AEI CONSULTANTS
ENVIRONMENTAL & CIVIL ENGINEERING
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Phone: (925) 283-6000 Fax: (925) 944-2895

September 29, 2006

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Subject: **Groundwater Monitoring Report**
3rd Quarter, 2006
245 8th Street
Oakland, California 94607
AEI Project No. 111783
ACHCSA Case No. RO0000202 / State ID 263

Dear Mr. Wickham:

Enclosed is one electronic copy of the recently completed Groundwater Monitoring Report (3rd Quarter, 2006) prepared for the subject property.

Should you have any questions or comments, you may reach me at (925) 283-6000 ext.148.

Sincerely,
AEI Consultants

Richard J. Bradford
Senior Staff Engineer

September 29, 2006

GROUNDWATER MONITORING REPORT
3rd Quarter, 2006

245 8th Street
Oakland, California 94607

AEI Project No. 111783
ACEH Case No. RO0000202 / State ID 263

Prepared For

Mr. Vic Lum
Vic's Automotive
245 8th Street
Oakland, CA 94607

Prepared By

AEI Consultants
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(925) 283-6000

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September 29, 2006

Mr. Vic Lum
Vic's Automotive
245 8th Street
Oakland, CA 94607

Subject: **Groundwater Monitoring Report**
3rd Quarter, 2006
245 8th Street
Oakland, California 94607
AEI Project No. 111783
ACEH No. RO0000202 / State ID 263

Dear Mr. Lum:

AEI Consultants (AEI) has prepared this report on behalf of Mr. Vic Lum of Vic's Automotive and documents the ongoing groundwater monitoring investigation at the above-referenced property (Figure 1). This investigation was initiated by the property owner in accordance with the requirements of the Alameda County Environmental Health (ACEH) local oversight program. The purpose of this investigation is to monitor groundwater quality associated with the release of fuel hydrocarbons from the former underground storage tank system. This report presents the findings of the 3rd quarter, 2006 groundwater monitoring episode conducted on August 4, 2006. It should be noted that the results of the first soil gas sampling event are also incorporated into this report. Refer to AEI's *Soil Gas Probe Installation and Sampling Report*, dated September 29, 2006, for details on the soil gas investigation.

I. Site Description and Background

The subject property (hereafter referred to as the "site" or "property") is located in a mixed commercial and residential area of Oakland. The site is a lot on the south corner of Alice Street and 8th Street, and is currently developed with a gasoline station and auto repair facility (Figure 2). The property covers approximately 9,375 square feet and is improved with an approximately 1,200 square foot building located centrally on the property used for automotive repair, cashier, and office. The current UST hold and the dispenser island are located to the north of the building, along 8th Street. The remainder of the property is paved with asphalt.

Between June 1993 and August 1994, AEI removed a total of seven (7) underground storage tanks (USTs) from the property. The tanks consisted of four (4) 1,000-gallon and two (2) 6,000-gallon gasoline tanks and one (1) 250-gallon waste oil tank. The former locations of the tanks are shown on Figure 2. Impacted soil was removed from beneath the former tank area. Groundwater was encountered beneath the former 6,000-gallon tanks. Light non-aqueous phase liquid (LNAPL) was

observed on the water table beneath the southern tank. The excavated soil was transported to an appropriate disposal facility and the excavation was backfilled with clean fill material. A new tank system was installed just west of the dispenser island.

Two groundwater monitoring wells (MW-1 and MW-2) were installed in July 1995. The first two episodes of monitoring revealed total petroleum hydrocarbons as gasoline (TPH-g) and Benzene up to 210,000 µg/L and 720 µg/L, respectively, in MW-2. Free phase gasoline product (LNAPL), was discovered in MW-1, which ranged from 1.20 to 4.39 feet thick between December 1995 and March 1996.

Three soil borings (SB-1 through SB-3) were advanced in August 1996. Groundwater samples collected from each of the borings contained TPH-g and Benzene ranging from 120,000 to 140,000 µg/L, and from 12,000 to 19,000 µg/L, respectively. Methyl tertiary-butyl ether (MTBE) was also present in all three samples, up to 27,000 µg/L. Although free phase product was not observed in the field, qualitative laboratory observations indicated immiscible sheen. Manual bailing and pumping of NAPL from MW-1, and monitoring of MW-2 occurred intermittently through 1997.

Two additional groundwater monitoring wells (MW-3 and MW-4) were installed in May 2001. Refer to Tables 1 and 2 for data collected from these wells. A free product recovery pump was installed in MW-1 in June 2001.

Fourteen (14) additional soil borings were performed on and offsite in 2003, from which soil, groundwater, and soil vapor samples were collected to further characterize the extent of the release.

On January 11, 19, and 20, 2005, AEI installed a total of six (6) additional wells, three (3) extraction/monitoring wells on the subject site and three (3) extraction/monitoring wells at 708 Alice Street. The locations of the six (6) additional wells (labeled MW-5 through MW-7 and MW-10 through MW-12) are shown on Figure 2. Note that wells MW-8 and MW-9 were proposed for installation in the public right of way, north of and west of the site. However, due to insurance and permitting limitations imposed by the City of Oakland, these wells were not been installed, and likely cannot be installed in City of Oakland right-of-way.

A high vacuum dual phase extraction (HVDPE) pilot test was performed at the site from July 11 to July 27, 2005, using wells MW-1 through MW-3 and MW-10 through MW-12. Vapor flow rates ranged from approximately 170 to 190 standard cubic feet per minute (scfm) under a sustained vacuum of 16 to 17 inches of mercury. Significant drawdown and vacuum response was observed in many of the monitoring points. A total of 80,740 gallons of water was recovered and treated for an average flow rate of about 4.1 gallons per minute over the 15-day pilot test. Approximately 5 pounds per day of dissolved phase and 697 lbs/day of vapor phase hydrocarbons were recovered. Based on the favorable results, and following review and approval by ACEH, implementation of a fixed base HVDPE system is currently underway.

Surveying of the six new wells was complete as of January 2006.

On July 13, 2006, four (4) permanent soil gas probes (GP-1 through GP-4) were installed to evaluate the potential risk for vapor intrusion into indoor air. Two soil gas probes were installed on the western side of the subject property near 718 Alice Street and the remaining two on an empty lot at 708 Alice Street near 712 Alice Street. The locations of the four permanent soil gas probes are shown on Figure 2.

On August 4, 2006, AEI conducted the first soil gas sampling event in conjunction with the quarterly groundwater monitoring episode.

II. Summary of Groundwater Monitoring Activities

AEI measured depth to groundwater in wells MW-1 through MW-7 and MW-10 through MW-12 on August 4, 2006. The well locations are shown in Figure 2. The depth from the top of the well casings was measured with an electric water level indicator prior to sampling. An oil-water interface meter was used to measure thickness of LNAPL observed in MW-1 and MW-6. The eight (8) wells with no measurable free product (MW-2 through MW-5, MW-7 and MW-10 through MW-12) were purged of at least three well volumes of water with a submersible purge pump and sampled using disposable Teflon® bailers.

Temperature, turbidity, pH, specific conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were measured during the purging of the wells. The turbidity was visually noted. Once temperature, pH, specific conductivity stabilized after three consecutive readings and following the recovery of water levels to at least 90%, a water sample was collected. The well locations are shown in Figure 2.

Water was poured from the bailers into 40-millileter (mL) volatile organic analysis (VOA) vials and capped so that neither head space nor air bubbles were present within the sample containers. Samples were preserved on ice and transported under proper chain of custody protocol to McCampbell Analytical, Inc. of Bay Point, California (Department of Health Services Certification #1644). The eight (8) groundwater samples were submitted for chemical analysis for analyses of TPH-g by Method SW8015Cm and Benzene, Toluene, Ethylbenzene, and total Xylenes and MTBE by Method SW8021B.

III. Field Results

LNAPL was encountered in wells MW-1 and MW-6 at thicknesses of 0.02 feet and 0.41 feet, respectively. No measurable thickness of free product was encountered in the remaining wells. However, sheen of LNAPL was noted in wells MW-2 and MW-7.

Groundwater elevations for this monitoring event ranged from 16.61 (MW-11) to 17.97 (MW-3) feet above mean sea level (amsl). The current groundwater elevations were an average of 1.59 feet lower than the previous monitoring event (i.e., May 4, 2006). The groundwater flow direction at the time of measurement is to the south-southwest with a calculated hydraulic gradient of approximately 0.010 ft/ft.

Groundwater elevation data are summarized in Table 1. A summary of the average groundwater elevations and flow directions are presented in Table 2. Water table contours are shown on Figure 5. Refer to Appendix A for the Monitoring Well Field Sampling Forms.

IV. Summary of Soil Gas Sampling Activities

On August 4, 2006, soil gas samples were collected from soil gas probes GP-1 through GP-4, at two depths, 5 feet bgs and 10 feet bgs.

Prior to sample collection, the soil gas probes were purged of three (3) volumes of dead air using a dedicated 6-L Summa™ purge canister. This helped to ensure that a sufficient volume of ambient air was removed from the sampling point and that samples collected were representative of subsurface conditions. The purge volume was calculated by summing the volume of the sample tubing and annular space around the probe tip. One purge volume for the 5 and 10-foot probes are 16.1 and 27.6 mL, respectively. Three default purge volumes for the 5 and 10-foot probes are 48.3 and 82.8 mL, respectively. Therefore, to adequately purge the 5 and 10 foot probes (at 167 mL/min) it took approximately 18 and 30 seconds, respectively.

After the probes were adequately purged of three well volumes, soil gas samples were collected into laboratory-evacuated 1-L Summa™ canisters pending transportation to the laboratory. Critical orifice flow control regulators designed and provided by Air Toxics affixed with a vacuum gauge was placed inline between the soil gas probe and Summa™ canister to ensure that it was filled at a constant rate of 100 to 200 milliliters per minute (mL/min) as recommend by the ASGI. The evacuated Summa™ canisters were filled at a constant rate of 167 milliliters per minute (mL/min). A new or laboratory-certified clean flow controller was used at each sampling point. Low or no flow conditions were not encountered

A rag moistened with the leak check compound, isopropyl alcohol, was placed inside the well box where the soil gas tubing the grout seal meet A leak test dome made of a 12-inch round plastic bowl was then placed upside-down over the top of the well box and secured using the well box lid. Cotton strips moistened with isopropyl alcohol were placed around the Swagelok® valves, fittings, connections, and other potential leak points. To avoid possible cross contamination, the isopropyl alcohol leak check compound was stored separately from the other sampling tools in a zipper locking bag.

A total of nine (9) soil gas samples, including one field duplicate (GP-4-10D) were shipped via UPS ground under proper chain of custody protocol to Air Toxics, Ltd. of Folsom, California

(Department of Health Services Certification #02110CA). Samples were analyzed for TPH-g by EPA Method Modified TO-3 and for volatile organic compounds (VOCs), including BTEX and MTBE by EPA Method Modified TO-15 along with the 2-Propanol leak check compound. Laboratory procedures included appropriate quality assurance and quality control analyses, including method blanks and use of surrogates during sample analyses. According to Air Toxics, the analytical equipment was calibrated in conformance with the most current ASGI and the Analytical Methods.

V. Groundwater Monitoring Results

For this monitoring event, the highest detected concentrations of fuel hydrocarbons were in MW-7, MW-11, and MW-12. TPH-g, benzene, toluene, ethylbenzene, total xylenes, and MTBE were detected in these wells at concentrations up to 290,000 µg/L, 40,000 µg/L, 43,000 µg/L, 3,300 µg/L, 15,000 µg/L, and 55,000 µg/L, respectively. Lower but elevated concentrations of TPH-g were detected in MW-2 (160,000 µg/L), MW-5 (73,000 µg/L) and MW-10 (190,000 µg/L). Low to non-detectable concentrations of fuel hydrocarbons were detected in MW-3 and MW-4.

A summary of groundwater sample analytical data is presented in Table 3 and on Figure 3. Laboratory analytical reports and chain of custody documents are included in Appendix B.

VI. Soil Gas Sampling Results

From each soil gas probe, a soil gas sample collected from 5 and 10 feet bgs was analyzed for TPH-g by EPA Method Modified TO-3 and VOCs, including BTEX and MTBE, by EPA Method Modified TO-15.

The highest concentrations of fuel hydrocarbons were detected in GP-4-5' and GP-4-10' at concentrations of 705 µg/m3 and 564 µg/m3, respectively.

TPH-g was detected in all other samples, excluding GP-3-5', at concentrations up to 564 µg/m3.

Benzene was detected in only two samples, GP-4-5' and GP-4-10' at concentrations of 5.4 µg/m3 and 6.1 µg/m3, respectively. Toluene was detected in samples GP-2-5', GP-2-10', and GP-4-10' at concentrations up to 18 µg/m3. Ethylbenzene was detected in only one sample, GP-4-10', at a concentration of 5.7 µg/m3. Total xylenes were detected in GP-2-5' and GP-4-10' at concentrations of 10 µg/m3 and 16 µg/m3, respectively.

Carbon disulfide was detected in all the samples, excluding GP-3-5', at concentrations up to 270 µg/m3. Methyl ethyl ketone (MEK) was detected six samples, at concentrations up to 11 µg/m3.

In addition, tetrachloroethene (PCE) was detected in four samples, at concentrations up to 600 µg/m3 (GP-2-5').

The leak check compounds, 2-propanol, was detected in only one sample, at a concentration of 23 µg/m3.

A summary of soil gas sample analytical data is presented in Table 4 and on Figure 4. Laboratory analytical reports and chain of custody documents are included in Appendix B.

VII. Summary and Conclusions

This report presents the findings of the 3rd Quarter, 2006 groundwater monitoring event. The results of the first soil gas sampling event are also incorporate into this report. All subsequent groundwater monitoring reports will include the quarterly soil gas sample results. Apparent free product thickness has decreased in well MW-1 by over 85% since the HVDPE event in July 2005. Measurable thickness of LNAPL has decreased by almost 50% in well MW-6. Apparent free product thickness has decreased in MW-7, falling from a measurable thickness of 0.01 feet during the last monitoring event to sheen during this monitoring episode.

The results of this monitoring episode are roughly consistent with previous episodes and indicates that a significant mass of free product and dissolved phase hydrocarbons exist on and offsite. Additional monitoring well will be required to define the lateral down gradient extent of the hydrocarbon groundwater plume.

TPH-g along with other gasoline constituents (BTEX) were detected all of the soil gas samples with the exception of GP-3-5'. The concentrations of fuel hydrocarbons detected in the soil gas samples were all well below the shallow soil gas Environmental Screening Levels (ESLs) and the California Human Health Screening Levels (CHHSLs) for residential land use.

While no elevated levels of fuel hydrocarbons (TPH-g or BTEX), MTBE, or other fuel oxygenates were detected in the soil gas samples collected from GP-1 to GP-4, PCE was detected for the first time on the site in four of the eight soil gas samples. PCE was detected in one of the soil gas samples, GP-2-5', at a concentration of 600 ug/m^3. This exceeded the shallow soil gas ESL and CHHSL of 410 µg/m^3 and 180 µg/m^3, respectively for residential land use.

The following tasks are planned for the next quarter:

- Continue quarterly soil gas sampling in conjunction with quarterly groundwater monitoring with the next event (4th Quarter, 2006) scheduled for the first week of November 2006.

- During the 4th Quarter, 2006 groundwater monitoring event, test a round of groundwater samples for Halogenated Volatile Organic Compounds (HVOCs), mainly PCE, by Method SW8260B (i.e., the 8010 basic target list).

- Follow-up with the Bay Area Air Quality Management District (BAAMD) on the status of the Authority to Construct and the Permit to Operate the proposed HVDPE system.

- Begin trenching and installation of the HVDPE conveyance piping and treatment compound in late October to early November with system installation and start-up expected to occur in late November 2006 after the next groundwater monitoring and soil gas sampling event.

- Continued to work out City of Oakland insurance requirements and permitting for the installation of monitoring wells MW-8 and MW-9 in the City of Oakland's right of way on Alice and 7th Streets. Continue attempts to contact adjacent properties for potential site access to install these wells if arrangements with the insurance broker and the City of Oakland cannot be worked out.

I. Report Limitations and Signatures

This report presents a summary of work completed by AEI Consultants, including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices in the environmental engineering and geology fields that existed at the time and location of the work. If you have any questions or need any additional information, please contact either of the undersigned at (925) 283-6000.

Sincerely,
AEI Consultants

Adrian M. Angel
Project Geologist

Peter J. McIntyre, PG, REA
Senior Project Manager

REGISTERED GEOLOGIST
PETER J. MCINTYRE
Exp. 5/31/07
No. 7702
STATE OF CALIFORNIA

Richard J. Bradford
Senior Staff Engineer

Figures

Tables

Report Distribution

Mr. Victor Lum
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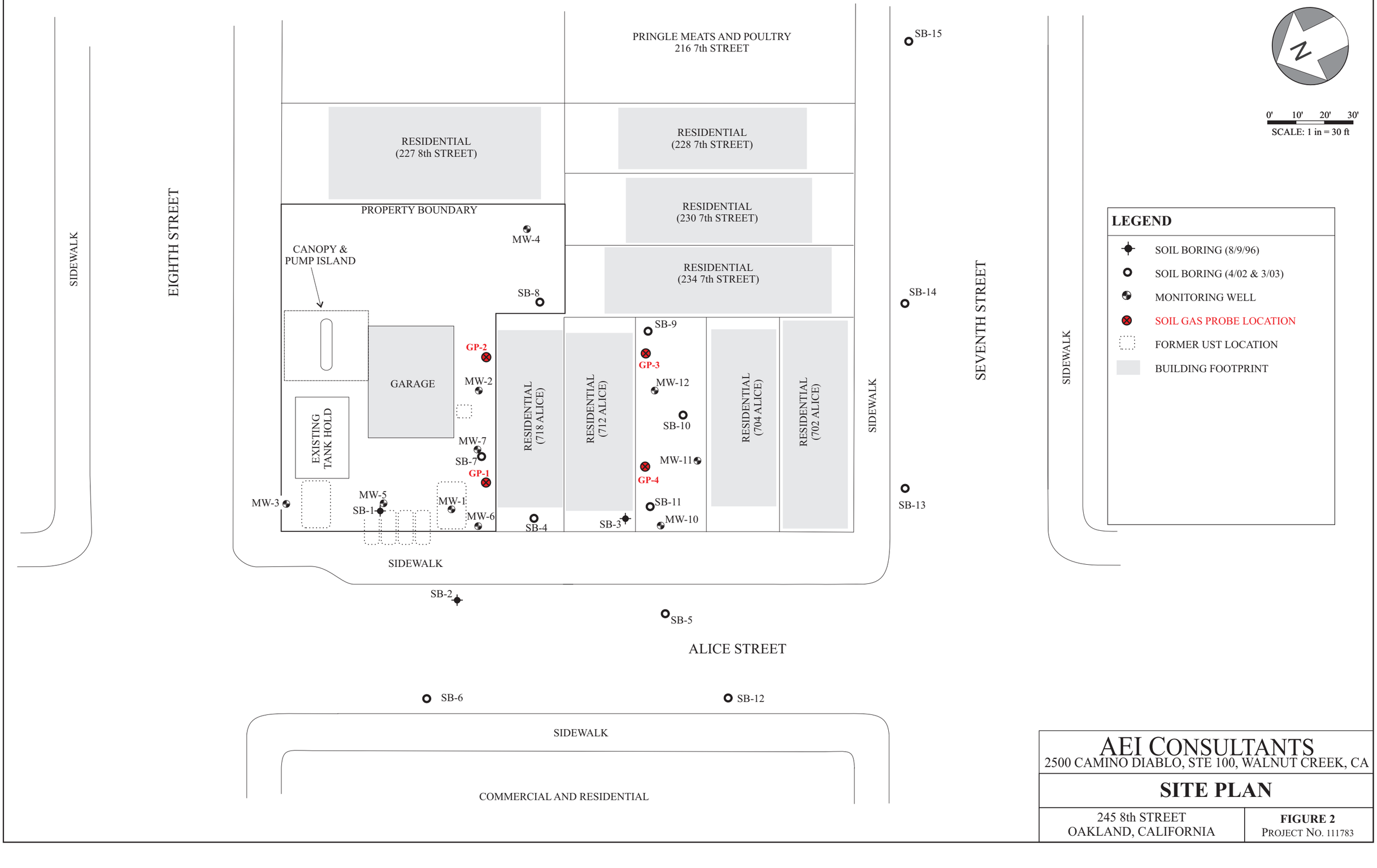
Oakland, CA 94607

Mr. Jerry Wickham (electronic copy)
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

FIGURES



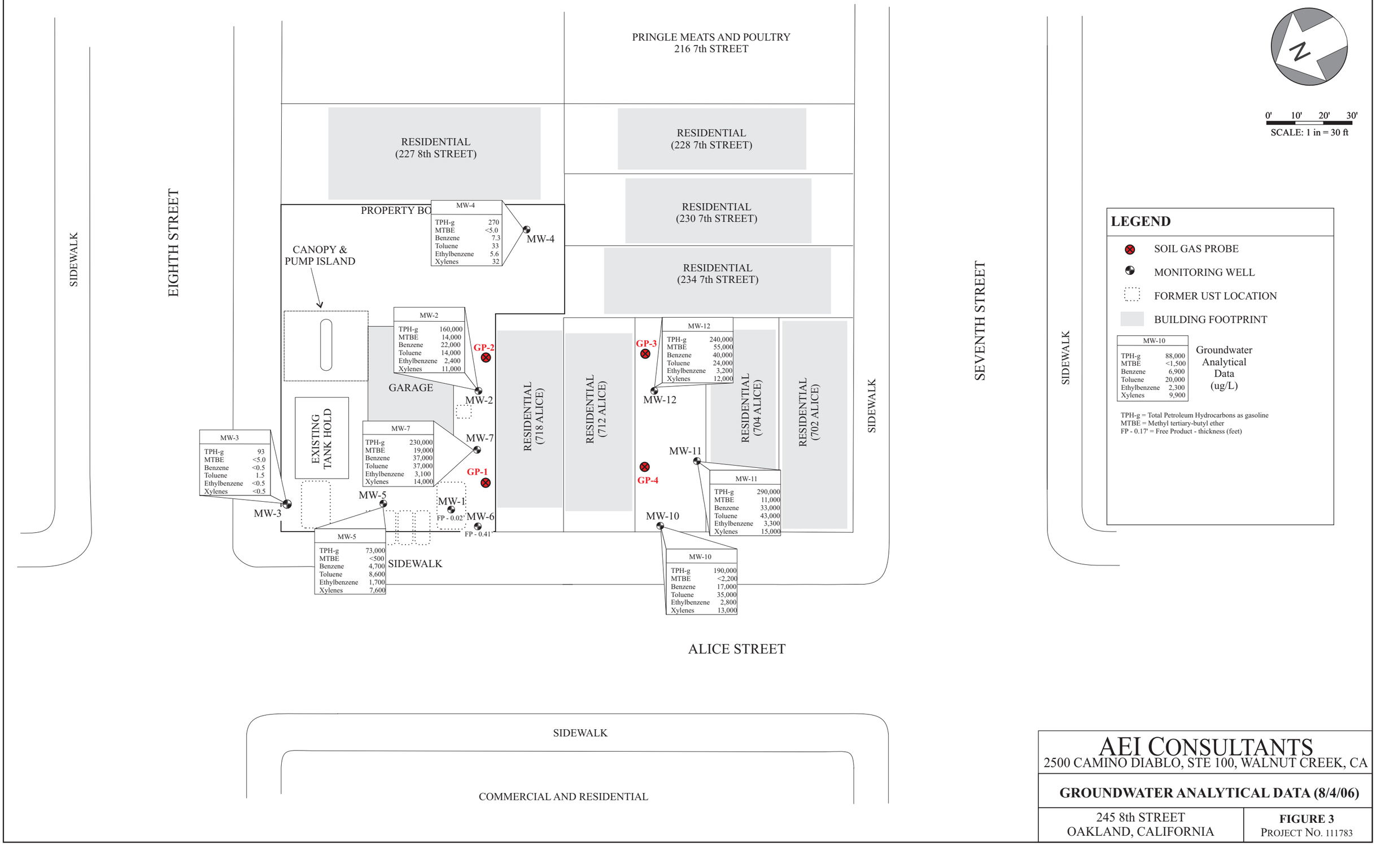
AEI CONSULTANTS

2500 CAMINO DIABLO, STE 100, WALNUT CREEK, CA

SITE PLAN

245 8th STREET
OAKLAND, CALIFORNIA

FIGURE 2
PROJECT NO. 111783



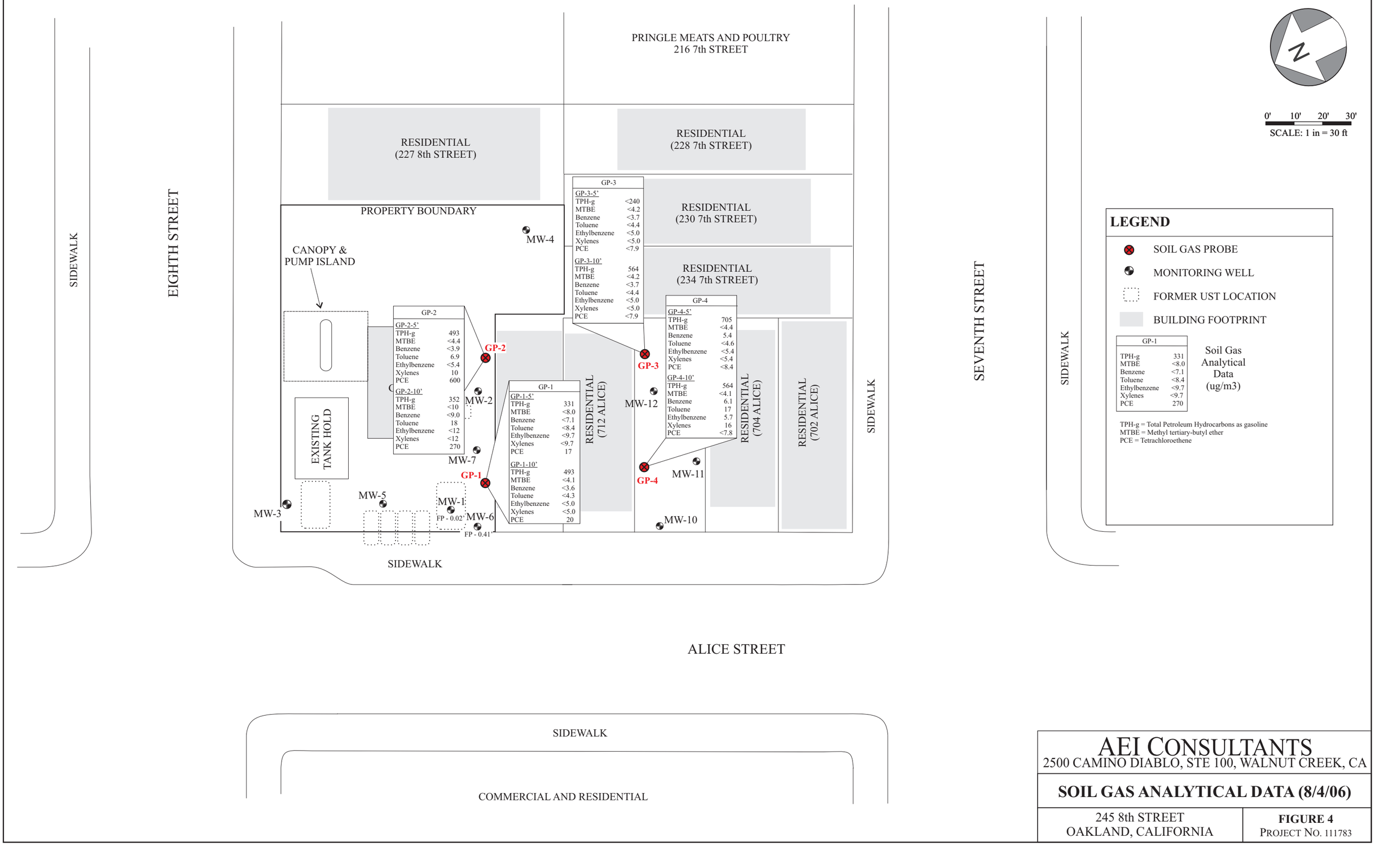
AEI CONSULTANTS

2500 CAMINO DIABLO, STE 100, WALNUT CREEK, CA

GROUNDWATER ANALYTICAL DATA (8/4/06)

245 8th STREET
OAKLAND, CALIFORNIA

FIGURE 3
PROJECT NO. 111783



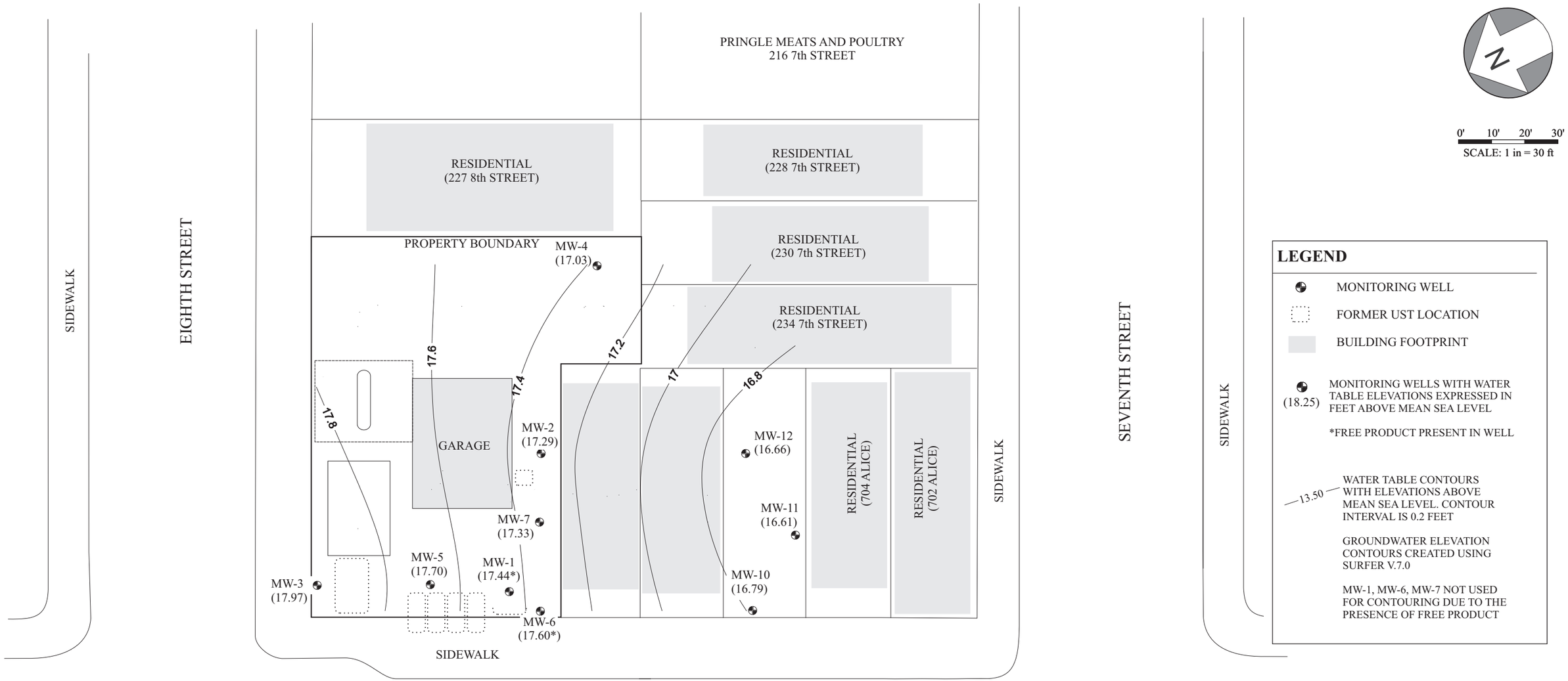
AEI CONSULTANTS

2500 CAMINO DIABLO, STE 100, WALNUT CREEK, CA

SOIL GAS ANALYTICAL DATA (8/4/06)

245 8th STREET
OAKLAND, CALIFORNIA

FIGURE 4
PROJECT NO. 111783



AEI CONSULTANTS

2500 CAMINO DIABLO, STE 100, WALNUT CREEK, CA

GROUNDWATER ELEVATION CONTOURS (8/4/06)

245 8th STREET
OAKLAND, CALIFORNIA

FIGURE 5
PROJECT NO. 111783

TABLES

TABLE 1: GROUNDWATER ELEVATION DATA
Vic's Automotive
245 8th Street, Oakland, California

Well/Sample ID (screen interval)	Date Collected	TOC Well[1,2] Elevation (ft amsl)	Depth to Water (ft)	Groundwater[3] Elevation (ft amsl)	Depth to LNAPL (ft)	Apparent LNAPL Thickness (ft)
MW-1	6/29/2001	27.73	16.52	11.21	14.89	1.63
(8-28)	10/10/2001	27.73	15.45	12.28	15.37	0.08
	1/9/2002	27.73	12.61	15.12	-	<0.01
	4/24/2002	27.73	13.35	14.38	-	<0.01
	7/24/2002	27.73	14.19	13.54	-	<0.01
	11/5/2002	27.73	14.85	12.88	-	<0.01
	2/4/2003	27.73	14.91	12.82	-	<0.01
	5/2/2003	27.73	14.43	13.30	-	0.08
	8/4/2003	27.73	15.24	12.49	15.01	0.23
	11/3/2003	27.73	16.94	10.79	15.67	1.27
	2/9/2004	27.73	14.61	13.12	14.43	0.18
	5/10/2004	27.73	Inaccessible	-	-	-
	8/9/2004	27.73	15.24	12.49	15.03	0.21
	11/9/2004	27.73	15.95	11.78	15.71	0.24
	2/3/2005	32.55	13.75	18.80	13.58	0.17
	5/9/2005	32.55	13.93	18.62	13.81	0.12
	8/5/2005	32.55	15.40	17.15	15.39	0.01
	11/9/2005	32.55	15.76	16.79	15.75	0.01
	2/9/2006	32.55	13.52	19.03	13.50	0.02
	5/4/2006	32.55	12.47	20.08	12.46	0.01
	8/4/2006	**32.55**	**15.11**	**17.44**	**15.09**	**0.02**
MW-2	6/29/2001	28.16	16.14	12.02	-	-
(8-28)	10/10/2001	28.16	16.43	11.73	-	-
	1/9/2002	28.16	13.50	14.66	-	-
	4/24/2002	28.16	14.40	13.76	-	-
	7/24/2002	28.16	14.91	13.25	-	-
	11/5/2002	28.16	16.96	11.20	-	-
	2/4/2003	28.16	15.42	12.74	-	-
	5/2/2003	28.16	15.24	12.92	-	-
	8/4/2003	28.16	15.98	12.18	-	-
	11/3/2003	28.16	16.60	11.56	-	Sheen
	2/9/2004	28.16	15.22	12.94	-	Sheen
	5/10/2004	28.16	15.34	12.82	-	Sheen
	8/9/2004	28.16	15.92	12.24	-	Sheen
	11/9/2004	28.16	16.51	11.65	-	Sheen
	2/3/2005	33.24	14.44	18.80	-	Sheen
	5/9/2005	33.24	14.67	18.57	-	Sheen
	8/5/2005	33.24	16.27	16.97	-	Sheen
	11/9/2005	33.24	16.53	16.71	-	Sheen
	2/9/2006	33.24	14.36	18.88	-	Sheen
	5/4/2006	33.24	13.46	19.78	-	Sheen
	8/4/2006	**33.24**	**15.95**	**17.29**	**-**	**Sheen**

TABLE 1: GROUNDWATER ELEVATION DATA
Vic's Automotive
245 8th Street, Oakland, California

Well/Sample ID (screen interval)	Date Collected	TOC Well[1,2] Elevation (ft amsl)	Depth to Water (ft)	Groundwater[3] Elevation (ft amsl)	Depth to LNAPL (ft)	Apparent LNAPL Thickness (ft)
MW-3	6/29/2001	29.21	16.60	12.61	-	-
(10-25)	10/10/2001	29.21	16.92	12.29	-	-
	1/9/2002	29.21	14.20	15.01	-	-
	4/24/2002	29.21	15.07	14.14	-	-
	7/24/2002	29.21	16.40	12.81	-	-
	11/5/2002	29.21	16.47	12.74	-	-
	2/4/2003	29.21	16.92	12.29	-	-
	5/2/2003	29.21	15.45	13.76	-	-
	8/4/2003	29.21	16.46	12.75	-	-
	11/3/2003	29.21	17.15	12.06	-	-
	2/9/2004	29.21	15.78	13.43	-	-
	5/10/2004	29.21	15.77	13.44	-	-
	8/9/2004	29.21	16.45	12.76	-	-
	11/9/2004	29.21	17.26	11.95	-	-
	2/3/2005	34.25	15.92	18.33	-	-
	5/9/2005	34.25	15.03	19.22	-	-
	8/5/2005	34.25	16.59	17.66	-	-
	11/9/2005	34.25	16.82	17.43	-	-
	2/9/2006	34.25	14.65	19.60	-	-
	5/4/2006	34.25	13.61	20.64	-	-
	8/4/2006	**34.25**	**16.28**	**17.97**	**-**	**-**
MW-4	6/29/2001	29.38	17.71	11.67	-	-
(10-25)	10/10/2001	29.38	18.00	11.38	-	-
	1/9/2002	29.38	15.02	14.36	-	-
	4/24/2002	29.38	15.74	13.64	-	-
	7/24/2002	29.38	16.69	12.69	-	-
	11/5/2002	29.38	17.64	11.74	-	-
	2/4/2003	29.38	16.02	13.36	-	-
	5/2/2003	29.38	16.72	12.66	-	-
	8/4/2003	29.38	17.51	11.87	-	-
	11/3/2003	29.38	18.09	11.29	-	-
	2/9/2004	29.38	16.67	12.71	-	-
	5/10/2004	29.38	16.89	12.49	-	-
	8/9/2004	29.38	17.44	11.94	-	-
	11/9/2004	29.38	17.89	11.49	-	-
	2/3/2005	34.42	14.98	19.44	-	-
	5/9/2005	34.42	16.20	18.22	-	-
	8/5/2005	34.42	17.73	16.69	-	-
	11/9/2005	34.42	17.91	16.51	-	-
	2/9/2006	34.42	15.62	18.80	-	-
	5/4/2006	34.42	15.12	19.30	-	-
	8/4/2006	**34.42**	**17.39**	**17.03**	**-**	**-**

TABLE 1: GROUNDWATER ELEVATION DATA
Vic's Automotive
245 8th Street, Oakland, California

Well/Sample ID (screen interval)	Date Collected	TOC Well[1,2] Elevation (ft amsl)	Depth to Water (ft)	Groundwater[3] Elevation (ft amsl)	Depth to LNAPL (ft)	Apparent LNAPL Thickness (ft)
MW-5	2/3/2005	33.33	14.23	19.10	-	-
(12-22)	5/9/2005	33.33	14.33	19.00	-	-
	8/5/2005	33.33	15.89	17.44	-	-
	11/9/2005	33.33	16.18	17.15	-	-
	2/9/2006	33.33	14.02	19.31	-	-
	5/4/2006	33.33	12.97	20.36	-	-
	8/4/2006	**33.33**	**15.63**	**17.70**	**-**	**-**
MW-6	2/3/2005	32.82	13.99	18.83	-	Sheen
(12-22)	5/9/2005	32.82	13.61	19.21	-	Sheen
	8/5/2005	32.82	15.50	17.32	15.13	0.37
	11/9/2005	32.82	15.87	16.95	15.50	0.37
	2/9/2006	32.82	13.93	18.89	13.22	0.71
	5/4/2006	32.82	12.88	19.94	12.13	0.75
	8/4/2006	**32.82**	**15.22**	**17.60**	**14.81**	**0.41**
MW-7	2/3/2005	33.07	14.17	18.90	-	Sheen
(12-22)	5/9/2005	33.07	14.47	18.60	14.44	0.03
	8/5/2005	33.07	16.07	17.00	16.02	0.05
	11/9/2005	33.07	16.47	16.60	16.35	0.12
	2/9/2006	33.07	14.18	18.89	14.11	0.07
	5/4/2006	33.07	13.12	19.95	13.11	0.01
	8/4/2006	**33.07**	**15.74**	**17.33**	**-**	**Sheen**
MW-10	2/3/2005	31.17	12.65	18.52	-	-
(12-22)	5/9/2005	31.17	13.09	18.08	-	-
	8/5/2005	31.17	14.68	16.49	-	-
	11/9/2005	31.17	14.94	16.23	-	-
	2/9/2006	31.17	12.82	18.35	-	-
	5/4/2006	31.17	12.11	19.06	-	-
	8/4/2006	**31.17**	**14.38**	**16.79**	**-**	**-**
MW-11	2/3/2005	31.78	13.39	18.39	-	Sheen
(12-22)	5/9/2005	31.78	13.89	17.89	-	Sheen
	8/5/2005	31.78	15.47	16.31	-	Sheen
	11/9/2005	31.78	15.73	16.05	-	Sheen
	2/9/2006	31.78	13.53	18.25	-	Sheen
	5/4/2006	31.78	12.73	19.05	-	Sheen
	8/4/2006	**31.78**	**15.17**	**16.61**	**-**	**Sheen**

TABLE 1: GROUNDWATER ELEVATION DATA
Vic's Automotive
245 8th Street, Oakland, California

Well/Sample ID (screen interval)	Date Collected	TOC Well[1,2] Elevation (ft amsl)	Depth to Water (ft)	Groundwater[3] Elevation (ft amsl)	Depth to LNAPL (ft)	Apparent LNAPL Thickness (ft)
MW-12	2/3/2005	32.05	13.70	18.35	-	Sheen
(12-22)	5/9/2005	32.05	14.17	17.88	-	Sheen
	8/5/2005	32.05	15.69	16.36	-	Sheen
	11/9/2005	32.05	15.93	16.12	-	Sheen
	2/9/2006	32.05	13.78	18.27	-	Sheen
	5/4/2006	32.05	12.98	19.07	-	Sheen
	8/4/2006	**32.05**	**15.39**	**16.66**	**-**	**Sheen**

1) Monitoring well top of casing (TOC) elevations were resurveyed by Morrow Surveying on January 10, 2006 and February 7, 2006

2) Groudwater elevations for the February 3, 2005 and subsequent monitoring episodes use the new well survey data

3) When LNAPL is present at >0.10 ft, the groundwater elevations are assumed to be affected by the LNAPL

All well elevations are measured from the top of the casing (TOC) - = not applicable

LNAPL = light non-aqueous phase liquid (floating free product) ft amsl = feet above mean sea level

TABLE 2: GROUNDWATER FLOW SUMMARY
Vic's Automotive
245 8th Street, Oakland, California

Episode #	Date	Average Groundwater Elevation[1] (ft amsl)	Change from Previous Episode (ft)	Flow direction (gradient)
1	6/29/2001	12.10	-	SSE (0.0074)
2	10/10/2001	11.80	-0.30	SSE (0.0071)
3	1/9/2002	14.68	2.88	SE (0.0054)
4	4/24/2002	13.85	-0.83	SSW (0.005)
5	7/24/2002	12.92	-0.93	NE (0.021)
6	11/5/2002	11.89	-1.02	SW (0.019)
7	2/4/2003	12.80	0.90	NNW (0.01)
8	5/2/2003	13.11	0.32	SSE (0.01)
9	8/4/2003	12.27	-0.85	SSE(0.007)
10	11/3/2003	11.64	-0.63	SSE (0.006)
11	2/9/2004	13.03	1.39	SSE (0.006)
12	5/10/2004	12.92	-0.11	SSE (0.008)
13	8/9/2004	12.31	-0.60	SSE (0.006)
14	11/9/2004	11.70	-0.62	SSE (0.004)
15	2/3/2005	18.75	-	W (0.007)
16	5/9/2005	18.53	-0.22	S (0.010)
17	8/5/2005	16.94	-1.59	S (0.010)
18	11/9/2005	16.65	-0.28	S (0.010)
19	2/9/2006	18.83	1.89	SSW (0.010)
20	5/4/2006	19.72	3.07	SSW (0.012)
21	**8/4/2006**	**17.24**	**-1.59**	**SSW (0.010)**

1) MW-2 to MW-4 only used for episodes 1 through 14; all wells used for episodes 15 and later

- = not applicable

ft amsl = feet above mean sea level

TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA
Vic's Automotive
245 8th Street, Oakland, California

Well/Sample ID	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g µg/L *Method SW8015Cm*	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L
				Method SW8021B				
MW-1	6/29/2001	1.63	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	10/10/2001	0.08	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	1/9/2002	<0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	4/24/2002	<0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	7/24/2002	~0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	11/5/2002	~0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	2/4/2003	~0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	5/2/2003	0.08	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	8/4/2003	0.23	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	11/3/2003	1.27	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	2/9/2004	0.18	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	5/10/2004	Inaccessible	-	-	-	-	-	-
	8/9/2004	0.21	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	11/9/2004	0.24	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	2/3/2005	0.17	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	5/9/2005	0.12	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	8/5/2005	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	11/9/2005	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	2/9/2006	0.02	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	5/4/2006	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	8/4/2006	**0.02**	**ns/fp**	**ns/fp**	**ns/fp**	**ns/fp**	**ns/fp**	**ns/fp**
MW-2	6/29/2001	0.0	69,000	4100/4400*	7,200	6,100	1,500	7,000
	10/10/2001	0.0	87,000	14,000	22,000	12,000	2,700	9,100
	1/9/2002	0.0	130,000	11,000	30,000	19,000	3,800	14,000
	4/24/2002	Sheen	210,000	32,000	38,000	23,000	4,600	19,000
	7/24/2002	Sheen	170,000	36,000	48,000	12,000	3,700	8,600
	11/5/2002	Sheen	190,000	36,000	45,000	25,000	4,600	16,000
	2/4/2003	Sheen	150,000	27,000	51,000	24,000	4,200	14,000
	5/2/2003	Sheen	150,000	35,000	39,000	11,000	3,800	9,900
	8/4/2003	Sheen	120,000	29,000	32,000	5,000	3,200	7,200
	11/3/2003	Sheen	120,000	24,000	33,000	4,300	3,200	5,400
	2/9/2004	Sheen	130,000	19,000	27,000	7,700	3,100	7,600
	5/10/2004	Sheen	67,000	13,000	20,000	3,000	2,300	4,100
	8/9/2004	Sheen	100,000	22,000	27,000	7,100	2,800	6,600
	11/9/2004	Sheen	100,000	23,000	27,000	6,100	3,000	5,600
	2/3/2005	Sheen	84,000	11,000	23,000	5,000	3,000	5,500
	5/9/2005	Sheen	74,000	14,000	21,000	4,200	2,300	3,300
	7/27/2005	Sheen	9,500	910	1,400	1,000	180	960
	8/5/2005	Sheen	74,000	4,000	8,800	11,000	1,300	7,600
	11/9/2005	Sheen	120,000	16,000	21,000	14,000	2,300	13,000
	2/9/2006	Sheen	120,000	10,000	18,000	16,000	2,200	13,000
	5/4/2006	Sheen	71,000	8,300	14,000	11,000	1,500	7,600
	8/4/2006	**Sheen**	**160,000**	**14,000**	**22,000**	**14,000**	**2,400**	**11,000**

TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA
Vic's Automotive
245 8th Street, Oakland, California

Well/Sample ID	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g µg/L *Method SW8015Cm*	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L
				Method SW8021B				
MW-3	6/29/2001	0.00	550	<5.0	<0.5	3.1	3.2	1.2
	10/10/2001	0.00	470	<5.0	0.77	5.3	3.3	5.9
	1/9/2002	0.00	1,000	<5.0	0.90	7.6	7.8	25
	4/24/2002	0.00	1,500	<5.0	0.64	7.2	12	14
	7/24/2002	0.00	1,200	<5.0	10	17.0	11	25
	11/5/2002	0.00	1,800	<25	33	43.0	18	31
	2/4/2003	0.00	450	<5.0	<0.5	5.0	<0.5	0.77
	5/2/2003	0.00	340	<5.0	7.3	10.0	2.5	7.3
	8/4/2003	0.00	170	<5.0	5.8	5.9	1.5	4.9
	11/3/2003	0.00	54	<5.0	<0.5	<0.5	<0.5	<0.5
	2/9/2004	0.00	190	<5.0	<0.5	3.6	<0.5	<0.5
	5/10/2004	0.00	280	<5.0	<0.5	3.4	<0.5	<0.5
	8/9/2004	0.00	290	<5.0	<0.5	3.8	<0.5	<0.5
	11/9/2004	0.00	220	<5.0	<0.5	4.0	<0.5	<0.5
	2/3/2005	0.00	160	<5.0	13	30	3.0	21
	5/9/2005	0.00	200	<5.0	<0.5	3.9	<0.5	<0.5
	8/5/2005	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	11/9/2005	0.00	130	<5.0	<0.5	2.3	<0.5	<0.5
	2/9/2006	0.00	270	<5.0	<0.5	5.6	<0.5	<0.5
	5/4/2006	0.00	220	<5.0	<0.5	4.3	<0.5	<0.5
	8/4/2006	**0.00**	**93**	**<5.0**	**<0.5**	**1.5**	**<0.5**	**<0.5**
MW-4	6/29/2001	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	10/10/2001	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	1/9/2002	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	4/24/2002	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	7/24/2002	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	11/5/2002	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	2/4/2003	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	5/2/2003	0.00	500	10	68	71	18	65
	8/4/2003	0.00	270	<5.0	30	29	9.2	32
	11/3/2003	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	2/9/2004	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	5/10/2004	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	8/9/2004	0.00	130	<5.0	14	13	5.3	17
	11/9/2004	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	2/3/2005	0.00	370	<5.0	<0.5	4.1	<0.5	0.64
	5/9/2005	0.00	840	<5.0	50	180	21	110
	7/27/2005	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	8/5/2005	0.00	310	<5.0	7.5	57	10	53
	11/9/2005	0.00	290	<5.0	12	61	8.8	49
	2/9/2006	0.00	250	<5.0	9.9	42	7.5	45
	5/4/2006	0.00	300	<5.0	37	76	7.8	42
	8/4/2006	**0.00**	**270**	**<5.0**	**7.3**	**33**	**5.6**	**32**
MW-5	2/3/2005	0.0	78,000	<1,000	7,600	13,000	2,200	9,600
	5/9/2005	0.0	60,000	<900	6,100	9,900	1,600	6,600
	7/27/2005	nm	120,000	1,100	10,000	19,000	2,100	13,000
	8/5/2005	0.0	59,000	<500	4,100	10,000	1,200	6,600
	11/9/2005	0.0	44,000	<500	3,300	7,400	1,100	4,900
	2/9/2006	0.0	110,000	<500	10,000	22,000	2,400	13,000
	5/4/2006	0.0	110,000	<250	11,000	22,000	2,900	15,000
	8/4/2006	**0.0**	**73,000**	**<500**	**4,700**	**8,600**	**1,700**	**7,600**

TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA
Vic's Automotive
245 8th Street, Oakland, California

Well/Sample ID	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g µg/L *Method SW8015Cm*	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L
					Method SW8021B			
MW-6	2/3/2005	Sheen	130,000	<1,000	2,400	33,000	2,400	15,000
	5/9/2005	Sheen	170,000	<4,000	11,000	43,000	3,100	16,000
	8/5/2005	0.37	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	11/9/2005	0.37	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	2/9/2006	0.71	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	5/4/2006	0.75	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	8/4/2006	**0.41**	**ns/fp**	**ns/fp**	**ns/fp**	**ns/fp**	**ns/fp**	**ns/fp**
MW-7	2/3/2005	Sheen	220,000	18,000	45,000	44,000	3,500	18,000
	5/9/2005	0.03	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	8/5/2005	0.05	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	11/9/2005	0.12	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	2/9/2006	0.07	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	5/4/2006	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	8/4/2006	**Sheen**	**230,000**	**19,000**	**37,000**	**37,000**	**3,100**	**14,000**
MW-10	2/3/2005	0.00	36,000	<500	4,700	7,200	660	3,400
	5/9/2005	0.00	88,000	<1,500	6,900	20,000	2,300	9,900
	8/5/2005	0.00	88,000	<1,100	10,000	21,000	1,900	9,800
	11/9/2005	0.00	63,000	<1,100	5,400	13,000	1,900	7,900
	2/9/2006	0.00	100,000	<500	6,600	19,000	2,900	13,000
	5/4/2006	0.00	100,000	<500	8,500	25,000	3,000	13,000
	8/4/2006	**0.00**	**190,000**	**<2,200**	**17,000**	**35,000**	**2,800**	**13,000**
MW-11	2/3/2005	Sheen	170,000	<3,000	23,000	35,000	3,100	16,000
	5/9/2005	Sheen	210,000	3,500	29,000	40,000	3,400	16,000
	7/27/2005	Sheen	220,000	2,500	26,000	37,000	3,200	18,000
	8/5/2005	Sheen	210,000	<2,500	35,000	42,000	3,300	16,000
	11/9/2005	Sheen	180,000	9,100	32,000	47,000	3,600	18,000
	2/9/2006	Sheen	210,000	10,000	33,000	39,000	3,800	20,000
	5/4/2006	Sheen	190,000	12,000	34,000	41,000	3,500	17,000
	8/4/2006	**Sheen**	**290,000**	**11,000**	**33,000**	**43,000**	**3,300**	**15,000**
MW-12	2/3/2005	Sheen	250,000	100,000	52,000	41,000	3,400	15,000
	5/9/2005	Sheen	210,000	91,000	44,000	28,000	3,300	13,000
	8/5/2005	Sheen	170,000	52,000	38,000	28,000	3,000	12,000
	11/9/2005	Sheen	180,000	52,000	39,000	25,000	2,900	12,000
	2/9/2006	Sheen	170,000	34,000	40,000	23,000	3,500	15,000
	5/4/2006	Sheen	160,000	47,000	33,000	28,000	2,800	10,000
	8/4/2006	**Sheen**	**240,000**	**55,000**	**40,000**	**24,000**	**3,200**	**12,000**

µg/L = micrograms per liter (ppb)

ns/fp = not sampled / free product

TPH-g = total petroleum hydrocarbons as gasoline

MTBE = methyl tertiary-butyl ether

* samples re-analyzed by Method SW8260B (expressed as SW8021B / SW8260B)

Refer to Appendix B: Lab Analytical Reports w/ Chain of Custody Documentation for detailed analytical reports including dilution factors and reporting limits

TABLE 4: SOIL GAS SAMPLE ANALYTICAL DATA
Vic's Automotive
245 8th Street, Oakland, California

Probe/Sample ID	Date Collected	Sample Depth (ft bgs)	TPH-g µg/m3	MTBE µg/m3	Benzene µg/m3	Toluene µg/m3	Ethylbenzene µg/m3	Xylenes µg/m3	Ethanol µg/m3	PCE µg/m3	CD µg/m3	MEK µg/m3	Acetone µg/m3	2-Propanol[1] µg/m3
			EPA Method Modified TO-3	*EPA Method Modified TO-15*										
GP-1-5	8/4/2006	5	331	<8.0	<7.1	<8.4	<9.7	<9.7	<17	17	72	<6.6	82	23
GP-1-5D$_l$	8/4/2006	5	-	<8.0	<7.1	<8.4	<9.7	<9.7	<17	18	71	<6.6	78	23
GP-1-10	8/4/2006	10	493	<4.1	<3.6	<4.3	<5.0	<5.0	<8.6	20	71	11	120	<11
GP-2-5	8/4/2006	5	493	<4.4	<3.9	6.9	<5.4	10	<9.3	600	120	4.1	110	<12
GP-2-10	8/4/2006	10	352	<10	<9.0	18	<12	<12	<21	270	18	<8.4	62	<28
GP-3-5	8/4/2006	5	<240	<4.2	<3.7	<4.4	<5.0	<5.0	<8.8	<7.9	<3.6	4.8	110	<11
GP-3-10	8/4/2006	10	564	<4.2	<3.7	<4.4	<5.0	<5.0	<8.8	<7.9	9.0	5.6	240	<11
GP-4-5	8/4/2006	5	705	<4.4	5.4	<4.6	<5.4	<5.4	<9.3	<8.4	270	4.3	100	<12
GP-4-5$_l$	8/4/2006	5	599	-	-	-	-	-	-	-	-	-	-	-
GP-4-10	8/4/2006	10	564	<4.1	6.1	17	5.7	16	12	<7.8	250	9.4	130	<11
GP-4-10D$_f$	8/5/2006	10	529	<3.8	4.2	18	<4.6	17	18	<7.2	130	9.4	130	<10
ESLs			26,000	9,400	85	63,000	420,000	150,000	19,000,000	410	-	210,000	660,000	-
CHHSLs			-	4,000	36.2	135,000	postponed	315,000	-	180	-	-	-	-

1) 2-Propanol (i.e., isopropyl alcohol) is the tracer/leak check compound

ft bgs = feet below ground surface

µg/m3 = micrograms per cubic meter

TPH-g = total petroleum hydrocarbons as gasoline

MTBE = methyl tertiary-butyl ether

PCE = tetrachloroethene

CD = carbon disulfide

MEK = methyl ethyl ketone (i.e., 2-Butanone)

ESLs = Environmental Screening Levels - for residential land use

CHHSLs = California Human Health Screening Levels

D_f = after the probe/sample ID indicates a duplicate sample collected in the field

D_l = after the probe/sample ID indicates a duplicate sample prepared and analyzed by the lab

Please refer to Appendix B: Lab Analytical Reports w/ Chain of Custody Documentation for detailed analytical data, including dilution factors and reporting limits

APPENDIX A

MONITORING WELL FIELD SAMPLING FORMS

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-1

Project Name:	Vic's Automotive	Date of Sampling:	8/4/2006
Job Number:	111783	Name of Sampler:	Adrian Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	32.55		
Depth of Well	28.00		
Depth to Water (from top of casing)	15.11		
Depth to Free Product (from top of casing)	15.09		
Water Elevation (feet above msl)	17.44		
Well Volumes Purged	0		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	N/A		
Actual Volume Purged (gallons)	N/A		
Appearance of Purge Water	N/A		
Free Product Present?	Yes	Thickness (ft):	0.02

GROUNDWATER SAMPLES

Number of Samples/Container Size: Not sampled due to presence of free product.

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Well was neither purged nor sampled due to the presence of free product.

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-2

Project Name:	Vic's Automotive	Date of Sampling:	8/4/2006
Job Number:	111783	Name of Sampler:	Adrian Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	33.24		
Depth of Well	28.00		
Depth to Water (from top of casing)	15.95		
Water Elevation (feet above msl)	17.29		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**5.8**		
Actual Volume Purged (gallons)	6.0		
Appearance of Purge Water	Dark brown, clears at 0.5 gallons		
Free Product Present?	No	Thickness (ft):	Sheen

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	2	17.97	7.07	1141	10.12	-90.8	
	4	18.02	7.08	946	9.51	-91.8	
	6	18.07	7.05	837	7.88	-91.9	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Strong petroleum hydrocarbon odors noted.

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-3

Project Name:	Vic's Automotive	Date of Sampling:	8/4/2006
Job Number:	111783	Name of Sampler:	Adrian Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	34.25		
Depth of Well	25.00		
Depth to Water (from top of casing)	16.28		
Water Elevation (feet above msl)	17.97		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**17.0**		
Actual Volume Purged (gallons)	18		
Appearance of Purge Water	Initially brown, clears quickly		
Free Product Present?	No	Thickness (ft):	-

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	3	19.09	6.90	308	8.87	19.6	
	6	19.20	6.92	316	7.68	15.2	
	9	19.27	6.89	328	7.02	3.5	
	12	19.29	6.87	331	6.80	-14.2	
	15	19.29	6.86	339	6.86	-27.7	
	18	19.27	6.88	346	7.01	-35.0	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

No petroleum odors noted.

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-4

Project Name:	Vic's Automotive	Date of Sampling:	8/4/2006
Job Number:	111783	Name of Sampler:	Adrian Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	34.42		
Depth of Well	25.00		
Depth to Water (from top of casing)	17.39		
Water Elevation (feet above msl)	17.03		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**14.8**		
Actual Volume Purged (gallons)	15.0		
Appearance of Purge Water	Initially light brown, clears quickly		
Free Product Present?	No	Thickness (ft):	-

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	3	17.82	6.94	310	12.95	33.8	
	6	17.89	6.83	301	12.97	39.2	
	9	17.96	6.73	306	12.71	36.9	
	12	17.95	6.71	308	12.33	39.5	
	15	17.95	6.68	321	12.33	43.3	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

No petroleum odors noted.

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-5

Project Name:	Vic's Automotive	Date of Sampling:	8/4/2006
Job Number:	111783	Name of Sampler:	Adrian Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	33.33		
Depth of Well	22.00		
Depth to Water (from top of casing)	15.63		
Water Elevation (feet above msl)	17.70		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**12.4**		
Actual Volume Purged (gallons)	18.0		
Appearance of Purge Water	Initially light grey, clears quckly		
Free Product Present?	No	Thickness (ft):	-

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	3	18.70	6.87	580	10.40	-72.8	
	6	18.85	6.87	588	9.24	-78.1	
	9	18.84	6.89	622	8.51	-82.5	
	12	18.78	6.91	589	8.38	-81.1	
	15	18.71	6.96	504	7.96	-87.9	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Strong petroleum odors noted.

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-6

Project Name:	Vic's Automotive	Date of Sampling:	8/4/2006
Job Number:	111783	Name of Sampler:	Adrian Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	32.82		
Depth of Well	22.00		
Depth to Water (from top of casing)	15.22		
Depth to Free Product (from top of casing)	14.81		
Water Elevation (feet above msl)	17.60		
Well Volumes Purged	N/A		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	N/A		
Actual Volume Purged (gallons)	N/A		
Appearance of Purge Water	N/A		
Free Product Present?	yes	Thickness (ft):	0.41

GROUNDWATER SAMPLES

Number of Samples/Container Size	3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Well was neither purged nor sampled due to the presence of free product.

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-7

Project Name:	Vic's Automotive	Date of Sampling:	8/4/2006
Job Number:	9482	Name of Sampler:	Adrian Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	33.07		
Depth of Well	22.00		
Depth to Water (from top of casing)	15.74		
Depth to Free Product (from top of casing)	13.11		
Water Elevation (feet above msl)	17.33		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**12.2**		
Actual Volume Purged (gallons)	14.0		
Appearance of Purge Water	Initially brown, clears quickly		
Free Product Present?	Yes	Thickness (ft):	Sheen

GROUNDWATER SAMPLES

Number of Samples/Container Size

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	3	17.75	6.96	891	7.14	-66.8	
	6	17.77	6.94	752	5.87	-64.8	
	9	17.82	6.94	752	5.94	-68.1	
	12	17.84	6.95	784	6.13	-69.8	
	14	17.87	7.02	925	6.98	-81.1	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Strong petroleum odors noted.

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-10

Project Name:	Vic's Automotive	Date of Sampling:	8/4/2006
Job Number:	111783	Name of Sampler:	Adrian Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	31.17		
Depth of Well	22.00		
Depth to Water (from top of casing)	14.38		
Water Elevation (feet above msl)	16.79		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**15**		
Actual Volume Purged (gallons)	16		
Appearance of Purge Water	Initially greenish brown, clears at 1.5 gallons		
Free Product Present?	No	Thickness (ft):	-

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	3	18.53	7.30	376	9.70	-46.0	
	6	18.68	6.84	352	8.03	-14.1	
	9	18.71	6.68	350	7.75	-7.1	
	12	18.76	6.53	344	7.53	-4.7	
	15	18.74	6.52	343	7.55	-5.9	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Strong petroleum odors noted.

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-11

Project Name:	Vic's Automotive	Date of Sampling:	8/4/2006
Job Number:	111783	Name of Sampler:	Adrian Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	31.78		
Depth of Well	22.00		
Depth to Water (from top of casing)	15.17		
Water Elevation (feet above msl)	16.61		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**13.3**		
Actual Volume Purged (gallons)	15.0		
Appearance of Purge Water	Initially brown, clears after 1.5 gallons		
Free Product Present?	No	Thickness (ft):	

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO(mg/L)	ORP (meV)	Comments
	3	18.09	6.83	285	8.17	-51.1	
	6	18.17	6.71	285	7.92	-44.1	
	9	18.24	6.55	297	7.93	-34.5	
	12	18.24	6.50	297	7.75	-26.1	
	15	18.20	6.51	306	7.40	-9.8	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Strong petroleum odors noted.

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-12

Project Name:	Vic's Automotive	Date of Sampling:	8/4/2006
Job Number:	111783	Name of Sampler:	Adrian Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	32.05		
Depth of Well	22.00		
Depth to Water (from top of casing)	15.39		
Water Elevation (feet above msl)	16.66		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**13.0**		
Actual Volume Purged (gallons)	15.0		
Appearance of Purge Water	Initially light brown, clears quickly		
Free Product Present?	No	Thickness (ft):	

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	3	17.94	6.70	331	7.56	-5.1	
	6	17.98	6.59	361	7.42	-3.2	
	9	18.07	6.52	408	7.38	0.8	
	12	18.03	6.57	477	7.29	-1.1	
	15	18.01	6.60	513	7.06	-2.8	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Moderate petroleum odors noted.

APPENDIX B

LABORATORY ANALYTICAL REPORTS W/ CHAIN OF CUSTODY DOCUMENTATION

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #116907; Vic's Automotive	Date Sampled: 08/04/06
		Date Received: 08/04/06
	Client Contact: Ricky Bradford	Date Reported: 08/10/06
	Client P.O.:	Date Completed: 08/10/06

WorkOrder: 0608129

August 10, 2006

Dear Ricky:

Enclosed are:

1). the results of **8** analyzed samples from your **#116907; Vic's Automotive project,**

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

AEI 0608129

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? YES PDF Required? YES

Report To: Ricky Bradford Bill To:
Company: AEI Consultants
2500 Camino Diablo, Suite 200
Walnut Creek, CA 94597 E-Mail: rbradford@aeiconsultants.com
Tele: (925) 283-6000 ext. 148 Fax: (925) 944-2895
Project #: 116907 Project Name: Vic's Automotive
Project Location: 245 8th Street, Oakland
Sampler Signature: Robert Nieto

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED Ice	HCl	HNO_3	Other
MW-1		8/4/06	Not Sample	3	VOAs	X					X	X		
MW-2			8:50A			X					X	X		
MW-3			6:35			X					X	X		
MW-4			8:25			X					X	X		
MW-5			7:20			X					X	X		
MW-6			Not sample			X					X	X		
MW-7			9:25A			X					X	X		
MW-10			11:20			X					X	X		
MW-11			11:29			X					X	X		
MW-12			11:36A			X					X	X		

Analysis Request

BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI
X														
X														
X														
X														
X														
X														
X														
X														
X														
X														

Other | Comments

Relinquished By:	Date:	Time:	Received By:
Robert Nieto	8/4/06	4:45P	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

	VOAS	O&G	METALS	OTHER
PRESERVATION				

ICE/t°_____
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____ PERSERVED IN LAB_____
APPROPRIATE CONTAINERS_____

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0608129 **ClientID: AEL** **EDF: NO**

Report to:
Ricky Bradford
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597

Email:
TEL: (925) 283-600 FAX: (925) 944-289
ProjectNo: #116907; Vic's Automotive
PO:

Bill to
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597

Requested TAT: 5 days

Date Received: **08/04/2006**
Date Printed: **08/04/2006**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0608129-002	MW-2	Water	08/04/2006	☐	A											
0608129-003	MW-3	Water	08/04/2006	☐	A											
0608129-004	MW-4	Water	08/04/2006	☐	A											
0608129-005	MW-5	Water	08/04/2006	☐	A											
0608129-007	MW-7	Water	08/04/2006	☐	A											
0608129-008	MW-10	Water	08/04/2006	☐	A											
0608129-009	MW-11	Water	08/04/2006	☐	A											
0608129-010	MW-12	Water	08/04/2006	☐	A											

Test Legend:

1	G-MBTEX_W	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Rosa Venegas

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: #116907; Vic's Automotive	Date Sampled: 08/04/06
2500 Camino Diablo, Ste. #200		Date Received: 08/04/06
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 08/08/06-08/10/06
	Client P.O.:	Date Analyzed 08/08/06-08/10/06

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0608129

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
002A	MW-2	W	160,000,a,h	14,000	22,000	14,000	2400	11,000	100	112
003A	MW-3	W	93,m	ND	ND	1.5	ND	ND	1	110
004A	MW-4	W	270,a	ND	7.3	33	5.6	32	1	100
005A	MW-5	W	73,000,a	ND<500	4700	8600	1700	7600	100	101
007A	MW-7	W	230,000,a,h	19,000	37,000	37,000	3100	14,000	100	94
008A	MW-10	W	190,000,a,h	ND<2200	17,000	35,000	2800	13,000	100	104
009A	MW-11	W	290,000,a,h	11,000	33,000	43,000	3300	15,000	100	113
010A	MW-12	W	240,000,a,h	55,000	40,000	24,000	3200	12,000	100	108

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0608129

EPA Method: SW8021B/8015Cm	Extraction: SW5030B	BatchID: 23060	Spiked Sample ID 0608127-006A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)£	ND	60	113	98	13.9	110	109	0.381	70 - 130	70 - 130
MTBE	ND	10	76.2	87	13.3	107	101	5.63	70 - 130	70 - 130
Benzene	ND	10	106	118	11.0	101	101	0	70 - 130	70 - 130
Toluene	ND	10	106	116	9.35	92.9	94.2	1.43	70 - 130	70 - 130
Ethylbenzene	ND	10	110	113	2.48	102	104	2.08	70 - 130	70 - 130
Xylenes	ND	30	117	100	15.4	96.7	103	6.67	70 - 130	70 - 130
%SS:	115	10	103	113	10.0	97	101	4.02	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 23060 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0608129-002A	8/04/06 8:50 AM	8/08/06	8/08/06 11:08 PM	0608129-003A	8/04/06 6:35 AM	8/09/06	8/09/06 1:26 AM
0608129-004A	8/04/06 8:25 AM	8/09/06	8/09/06 1:56 AM	0608129-005A	8/04/06 7:20 AM	8/09/06	8/09/06 1:59 AM
0608129-007A	8/04/06 9:25 AM	8/10/06	8/10/06 1:38 AM	0608129-008A	8/04/06 11:20 AM	8/09/06	8/09/06 6:25 AM
0608129-009A	8/04/06 11:29 AM	8/09/06	8/09/06 6:55 AM	0608129-010A	8/04/06 11:36 AM	8/09/06	8/09/06 7:24 AM
0608129-010A	8/04/06 11:36 AM	8/09/06	8/09/06 6:57 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.