	525	2,633

P. O. Box 12072, Pleasanton, CA 94588 (925) 847-0684

Golden Gate Remediation Technology

SITE: Tony's Express Auto Service PERSONNEL: J A
ADDRESS: 3609 International Blvd., Oakland
PROJECT #: 2335

MTS OPERATIONAL DATA

DATE	TIME	OXIDIZER TEMPERATURE (F)	PUMP/AIR TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	TOTAL FLOW (SCFM)	DILUTION FLOW (SCFM)	WELL FLOW (SCFM)	INFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER
6/11/2008	800	1493	183	22	23.7	90	0	90	468	3,764
	900	1467	174	21.4	23.6	92	0	92	478	3,840
	1000	1478	174	21.3	23.6	92	0	92	457	3,881
	1030	1485	175	21.4	23.6	92	0	92	460	3,920
	1100	1472	176	21.3	23.6	92	0	92	462	3,960
	1200	1496	180	21.3	23.7	90	0	90	452	4,046
	1300	1481	172	21.5	24	85	0	85	510	4,115
	1400	1467	172	21.5	23.9	87	0	87	462	4,193
	1500	1475	173	21.4	23.9	87	0	87	451	4,265
	1600	1489	178	21.4	23.8	89	0	89	436	4,340
	1630	1473	177	21.4	23.8	89	0	89	438	4,378
6/12/2008	800	1499	191	21.1	23.7	90	0	90	407	5,460
	900	1494	173	21.2	23.7	90	0	90	393	5,533
	1000	1496	172	21.2	23.6	92	0	92	376	5,608
	1100	1472	173	21	23.6	92	0	92	375	-
	1200	1478	177	21	23.8	89	0	89	388	-
	1300	1468	178	21	23.8	89	0	89	360	-
		Isolate MW-3 for final vapor sample								
	1400	1585	178	25.2	26.4	47	0	47	356	-
		Isolate MW-1 for final vapor sample								
	1500	1574	181	25	26.2	50	0	50	356	-

P. O. Box 12072, Pleasanton, CA 94588 (925) 847-0684

Golden Gate Remediation Technology

SITE: Tony's Express Auto Service
ADDRESS: 3609 International Blvd., Oakland
PROJECT #: 2335

PERSONNEL: J A

MTS OPERATIONAL DATA

DATE	TIME	OXIDIZER TEMPERATURE (F)	PUMP/AIR TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	TOTAL FLOW (SCFM)	DILUTION FLOW (SCFM)	WELL FLOW (SCFM)	INFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER
	1600	1489	177	21.4	24	85	0	85	397	-
	1700	1475	175	21.4	24	85	0	85	365	-
6/13/2008	1130	System shut down, immediately restarted - Low vacuum pump oil sensor triggered by operator, readjusted propane regulator to 2 psi								
	1230	1469	172	21.3	23.9	87	0	87	389	7,358
	1330	1494	173	21.2	23.8	89	0	89	379	7,433
	1430	1472	173	21.2	23.8	89	0	89	351	7,510
	1500	1466	174	21.2	23.8	89	0	89	360	7,560
		end at MW-1 and MW-3; sampled MW-1 and MW-3								

P. O. Box 12072, Pleasanton, CA 94588 (925) 847-0684

Appendix F

MPE Events 2008: Laboratory Reports and Chain of Custody Forms

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# 8030023

Project No: 2335	Sampler: Luis Elazegui		Analyses/Method: TPH-g 8260B; BTEX, MTBE 8260B
Project Name: 3605 International Blvd Oakland, CA	Report To: Joyce Bobek		
	Company: SOMA Environmental Engineering, Inc.		
Turnaround Time: Standard	Tel: 925-734-6400 Fax: 925-734-6401		

Lab No.	Sample ID	Date	Time	Soil	Water	Waste	# of Containers	HCL	H_2SO_4	HNO_3	ICE	Field Notes	TPH-g 8260B	BTEX, MTBE 8260B
	~~MW-3~~	~~3/24/8~~	~~0835~~											
	MW-1	3/24/8	0850		X		4 VOAs	X			X			
	MW-3	3/24/8	0835		X		4 VOAs	X			X			

Sampler Remarks:	Relinquished by:	Date/Time:	Received by:	Date/Time:
EDF Req'd	[signature]	3/25/8 @ 1030	[signature]	3.25.08 13.01

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

09 April 2008

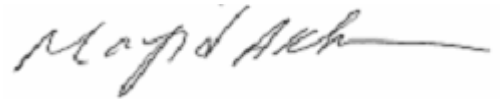
Mansour Sepehr
SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton, CA 94588

RE: 3609 International Blvd, Oakland

Work Order Number: 8030023

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.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	09-Apr-08 18:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	8030023-01	Water	24-Mar-08 08:50	25-Mar-08 13:01
MW-3	8030023-02	Water	24-Mar-08 08:35	25-Mar-08 13:01

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	09-Apr-08 18:35

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (8030023-01) Water Sampled: 24-Mar-08 08:50 Received: 25-Mar-08 13:01									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BD80201	31-Mar-08	31-Mar-08	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		*83.0 %*		*70-130*	"	"	"	"	
Surrogate: Dibromofluoromethane		*115 %*		*70-130*	"	"	"	"	
Surrogate: Perdeuterotoluene		*97.8 %*		*70-130*	"	"	"	"	
MW-3 (8030023-02) Water Sampled: 24-Mar-08 08:35 Received: 25-Mar-08 13:01									
Gasoline (C6-C12)	**4720**	100	ug/l	2	BD80201	31-Mar-08	31-Mar-08	EPA 8260B	
Benzene	**251**	1.00	"	"	"	"	"	"	
Ethylbenzene	**384**	1.00	"	"	"	"	"	"	
m&p-Xylene	**165**	4.00	"	"	"	"	"	"	
o-xylene	**105**	1.00	"	"	"	"	"	"	
Toluene	**8.33**	4.00	"	"	"	"	"	"	
MTBE	**3.17**	1.00	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*		*70-130*	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*		*70-130*	"	"	"	"	
Surrogate: Perdeuterotoluene		*103 %*		*70-130*	"	"	"	"	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	09-Apr-08 18:35

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

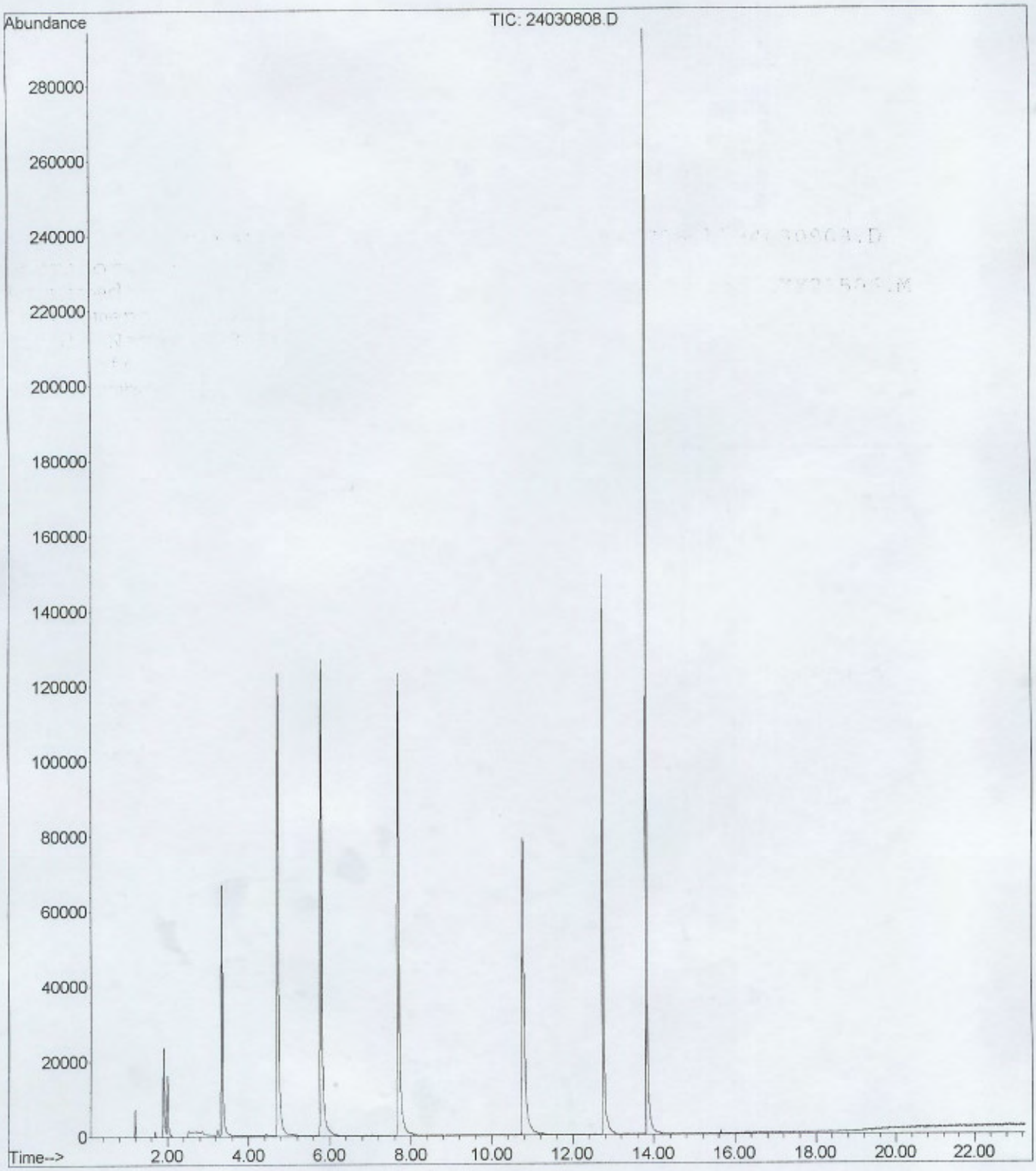
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BD80201 - EPA 5030 Water MS										
Blank (BD80201-BLK1)				Prepared & Analyzed: 02-Apr-08						
Surrogate: 4-Bromofluorobenzene	*39.2*		*ug/l*	*50.0*		*78.4*	*70-130*			
Surrogate: Dibromofluoromethane	*57.2*		*"*	*50.0*		*114*	*70-130*			
Surrogate: Perdeuterotoluene	*46.2*		*"*	*50.0*		*92.4*	*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 (BD80201-BS1)				Prepared & Analyzed: 02-Apr-08						
Surrogate: 4-Bromofluorobenzene	*43.5*		*ug/l*	*50.0*		*87.0*	*70-130*			
Surrogate: Dibromofluoromethane	*49.0*		*"*	*50.0*		*98.0*	*70-130*			
Surrogate: Perdeuterotoluene	*48.0*		*"*	*50.0*		*96.0*	*70-130*			
Gasoline (C6-C12)	1940	50.0	"	2000		97.0	70-130			
Benzene	127	0.500	"	100		127	70-130			
Toluene	124	2.00	"	100		124	70-130			
MTBE	70.0	0.500	"	100		70.0	70-130			
LCS Dup (BD80201-BSD1)				Prepared & Analyzed: 02-Apr-08						
Surrogate: 4-Bromofluorobenzene	*42.0*		*ug/l*	*50.0*		*84.0*	*70-130*			
Surrogate: Dibromofluoromethane	*48.4*		*"*	*50.0*		*96.8*	*70-130*			
Surrogate: Perdeuterotoluene	*44.2*		*"*	*50.0*		*88.4*	*70-130*			
Gasoline (C6-C12)	2290	50.0	"	2000		114	70-130	16.5	20	
Benzene	124	0.500	"	100		124	70-130	2.39	20	
Toluene	120	2.00	"	100		120	70-130	3.28	20	
MTBE	83.3	0.500	"	100		83.3	70-130	17.4	20	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	09-Apr-08 18:35

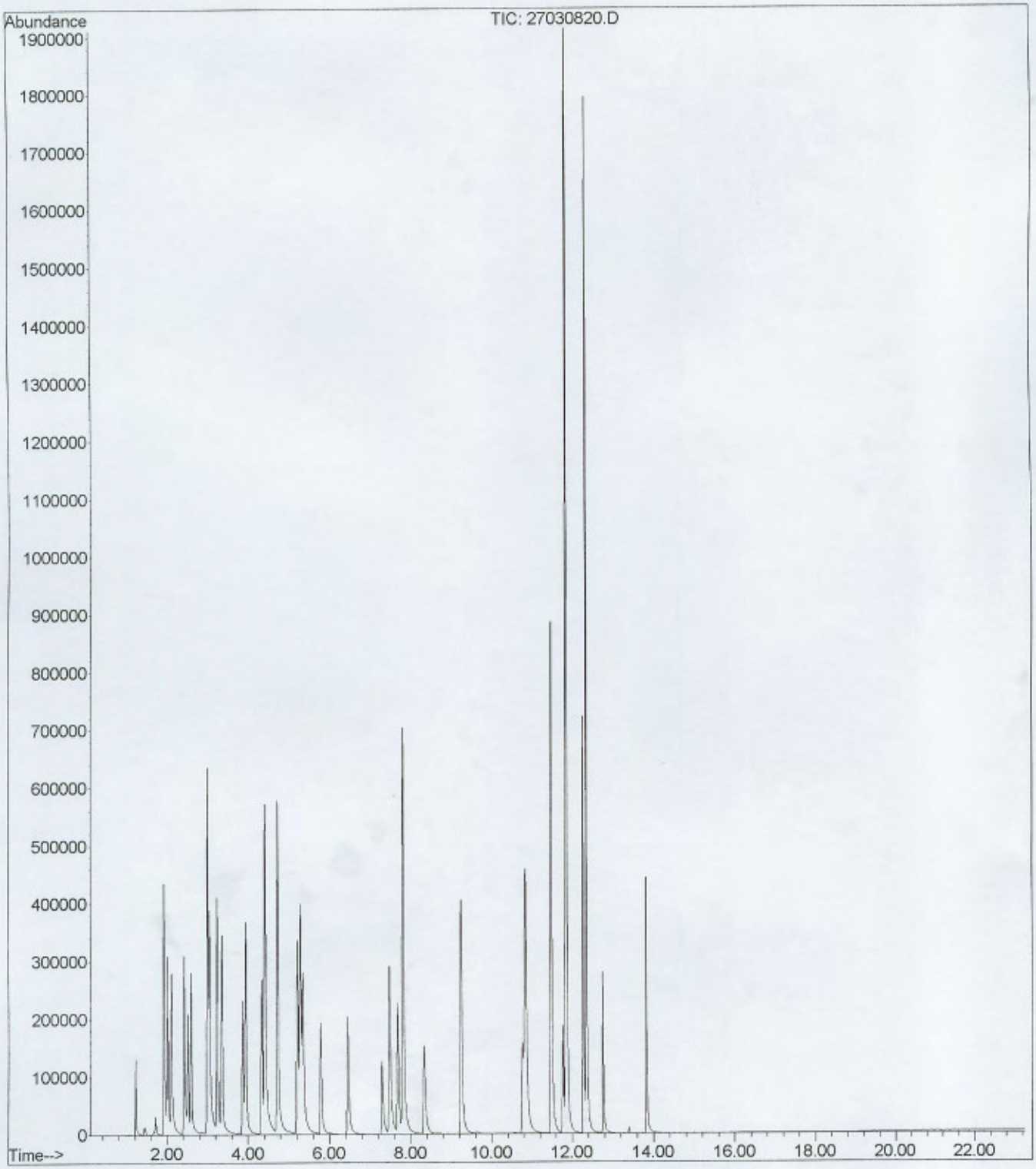
Notes and Definitions

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

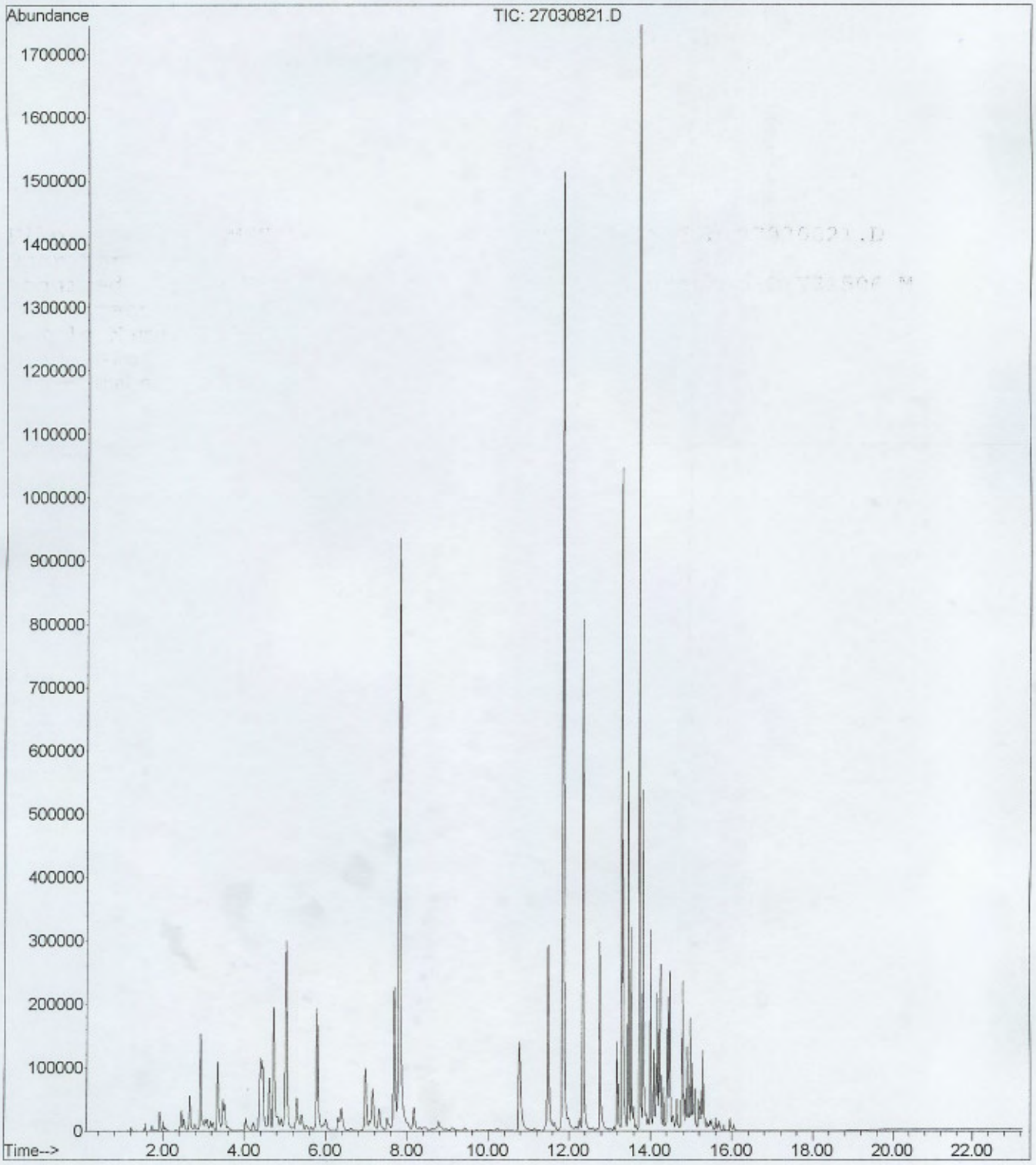
File :C:\MSDChem\1\DATA\2008-Mar-24-1735.b\24030808.D
Operator :
Acquired : 24 Mar 2008 9:45 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BD80201-BLK1
Misc Info :
Vial Number: 8



File :C:\MSDChem\1\DATA\2008-Mar-27-1656.b\27030820.D
Operator :
Acquired : 28 Mar 2008 3:23 am using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BD80201-BS1@voc
Misc Info :
Vial Number: 20



File :C:\MSDChem\1\DATA\2008-Mar-27-1656.b\27030821.D
Operator :
Acquired : 28 Mar 2008 3:53 am using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BD80201-BS1@gas
Misc Info :
Vial Number: 21



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# 8040001

Project No: 2335	Sampler: LUIS ELAZEGUI
Project Name: 3609 International Blvd OAKLAND	Report To: JOYCE BODEK
	Company: SOMA Environmental Engineering, Inc.
Turnaround Time: Standard	Tel: 925-734-6400 Fax: 925-734-6401

Lab No.	Sample ID	Sampling Date/Time: Date	Time	Matrix: Soil	Water	Waste	# of Containers	Preservatives: HCL	H_2So4	HNO_3	ICE	Field Notes	Analyses/Method: TPHg, BTEX, MTBE 8260B							
	MW 1	3/28/08	1328		X		4VOAs	X			X		X							
	MW 3	3/28/08	1322		X		4VOAs	X			X		X							

Sampler Remarks:	Relinquished by:	Date/Time:	Received by:	Date/Time:
	[signature]	3/28/08 8:00 pm		
	[signature]	4/1/08 17:25	V. Velazquez	4/1/08 1735

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

09 April 2008

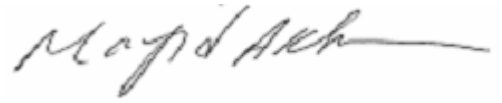
Mansour Sepehr
SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton, CA 94588

RE: 3609 International Blvd, Oakland

Work Order Number: 8040001

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.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	09-Apr-08 18:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	8040001-01	Water	28-Mar-08 13:28	01-Apr-08 17:35
MW-3	8040001-02	Water	28-Mar-08 13:22	01-Apr-08 17:35

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	09-Apr-08 18:45

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (8040001-01) Water Sampled: 28-Mar-08 13:28 Received: 01-Apr-08 17:35									
Gasoline (C6-C12)	**705**	50.0	ug/l	1	BD80701	01-Apr-08	03-Apr-08	EPA 8260B	
Benzene	**9.73**	0.500	"	"	"	"	"	"	
Ethylbenzene	**8.27**	0.500	"	"	"	"	"	"	
m&p-Xylene	**28.9**	2.00	"	"	"	"	"	"	
o-xylene	**10.8**	0.500	"	"	"	"	"	"	
Toluene	**3.91**	2.00	"	"	"	"	"	"	
MTBE	**5.08**	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*110 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*111 %*		*70-130*		"	"	"	
MW-3 (8040001-02RE1) Water Sampled: 28-Mar-08 13:22 Received: 01-Apr-08 17:35									
Gasoline (C6-C12)	**13700**	215	ug/l	4.3	BD80701	01-Apr-08	07-Apr-08	EPA 8260B	
Benzene	**653**	2.15	"	"	"	"	"	"	
Ethylbenzene	**514**	2.15	"	"	"	"	"	"	
m&p-Xylene	**697**	8.60	"	"	"	"	"	"	
o-xylene	**456**	2.15	"	"	"	"	"	"	
Toluene	**395**	8.60	"	"	"	"	"	"	
MTBE	ND	2.15	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*105 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*117 %*		*70-130*		"	"	"	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	09-Apr-08 18:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

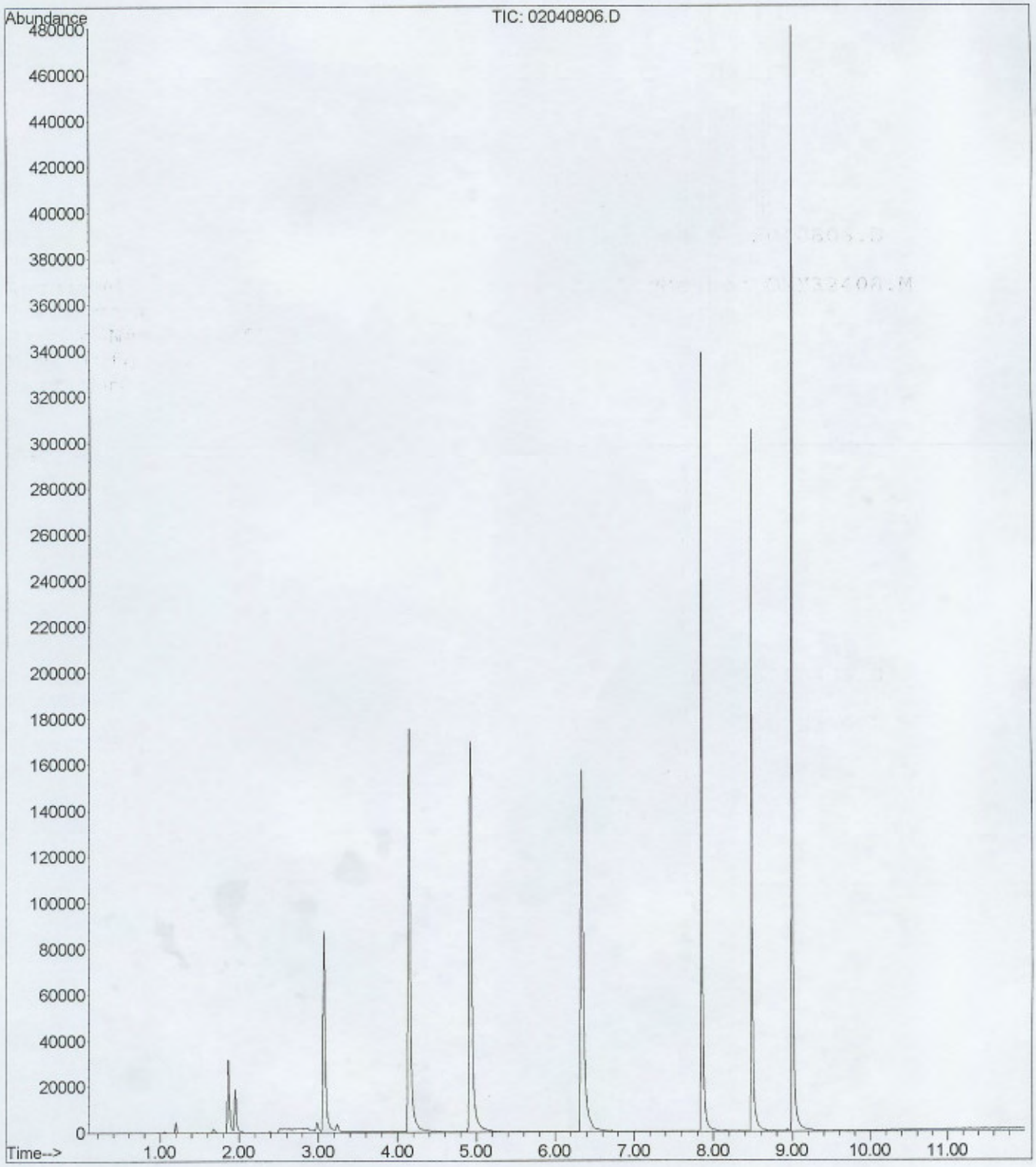
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BD80701 - EPA 5030 Water MS										
Blank (BD80701-BLK1)				Prepared & Analyzed: 07-Apr-08						
Surrogate: 4-Bromofluorobenzene	*46.8*		*ug/l*	*50.0*		*93.6*	*70-130*			
Surrogate: Dibromofluoromethane	*59.3*		*"*	*50.0*		*119*	*70-130*			
Surrogate: Perdeuterotoluene	*51.1*		*"*	*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 (BD80701-BS1)				Prepared & Analyzed: 07-Apr-08						
Surrogate: 4-Bromofluorobenzene	*54.6*		*ug/l*	*50.0*		*109*	*70-130*			
Surrogate: Dibromofluoromethane	*49.4*		*"*	*50.0*		*98.8*	*70-130*			
Surrogate: Perdeuterotoluene	*54.5*		*"*	*50.0*		*109*	*70-130*			
Gasoline (C6-C12)	2590	50.0	"	2000		130	70-130			
Benzene	73.0	0.500	"	100		73.0	70-130			
Toluene	79.7	2.00	"	100		79.7	70-130			
MTBE	104	0.500	"	100		104	70-130			
LCS Dup (BD80701-BSD1)				Prepared & Analyzed: 07-Apr-08						
Surrogate: 4-Bromofluorobenzene	*53.0*		*ug/l*	*50.0*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*49.3*		*"*	*50.0*		*98.6*	*70-130*			
Surrogate: Perdeuterotoluene	*57.6*		*"*	*50.0*		*115*	*70-130*			
Gasoline (C6-C12)	2200	50.0	"	2000		110	70-130	16.3	20	
Benzene	78.5	0.500	"	100		78.5	70-130	7.26	20	
Toluene	84.4	2.00	"	100		84.4	70-130	5.73	20	
MTBE	97.3	0.500	"	100		97.3	70-130	6.66	20	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	09-Apr-08 18:45

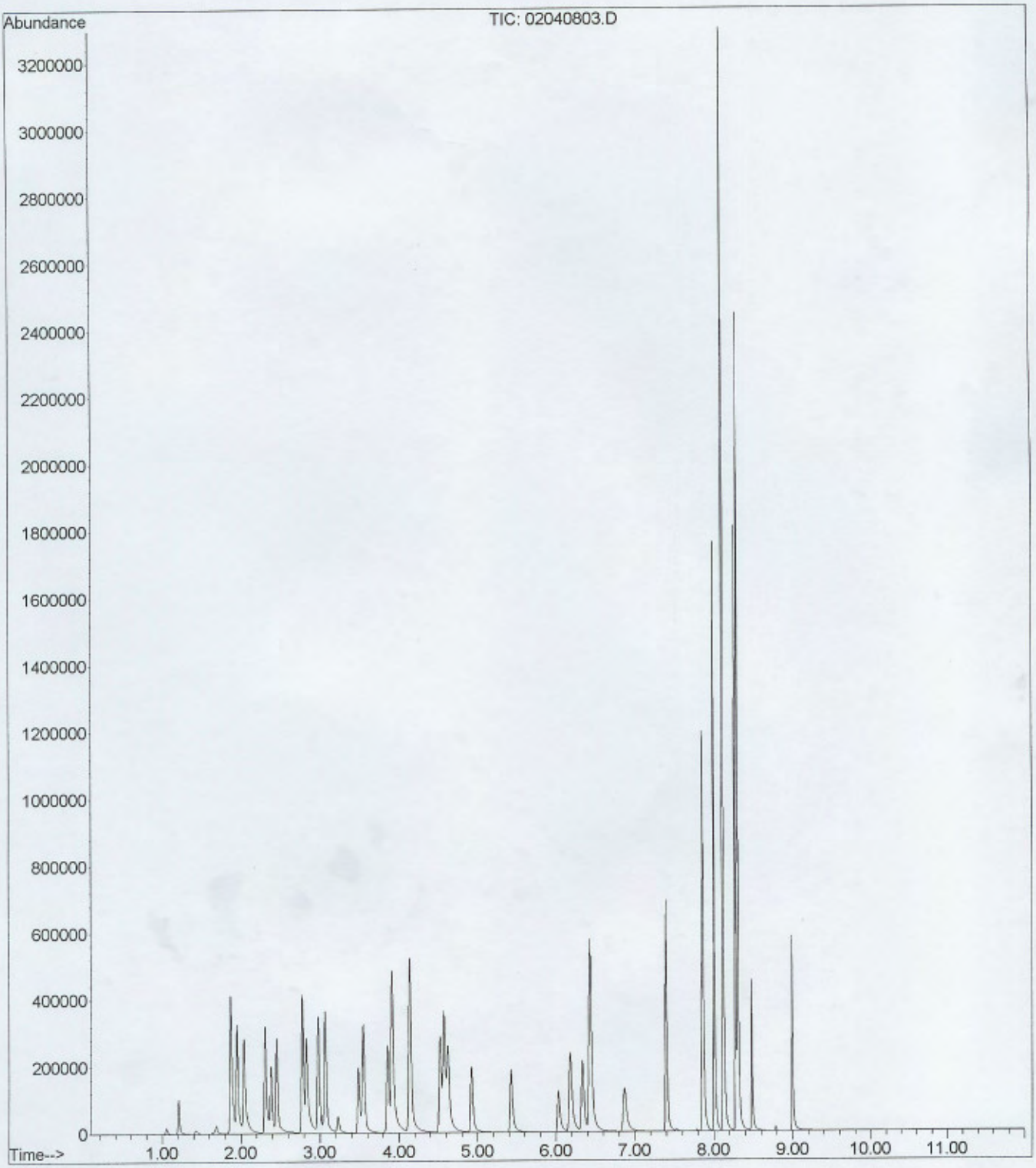
Notes and Definitions

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

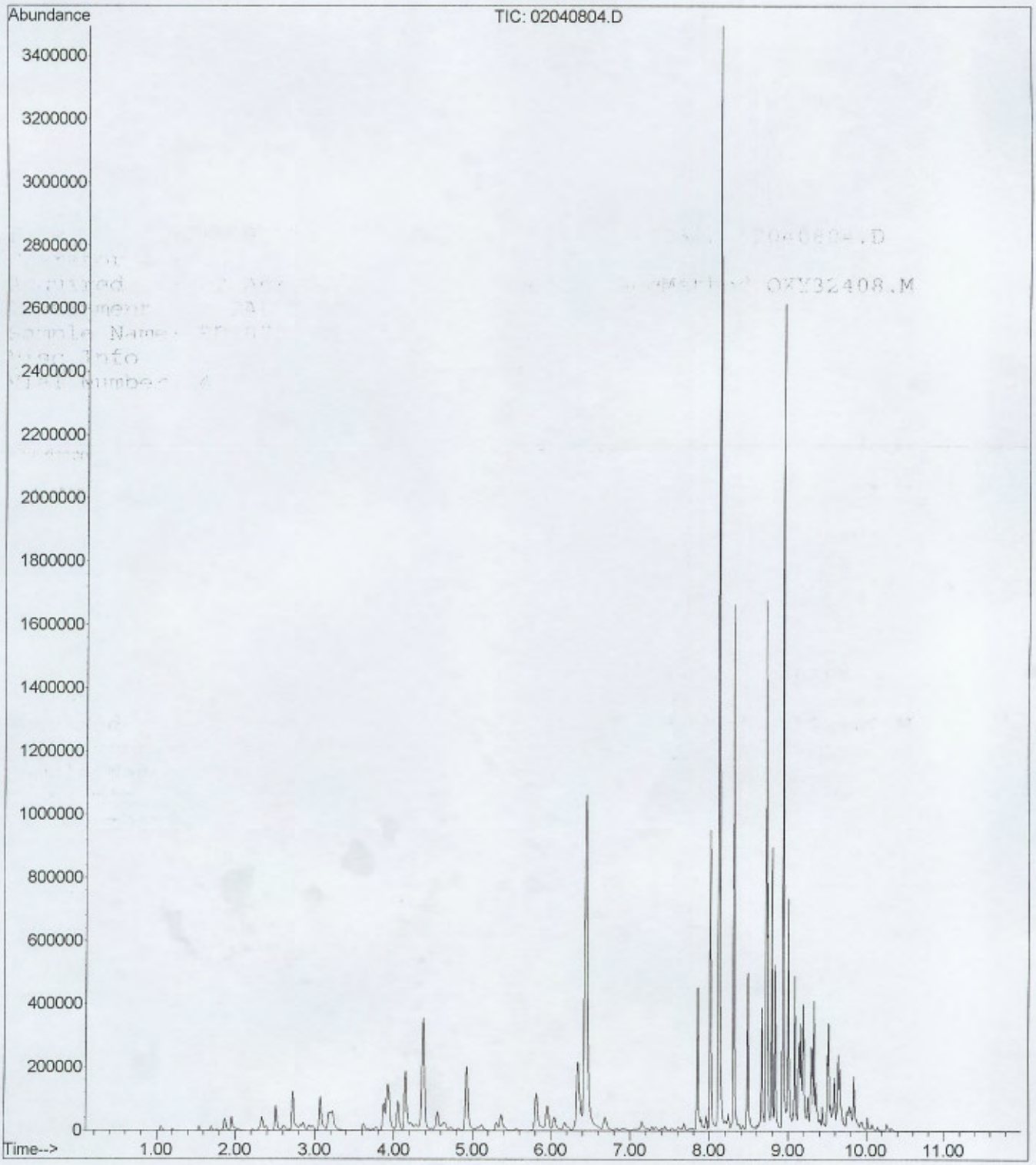
File :C:\MSDChem\1\DATA\2008-Apr-02-1753.b\02040806.D
Operator :
Acquired : 2 Apr 2008 8:32 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BD80701-BLK1
Misc Info :
Vial Number: 6



File :C:\MSDChem\1\DATA\2008-Apr-02-1753.b\02040803.D
Operator :
Acquired : 2 Apr 2008 7:11 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BD80701-BS1@voc
Misc Info :
Vial Number: 3



File :C:\MSDChem\1\DATA\2008-Apr-02-1753.b\02040804.D
Operator :
Acquired : 2 Apr 2008 7:37 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BD80701-BS1@gas
Misc Info :
Vial Number: 4



CHAIN OF CUSTODY FORM

Page 1 of 1

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

PAL Login# ~~8040014~~ 8040015 02 4/15/08

Project No: 2335	Sampler: LUIS ELAZEGUI	Analyses/Method: TPHg, BTEX, MTBE (8260B)
Project Name: 3609 International Blvd OAKLAND	Report To: JOYCE BOBEK	
	Company: SOMA Environmental Engineering, Inc.	
Turnaround Time: Standard	Tel: 925-734-6400 Fax: 925-734-6401	

Lab No.	Sample ID	Sampling Date	Sampling Time	Matrix: Soil	Matrix: Water	Matrix: Waste	# of Containers	HCL	H_2SO_4	HNO_3	ICE	Field Notes	TPHg, BTEX, MTBE (8260B)							
	MW 1	4/14/08	9:30		X		3VOAs	X			X		X							
	MW 3	4/14/08	9:15		X		3VOAs	X			X		X							

Sampler Remarks:	Relinquished by:	Date/Time:	Received by:	Date/Time:
EDF Req'd	[signature]	4/14/08 630 pm	V. Vasquez	4/15/08 1705

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

08 May 2008

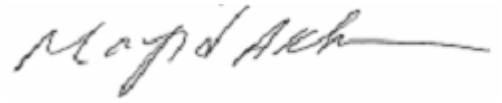
Mansour Sepehr
SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton, CA 94588

RE: 3609 International Blvd, Oakland

Work Order Number: 8040015

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.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	08-May-08 13:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	8040015-01	Water	14-Apr-08 09:30	15-Apr-08 19:27
MW-3	8040015-02	Water	14-Apr-08 09:15	15-Apr-08 19:27

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	08-May-08 13:32

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (8040015-01) Water Sampled: 14-Apr-08 09:30 Received: 15-Apr-08 19:27									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BD81401	15-Apr-08	15-Apr-08	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		*103 %*		*70-130*	"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*		*70-130*	"	"	"	"	
Surrogate: Perdeuterotoluene		*110 %*		*70-130*	"	"	"	"	
MW-3 (8040015-02RE1) Water Sampled: 14-Apr-08 09:15 Received: 15-Apr-08 19:27									
Gasoline (C6-C12)	**6350**	50.0	ug/l	1	BD81401	15-Apr-08	17-Apr-08	EPA 8260B	
Benzene	**124**	0.500	"	"	"	"	"	"	
Ethylbenzene	**231**	0.500	"	"	"	"	"	"	
m&p-Xylene	**366**	2.00	"	"	"	"	"	"	
o-xylene	**97.8**	0.500	"	"	"	"	"	"	
Toluene	**18.9**	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*135 %*		*70-130*	"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*103 %*		*70-130*	"	"	"	"	
Surrogate: Perdeuterotoluene		*127 %*		*70-130*	"	"	"	"	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	08-May-08 13:32

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

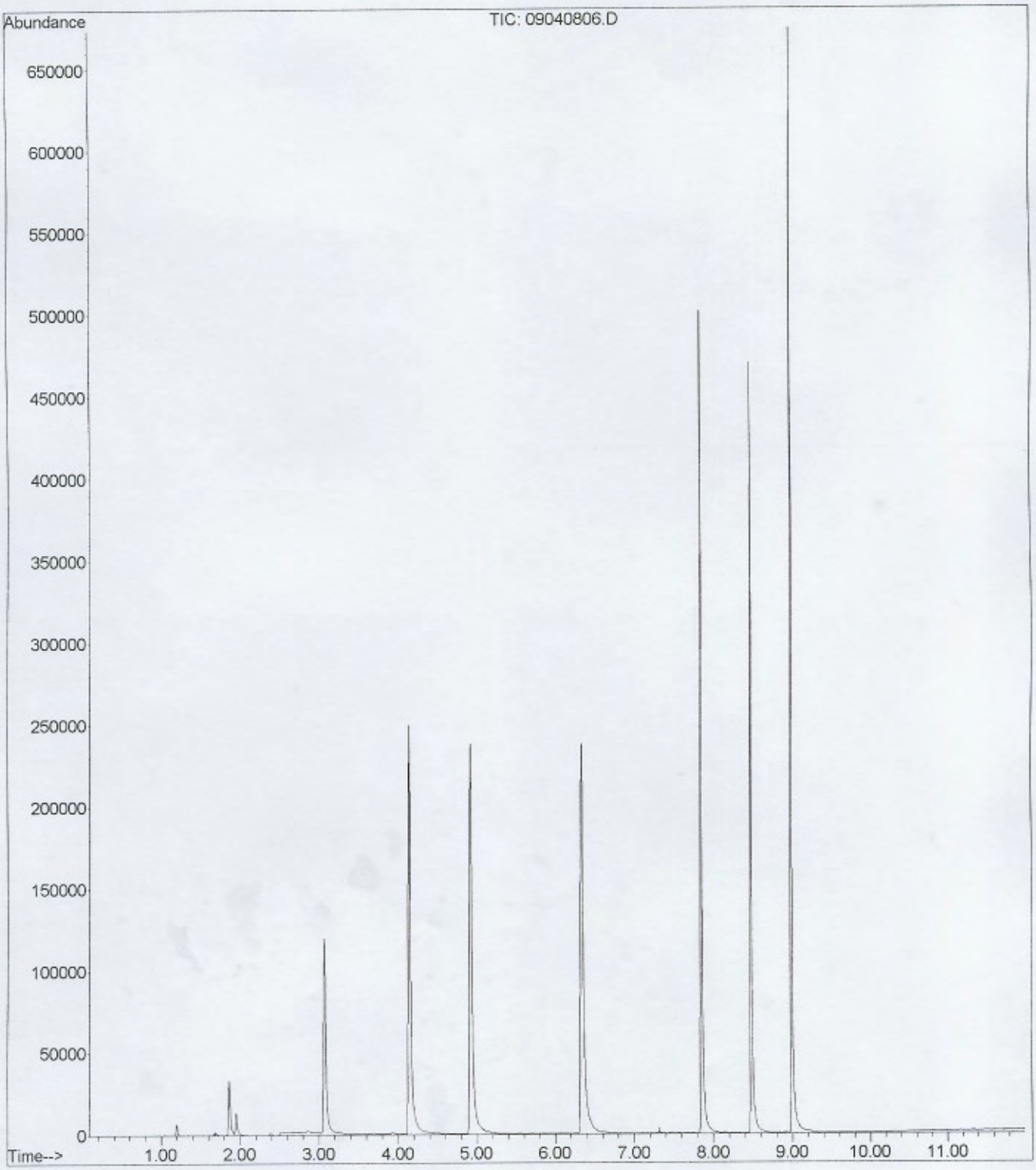
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BD81401 - EPA 5030 Water MS										
Blank (BD81401-BLK1)				Prepared & Analyzed: 14-Apr-08						
Surrogate: 4-Bromofluorobenzene	*47.2*		*ug/l*	*50.0*		*94.4*	*70-130*			
Surrogate: Dibromofluoromethane	*58.4*		*"*	*50.0*		*117*	*70-130*			
Surrogate: Perdeuterotoluene	*51.6*		*"*	*50.0*		*103*	*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 (BD81401-BS1)				Prepared & Analyzed: 14-Apr-08						
Surrogate: 4-Bromofluorobenzene	*50.1*		*ug/l*	*50.0*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*47.5*		*"*	*50.0*		*95.0*	*70-130*			
Surrogate: Perdeuterotoluene	*49.4*		*"*	*50.0*		*98.8*	*70-130*			
Gasoline (C6-C12)	2410	50.0	"	2000		120	70-130			
Benzene	88.4	0.500	"	100		88.4	70-130			
Toluene	90.2	2.00	"	100		90.2	70-130			
MTBE	89.0	0.500	"	100		89.0	70-130			
LCS Dup (BD81401-BSD1)				Prepared & Analyzed: 14-Apr-08						
Surrogate: 4-Bromofluorobenzene	*50.6*		*ug/l*	*50.0*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*49.2*		*"*	*50.0*		*98.4*	*70-130*			
Surrogate: Perdeuterotoluene	*47.6*		*"*	*50.0*		*95.2*	*70-130*			
Gasoline (C6-C12)	1990	50.0	"	2000		99.5	70-130	19.1	20	
Benzene	79.4	0.500	"	100		79.4	70-130	10.7	20	
Toluene	84.0	2.00	"	100		84.0	70-130	7.12	20	
MTBE	91.8	0.500	"	100		91.8	70-130	3.10	20	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	08-May-08 13:32

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

File :C:\MSDChem\1\DATA\2008-Apr-09-1731.b\09040806.D
Operator :
Acquired : 9 Apr 2008 7:59 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BD81401-BLK1
Misc Info :
Vial Number: 6



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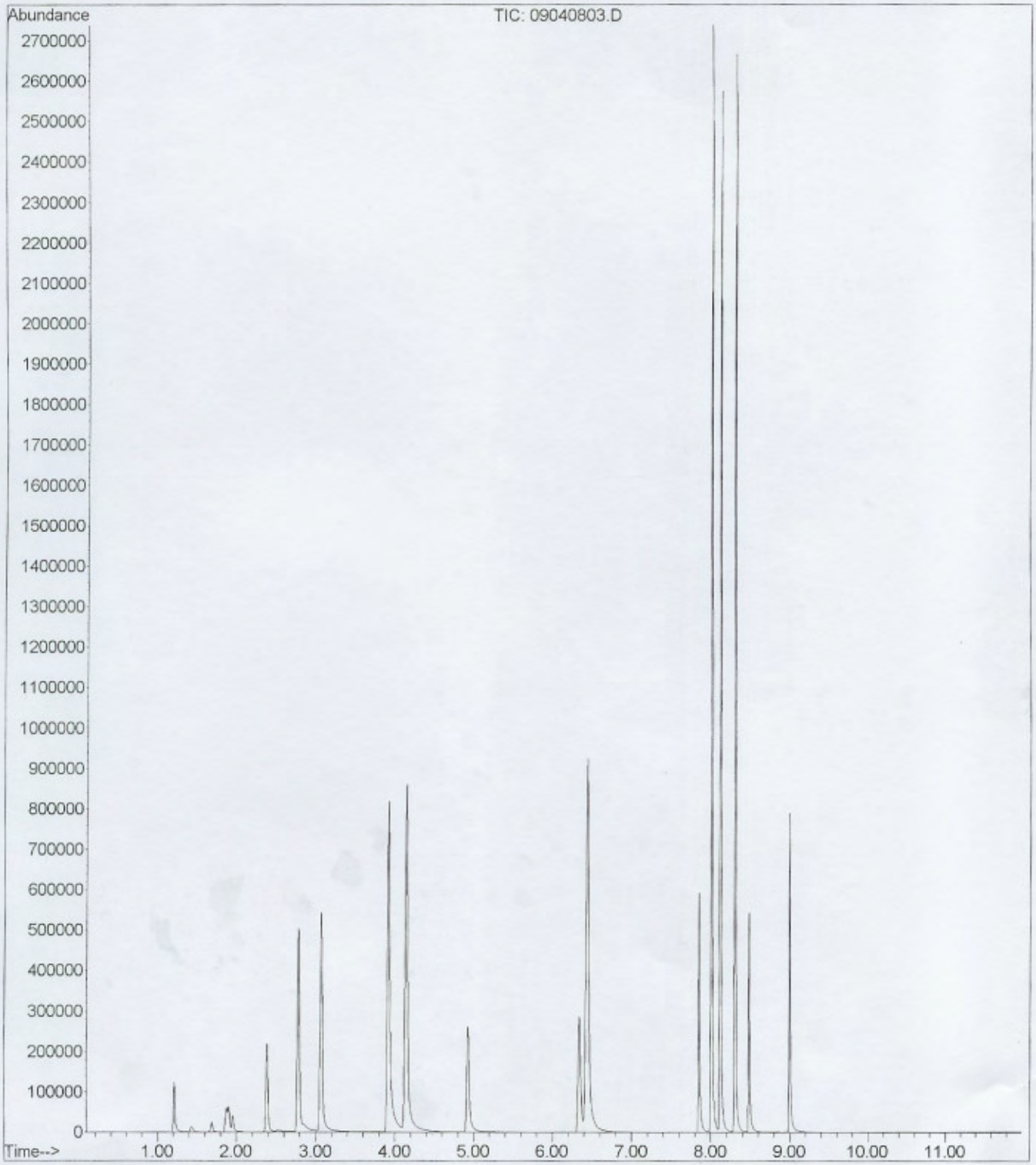
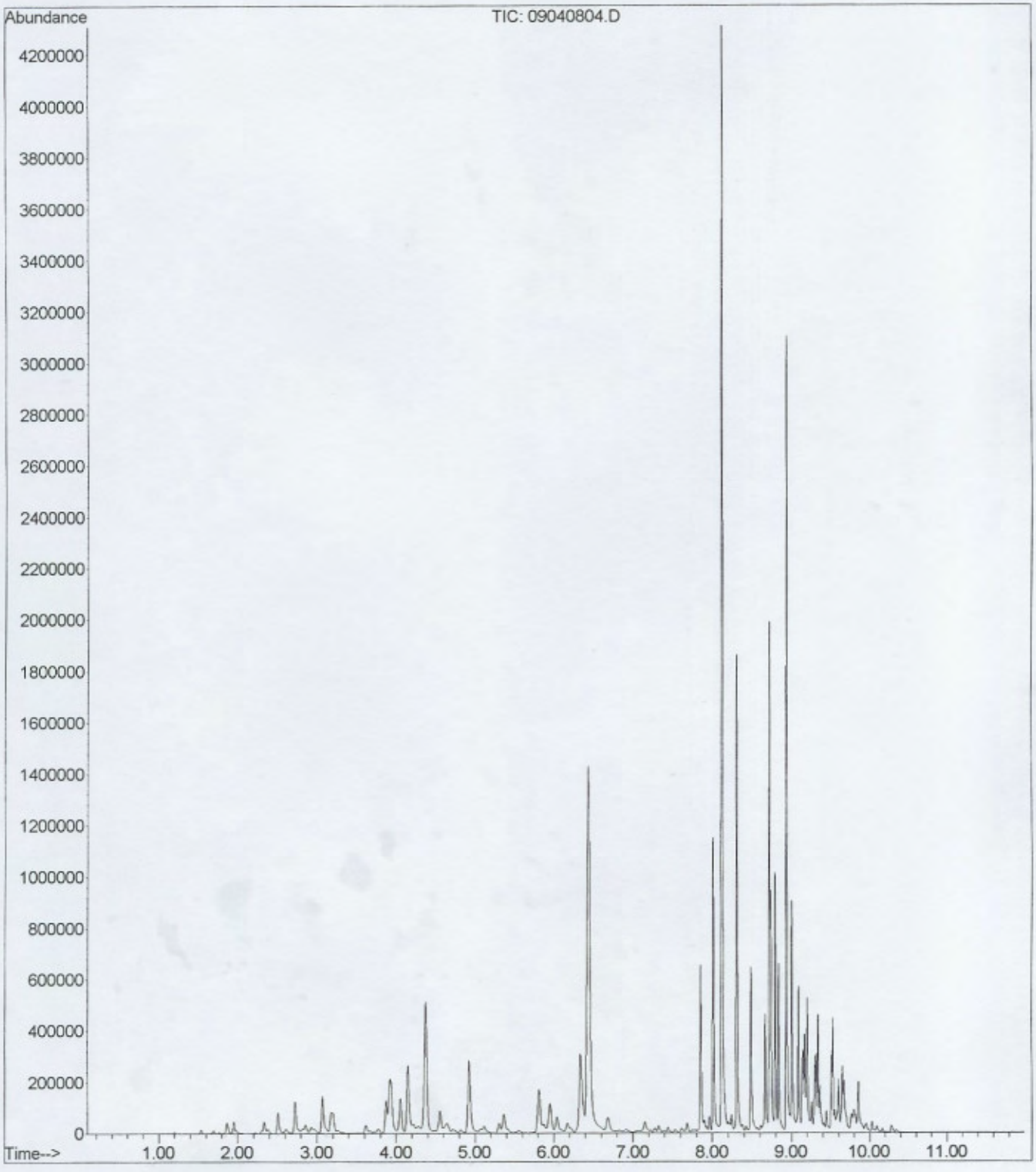
Operator :
Acquired : 9 Apr 2008 6:40 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BD81401-BS1@voc
Misc Info :
Vial Number: 3



File :C:\MSDChem\1\DATA\2008-Apr-09-1731.b\09040804.D
Operator :
Acquired : 9 Apr 2008 7:06 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BD81401-BS1@gas
Misc Info :
Vial Number: 4



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# 8040020

Project No: 2335	Sampler: LUIS ELAZEGUI		
Project Name: 3609 International Blvd OAKLAND	Report To: JOYCE BOBEK		
Turnaround Time: Standard	Company: SOMA Environmental Engineering, Inc.		
	Tel: 925-734-6400 Fax: 925-734-6401		

Lab No.	Sample ID	Sampling Date	Sampling Time	Matrix: Soil	Matrix: Water	Matrix: Waste	# of Containers	Preservatives: HCL	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: ICE	Field Notes	Analyses/Method: TPH-g, BTEX, MTBE (8260B)							
	MW3	4/18/08	2:35		X			X			X		X							
	MW1	4/18/08	2:45		X			X			X		X							

Sampler Remarks:	Relinquished by:	Date/Time:	Received by:	Date/Time:
EDF REQD	[signature]	4/18/08 8:00pm	[signature]	4.22.08 17:37

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

08 May 2008

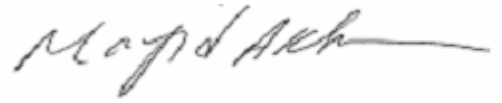
Mansour Sepehr
SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton, CA 94588

RE: 3609 International Blvd, Oakland

Work Order Number: 8040020

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.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	08-May-08 13:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-3	8040020-01	Water	18-Apr-08 14:35	22-Apr-08 17:37
MW-1	8040020-02	Water	18-Apr-08 14:45	22-Apr-08 17:37

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	08-May-08 13:46

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (8040020-01RE1) Water Sampled: 18-Apr-08 14:35 Received: 22-Apr-08 17:37									
Gasoline (C6-C12)	**4630**	215	ug/l	4.3	BD82901	24-Apr-08	29-Apr-08	EPA 8260B	
Benzene	**191**	2.15	"	"	"	"	"	"	
Ethylbenzene	**73.6**	2.15	"	"	"	"	"	"	
m&p-Xylene	**562**	8.60	"	"	"	"	"	"	
o-xylene	**130**	2.15	"	"	"	"	"	"	
Toluene	**101**	8.60	"	"	"	"	"	"	
MTBE	ND	2.15	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*116 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*108 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*116 %*		*70-130*		"	"	"	
MW-1 (8040020-02) Water Sampled: 18-Apr-08 14:45 Received: 22-Apr-08 17:37									
Gasoline (C6-C12)	**3710**	50.0	ug/l	1	BD82901	24-Apr-08	25-Apr-08	EPA 8260B	
Benzene	**27.1**	0.500	"	"	"	"	"	"	
Ethylbenzene	**47.3**	0.500	"	"	"	"	"	"	
m&p-Xylene	**248**	2.00	"	"	"	"	"	"	
o-xylene	**54.9**	0.500	"	"	"	"	"	"	
Toluene	**21.0**	2.00	"	"	"	"	"	"	
MTBE	**11.4**	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*121 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*106 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*127 %*		*70-130*		"	"	"	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	08-May-08 13:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

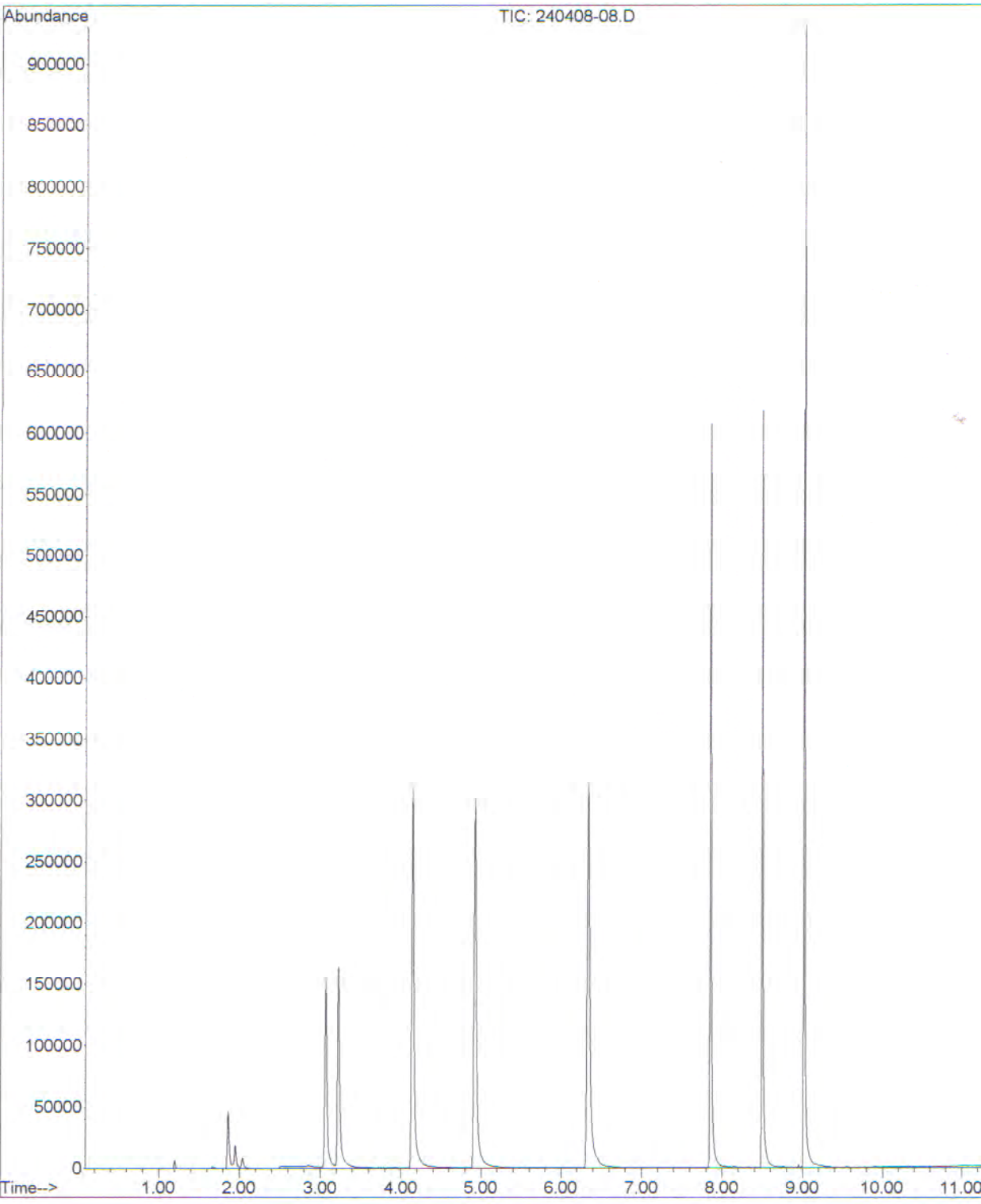
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BD82901 - EPA 5030 Water MS										
Blank (BD82901-BLK1)				Prepared & Analyzed: 29-Apr-08						
Surrogate: 4-Bromofluorobenzene	*49.2*		*ug/l*	*50.0*		*98.4*	*70-130*			
Surrogate: Dibromofluoromethane	*57.8*		*"*	*50.0*		*116*	*70-130*			
Surrogate: Perdeuterotoluene	*54.6*		*"*	*50.0*		*109*	*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 (BD82901-BS1)				Prepared & Analyzed: 29-Apr-08						
Surrogate: 4-Bromofluorobenzene	*50.9*		*ug/l*	*50.0*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*49.5*		*"*	*50.0*		*99.0*	*70-130*			
Surrogate: Perdeuterotoluene	*50.3*		*"*	*50.0*		*101*	*70-130*			
Gasoline (C6-C12)	1920	50.0	"	2000		96.0	70-130			
Benzene	70.0	0.500	"	100		70.0	70-130			
Toluene	72.1	2.00	"	100		72.1	70-130			
MTBE	87.7	0.500	"	100		87.7	70-130			
LCS Dup (BD82901-BSD1)				Prepared & Analyzed: 29-Apr-08						
Surrogate: 4-Bromofluorobenzene	*53.2*		*ug/l*	*50.0*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*50.4*		*"*	*50.0*		*101*	*70-130*			
Surrogate: Perdeuterotoluene	*51.3*		*"*	*50.0*		*103*	*70-130*			
Gasoline (C6-C12)	1960	50.0	"	2000		98.0	70-130	2.06	20	
Benzene	70.3	0.500	"	100		70.3	70-130	0.428	20	
Toluene	78.6	2.00	"	100		78.6	70-130	8.63	20	
MTBE	86.0	0.500	"	100		86.0	70-130	1.96	20	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	08-May-08 13:46

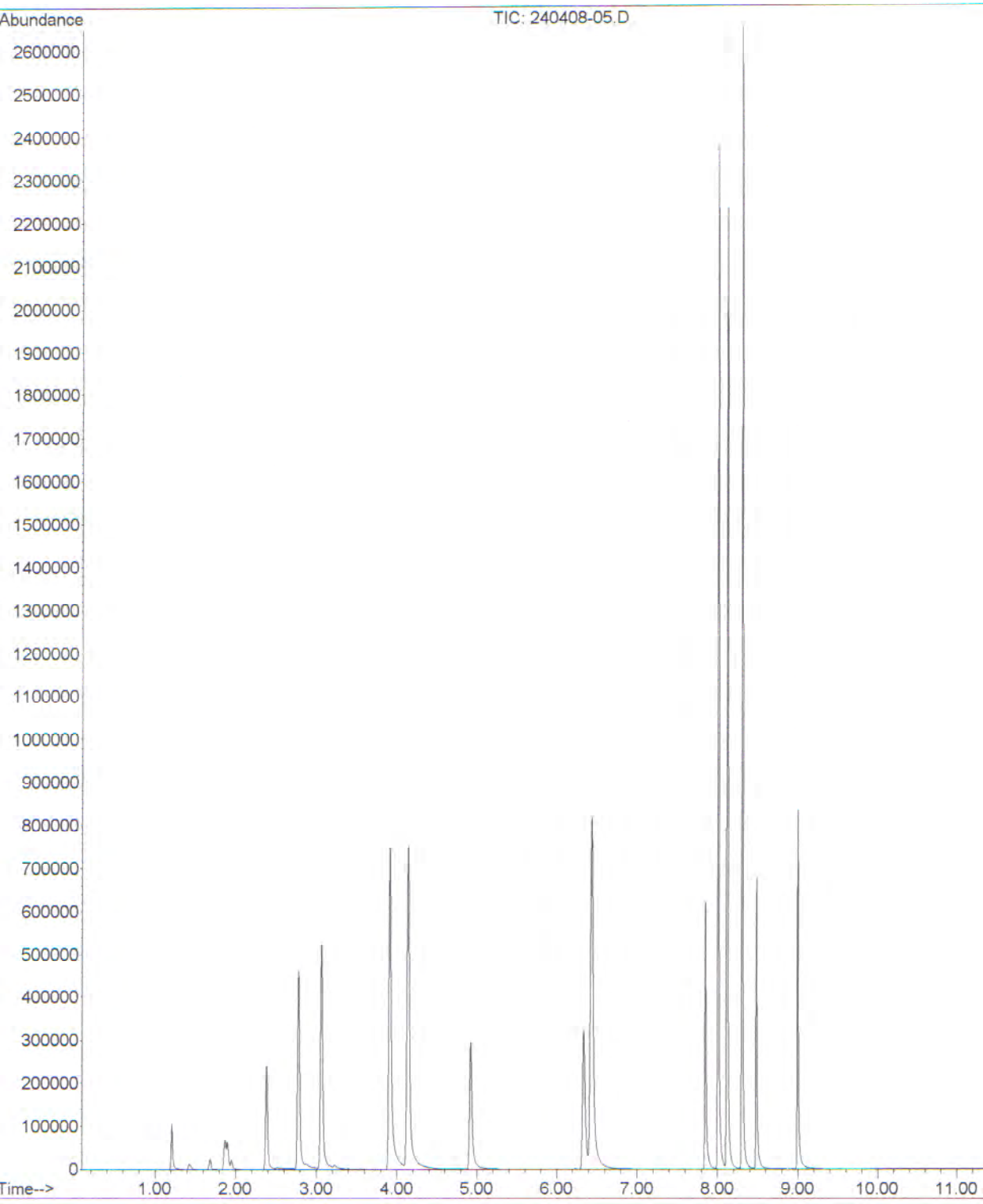
Notes and Definitions

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

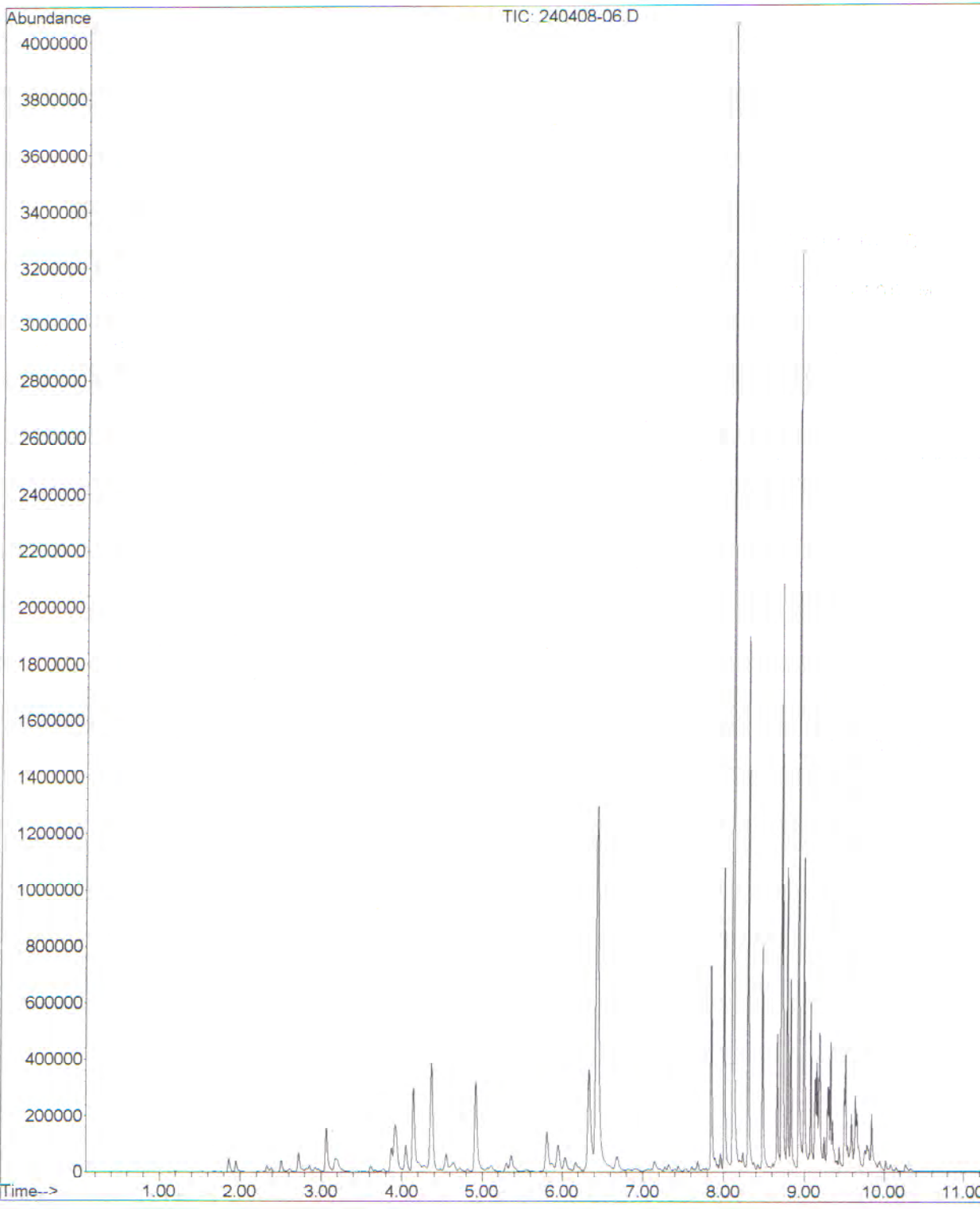
File :C:\MSDChem\1\DATA\2008-Apr-24-1604.b\240408-08.D
Operator :
Acquired : 24 Apr 2008 8:05 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BD82901-BLK1
Misc Info :
Vial Number: 8



File : C:\MSDChem\1\DATA\2008-Apr-24-1604.b\240408-05.D
Operator :
Acquired : 24 Apr 2008 6:46 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BD82901-BS1@voc
Misc Info :
Vial Number: 5



File :C:\MSDChem\1\DATA\2008-Apr-24-1604.b\240408-06.D
Operator :
Acquired : 24 Apr 2008 7:12 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BD82901-BS1@gas
Misc Info :
Vial Number: 6



CHAIN OF CUSTODY

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

PAL LOGIN # 8050018

Sampler: LUIS ELIZALDE

Project No: 2335

Report To: Joyce Bobek

Project Name: 3609 International Blvd., Oakland, CA

Company : SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Water	Waste	# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE	Analyses: TPHg, BTEX, MtBE - 8260B
	MW-1	5/12/08 8:50		X		3 voas	X			X	X
	MW-3	5/12/08 9:00		X		3 voas	X			X	X

Notes: EDF OUTPUT REQUIRED

RELINQUISHED BY:	RECEIVED BY:
5/13/08 5:00 DATE/TIME	05/13/08 16:40 DATE/TIME
DATE/TIME	DATE/TIME
DATE/TIME	DATE/TIME

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

03 June 2008

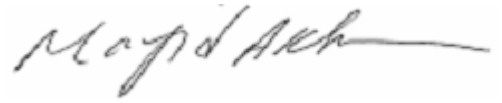
Mansour Sepehr
SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton, CA 94588

RE: 3609 International Blvd, Oakland

Work Order Number: 8050018

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.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	03-Jun-08 19:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	8050018-01	Water	12-May-08 08:50	13-May-08 16:40
MW-3	8050018-02	Water	12-May-08 09:00	13-May-08 16:40

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	03-Jun-08 19:15

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (8050018-01) Water Sampled: 12-May-08 08:50 Received: 13-May-08 16:40									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BE81501	13-May-08	15-May-08	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	**1.32**	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*126 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*114 %*		*70-130*		"	"	"	
MW-3 (8050018-02) Water Sampled: 12-May-08 09:00 Received: 13-May-08 16:40									
Gasoline (C6-C12)	**3460**	50.0	ug/l	1	BE81501	13-May-08	15-May-08	EPA 8260B	
Benzene	**111**	0.500	"	"	"	"	"	"	
Ethylbenzene	**98.9**	0.500	"	"	"	"	"	"	
m&p-Xylene	**174**	2.00	"	"	"	"	"	"	
o-xylene	**48.2**	0.500	"	"	"	"	"	"	
Toluene	**7.54**	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*123 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*117 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*114 %*		*70-130*		"	"	"	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	03-Jun-08 19:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

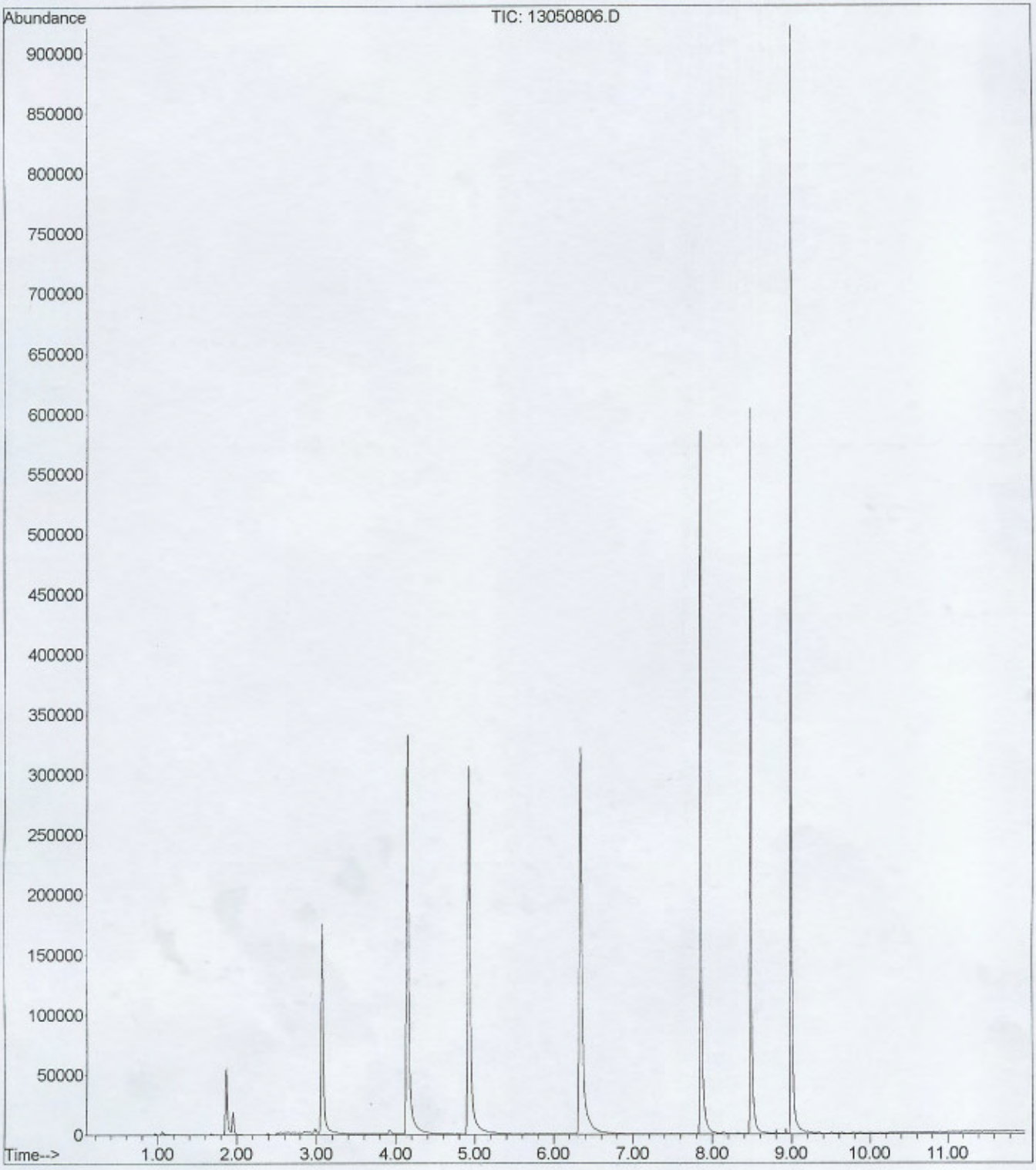
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BE81501 - EPA 5030 Water MS										
Blank (BE81501-BLK1)				Prepared & Analyzed: 15-May-08						
Surrogate: 4-Bromofluorobenzene	*52.1*		*ug/l*	*50.0*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*63.0*		*"*	*50.0*		*126*	*70-130*			
Surrogate: Perdeuterotoluene	*55.4*		*"*	*50.0*		*111*	*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 (BE81501-BS1)				Prepared & Analyzed: 15-May-08						
Surrogate: 4-Bromofluorobenzene	*48.2*		*ug/l*	*50.0*		*96.4*	*70-130*			
Surrogate: Dibromofluoromethane	*47.4*		*"*	*50.0*		*94.8*	*70-130*			
Surrogate: Perdeuterotoluene	*47.5*		*"*	*50.0*		*95.0*	*70-130*			
Gasoline (C6-C12)	2030	50.0	"	2000		102	70-130			
Benzene	88.5	0.500	"	100		88.5	70-130			
Toluene	86.0	2.00	"	100		86.0	70-130			
MTBE	77.8	0.500	"	100		77.8	70-130			
LCS Dup (BE81501-BSD1)				Prepared & Analyzed: 15-May-08						
Surrogate: 4-Bromofluorobenzene	*49.0*		*ug/l*	*50.0*		*98.0*	*70-130*			
Surrogate: Dibromofluoromethane	*47.6*		*"*	*50.0*		*95.2*	*70-130*			
Surrogate: Perdeuterotoluene	*49.1*		*"*	*50.0*		*98.2*	*70-130*			
Gasoline (C6-C12)	1990	50.0	"	2000		99.5	70-130	1.99	20	
Benzene	92.9	0.500	"	100		92.9	70-130	4.85	20	
Toluene	89.7	2.00	"	100		89.7	70-130	4.21	20	
MTBE	74.8	0.500	"	100		74.8	70-130	3.93	20	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	03-Jun-08 19:15

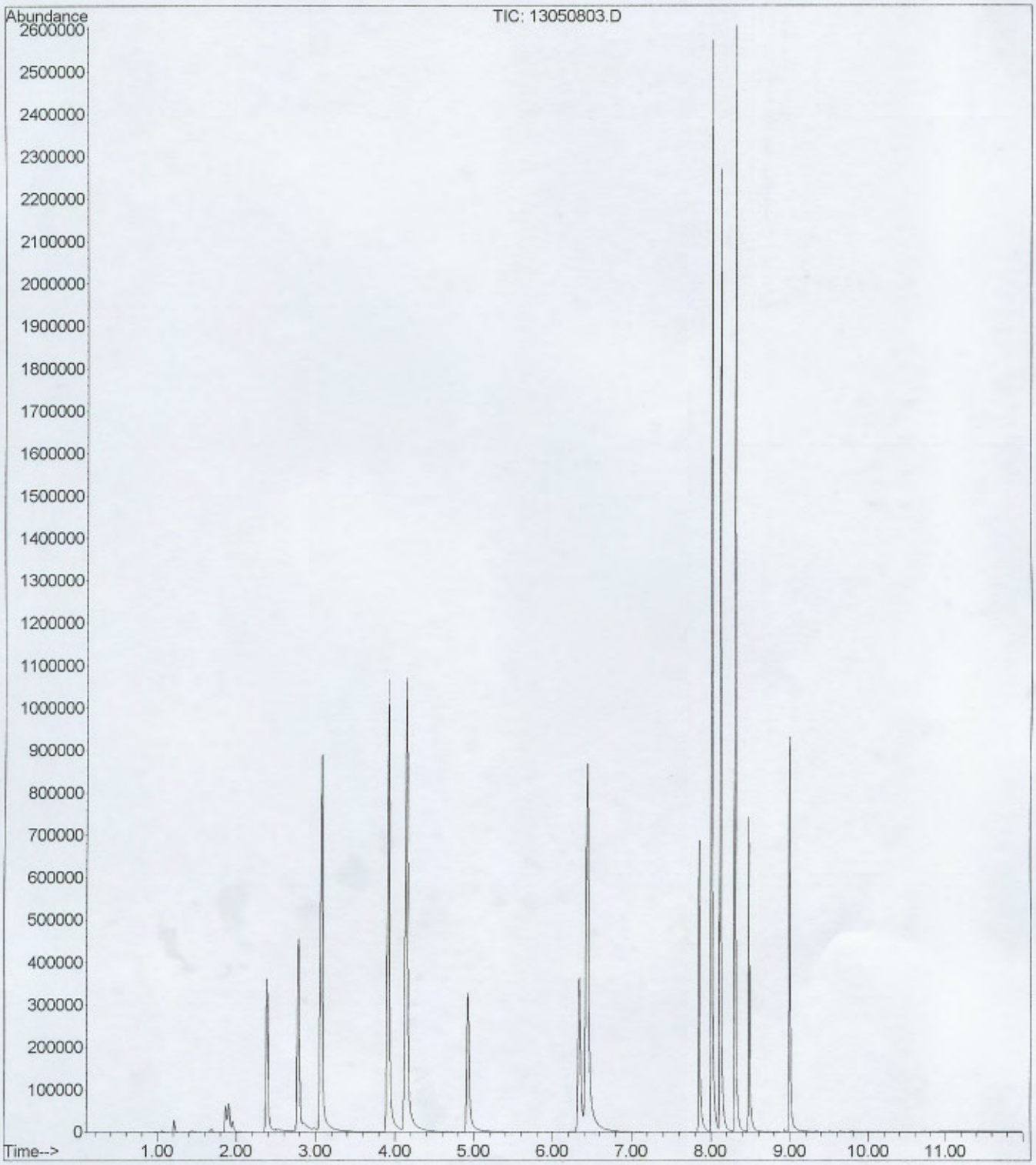
Notes and Definitions

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

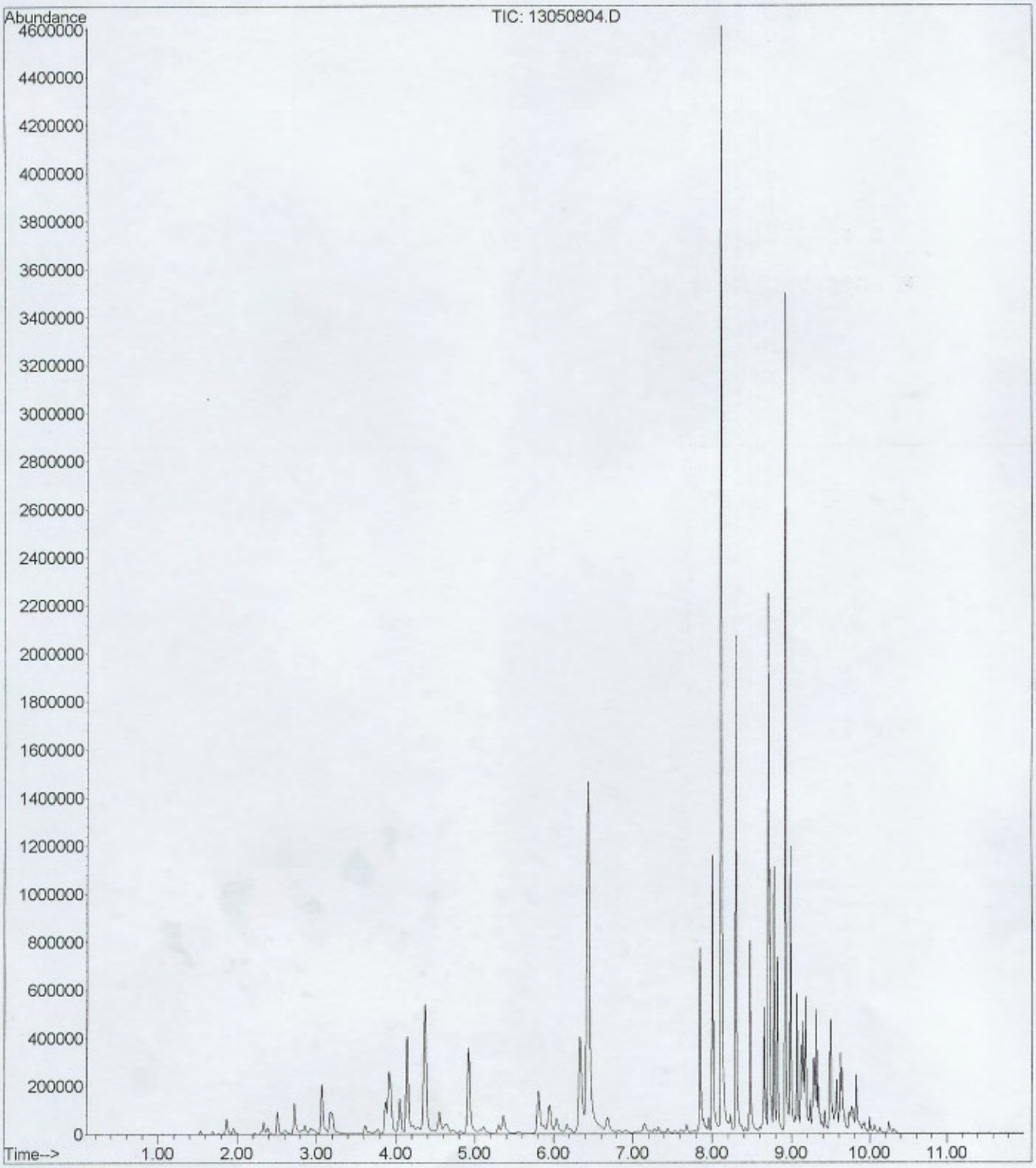
File :C:\MSDChem\1\DATA\2008-May-13-1734.b\13050806.D
Operator :
Acquired : 13 May 2008 8:01 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BE81501-BLK1
Misc Info :
Vial Number: 6



File : C:\MSDChem\1\DATA\2008-May-13-1734.b\13050803.D
Operator :
Acquired : 13 May 2008 6:42 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BE81501-BS1@voc
Misc Info :
Vial Number: 3



File :C:\MSDChem\1\DATA\2008-May-13-1734.b\13050804.D
Operator :
Acquired : 13 May 2008 7:09 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BE81501-BS1@gas
Misc Info :
Vial Number: 4



CHAIN OF CUSTODY

Page 1 of 1

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

PAL LOGIN # 8050024

Sampler: LUIS ELAFEGUI

Project No: 2335

Report To: Joyce Bobek

Project Name: 3609 International Blvd., Oakland, CA

Company : SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Water	Waste	# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE		Analyses: TPHg, BTEX, MtBE - 8260B
	MW-1	5/16/08 1:38		X		3 voas	X			X		X
	MW-3	5/16/08 1:30		X		3 voas	X			X		X

Notes: EDF OUTPUT REQUIRED

RELINQUISHED BY:	RECEIVED BY:
5/16/08 6:30 DATE/TIME	5/24/08 4pm DATE/TIME
5/24/08 4pm DATE/TIME	05/21/08 16:10 DATE/TIME
DATE/TIME	DATE/TIME

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

03 June 2008

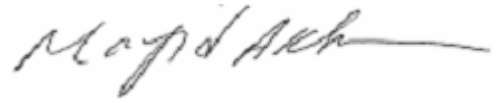
Mansour Sepehr
SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton, CA 94588

RE: 3609 International Blvd, Oakland

Work Order Number: 8050024

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.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	03-Jun-08 20:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	8050024-01	Water	16-May-08 13:38	21-May-08 16:10
MW-3	8050024-02	Water	16-May-08 13:30	21-May-08 16:10

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	03-Jun-08 20:03

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (8050024-01) Water Sampled: 16-May-08 13:38 Received: 21-May-08 16:10									
Gasoline (C6-C12)	**2780**	50.0	ug/l	1	BE82801	27-May-08	27-May-08	EPA 8260B	
Benzene	**27.5**	0.500	"	"	"	"	"	"	
Ethylbenzene	**1.93**	0.500	"	"	"	"	"	"	
m&p-Xylene	**17.6**	2.00	"	"	"	"	"	"	
o-xylene	**64.6**	0.500	"	"	"	"	"	"	
Toluene	**3.36**	2.00	"	"	"	"	"	"	
MTBE	**24.6**	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.0 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*103 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*101 %*		*70-130*		"	"	"	
MW-3 (8050024-02RE1) Water Sampled: 16-May-08 13:30 Received: 21-May-08 16:10									
Gasoline (C6-C12)	**16600**	550	ug/l	11	BE82801	27-May-08	28-May-08	EPA 8260B	
Benzene	**795**	5.50	"	"	"	"	"	"	
Ethylbenzene	**427**	5.50	"	"	"	"	"	"	
m&p-Xylene	**3070**	22.0	"	"	"	"	"	"	
o-xylene	**737**	5.50	"	"	"	"	"	"	
Toluene	**371**	22.0	"	"	"	"	"	"	
MTBE	**9.82**	5.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.2 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*109 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*99.6 %*		*70-130*		"	"	"	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	03-Jun-08 20:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

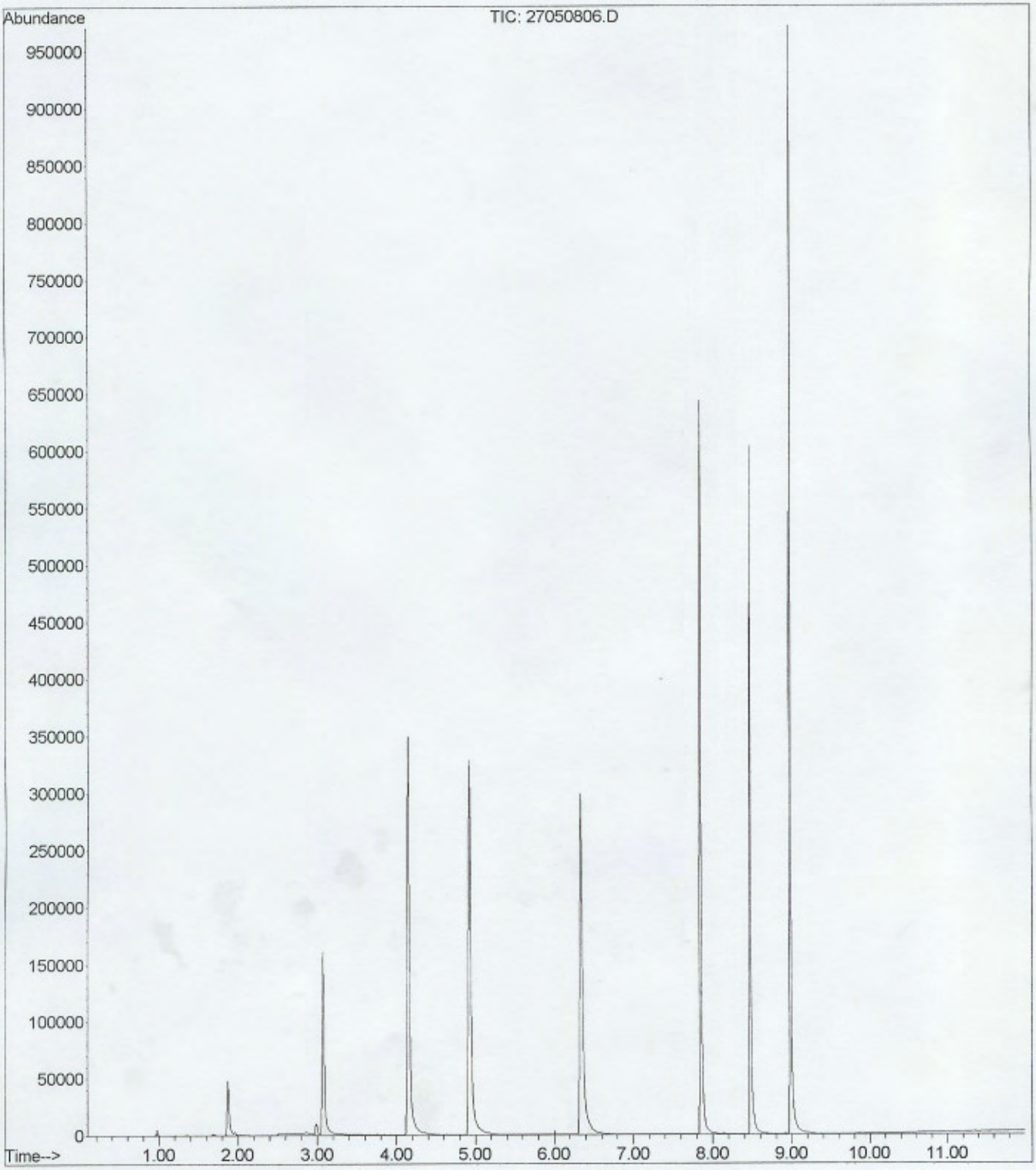
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BE82801 - EPA 5030 Water MS										
Blank (BE82801-BLK1)				Prepared & Analyzed: 28-May-08						
Surrogate: 4-Bromofluorobenzene	*42.5*		*ug/l*	*50.0*		*85.0*	*70-130*			
Surrogate: Dibromofluoromethane	*51.2*		*"*	*50.0*		*102*	*70-130*			
Surrogate: Perdeuterotoluene	*49.6*		*"*	*50.0*		*99.2*	*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 (BE82801-BS1)				Prepared & Analyzed: 28-May-08						
Surrogate: 4-Bromofluorobenzene	*42.2*		*ug/l*	*50.0*		*84.4*	*70-130*			
Surrogate: Dibromofluoromethane	*40.4*		*"*	*50.0*		*80.8*	*70-130*			
Surrogate: Perdeuterotoluene	*48.5*		*"*	*50.0*		*97.0*	*70-130*			
Gasoline (C6-C12)	1650	50.0	"	2000		82.5	70-130			
Benzene	100	0.500	"	100		100	70-130			
Toluene	96.3	2.00	"	100		96.3	70-130			
MTBE	86.8	0.500	"	100		86.8	70-130			
LCS Dup (BE82801-BSD1)				Prepared & Analyzed: 28-May-08						
Surrogate: 4-Bromofluorobenzene	*42.5*		*ug/l*	*50.0*		*85.0*	*70-130*			
Surrogate: Dibromofluoromethane	*39.9*		*"*	*50.0*		*79.8*	*70-130*			
Surrogate: Perdeuterotoluene	*48.4*		*"*	*50.0*		*96.8*	*70-130*			
Gasoline (C6-C12)	1780	50.0	"	2000		89.0	70-130	7.58	20	
Benzene	110	0.500	"	100		110	70-130	9.52	20	
Toluene	107	2.00	"	100		107	70-130	10.5	20	
MTBE	87.3	0.500	"	100		87.3	70-130	0.574	20	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	03-Jun-08 20:03

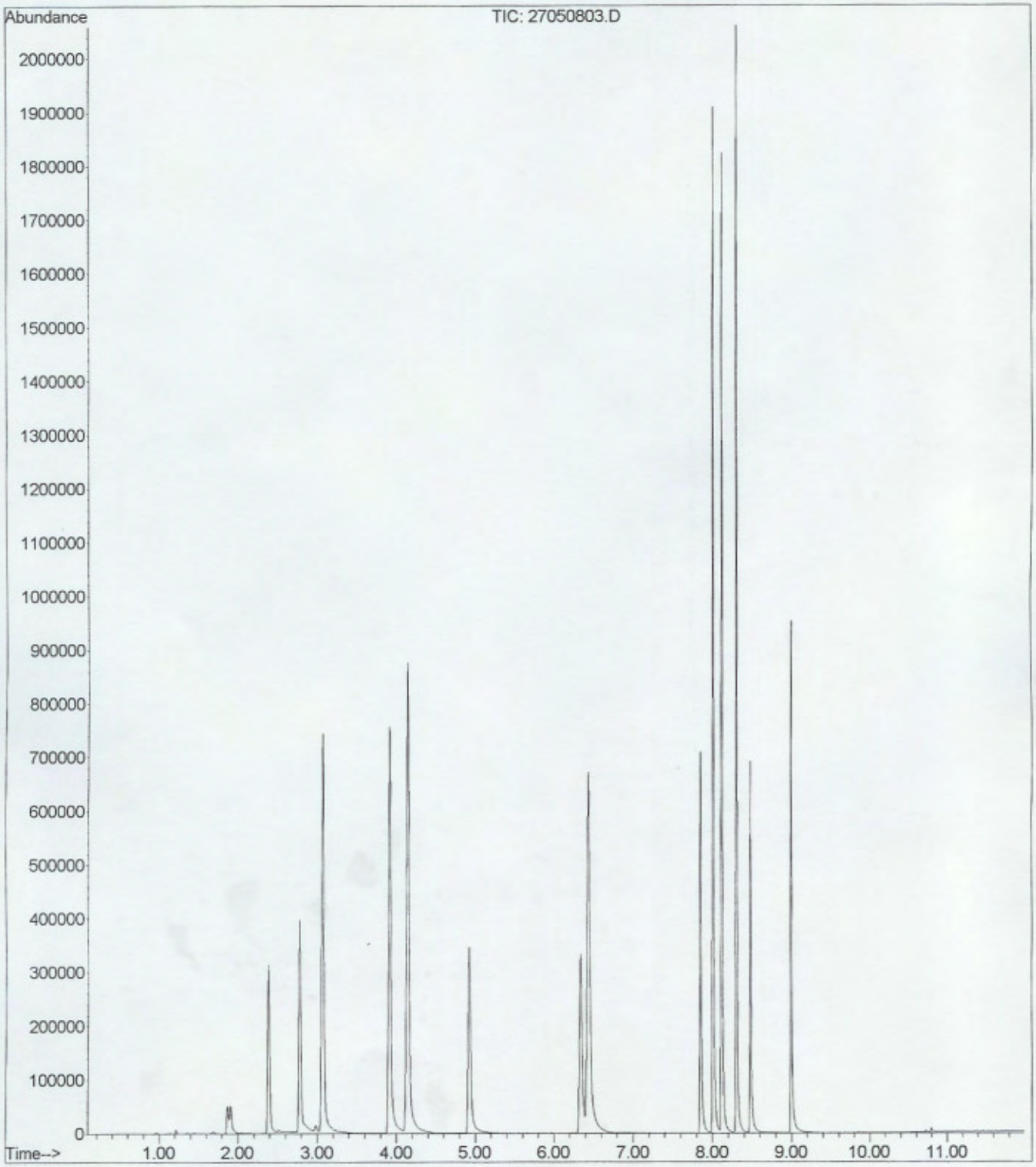
Notes and Definitions

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

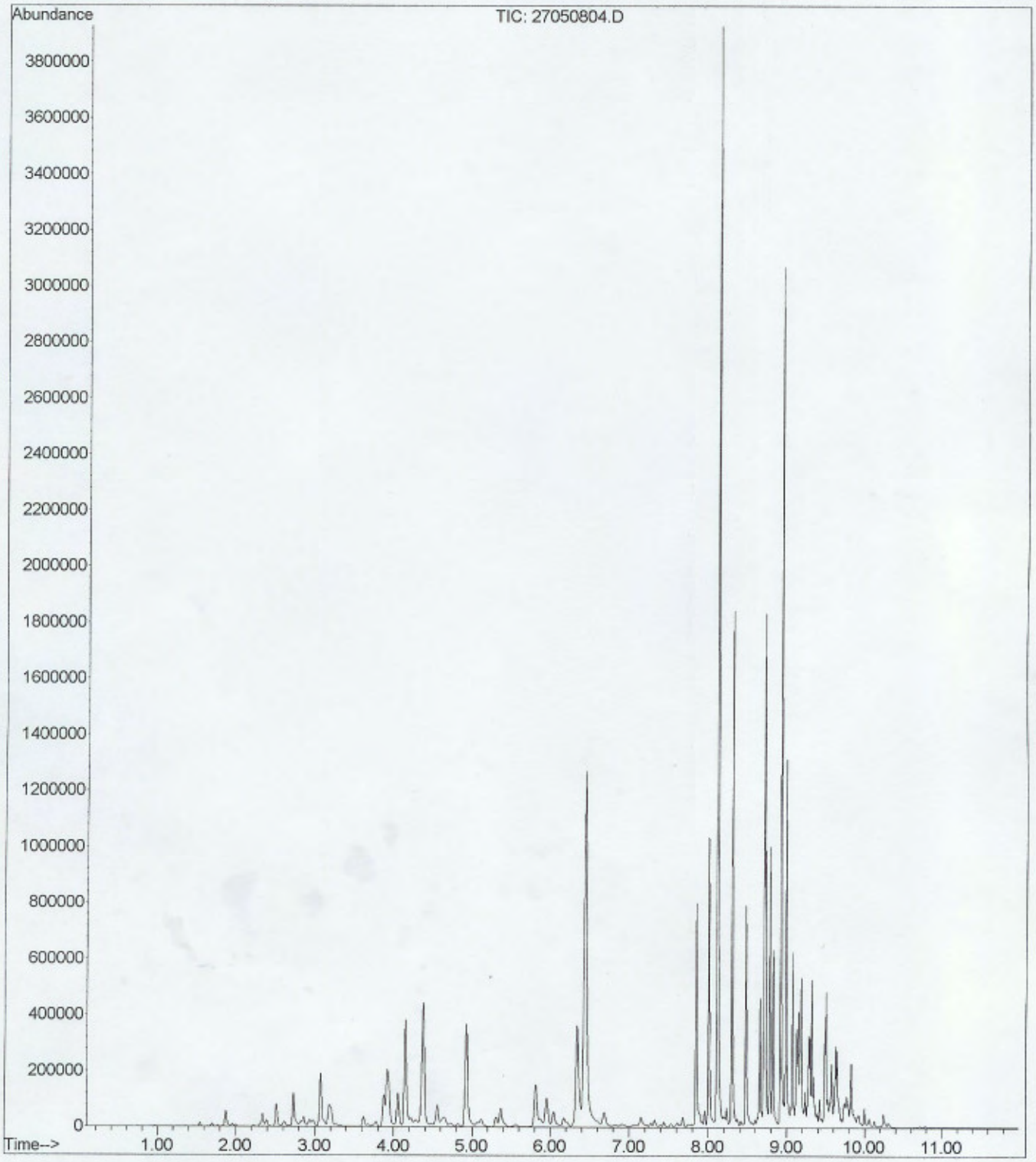
File :C:\MSDChem\1\DATA\2008-May-27-1732.b\27050806.D
Operator :
Acquired : 27 May 2008 7:52 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BE82801-BLK1
Misc Info :
Vial Number: 6



File : C:\MSDChem\1\DATA\2008-May-27-1732.b\27050803.D
Operator :
Acquired : 27 May 2008 6:37 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BE82801-BS1@voc
Misc Info :
Vial Number: 3



File :C:\MSDChem\1\DATA\2008-May-27-1732.b\27050804.D
Operator :
Acquired : 27 May 2008 7:02 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BE82801-BS1@gas
Misc Info :
Vial Number: 4



CHAIN OF CUSTODY

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

PAL LOGIN # 8060009

Sampler: LUIS ELAZEGUI

Project No: 2335

Report To: Joyce Bobek

Project Name: 3609 International Blvd., Oakland, CA

Company : SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Water	Waste	# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE	Analyses: TPHg, BTEX, MtBE - 8260B
	MW-1	6/9/08 10:30		X		3 voas	X			X	X
	MW-3	6/9/08 10:20		X		3 voas	X			X	X

Notes: EDF OUTPUT REQUIRED

RELINQUISHED BY:	RECEIVED BY:
E. Hazlett 6/10/08 15:12 DATE/TIME	06/10/08 15:17 DATE/TIME
DATE/TIME	DATE/TIME
DATE/TIME	DATE/TIME

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

26 June 2008

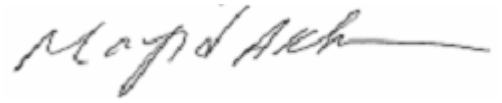
Mansour Sepehr
SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton, CA 94588

RE: 3609 International Blvd, Oakland

Work Order Number: 8060009

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.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	26-Jun-08 18:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	8060009-01	Water	09-Jun-08 10:30	10-Jun-08 18:37
MW-3	8060009-02	Water	09-Jun-08 10:20	10-Jun-08 18:37

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	26-Jun-08 18:22

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (8060009-01) Water Sampled: 09-Jun-08 10:30 Received: 10-Jun-08 18:37									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BF81901	11-Jun-08	19-Jun-08	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	**1.11**	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.8 %*		*70-130*		*"*	*"*	*"*	
Surrogate: Dibromofluoromethane		*114 %*		*70-130*		*"*	*"*	*"*	
Surrogate: Perdeuterotoluene		*102 %*		*70-130*		*"*	*"*	*"*	
MW-3 (8060009-02RE1) Water Sampled: 09-Jun-08 10:20 Received: 10-Jun-08 18:37									
Gasoline (C6-C12)	**3770**	50.0	ug/l	1	BF81901	11-Jun-08	19-Jun-08	EPA 8260B	
Benzene	**177**	0.500	"	"	"	"	"	"	
Ethylbenzene	**161**	0.500	"	"	"	"	"	"	
m&p-Xylene	**105**	2.00	"	"	"	"	"	"	
o-xylene	**104**	0.500	"	"	"	"	"	"	
Toluene	**8.44**	2.00	"	"	"	"	"	"	
MTBE	**1.34**	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*		*70-130*		*"*	*"*	*"*	
Surrogate: Dibromofluoromethane		*105 %*		*70-130*		*"*	*"*	*"*	
Surrogate: Perdeuterotoluene		*107 %*		*70-130*		*"*	*"*	*"*	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	26-Jun-08 18:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

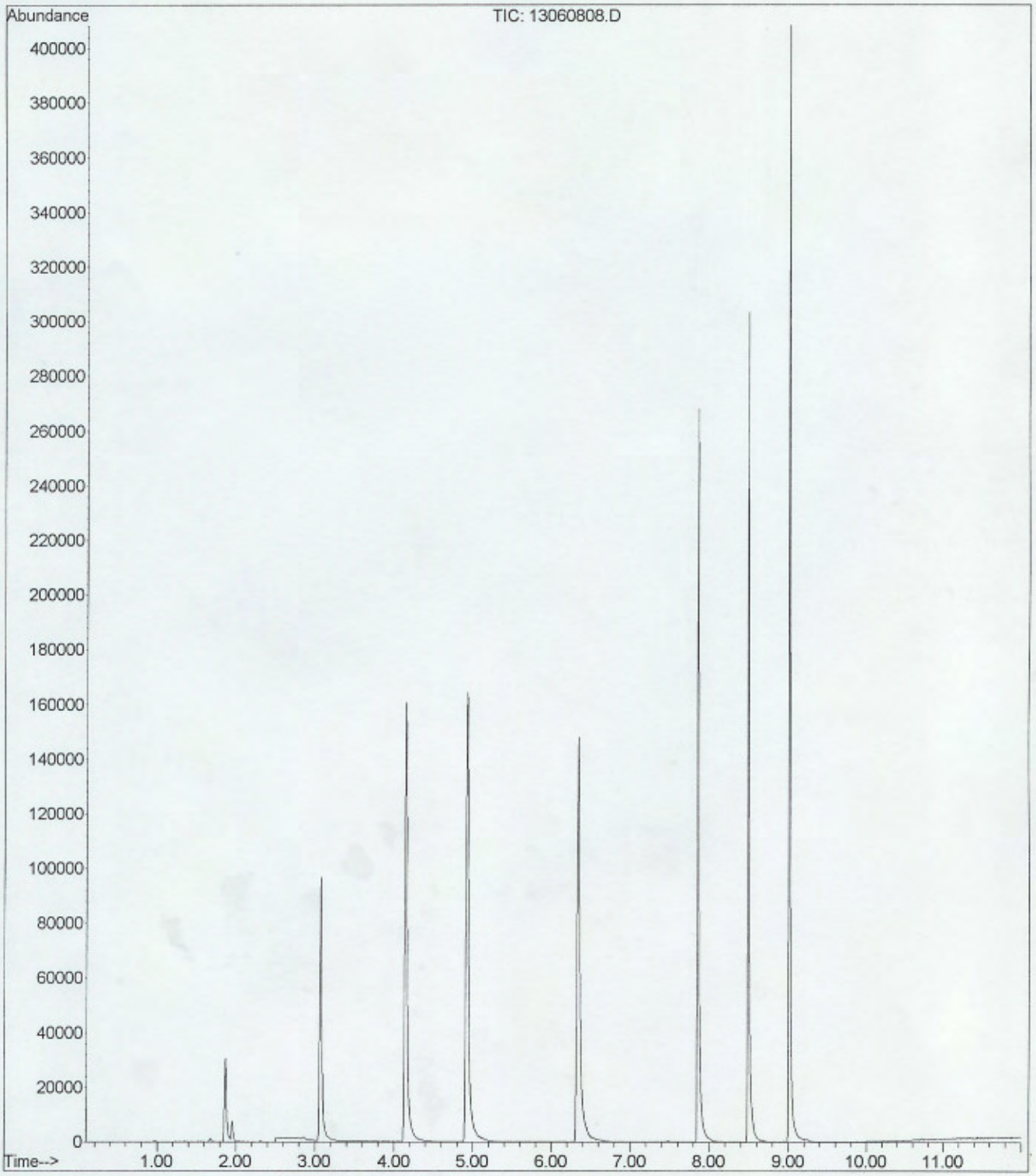
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BF81901 - EPA 5030 Water MS										
Blank (BF81901-BLK1)				Prepared & Analyzed: 19-Jun-08						
Surrogate: 4-Bromofluorobenzene	*44.4*		*ug/l*	*50.0*		*88.8*	*70-130*			
Surrogate: Dibromofluoromethane	*58.0*		*"*	*50.0*		*116*	*70-130*			
Surrogate: Perdeuterotoluene	*48.3*		*"*	*50.0*		*96.6*	*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 (BF81901-BS1)				Prepared & Analyzed: 19-Jun-08						
Surrogate: 4-Bromofluorobenzene	*50.6*		*ug/l*	*50.0*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*50.6*		*"*	*50.0*		*101*	*70-130*			
Surrogate: Perdeuterotoluene	*49.4*		*"*	*50.0*		*98.8*	*70-130*			
Gasoline (C6-C12)	2000	50.0	"	2000		100	70-130			
Benzene	106	0.500	"	100		106	70-130			
Toluene	105	2.00	"	100		105	70-130			
MTBE	102	0.500	"	100		102	70-130			
LCS Dup (BF81901-BSD1)				Prepared & Analyzed: 19-Jun-08						
Surrogate: 4-Bromofluorobenzene	*51.4*		*ug/l*	*50.0*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*50.1*		*"*	*50.0*		*100*	*70-130*			
Surrogate: Perdeuterotoluene	*49.2*		*"*	*50.0*		*98.4*	*70-130*			
Gasoline (C6-C12)	2050	50.0	"	2000		102	70-130	2.47	20	
Benzene	102	0.500	"	100		102	70-130	3.85	20	
Toluene	99.8	2.00	"	100		99.8	70-130	5.08	20	
MTBE	93.3	0.500	"	100		93.3	70-130	8.91	20	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	26-Jun-08 18:22

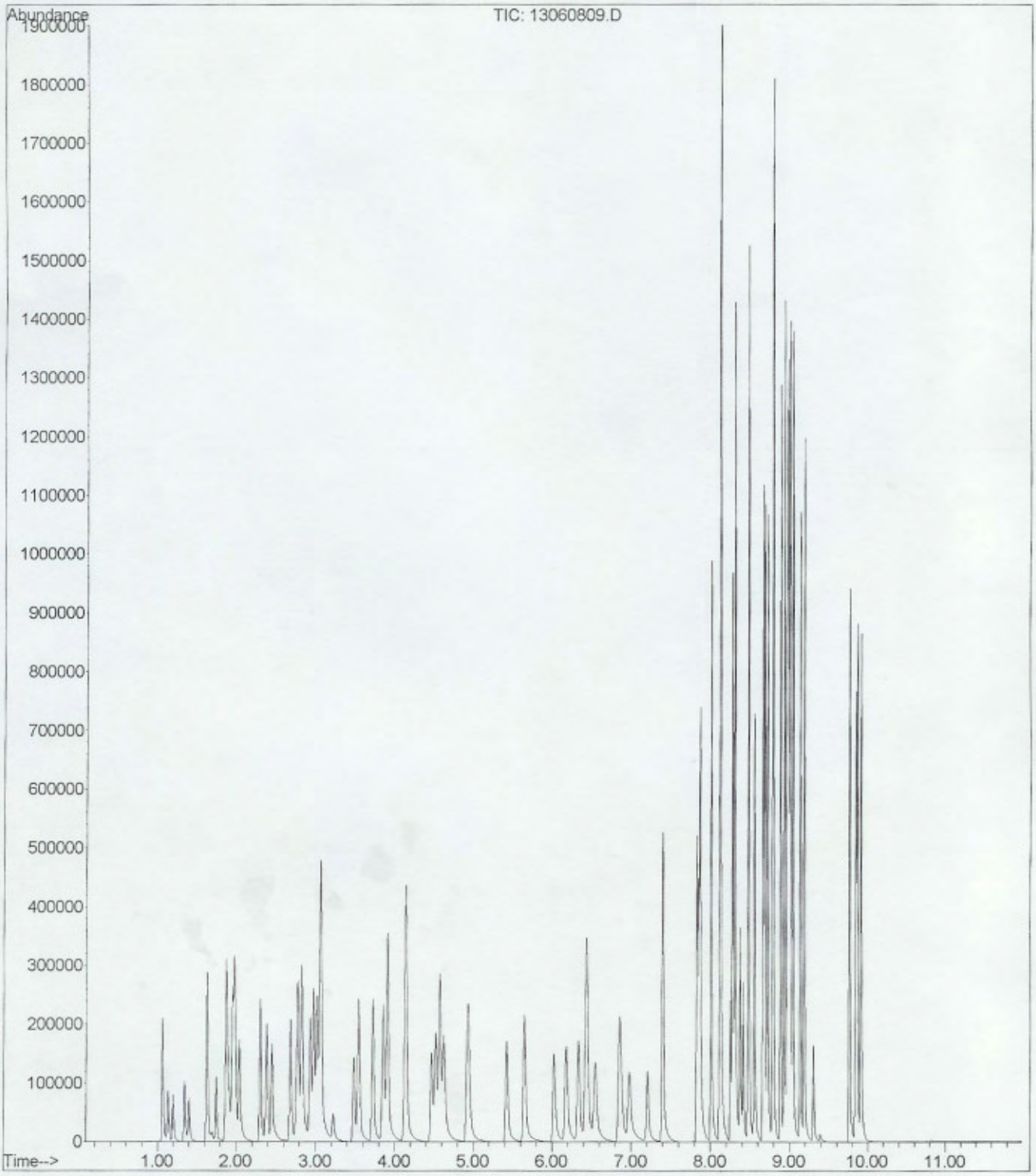
Notes and Definitions

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\2008-Jun-13-1602.b\13060808.D
Operator :
Acquired : 17 Jun 2008 3:40 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BF81901-BLK1
Misc Info :
Vial Number: 8



File :C:\MSDChem\1\DATA\2008-Jun-13-1602.b\13060809.D
Operator :
Acquired : 17 Jun 2008 4:05 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BF81901-BS1
Misc Info :
Vial Number: 9



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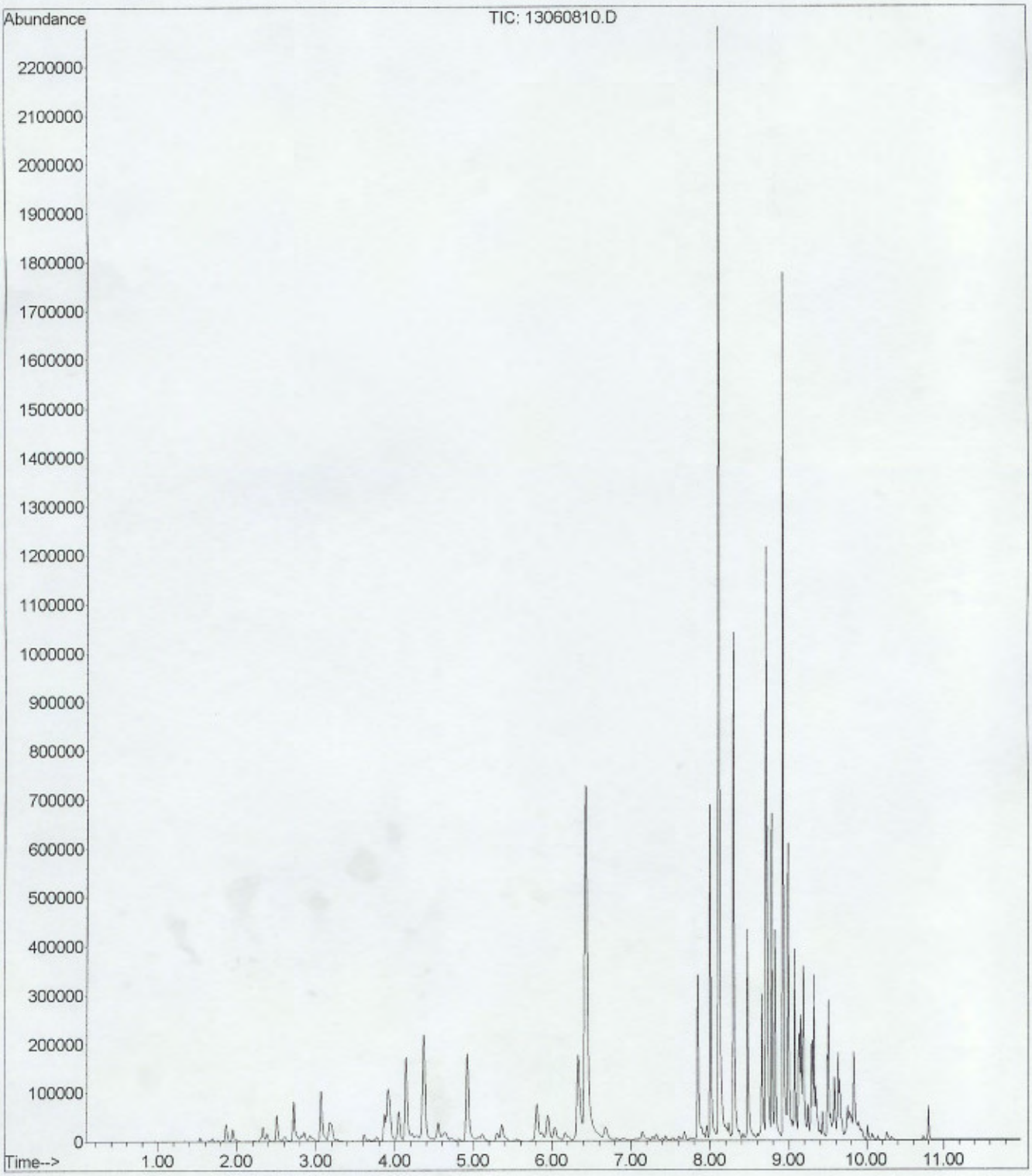
Operator :
Acquired : 17 Jun 2008 4:31 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BF81901-BS1
Misc Info :
Vial Number: 10



CHAIN OF CUSTODY

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

PAL LOGIN # 806013

Sampler: LUIS ELATEGUI

Project No: 2335

Report To: Joyce Bobek

Project Name: 3609 International Blvd., Oakland, CA

Company : SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Matrix: Water	Matrix: Waste	# of Containers	Preservative: HCL	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: ICE	Analyses: TPHg, BTEX, MtBE - 8260B
	MW-1	6/13/08 3:10		X		3 voas	X			X	X
	MW-3	6/13/08 3:25		X		3 voas	X			X	X

Notes: EDF OUTPUT REQUIRED

RELINQUISHED BY:	RECEIVED BY:
6/13/08 6:20pm DATE/TIME	06/16/08 16:20 DATE/TIME
6/16/08 16:15 DATE/TIME	DATE/TIME
DATE/TIME	DATE/TIME

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

07 July 2008

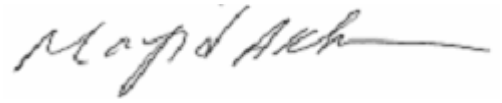
Mansour Sepehr
SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton, CA 94588

RE: 3609 International Blvd, Oakland

Work Order Number: 8060013

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.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	07-Jul-08 13:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	8060013-01	Water	13-Jun-08 15:10	16-Jun-08 16:20
MW-3	8060013-02	Water	13-Jun-08 15:25	16-Jun-08 16:20

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	07-Jul-08 13:08

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (8060013-01) Water Sampled: 13-Jun-08 15:10 Received: 16-Jun-08 16:20									
Gasoline (C6-C12)	**1730**	50.0	ug/l	1	BF81901	19-Jun-08	19-Jun-08	EPA 8260B	
Benzene	**10.6**	0.500	"	"	"	"	"	"	
Ethylbenzene	**52.7**	0.500	"	"	"	"	"	"	
m&p-Xylene	**66.2**	2.00	"	"	"	"	"	"	
o-xylene	**25.8**	0.500	"	"	"	"	"	"	
Toluene	**8.11**	2.00	"	"	"	"	"	"	
MTBE	**8.58**	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.2 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*104 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*104 %*		*70-130*		"	"	"	
MW-3 (8060013-02) Water Sampled: 13-Jun-08 15:25 Received: 16-Jun-08 16:20									
Gasoline (C6-C12)	**6910**	550	ug/l	11	BF81901	19-Jun-08	19-Jun-08	EPA 8260B	
Benzene	**534**	5.50	"	"	"	"	"	"	
Ethylbenzene	**233**	5.50	"	"	"	"	"	"	
m&p-Xylene	**836**	22.0	"	"	"	"	"	"	
o-xylene	**405**	5.50	"	"	"	"	"	"	
Toluene	**283**	22.0	"	"	"	"	"	"	
MTBE	ND	5.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.6 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*108 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*99.8 %*		*70-130*		"	"	"	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	07-Jul-08 13:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

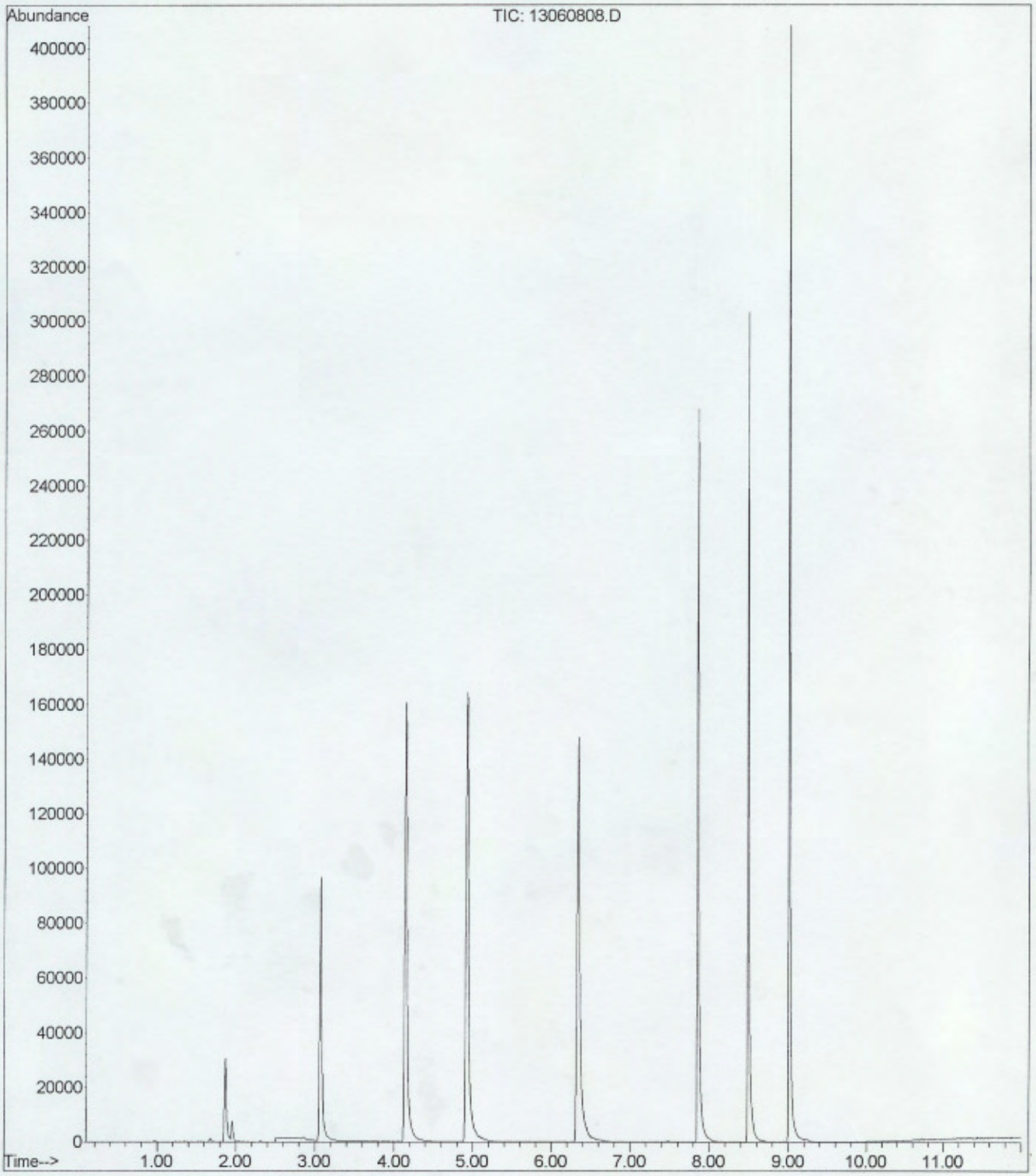
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BF81901 - EPA 5030 Water MS										
Blank (BF81901-BLK1)				Prepared & Analyzed: 19-Jun-08						
Surrogate: 4-Bromofluorobenzene	*44.4*		*ug/l*	*50.0*		*88.8*	*70-130*			
Surrogate: Dibromofluoromethane	*58.0*		*"*	*50.0*		*116*	*70-130*			
Surrogate: Perdeuterotoluene	*48.3*		*"*	*50.0*		*96.6*	*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 (BF81901-BS1)				Prepared & Analyzed: 19-Jun-08						
Surrogate: 4-Bromofluorobenzene	*50.6*		*ug/l*	*50.0*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*50.6*		*"*	*50.0*		*101*	*70-130*			
Surrogate: Perdeuterotoluene	*49.4*		*"*	*50.0*		*98.8*	*70-130*			
Gasoline (C6-C12)	2000	50.0	"	2000		100	70-130			
Benzene	106	0.500	"	100		106	70-130			
Toluene	105	2.00	"	100		105	70-130			
MTBE	102	0.500	"	100		102	70-130			
LCS Dup (BF81901-BSD1)				Prepared & Analyzed: 19-Jun-08						
Surrogate: 4-Bromofluorobenzene	*51.4*		*ug/l*	*50.0*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*50.1*		*"*	*50.0*		*100*	*70-130*			
Surrogate: Perdeuterotoluene	*49.2*		*"*	*50.0*		*98.4*	*70-130*			
Gasoline (C6-C12)	2050	50.0	"	2000		102	70-130	2.47	20	
Benzene	102	0.500	"	100		102	70-130	3.85	20	
Toluene	99.8	2.00	"	100		99.8	70-130	5.08	20	
MTBE	93.3	0.500	"	100		93.3	70-130	8.91	20	

SOMA Environmental Engineering Inc.	Project: 3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number: 2335	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	07-Jul-08 13:08

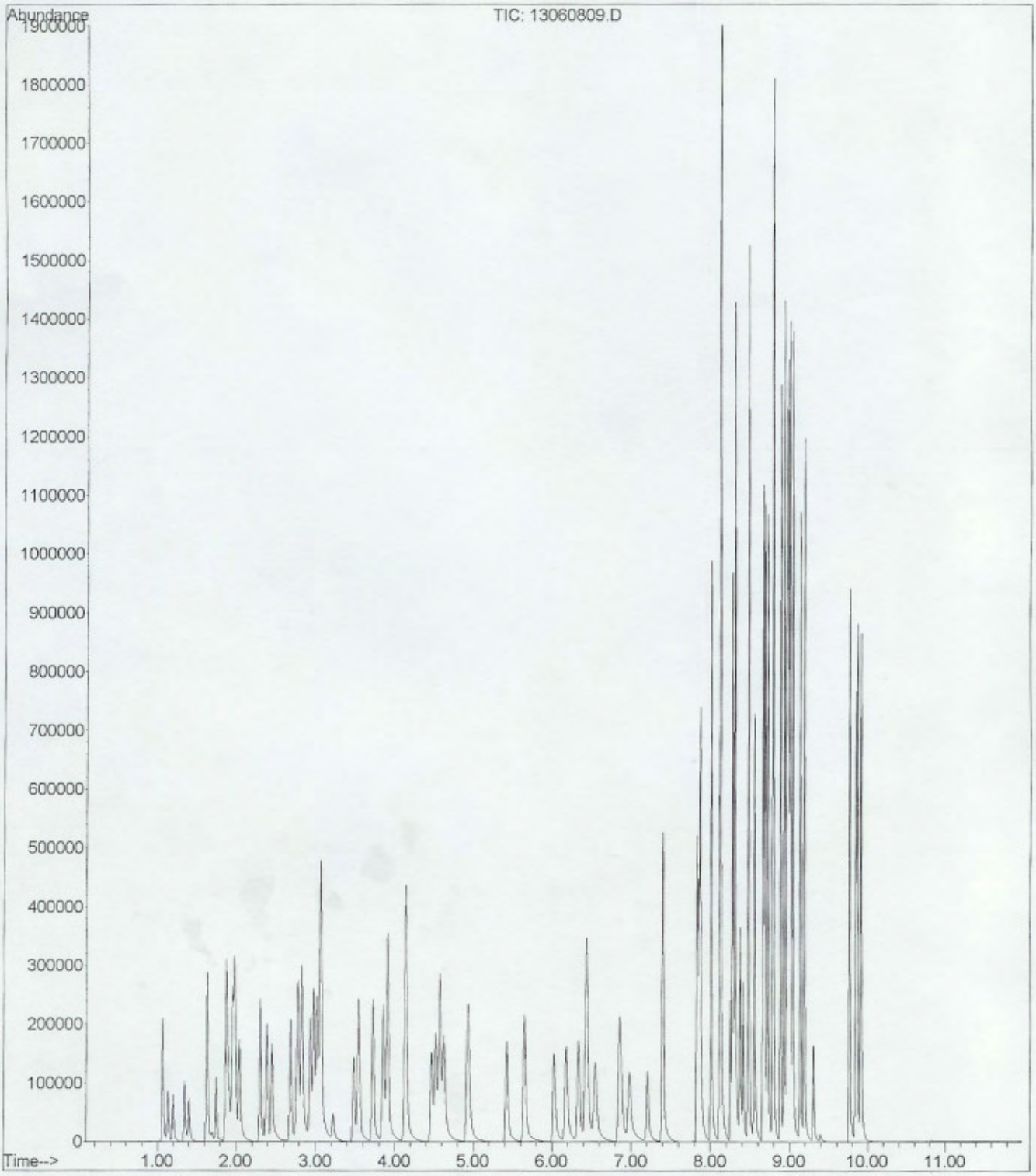
Notes and Definitions

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

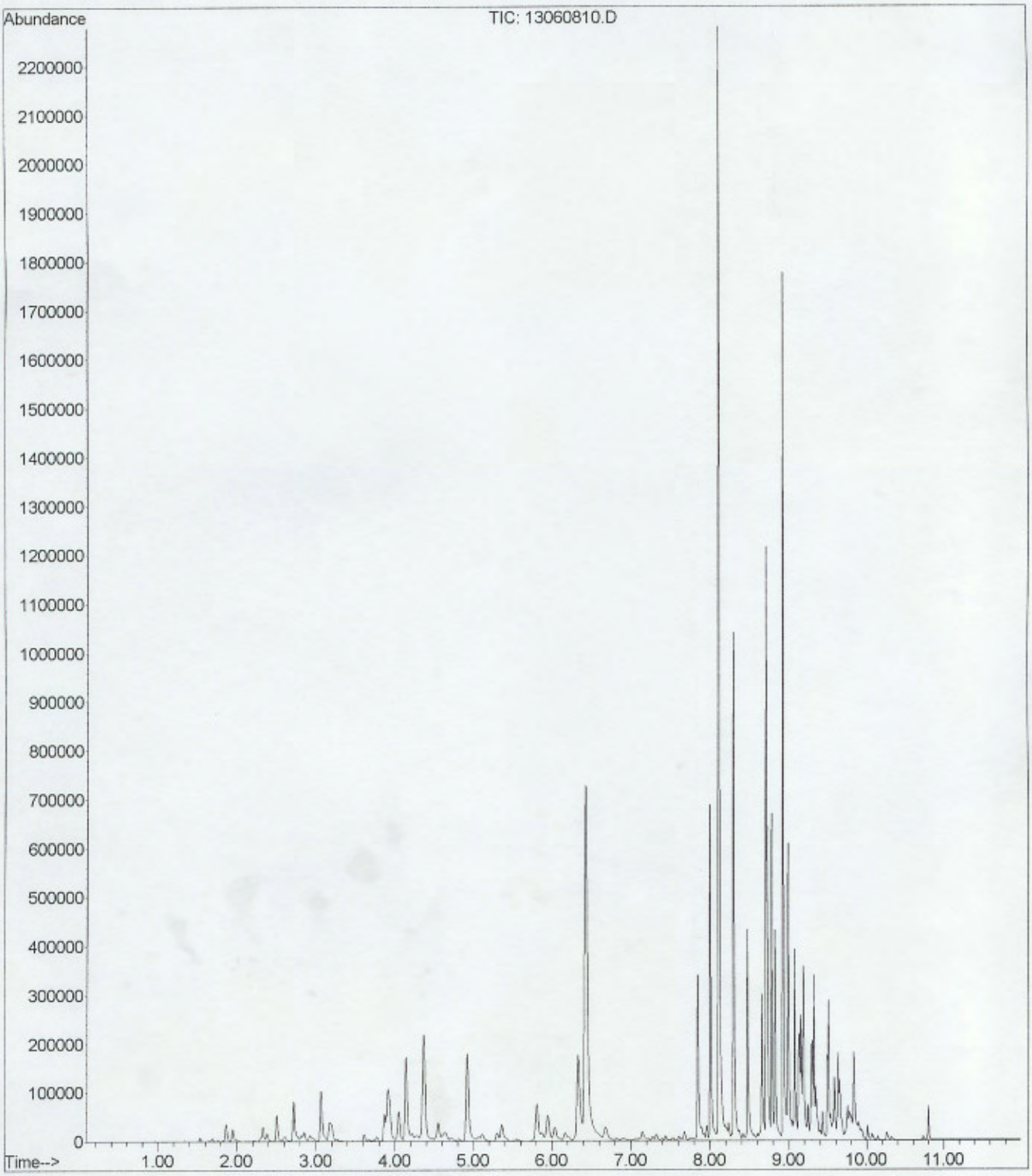
File :C:\MSDChem\1\DATA\2008-Jun-13-1602.b\13060808.D
Operator :
Acquired : 17 Jun 2008 3:40 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BF81901-BLK1
Misc Info :
Vial Number: 8



File :C:\MSDChem\1\DATA\2008-Jun-13-1602.b\13060809.D
Operator :
Acquired : 17 Jun 2008 4:05 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BF81901-BS1
Misc Info :
Vial Number: 9



File :C:\MSDChem\1\DATA\2008-Jun-13-1602.b\13060810.D
Operator :
Acquired : 17 Jun 2008 4:31 pm using AcqMethod OXY32408.M
Instrument : PAL GCMS
Sample Name: BF81901-BS1
Misc Info :
Vial Number: 10



Torrent
LABORATORY, INC.

June 20, 2008

Joyce Bobek
Soma Environmnental Engineering, Inc.
6620 Owens Dr. Suite A
Pleasanton, CA 94588

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

RE: SVE Remediation

Order No.: 0806108

Dear Joyce Bobek:

Torrent Laboratory, Inc. received 2 samples on 6/13/2008 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.
Reported data is applicable for only the samples received as part of the order number referenced above.

Torrent Laboratory, Inc, is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,

Laboratory Director

6/20/08
Date

TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 6/13/2008
Date Reported: 6/20/2008

Client Sample ID: MW-3 INF
Sample Location: 3609 International Blvd
Sample Matrix: SOIL GAS
Date/Time Sampled 6/12/2008 1:00:00 PM

Lab Sample ID: 0806108-001
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	TO-15	6/13/2008	1.6	50	80	7700	µg/m³	P16570
Ethyl Benzene	TO-15	6/13/2008	1.67	50	84	1600	µg/m³	P16570
Ethyl tert-butyl ether (ETBE)	TO-15	6/13/2008	2.09	50	100	ND	µg/m³	P16570
m,p-Xylene	TO-15	6/13/2008	2.05	50	100	8100	µg/m³	P16570
MTBE	TO-15	6/13/2008	1.81	50	90	ND	µg/m³	P16570
o-xylene	TO-15	6/13/2008	2.7	50	140	1900	µg/m³	P16570
t-Butyl alcohol (t-Butanol)	TO-15	6/13/2008	1.515	50	76	ND	µg/m³	P16570
tert-Amyl methyl ether (TAME)	TO-15	6/13/2008	2.09	50	100	ND	µg/m³	P16570
Toluene	TO-15	6/13/2008	1.89	50	94	2300	µg/m³	P16570
Surr: 4-Bromofluorobenzene	TO-15	6/13/2008	0	50	65-135	92.8	%REC	P16570
Gasoline	TO-3(MOD)	6/13/2008	352	100	35000	1000000	µg/m³	T16570

Note: Although TPH as Gasoline constituents are present, TPH value includes a significant portion of non-gasoline hydrocarbons within range of C5-C12 quantified as Gasoline that biases the quantitation.

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 6/13/2008
Date Reported: 6/20/2008

Client Sample ID: MW-1 INF
Sample Location: 3609 International Blvd
Sample Matrix: SOIL GAS
Date/Time Sampled 6/12/2008 2:00:00 PM

Lab Sample ID: 0806108-002
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	TO-15	6/13/2008	1.6	50	80	1400	µg/m³	P16570
Ethyl Benzene	TO-15	6/13/2008	1.67	50	84	430	µg/m³	P16570
Ethyl tert-butyl ether (ETBE)	TO-15	6/13/2008	2.09	50	100	ND	µg/m³	P16570
m,p-Xylene	TO-15	6/13/2008	2.05	50	100	2100	µg/m³	P16570
MTBE	TO-15	6/13/2008	1.81	50	90	ND	µg/m³	P16570
o-xylene	TO-15	6/13/2008	2.7	50	140	580	µg/m³	P16570
t-Butyl alcohol (t-Butanol)	TO-15	6/13/2008	1.515	50	76	ND	µg/m³	P16570
tert-Amyl methyl ether (TAME)	TO-15	6/13/2008	2.09	50	100	ND	µg/m³	P16570
Toluene	TO-15	6/13/2008	1.89	50	94	ND	µg/m³	P16570
Surr: 4-Bromofluorobenzene	TO-15	6/13/2008	0	50	65-135	91.2	%REC	P16570
Gasoline	TO-3(MOD)	6/13/2008	352	100	35000	1100000	µg/m³	T16570

Note: Although TPH as Gasoline constituents are present, TPH value includes a significant portion of non-gasoline hydrocarbons within range of C5-C12 quantified as Gasoline that biases the quantitation.

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
a	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0806108
Project: SVE Remediation

ANALYTICAL QC SUMMARY REPORT

BatchID: P16570

Sample ID **BLK-P16570**	SampType: **MBLK**	TestCode: **TO-15 Petrol**	Units: **ppbv**	Prep Date: **6/12/2008**	RunNo: **16570**
Client ID: **ZZZZZ**	Batch ID: **P16570**	TestNo: **TO-15**		Analysis Date: **6/12/2008**	SeqNo: **237972**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50									
Ethyl Benzene	ND	0.50									
Ethyl tert-butyl ether (ETBE)	ND	0.50									
m,p-Xylene	ND	1.0									
MTBE	ND	0.50									
o-xylene	ND	0.50									
t-Butyl alcohol (t-Butanol)	ND	0.50									
tert-Amyl methyl ether (TAME)	ND	0.50									
Toluene	ND	0.50									
Surr: 4-Bromofluorobenzene	17.72	0	20	0	88.6	65	135				

Sample ID **LCS-P16570**	SampType: **LCS**	TestCode: **TO-15 Petrol**	Units: **ppbv**	Prep Date: **6/11/2008**	RunNo: **16570**
Client ID: **ZZZZZ**	Batch ID: **P16570**	TestNo: **TO-15**		Analysis Date: **6/11/2008**	SeqNo: **237973**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	15.87	0.50	20	0	79.4	70	130				
Ethyl Benzene	16.93	0.50	20	0	84.6	70	130				
Ethyl tert-butyl ether (ETBE)	16.64	0.50	20	0	83.2	70	130				
m,p-Xylene	34.47	1.0	40	0	86.2	70	130				
MTBE	17.36	0.50	20	0	86.8	70	130				
o-xylene	17.54	0.50	20	0	87.7	70	130				
t-Butyl alcohol (t-Butanol)	16.63	0.50	20	0	83.2	70	130				
tert-Amyl methyl ether (TAME)	17.94	0.50	20	0	89.7	70	130				
Toluene	17.53	0.50	20	0	87.6	70	130				
Surr: 4-Bromofluorobenzene	18.03	0	20	0	90.2	70	130				

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0806108
Project: SVE Remediation

ANALYTICAL QC SUMMARY REPORT

BatchID: P16570

Sample ID **LCSD-P16570**	SampType: **LCSD**	TestCode: **TO-15 Petrol**	Units: **ppbv**	Prep Date: **6/12/2008**	RunNo: **16570**
Client ID: **ZZZZZ**	Batch ID: **P16570**	TestNo: **TO-15**		Analysis Date: **6/12/2008**	SeqNo: **237974**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	17.87	0.50	20	0	89.4	70	130	15.87	11.9	30	
Ethyl Benzene	17.72	0.50	20	0	88.6	70	130	16.93	4.56	30	
Ethyl tert-butyl ether (ETBE)	18.52	0.50	20	0	92.6	70	130	16.64	10.7	30	
m,p-Xylene	35.79	1.0	40	0	89.5	70	130	34.47	3.76	30	
MTBE	17.50	0.50	20	0	87.5	70	130	17.36	0.803	30	
o-xylene	18.19	0.50	20	0	91.0	70	130	17.54	3.64	30	
t-Butyl alcohol (t-Butanol)	18.47	0.50	20	0	92.4	70	130	16.63	10.5	30	
tert-Amyl methyl ether (TAME)	17.82	0.50	20	0	89.1	70	130	17.94	0.671	30	
Toluene	18.33	0.50	20	0	91.7	70	130	17.53	4.46	30	
Surr: 4-Bromofluorobenzene	18.27	0	20	0	91.4	70	130	0	0	0	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0806108
Project: SVE Remediation

ANALYTICAL QC SUMMARY REPORT

BatchID: T16570

Sample ID	**MB-T16570**	SampType:	**MBLK**	TestCode:	**TO-3Gas (MO**	Units:	**ppbv**	Prep Date:	**6/13/2008**	RunNo:	**16570**
Client ID:	**ZZZZZ**	Batch ID:	**T16570**	TestNo:	**TO-3(MOD)**			Analysis Date:	**6/13/2008**	SeqNo:	**238127**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	100									

Sample ID	**LCS-T16570**	SampType:	**LCS**	TestCode:	**TO-3Gas (MO**	Units:	**ppbv**	Prep Date:	**6/13/2008**	RunNo:	**16570**
Client ID:	**ZZZZZ**	Batch ID:	**T16570**	TestNo:	**TO-3(MOD)**			Analysis Date:	**6/13/2008**	SeqNo:	**238129**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	211.4	100	250	0	84.6	50	150				

Sample ID	**LCSD-T16570**	SampType:	**LCSD**	TestCode:	**TO-3Gas (MO**	Units:	**ppbv**	Prep Date:	**6/13/2008**	RunNo:	**16570**
Client ID:	**ZZZZZ**	Batch ID:	**T16570**	TestNo:	**TO-3(MOD)**			Analysis Date:	**6/13/2008**	SeqNo:	**238130**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	203.2	100	250	0	81.3	50	150	211.4	3.98	30	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

Torrent LABORATORY, INC.
483 Sinclair Frontage Road
Milpitas, CA 95035
Phone: 408.263.5258
FAX: 408.263.8293
www.torrentlab.com

RESET

CHAIN OF CUSTODY

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

LAB WORK ORDER NO: 0806108

Company Name: SOMA Environmental Engr. Inc.	Location of Sampling: 3609 International Blvd, Oakland, CA
Address: 6620 Owens Dr. Suite A	Purpose: S.V.E + Remediation
City: Pleasanton State: CA Zip Code: 94588	Special Instructions / Comments:
Telephone: 925.734.6400 FAX: 925.734.6401	
REPORT TO: Joyce Bobek SAMPLER: Jesse Acedillo	P.O. #: 2335 EMAIL: jbobek@somaenv.com

TURNAROUND TIME:
- ☐ 10 Work Days
- ☐ 7 Work Days
- ☐ 5 Work Days
- ☐ 3 Work Days
- ☐ 2 Work Days
- ☐ 1 Work Day
- ☐ Noon - Nxt Day
- ☐ 2 - 8 Hours
- ☐ Other

SAMPLE TYPE:
- ☐ Storm Water
- ☐ Waste Water
- ☐ Ground Water
- ☐ Soil
- ☐ Air
- ☑ Other Soil Vapor

REPORT FORMAT:
- ☐ QC Level IV
- ☐ EDF
- ☐ Excel / EDD

ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TO-3 - TPH-gas	TO-15 BTEX MtBE, 5 Oxygenates							REMARKS
01A	MW-3 INF	6/12/8@1300	air	1	Tedlar bag	X	X							
02A	MW-1 INF	6/12/8@1400	air	1	Tedlar bag	X	X							

	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:
1		Jesse Acedillo	6/13/8	0900		PAUL DIAZ	613-08	12:50
2		PAUL DIAZ	6-13-08	1:50		Falgum	6-13-08	1:50pm

Were Samples Received in Good Condition? ☐ Yes ☐ NO Samples on Ice? ☐ Yes ☐ NO Method of Shipment 141 - Speed Sample seals intact? ☐ Yes ☐ NO ☐ N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrange -ments are made.

Log In By: Date: Log In Reviewed By: Date:

Page ____ of ____

Torrent
LABORATORY, INC.

June 18, 2008

Joyce Bobek
Soma Environmnental Engineering, Inc.
6620 Owens Dr. Suite A
Pleasanton, CA 94588

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

RE: 2335

Order No.: 0806064

Dear Joyce Bobek:

Torrent Laboratory, Inc. received 3 samples on 6/10/2008 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.
Reported data is applicable for only the samples received as part of the order number referenced above.

Torrent Laboratory, Inc, is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,

Laboratory Director

6/18/08
Date

TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 6/10/2008
Date Reported: 6/18/2008

Client Sample ID: MW-3 EFF
Sample Location: 3609 International Blvd
Sample Matrix: SOIL GAS
Date/Time Sampled 6/10/2008 8:00:00 AM

Lab Sample ID: 0806064-001
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	6/12/2008	1.99	10	20	ND	µg/m³	R16570
1,1,1,2-Tetrachloroethane	TO-15	6/12/2008	3.44	10	34	ND	µg/m³	R16570
1,1,1-Trichloroethane	TO-15	6/12/2008	2.73	10	27	ND	µg/m³	R16570
1,1,2,2-Tetrachloroethane	TO-15	6/12/2008	3.44	10	34	ND	µg/m³	R16570
1,1,2-Trichloroethane	TO-15	6/12/2008	2.73	10	27	ND	µg/m³	R16570
1,1-Dichloroethane	TO-15	6/12/2008	2.03	10	20	ND	µg/m³	R16570
1,2,4-Trichlorobenzene	TO-15	6/12/2008	3.56	10	36	ND	µg/m³	R16570
1,2,4-Trimethylbenzene	TO-15	6/12/2008	2.46	10	25	ND	µg/m³	R16570
1,2-Dibromoethane(Ethylene dibromide)	TO-15	6/12/2008	3.84	10	38	ND	µg/m³	R16570
1,2-Dichlorobenzene	TO-15	6/12/2008	3.01	10	30	ND	µg/m³	R16570
1,2-Dichloroethane	TO-15	6/12/2008	2.03	10	20	ND	µg/m³	R16570
1,2-Dichloropropane	TO-15	6/12/2008	2.31	10	23	ND	µg/m³	R16570
1,3,5-Trimethylbenzene	TO-15	6/12/2008	2.46	10	25	ND	µg/m³	R16570
1,3-Butadiene	TO-15	6/12/2008	1.11	10	11	ND	µg/m³	R16570
1,3-Dichlorobenzene	TO-15	6/12/2008	3.01	10	30	ND	µg/m³	R16570
1,4-Dichlorobenzene	TO-15	6/12/2008	3.01	10	30	ND	µg/m³	R16570
1,4-Dioxane	TO-15	6/12/2008	1.8	10	18	ND	µg/m³	R16570
2-Butanone (MEK)	TO-15	6/12/2008	1.48	10	15	ND	µg/m³	R16570
2-Hexanone	TO-15	6/12/2008	2.05	10	20	ND	µg/m³	R16570
4-Ethyl Toluene	TO-15	6/12/2008	2.46	10	25	ND	µg/m³	R16570
4-Methyl-2-Pentanone (MIBK)	TO-15	6/12/2008	2.05	10	20	ND	µg/m³	R16570
Acetone	TO-15	6/12/2008	9.52	10	95	ND	µg/m³	R16570
Benzene	TO-15	6/12/2008	1.6	10	16	ND	µg/m³	R16570
Benzyl Chloride	TO-15	6/12/2008	2.88	10	29	ND	µg/m³	R16570
Bromodichloromethane	TO-15	6/12/2008	3.35	10	34	ND	µg/m³	R16570
Bromoform	TO-15	6/12/2008	5.17	10	52	ND	µg/m³	R16570
Bromomethane	TO-15	6/12/2008	1.94	10	19	ND	µg/m³	R16570
Carbon Disulfide	TO-15	6/12/2008	1.56	10	16	ND	µg/m³	R16570
Carbon Tetrachloride	TO-15	6/12/2008	3.15	10	32	ND	µg/m³	R16570
Chlorobenzene	TO-15	6/12/2008	2.3	10	23	ND	µg/m³	R16570
Chloroethane	TO-15	6/12/2008	1.32	10	13	ND	µg/m³	R16570
Chloroform	TO-15	6/12/2008	2.44	10	24	ND	µg/m³	R16570
Chloromethane	TO-15	6/12/2008	1.04	10	10	ND	µg/m³	R16570
cis-1,2-dichloroethene	TO-15	6/12/2008	1.98	10	20	ND	µg/m³	R16570
cis-1,3-Dichloropropene	TO-15	6/12/2008	2.27	10	23	ND	µg/m³	R16570
Dibromochloromethane	TO-15	6/12/2008	4.26	10	43	ND	µg/m³	R16570

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 6/10/2008
Date Reported: 6/18/2008

Client Sample ID: MW-3 EFF
Sample Location: 3609 International Blvd
Sample Matrix: SOIL GAS
Date/Time Sampled 6/10/2008 8:00:00 AM

Lab Sample ID: 0806064-001
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Dichlorodifluoromethane	TO-15	6/12/2008	2.48	10	25	ND	µg/m³	R16570
Diisopropyl ether (DIPE)	TO-15	6/12/2008	2.09	10	21	ND	µg/m³	R16570
Ethyl Acetate	TO-15	6/12/2008	1.8	10	18	ND	µg/m³	R16570
Ethyl Benzene	TO-15	6/12/2008	2.17	10	22	ND	µg/m³	R16570
Ethyl tert-butyl ether (ETBE)	TO-15	6/12/2008	2.09	10	21	ND	µg/m³	R16570
Freon 113	TO-15	6/12/2008	3.83	10	38	ND	µg/m³	R16570
Hexachlorobutadiene	TO-15	6/12/2008	5.34	10	53	ND	µg/m³	R16570
Hexane	TO-15	6/12/2008	3.52	10	35	ND	µg/m³	R16570
Isopropanol	TO-15	6/12/2008	16.4	10	160	ND	µg/m³	R16570
m,p-Xylene	TO-15	6/12/2008	2.05	10	20	ND	µg/m³	R16570
Methylene Chloride	TO-15	6/12/2008	3.61	10	36	ND	µg/m³	R16570
MTBE	TO-15	6/12/2008	1.81	10	18	ND	µg/m³	R16570
Naphthalene	TO-15	6/12/2008	2.62	10	26	ND	µg/m³	R16570
o-xylene	TO-15	6/12/2008	2.17	10	22	ND	µg/m³	R16570
Styrene	TO-15	6/12/2008	2.13	10	21	ND	µg/m³	R16570
t-Butyl alcohol (t-Butanol)	TO-15	6/12/2008	1.515	10	15	110	µg/m³	R16570
tert-Amyl methyl ether (TAME)	TO-15	6/12/2008	2.09	10	21	ND	µg/m³	R16570
Tetrachloroethene	TO-15	6/12/2008	3.39	10	34	ND	µg/m³	R16570
Toluene	TO-15	6/12/2008	1.89	10	19	ND	µg/m³	R16570
trans-1,2-Dichloroethene	TO-15	6/12/2008	1.98	10	20	ND	µg/m³	R16570
Trichloroethene	TO-15	6/12/2008	2.69	10	27	ND	µg/m³	R16570
Trichlorofluoromethane	TO-15	6/12/2008	2.48	10	25	ND	µg/m³	R16570
Vinyl Acetate	TO-15	6/12/2008	1.76	10	18	ND	µg/m³	R16570
Vinyl Chloride	TO-15	6/12/2008	1.28	10	13	ND	µg/m³	R16570
Surr: 4-Bromofluorobenzene	TO-15	6/12/2008	0	10	65-135	88.8	%REC	R16570

Note: The reporting limits were raised due to insuficient sample volume supplied. Results reported to the MDL.

Gasoline	TO-3(MOD)	6/12/2008	352	10	3500	ND	µg/m³	G16570

Note: See comment for TO_15 analysis.

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 6/10/2008
Date Reported: 6/18/2008

Client Sample ID: MW-3 INF
Sample Location: 3609 International Blvd
Sample Matrix: SOIL GAS
Date/Time Sampled 6/10/2008 8:20:00 AM

Lab Sample ID: 0806064-002
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	6/12/2008	0.794	500	400	ND	µg/m³	R16570
1,1,1,2-Tetrachloroethane	TO-15	6/12/2008	0.687	500	340	ND	µg/m³	R16570
1,1,1-Trichloroethane	TO-15	6/12/2008	0.819	500	410	ND	µg/m³	R16570
1,1,2,2-Tetrachloroethane	TO-15	6/12/2008	1.0305	500	520	ND	µg/m³	R16570
1,1,2-Trichloroethane	TO-15	6/12/2008	1.0374	500	520	ND	µg/m³	R16570
1,1-Dichloroethane	TO-15	6/12/2008	0.6885	500	340	ND	µg/m³	R16570
1,2,4-Trichlorobenzene	TO-15	6/12/2008	0.4984	500	250	ND	µg/m³	R16570
1,2,4-Trimethylbenzene	TO-15	6/12/2008	0.8856	500	440	1900	µg/m³	R16570
1,2-Dibromoethane(Ethylene dibromide)	TO-15	6/12/2008	1.0752	500	540	ND	µg/m³	R16570
1,2-Dichlorobenzene	TO-15	6/12/2008	0.601	500	300	ND	µg/m³	R16570
1,2-Dichloroethane	TO-15	6/12/2008	0.648	500	320	ND	µg/m³	R16570
1,2-Dichloropropane	TO-15	6/12/2008	1.0164	500	510	ND	µg/m³	R16570
1,3,5-Trimethylbenzene	TO-15	6/12/2008	0.6888	500	340	1060 J	µg/m³	R16570
1,3-Butadiene	TO-15	6/12/2008	0.5967	500	300	ND	µg/m³	R16570
1,3-Dichlorobenzene	TO-15	6/12/2008	0.3606	500	180	ND	µg/m³	R16570
1,4-Dichlorobenzene	TO-15	6/12/2008	0.6611	500	330	ND	µg/m³	R16570
1,4-Dioxane	TO-15	6/12/2008	0.504	500	250	ND	µg/m³	R16570
2-Butanone (MEK)	TO-15	6/12/2008	0.4425	500	220	ND	µg/m³	R16570
2-Hexanone	TO-15	6/12/2008	0.861	500	430	ND	µg/m³	R16570
4-Ethyl Toluene	TO-15	6/12/2008	0.738	500	370	2300	µg/m³	R16570
4-Methyl-2-Pentanone (MIBK)	TO-15	6/12/2008	0.656	500	330	ND	µg/m³	R16570
Acetone	TO-15	6/12/2008	0.5712	500	290	ND	µg/m³	R16570
Benzene	TO-15	6/12/2008	0.8932	500	450	8300	µg/m³	R16570
Benzyl Chloride	TO-15	6/12/2008	0.69	500	340	ND	µg/m³	R16570
Bromodichloromethane	TO-15	6/12/2008	0.871	500	440	ND	µg/m³	R16570
Bromoform	TO-15	6/12/2008	1.7578	500	880	ND	µg/m³	R16570
Bromomethane	TO-15	6/12/2008	0.776	500	390	ND	µg/m³	R16570
Carbon Disulfide	TO-15	6/12/2008	0.4976	500	250	ND	µg/m³	R16570
Carbon Tetrachloride	TO-15	6/12/2008	0.9435	500	470	ND	µg/m³	R16570
Chlorobenzene	TO-15	6/12/2008	0.4232	500	210	ND	µg/m³	R16570
Chloroethane	TO-15	6/12/2008	0.396	500	200	ND	µg/m³	R16570
Chloroform	TO-15	6/12/2008	1.952	500	980	ND	µg/m³	R16570
Chloromethane	TO-15	6/12/2008	0.7245	500	360	ND	µg/m³	R16570
cis-1,2-dichloroethene	TO-15	6/12/2008	0.5544	500	280	ND	µg/m³	R16570
cis-1,3-Dichloropropene	TO-15	6/12/2008	0.3632	500	180	ND	µg/m³	R16570
Dibromochloromethane	TO-15	6/12/2008	0.9372	500	470	ND	µg/m³	R16570
Dichlorodifluoromethane	TO-15	6/12/2008	0.7425	500	370	ND	µg/m³	R16570
Diisopropyl ether (DIPE)	TO-15	6/12/2008	0.6688	500	330	ND	µg/m³	R16570
Ethyl Acetate	TO-15	6/12/2008	0.4248	500	210	ND	µg/m³	R16570
Ethyl Benzene	TO-15	6/12/2008	0.31062	500	160	2100	µg/m³	R16570
Ethyl tert-butyl ether (ETBE)	TO-15	6/12/2008	0.6688	500	330	ND	µg/m³	R16570
Freon 113	TO-15	6/12/2008	0.9192	500	460	ND	µg/m³	R16570
Hexachlorobutadiene	TO-15	6/12/2008	1.8139	500	910	ND	µg/m³	R16570

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 6/10/2008
Date Reported: 6/18/2008

Client Sample ID: MW-3 INF
Sample Location: 3609 International Blvd
Sample Matrix: SOIL GAS
Date/Time Sampled 6/10/2008 8:20:00 AM

Lab Sample ID: 0806064-002
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Hexane	TO-15	6/12/2008	1.7952	500	900	17000	µg/m³	R16570
Isopropanol	TO-15	6/12/2008	1.6359	500	820	ND	µg/m³	R16570
m,p-Xylene	TO-15	6/12/2008	0.492	500	250	11000	µg/m³	R16570
Methylene Chloride	TO-15	6/12/2008	0.6859	500	340	ND	µg/m³	R16570
MTBE	TO-15	6/12/2008	0.5054	500	250	ND	µg/m³	R16570
Naphthalene	TO-15	6/12/2008	2.62	500	1300	ND	µg/m³	R16570
o-xylene	TO-15	6/12/2008	0.62062	500	310	2400	µg/m³	R16570
Styrene	TO-15	6/12/2008	0.639	500	320	ND	µg/m³	R16570
t-Butyl alcohol (t-Butanol)	TO-15	6/12/2008	0.4898	500	240	ND	µg/m³	R16570
tert-Amyl methyl ether (TAME)	TO-15	6/12/2008	0.6688	500	330	ND	µg/m³	R16570
Tetrachloroethene	TO-15	6/12/2008	1.2882	500	640	ND	µg/m³	R16570
Toluene	TO-15	6/12/2008	0.5278	500	260	ND	µg/m³	R16570
trans-1,2-Dichloroethene	TO-15	6/12/2008	0.5544	500	280	ND	µg/m³	R16570
Trichloroethene	TO-15	6/12/2008	0.52626	500	260	ND	µg/m³	R16570
Trichlorofluoromethane	TO-15	6/12/2008	0.693	500	350	ND	µg/m³	R16570
Vinyl Acetate	TO-15	6/12/2008	0.64064	500	320	ND	µg/m³	R16570
Vinyl Chloride	TO-15	6/12/2008	0.24832	500	120	ND	µg/m³	R16570
Surr: 4-Bromofluorobenzene	TO-15	6/12/2008	0	500	65-135	87.7	%REC	R16570

Note: Results reported to the MDL. Values reported between the MDL and RL should be considered as estimated and are qualified with the appropriate "J" flag.

Gasoline	TO-3(MOD)	6/12/2008	352	1000	350000	1290000x	µg/m³	G16570

Note: x- Although gasoline compounds are present, results are elevated due to a significant portion of non-gasoline hydrocarbons within range of C5-C12 quantified as Gasoline.

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 6/10/2008
Date Reported: 6/18/2008

Client Sample ID: MW-1 INF
Sample Location: 3609 International Blvd
Sample Matrix: SOIL GAS
Date/Time Sampled 6/10/2008 9:30:00 AM

Lab Sample ID: 0806064-003
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	6/12/2008	0.794	500	400	ND	µg/m³	R16570
1,1,1,2-Tetrachloroethane	TO-15	6/12/2008	0.687	500	340	ND	µg/m³	R16570
1,1,1-Trichloroethane	TO-15	6/12/2008	0.819	500	410	ND	µg/m³	R16570
1,1,2,2-Tetrachloroethane	TO-15	6/12/2008	1.0305	500	520	ND	µg/m³	R16570
1,1,2-Trichloroethane	TO-15	6/12/2008	1.0374	500	520	ND	µg/m³	R16570
1,1-Dichloroethane	TO-15	6/12/2008	0.6885	500	340	ND	µg/m³	R16570
1,2,4-Trichlorobenzene	TO-15	6/12/2008	0.4984	500	250	ND	µg/m³	R16570
1,2,4-Trimethylbenzene	TO-15	6/12/2008	0.8856	500	440	1700	µg/m³	R16570
1,2-Dibromoethane(Ethylene dibromide)	TO-15	6/12/2008	1.0752	500	540	ND	µg/m³	R16570
1,2-Dichlorobenzene	TO-15	6/12/2008	0.601	500	300	ND	µg/m³	R16570
1,2-Dichloroethane	TO-15	6/12/2008	0.648	500	320	ND	µg/m³	R16570
1,2-Dichloropropane	TO-15	6/12/2008	1.0164	500	510	ND	µg/m³	R16570
1,3,5-Trimethylbenzene	TO-15	6/12/2008	0.6888	500	340	860 J	µg/m³	R16570
1,3-Butadiene	TO-15	6/12/2008	0.5967	500	300	ND	µg/m³	R16570
1,3-Dichlorobenzene	TO-15	6/12/2008	0.3606	500	180	ND	µg/m³	R16570
1,4-Dichlorobenzene	TO-15	6/12/2008	0.6611	500	330	ND	µg/m³	R16570
1,4-Dioxane	TO-15	6/12/2008	0.504	500	250	ND	µg/m³	R16570
2-Butanone (MEK)	TO-15	6/12/2008	0.4425	500	220	ND	µg/m³	R16570
2-Hexanone	TO-15	6/12/2008	0.861	500	430	ND	µg/m³	R16570
4-Ethyl Toluene	TO-15	6/12/2008	0.738	500	370	1800	µg/m³	R16570
4-Methyl-2-Pentanone (MIBK)	TO-15	6/12/2008	0.656	500	330	ND	µg/m³	R16570
Acetone	TO-15	6/12/2008	0.5712	500	290	970 J	µg/m³	R16570
Benzene	TO-15	6/12/2008	0.8932	500	450	1500	µg/m³	R16570
Benzyl Chloride	TO-15	6/12/2008	0.69	500	340	ND	µg/m³	R16570
Bromodichloromethane	TO-15	6/12/2008	0.871	500	440	ND	µg/m³	R16570
Bromoform	TO-15	6/12/2008	1.7578	500	880	ND	µg/m³	R16570
Bromomethane	TO-15	6/12/2008	0.776	500	390	ND	µg/m³	R16570
Carbon Disulfide	TO-15	6/12/2008	0.4976	500	250	ND	µg/m³	R16570
Carbon Tetrachloride	TO-15	6/12/2008	0.9435	500	470	ND	µg/m³	R16570
Chlorobenzene	TO-15	6/12/2008	0.4232	500	210	ND	µg/m³	R16570
Chloroethane	TO-15	6/12/2008	0.396	500	200	ND	µg/m³	R16570
Chloroform	TO-15	6/12/2008	1.952	500	980	ND	µg/m³	R16570
Chloromethane	TO-15	6/12/2008	0.7245	500	360	ND	µg/m³	R16570
cis-1,2-dichloroethene	TO-15	6/12/2008	0.5544	500	280	ND	µg/m³	R16570
cis-1,3-Dichloropropene	TO-15	6/12/2008	0.3632	500	180	ND	µg/m³	R16570
Dibromochloromethane	TO-15	6/12/2008	0.9372	500	470	ND	µg/m³	R16570
Dichlorodifluoromethane	TO-15	6/12/2008	0.7425	500	370	ND	µg/m³	R16570
Diisopropyl ether (DIPE)	TO-15	6/12/2008	0.6688	500	330	ND	µg/m³	R16570
Ethyl Acetate	TO-15	6/12/2008	0.4248	500	210	ND	µg/m³	R16570
Ethyl Benzene	TO-15	6/12/2008	0.31062	500	160	1040 J	µg/m³	R16570
Ethyl tert-butyl ether (ETBE)	TO-15	6/12/2008	0.6688	500	330	ND	µg/m³	R16570
Freon 113	TO-15	6/12/2008	0.9192	500	460	ND	µg/m³	R16570
Hexachlorobutadiene	TO-15	6/12/2008	1.8139	500	910	ND	µg/m³	R16570

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Joyce Bobek
Soma Environmnental Engineering, Inc.

Date Received: 6/10/2008
Date Reported: 6/18/2008

Client Sample ID: MW-1 INF
Sample Location: 3609 International Blvd
Sample Matrix: SOIL GAS
Date/Time Sampled 6/10/2008 9:30:00 AM

Lab Sample ID: 0806064-003
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Hexane	TO-15	6/12/2008	1.7952	500	900	ND	µg/m³	R16570
Isopropanol	TO-15	6/12/2008	1.6359	500	820	ND	µg/m³	R16570
m,p-Xylene	TO-15	6/12/2008	0.492	500	250	5300	µg/m³	R16570
Methylene Chloride	TO-15	6/12/2008	0.6859	500	340	ND	µg/m³	R16570
MTBE	TO-15	6/12/2008	0.5054	500	250	ND	µg/m³	R16570
Naphthalene	TO-15	6/12/2008	2.62	500	1300	ND	µg/m³	R16570
o-xylene	TO-15	6/12/2008	0.62062	500	310	1200	µg/m³	R16570
Styrene	TO-15	6/12/2008	0.639	500	320	ND	µg/m³	R16570
t-Butyl alcohol (t-Butanol)	TO-15	6/12/2008	0.4898	500	240	ND	µg/m³	R16570
tert-Amyl methyl ether (TAME)	TO-15	6/12/2008	0.6688	500	330	ND	µg/m³	R16570
Tetrachloroethene	TO-15	6/12/2008	1.2882	500	640	ND	µg/m³	R16570
Toluene	TO-15	6/12/2008	0.5278	500	260	550 J	µg/m³	R16570
trans-1,2-Dichloroethene	TO-15	6/12/2008	0.5544	500	280	ND	µg/m³	R16570
Trichloroethene	TO-15	6/12/2008	0.52626	500	260	ND	µg/m³	R16570
Trichlorofluoromethane	TO-15	6/12/2008	0.693	500	350	ND	µg/m³	R16570
Vinyl Acetate	TO-15	6/12/2008	0.64064	500	320	ND	µg/m³	R16570
Vinyl Chloride	TO-15	6/12/2008	0.24832	500	120	ND	µg/m³	R16570
Surr: 4-Bromofluorobenzene	TO-15	6/12/2008	0	500	65-135	88.4	%REC	R16570

Note: Results reported to the MDL. Values reported between the MDL and RL should be considered as estimated and are qualified with the appropriate "J" flag.

Gasoline	TO-3(MOD)	6/12/2008	352	1000	350000	1250000x	µg/m³	G16570

Note: x- Although gasoline compounds are present, results are elevated due to a significant portion of non-gasoline hydrocarbons within range of C5-C12 quantified as Gasoline.

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
a	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0806064
Project: 2335

ANALYTICAL QC SUMMARY REPORT

BatchID: G16570

Sample ID	**MB-G16570**	SampType:	**MBLK**	TestCode:	**TO-3Gas (MO**	Units:	**ppbv**	Prep Date:	**6/12/2008**	RunNo:	**16570**
Client ID:	**ZZZZZ**	Batch ID:	**G16570**	TestNo:	**TO-3(MOD)**			Analysis Date:	**6/12/2008**	SeqNo:	**237629**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	100									

Sample ID	**LCS-G16570**	SampType:	**LCS**	TestCode:	**TO-3Gas (MO**	Units:	**ppbv**	Prep Date:	**6/12/2008**	RunNo:	**16570**
Client ID:	**ZZZZZ**	Batch ID:	**G16570**	TestNo:	**TO-3(MOD)**			Analysis Date:	**6/12/2008**	SeqNo:	**237636**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	436.4	100	500	0	87.3	50	150				

Sample ID	**LCSD-G16570**	SampType:	**LCSD**	TestCode:	**TO-3Gas (MO**	Units:	**ppbv**	Prep Date:	**6/12/2008**	RunNo:	**16570**
Client ID:	**ZZZZZ**	Batch ID:	**G16570**	TestNo:	**TO-3(MOD)**			Analysis Date:	**6/12/2008**	SeqNo:	**237637**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	436.7	100	500	0	87.3	50	150	436.4	0.0685	30	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0806064
Project: 2335

ANALYTICAL QC SUMMARY REPORT

BatchID: R16570

Sample ID **MB-R16570**	SampType: **MBLK**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **6/10/2008**	RunNo: **16570**			
Client ID: **ZZZZZ**	Batch ID: **R16570**	TestNo: **TO-15**		Analysis Date: **6/10/2008**	SeqNo: **237434**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	ND	0.20									
1,1,1,2-Tetrachloroethane	ND	0.10									
1,1,1-Trichloroethane	ND	0.15									
1,1,2,2-Tetrachloroethane	ND	0.15									
1,1,2-Trichloroethane	ND	0.19									
1,1-Dichloroethane	ND	0.17									
1,2,4-Trichlorobenzene	ND	0.070									
1,2,4-Trimethylbenzene	ND	0.18									
1,2-Dibromoethane(Ethylene dibromide	ND	0.14									
1,2-Dichlorobenzene	ND	0.10									
1,2-Dichloroethane	ND	0.16									
1,2-Dichloropropane	ND	0.22									
1,3,5-Trimethylbenzene	ND	0.14									
1,3-Butadiene	ND	0.27									
1,3-Dichlorobenzene	ND	0.060									
1,4-Dichlorobenzene	ND	0.11									
1,4-Dioxane	ND	0.14									
2-Butanone (MEK)	ND	0.15									
2-Hexanone	ND	0.21									
4-Ethyl Toluene	ND	0.15									
4-Methyl-2-Pentanone (MIBK)	ND	0.16									
Acetone	ND	0.24									
Benzene	ND	0.28									
Benzyl Chloride	ND	0.12									
Bromodichloromethane	ND	0.13									
Bromoform	ND	0.17									
Bromomethane	ND	0.20									
Carbon Disulfide	ND	0.16									
Carbon Tetrachloride	ND	0.15									
Chlorobenzene	ND	0.092									
Chloroethane	ND	0.15									

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0806064
Project: 2335

ANALYTICAL QC SUMMARY REPORT

BatchID: R16570

Sample ID **MB-R16570**	SampType: **MBLK**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **6/10/2008**	RunNo: **16570**			
Client ID: **ZZZZZ**	Batch ID: **R16570**	TestNo: **TO-15**		Analysis Date: **6/10/2008**	SeqNo: **237434**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	0.40									
Chloromethane	ND	0.35									
cis-1,2-dichloroethene	ND	0.14									
cis-1,3-Dichloropropene	ND	0.080									
Dibromochloromethane	ND	0.11									
Dichlorodifluoromethane	ND	0.15									
Diisopropyl ether (DIPE)	ND	0.16									
Ethyl Acetate	ND	0.12									
Ethyl Benzene	ND	0.093									
Ethyl tert-butyl ether (ETBE)	ND	0.16									
Freon 113	ND	0.12									
Hexachlorobutadiene	ND	0.17									
Hexane	ND	0.51									
Isopropanol	ND	0.40									
m,p-Xylene	ND	0.12									
Methylene Chloride	ND	0.19									
MTBE	ND	0.14									
Naphthalene	ND	0.50									
o-xylene	ND	0.14									
Styrene	ND	0.15									
t-Butyl alcohol (t-Butanol)	ND	0.16									
tert-Amyl methyl ether (TAME)	ND	0.16									
Tetrachloroethene	ND	0.19									
Toluene	ND	0.14									
trans-1,2-Dichloroethene	ND	0.14									
Trichloroethene	ND	0.098									
Trichlorofluoromethane	ND	0.14									
Vinyl Acetate	ND	0.18									
Vinyl Chloride	ND	0.097									
Surr: 4-Bromofluorobenzene	20.41	0	20	0	102	65	135				

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0806064
Project: 2335

ANALYTICAL QC SUMMARY REPORT

BatchID: R16570

Sample ID **MB-1R16570**	SampType: **MBLK**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **6/11/2008**	RunNo: **16570**			
Client ID: **ZZZZZ**	Batch ID: **R16570**	TestNo: **TO-15**		Analysis Date: **6/11/2008**	SeqNo: **237567**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	ND	0.20									
1,1,1,2-Tetrachloroethane	ND	0.10									
1,1,1-Trichloroethane	ND	0.15									
1,1,2,2-Tetrachloroethane	ND	0.15									
1,1,2-Trichloroethane	ND	0.19									
1,1-Dichloroethane	ND	0.17									
1,2,4-Trichlorobenzene	ND	0.070									
1,2,4-Trimethylbenzene	ND	0.18									
1,2-Dibromoethane(Ethylene dibromide	ND	0.14									
1,2-Dichlorobenzene	ND	0.10									
1,2-Dichloroethane	ND	0.16									
1,2-Dichloropropane	ND	0.22									
1,3,5-Trimethylbenzene	ND	0.14									
1,3-Butadiene	ND	0.27									
1,3-Dichlorobenzene	ND	0.060									
1,4-Dichlorobenzene	ND	0.11									
1,4-Dioxane	ND	0.14									
2-Butanone (MEK)	ND	0.15									
2-Hexanone	ND	0.21									
4-Ethyl Toluene	ND	0.15									
4-Methyl-2-Pentanone (MIBK)	ND	0.16									
Acetone	ND	0.24									
Benzene	ND	0.28									
Benzyl Chloride	ND	0.12									
Bromodichloromethane	ND	0.13									
Bromoform	ND	0.17									
Bromomethane	ND	0.20									
Carbon Disulfide	ND	0.16									
Carbon Tetrachloride	ND	0.15									
Chlorobenzene	ND	0.092									
Chloroethane	ND	0.15									

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0806064
Project: 2335

ANALYTICAL QC SUMMARY REPORT

BatchID: R16570

Sample ID **MB-1R16570**	SampType: **MBLK**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **6/11/2008**	RunNo: **16570**		
Client ID: **ZZZZZ**	Batch ID: **R16570**	TestNo: **TO-15**		Analysis Date: **6/11/2008**	SeqNo: **237567**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	0.40									
Chloromethane	ND	0.35									
cis-1,2-dichloroethene	ND	0.14									
cis-1,3-Dichloropropene	ND	0.080									
Dibromochloromethane	ND	0.11									
Dichlorodifluoromethane	ND	0.15									
Diisopropyl ether (DIPE)	ND	0.16									
Ethyl Acetate	ND	0.12									
Ethyl Benzene	ND	0.093									
Ethyl tert-butyl ether (ETBE)	ND	0.16									
Freon 113	ND	0.12									
Hexachlorobutadiene	ND	0.17									
Hexane	ND	0.51									
Isopropanol	ND	0.40									
m,p-Xylene	ND	0.12									
Methylene Chloride	ND	0.19									
MTBE	ND	0.14									
Naphthalene	ND	0.50									
o-xylene	ND	0.14									
Styrene	ND	0.15									
t-Butyl alcohol (t-Butanol)	ND	0.16									
tert-Amyl methyl ether (TAME)	ND	0.16									
Tetrachloroethene	ND	0.19									
Toluene	ND	0.14									
trans-1,2-Dichloroethene	ND	0.14									
Trichloroethene	ND	0.098									
Trichlorofluoromethane	ND	0.14									
Vinyl Acetate	ND	0.18									
Vinyl Chloride	ND	0.097									
Surr: 4-Bromofluorobenzene	17.93	0	20	0	89.7	65	135				

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0806064
Project: 2335

ANALYTICAL QC SUMMARY REPORT

BatchID: R16570

Sample ID **LCS-R16570**	SampType: **LCS**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **6/10/2008**	RunNo: **16570**
Client ID: **ZZZZZ**	Batch ID: **R16570**	TestNo: **TO-15**		Analysis Date: **6/10/2008**	SeqNo: **237435**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	17.91	0.50	20	0	89.6	65	135				
1,1,1,2-Tetrachloroethane	19.61	0.50	20	0	98.0	65	135				
1,1,1-Trichloroethane	19.25	0.50	20	0	96.2	65	135				
1,1,2,2-Tetrachloroethane	19.38	0.50	20	0	96.9	65	135				
1,1,2-Trichloroethane	19.92	0.50	20	0	99.6	65	135				
1,1-Dichloroethane	18.04	0.50	20	0	90.2	65	135				
1,2,4-Trichlorobenzene	19.78	0.50	20	0	98.9	65	135				
1,2,4-Trimethylbenzene	19.81	0.50	20	0	99.0	65	135				
1,2-Dibromoethane(Ethylene dibromide	20.38	0.50	20	0	102	65	135				
1,2-Dichlorobenzene	19.20	0.50	20	0	96.0	65	135				
1,2-Dichloroethane	20.86	0.50	20	0	104	65	135				
1,2-Dichloropropane	20.29	0.50	20	0	101	65	135				
1,3,5-Trimethylbenzene	19.80	0.50	20	0	99.0	65	135				
1,3-Butadiene	17.86	1.0	20	0	89.3	65	135				
1,3-Dichlorobenzene	19.26	0.50	20	0	96.3	65	135				
1,4-Dichlorobenzene	19.22	0.50	20	0	96.1	65	135				
1,4-Dioxane	21.08	0.50	20	0	105	65	135				
2-Butanone (MEK)	18.82	0.50	20	0	94.1	65	135				
2-Hexanone	19.82	0.50	20	0	99.1	65	135				
4-Ethyl Toluene	19.61	0.50	20	0	98.0	65	135				
4-Methyl-2-Pentanone (MIBK)	20.13	0.50	20	0	101	65	135				
Acetone	19.13	4.0	20	0	95.7	65	135				
Benzene	18.25	0.50	20	0	91.2	65	135				
Benzyl Chloride	20.25	0.50	20	0	101	65	135				
Bromodichloromethane	21.17	0.50	20	0	106	65	135				
Bromoform	19.46	0.50	20	0	97.3	65	135				
Bromomethane	18.72	0.50	20	0	93.6	65	135				
Carbon Disulfide	18.73	0.50	20	0	93.6	65	135				
Carbon Tetrachloride	19.48	0.50	20	0	97.4	65	135				
Chlorobenzene	19.79	0.50	20	0	99.0	65	135				
Chloroethane	18.90	0.50	20	0	94.5	65	135				

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0806064
Project: 2335

ANALYTICAL QC SUMMARY REPORT

BatchID: R16570

Sample ID **LCS-R16570**	SampType: **LCS**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **6/10/2008**	RunNo: **16570**
Client ID: **ZZZZZ**	Batch ID: **R16570**	TestNo: **TO-15**		Analysis Date: **6/10/2008**	SeqNo: **237435**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	19.64	0.50	20	0	98.2	65	135				
Chloromethane	23.53	0.50	20	0	118	65	135				
cis-1,2-dichloroethene	18.35	0.50	20	0	91.8	65	135				
cis-1,3-Dichloropropene	20.69	0.50	20	0	103	65	135				
Dibromochloromethane	20.27	0.50	20	0	101	65	135				
Ethyl Acetate	19.43	0.50	20	0	97.2	65	135				
Ethyl Benzene	19.42	0.50	20	0	97.1	65	135				
Ethyl tert-butyl ether (ETBE)	18.64	0.50	20	0	93.2	65	135				
Freon 113	18.80	0.50	20	0	94.0	65	135				
Hexachlorobutadiene	20.13	0.50	20	0	101	65	135				
Hexane	18.40	2.0	20	0	92.0	65	135				
Isopropanol	20.20	4.0	20	0	101	65	135				
m,p-Xylene	39.03	0.50	40	0	97.6	65	135				
Methylene Chloride	18.34	1.0	20	0	91.7	65	135				
MTBE	19.32	0.50	20	0	96.6	65	135				
Naphthalene	19.52	5.0	20	0	97.6	65	135				
o-xylene	19.97	0.50	20	0	99.8	65	135				
Styrene	19.63	0.50	20	0	98.2	65	135				
t-Butyl alcohol (t-Butanol)	18.44	0.50	20	0	92.2	65	135				
tert-Amyl methyl ether (TAME)	21.30	0.50	20	0	106	65	135				
Tetrachloroethene	20.45	0.50	20	0	102	65	135				
Toluene	20.41	0.50	20	0	102	65	135				
trans-1,2-Dichloroethene	18.09	0.50	20	0	90.4	65	135				
Trichloroethene	20.23	0.50	20	0	101	65	135				
Trichlorofluoromethane	18.14	0.50	20	0	90.7	65	135				
Vinyl Acetate	20.38	0.50	20	0	102	65	135				
Vinyl Chloride	19.47	0.50	20	0	97.4	65	135				
Surr: 4-Bromofluorobenzene	20.48	0	20	0	102	65	135				

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0806064
Project: 2335

ANALYTICAL QC SUMMARY REPORT

BatchID: R16570

Sample ID **LCSD-R16570**	SampType: **LCSD**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **6/11/2008**	RunNo: **16570**
Client ID: **ZZZZZ**	Batch ID: **R16570**	TestNo: **TO-15**		Analysis Date: **6/11/2008**	SeqNo: **237436**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	16.50	0.50	20	0	82.5	65	135	17.91	8.20	30	
1,1,1,2-Tetrachloroethane	17.06	0.50	20	0	85.3	65	135	19.61	13.9	30	
1,1,1-Trichloroethane	16.71	0.50	20	0	83.6	65	135	19.25	14.1	30	
1,1,2,2-Tetrachloroethane	16.99	0.50	20	0	85.0	65	135	19.38	13.1	30	
1,1,2-Trichloroethane	17.20	0.50	20	0	86.0	65	135	19.92	14.7	30	
1,1-Dichloroethane	16.30	0.50	20	0	81.5	65	135	18.04	10.1	30	
1,2,4-Trichlorobenzene	17.37	0.50	20	0	86.8	65	135	19.78	13.0	30	
1,2,4-Trimethylbenzene	17.70	0.50	20	0	88.5	65	135	19.81	11.3	30	
1,2-Dibromoethane(Ethylene dibromide	17.62	0.50	20	0	88.1	65	135	20.38	14.5	30	
1,2-Dichlorobenzene	17.31	0.50	20	0	86.6	65	135	19.2	10.4	30	
1,2-Dichloroethane	18.01	0.50	20	0	90.0	65	135	20.86	14.7	30	
1,2-Dichloropropane	16.98	0.50	20	0	84.9	65	135	20.29	17.8	30	
1,3,5-Trimethylbenzene	17.33	0.50	20	0	86.7	65	135	19.8	13.3	30	
1,3-Butadiene	16.30	1.0	20	0	81.5	65	135	17.86	9.13	30	
1,3-Dichlorobenzene	17.56	0.50	20	0	87.8	65	135	19.26	9.23	30	
1,4-Dichlorobenzene	17.52	0.50	20	0	87.6	65	135	19.22	9.25	30	
1,4-Dioxane	18.42	0.50	20	0	92.1	65	135	21.08	13.5	30	
2-Butanone (MEK)	16.88	0.50	20	0	84.4	65	135	18.82	10.9	30	
2-Hexanone	17.91	0.50	20	0	89.6	65	135	19.82	10.1	30	
4-Ethyl Toluene	17.54	0.50	20	0	87.7	65	135	19.61	11.1	30	
4-Methyl-2-Pentanone (MIBK)	18.03	0.50	20	0	90.2	65	135	20.13	11.0	30	
Acetone	17.17	4.0	20	0	85.8	65	135	19.13	10.8	30	
Benzene	15.87	0.50	20	0	79.4	65	135	18.25	14.0	30	
Benzyl Chloride	18.05	0.50	20	0	90.2	65	135	20.25	11.5	30	
Bromodichloromethane	18.04	0.50	20	0	90.2	65	135	21.17	16.0	30	
Bromoform	17.44	0.50	20	0	87.2	65	135	19.46	10.9	30	
Bromomethane	16.04	0.50	20	0	80.2	65	135	18.72	15.4	30	
Carbon Disulfide	16.63	0.50	20	0	83.2	65	135	18.73	11.9	30	
Carbon Tetrachloride	16.47	0.50	20	0	82.4	65	135	19.48	16.7	30	
Chlorobenzene	17.11	0.50	20	0	85.6	65	135	19.79	14.5	30	
Chloroethane	16.23	0.50	20	0	81.2	65	135	18.9	15.2	30	

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Soma Environmnental Engineering, Inc.
Work Order: 0806064
Project: 2335

ANALYTICAL QC SUMMARY REPORT

BatchID: R16570

Sample ID **LCSD-R16570**	SampType: **LCSD**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **6/11/2008**	RunNo: **16570**
Client ID: **ZZZZZ**	Batch ID: **R16570**	TestNo: **TO-15**		Analysis Date: **6/11/2008**	SeqNo: **237436**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	16.34	0.50	20	0	81.7	65	135	19.64	18.3	30	
Chloromethane	16.83	0.50	20	0	84.2	65	135	23.53	33.2	30	
cis-1,2-dichloroethene	16.49	0.50	20	0	82.5	65	135	18.35	10.7	30	
cis-1,3-Dichloropropene	17.94	0.50	20	0	89.7	65	135	20.69	14.2	30	
Dibromochloromethane	17.37	0.50	20	0	86.8	65	135	20.27	15.4	30	
Ethyl Acetate	17.28	0.50	20	0	86.4	65	135	19.43	11.7	30	
Ethyl Benzene	16.93	0.50	20	0	84.6	65	135	19.42	13.7	30	
Ethyl tert-butyl ether (ETBE)	16.64	0.50	20	0	83.2	65	135	18.64	11.3	30	
Freon 113	17.04	0.50	20	0	85.2	65	135	18.8	9.82	30	
Hexachlorobutadiene	17.41	0.50	20	0	87.0	65	135	20.13	14.5	30	
Hexane	16.19	2.0	20	0	81.0	65	135	18.4	12.8	30	
Isopropanol	16.72	4.0	20	0	83.6	65	135	20.2	18.9	30	
m,p-Xylene	34.47	0.50	40	0	86.2	65	135	39.03	12.4	30	
Methylene Chloride	16.62	1.0	20	0	83.1	65	135	18.34	9.84	30	
MTBE	17.36	0.50	20	0	86.8	65	135	19.32	10.7	30	
Naphthalene	17.26	5.0	20	0	86.3	65	135	19.52	12.3	30	
o-xylene	17.54	0.50	20	0	87.7	65	135	19.97	13.0	30	
Styrene	17.60	0.50	20	0	88.0	65	135	19.63	10.9	30	
t-Butyl alcohol (t-Butanol)	16.63	0.50	20	0	83.2	65	135	18.44	10.3	30	
tert-Amyl methyl ether (TAME)	17.94	0.50	20	0	89.7	65	135	21.3	17.1	30	
Tetrachloroethene	17.02	0.50	20	0	85.1	65	135	20.45	18.3	30	
Toluene	17.53	0.50	20	0	87.6	65	135	20.41	15.2	30	
trans-1,2-Dichloroethene	16.60	0.50	20	0	83.0	65	135	18.09	8.59	30	
Trichloroethene	17.17	0.50	20	0	85.8	65	135	20.23	16.4	30	
Trichlorofluoromethane	16.56	0.50	20	0	82.8	65	135	18.14	9.11	30	
Vinyl Acetate	17.92	0.50	20	0	89.6	65	135	20.38	12.8	30	
Vinyl Chloride	16.89	0.50	20	0	84.4	65	135	19.47	14.2	30	
Surr: 4-Bromofluorobenzene	18.03	0	20	0	90.2	65	135	0	0	30	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

Torrent LABORATORY, INC.
483 Sinclair Frontage Road
Milpitas, CA 95035
Phone: 408.263.5258
FAX: 408.263.8293
www.torrentlab.com

RESET

CHAIN OF CUSTODY

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

LAB WORK ORDER NO: 080604

Company Name: SOMA Environmental Engr., Inc.	Location of Sampling: 3609 International Blvd., Oakland, CA.
Address: 6620 Owens Dr. Suite A	Purpose: Soil Vapor Extraction + Remediation
City: Pleasanton State: CA Zip Code: 94588	Special Instructions / Comments:
Telephone: 925.734.6400 FAX: 925.734.6401	
REPORT TO: Joyce Bobek SAMPLER: Jesse Acedillo	P.O. #: 2335 EMAIL: jbobek@somaenv.com

TURNAROUND TIME:
- ☐ 10 Work Days
- ☐ 3 Work Days
- ☐ Noon - Nxt Day
- ☐ 7 Work Days
- ☐ 2 Work Days
- ☐ 2 - 8 Hours
- ☐ 5 Work Days
- ☐ 1 Work Day
- ☐ Other

SAMPLE TYPE:
- ☐ Storm Water
- ☐ Air
- ☐ Waste Water
- ☒ Other (Soil Vapor)
- ☐ Ground Water
- ☐ Soil

REPORT FORMAT:
- ☐ QC Level IV
- ☒ EDF
- ☐ Excel / EDD

ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TO-3 TPH-gas	TO-15 MTBE, Oxygenates	REMARKS
001A	MW-3 EFF	6/10/8 @ 0800	Air	1	Tedlar bag	X	X	
002A	MW-3 INF	6/10/8 @ 0820	Air	1	Tedlar bag	X	X	
003A	MW-1 INF	6/10/8 @ 0930	Air	1	Tedlar bag	X	X	

	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:
1	Jesse Acedillo	Jesse Acedillo	6/10/8	1200	C Moore	C Moore	6/10	13:43
2	Joyce Bobek	Joyce Bobek	6/10/08	13:43	C Moore	C Moore	6/10	14:30

Were Samples Received in Good Condition? ☑ Yes ☐ NO Samples on Ice? ☐ Yes ☐ NO Method of Shipment: Hi Speed Sample seals intact? ☑ Yes ☐ NO ☐ N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrange -ments are made.

Page _____ of _____

Log In By: _____ Date: _____ Log In Reviewed By: _____ Date: N&B 6/10/08