AEI CONSULTANTS
ENVIRONMENTAL & ENGINEERING SERVICES

2500 Camino Diablo, Walnut Creek, CA 94597
tel 800-801-3224
fax 925-944-2895
www.aeiconsultants.com

August 1, 2008

Attn. Mr. Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject: **Monitoring Well Installation & Quarterly Site Monitoring Report (Second Quarter, 2008)**

245 8th Street
Oakland, California 94607
Project No. 116907
ACHCSA RO#0000202

Dear Mr. Wickham:

Enclosed is a copy of the recently completed "Monitoring Well Installation & Quarterly Site Monitoring Report (Second Quarter, 2008)", prepared for the subject property.

As required, an electronic version of this report has been uploaded to the State Water Resources Control Board's GeoTracker information system and the Alameda County Health Care Services Agency ftp site for your review and comment.

We look forward to hearing your comments regarding this report and our recommendations regarding the next scope of work. Should you have any questions or comments, or need any additional information, you may reach me at (925) 944-2899, ext. 148.

Sincerely,
AEI Consultants

Richard J. Bradford
Project Engineer

RB/

Enclosure

cc: Mr. Victor Lum, Vic's Automotive, 245 8th Street, Oakland, California 94607

August 1, 2008

MONITORING WELL INSTALLATION & QUATERLY SITE MONITORING REPORT (SECOND QUARTER, 2008)

245 8th Street
Oakland, California

AEI Project No. 116907
ACHCSA RO#00000202

Prepared For:

Vic's Automotive
245 8th Street
Oakland, California 94607

Prepared By:

AEI Consultants
2500 Camino Diablo, Suite 200
Walnut Creek, California 94597
(925) 944-2899

AEI

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

1.0 INTRODUCTION

AEI Consultants (AEI) has prepared this report on behalf of Mr. Victor Lum, owner and operator of Vic's Auto automotive repair and fuel service station located at 245 8th Street in the City of Oakland, Alameda County, California (Figure 1). AEI has been retained by Mr. Lum to provide environmental engineering and consulting services related to the release of gasoline fuel hydrocarbons from the former underground storage tank (UST) and dispensing system on the property. The ongoing investigation and mitigation of the release is being performed under the direction of the Alameda County Health Care Services Agency (ACHCSA). This report has been prepared to document the field activities and results of groundwater and soil gas monitoring for the Second Quarter, 2008 as well as the high vacuum dual phase extraction (HVDPE) system processing monitoring and operations and maintenance (O&M) activities for the months of April, May, and June of 2008. This report also presents the results of the installation and first round of sampling of wells MW-8, MW-9, and MW-13, including confirmation sampling based on the initial results.

The HVDPE system was installed and started up in June of 2007. The main purposes for installing and operating a HVDPE system onsite as interim corrective action include:

- Hydrocarbon mass removal by performing continuous HVDPE using existing monitoring/extraction wells for the removal, recovery, and treatment of light non-aqueous phase liquid (LNAPL), soil gas, and groundwater from the vadose zone, capillary fringe, and shallow saturated zone in accordance with state and local air and water quality permit requirements.

- Performing continuous HVDPE at the source and along the southwestern property boundary to the mitigate the potential for vapor intrusion into nearby residences situated above and in close proximity to the LNAPL and groundwater plumes by maintaining a low negative pressure (i.e., high vacuum) in the subsurface relative to the building foundations.

2.0 SITE DESCRIPTION & 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 service station and automotive 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 with two bays used for automotive repair, two restrooms, and a cashier's office. The current UST hold and the dispenser island are located to the north of the building, along 8th Street. The former UST hold was located to the south of the building, along Alice Street. The remainder of the property is paved with asphalt and used for parking and staging vehicles for repairs.

- Between June of 1993 and August of 1994, AEI removed seven (7) underground storage tanks (USTs) from the property. The tanks consisted of four (4) 1,000-gallon gasoline tanks located in the sidewalk along Alice Street, two (2) 6,000-gallon gasoline tanks and one (1)

250-gallon waste oil tank. 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.

- In July of 1995, two (2) groundwater monitoring wells (MW-1 and MW-2) were installed onsite. Total petroleum hydrocarbons as gasoline (TPH-g) and benzene were detected in MW-2 at concentrations up to 210,000 µg/L and 720 µg/L, respectively during the first two monitoring episodes. Light non-aqueous phase liquid (LNAPL) or free phase gasoline was discovered in MW-1. The apparent LNAPL thickness in MW-1 ranged from 1.20 to 4.39 feet between December 1995 and March 1996.

- In August of 1996, AEI advanced three (3) soil borings (i.e., SB-1 through SB-3) onsite. TPH-g and benzene were detected in the groundwater samples from these borings at concentrations 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 detected in all three samples at concentrations up to 27,000 µg/L. Although free phase product was not observed in the field, qualitative laboratory observations indicated an immiscible sheen was present in the samples.

- Manual bailing and pumping of LNAPL from MW-1 occurred intermittently from 1997 to 1998.

- In May of 2001, two (2) additional groundwater monitoring wells (MW-3 and MW-4) were installed onsite. In June of 2001, a free product recovery system was installed in MW-1. The free product recovery system removed several hundred gallons of LNAPL between 2001 and 2003.

- In April of 2003, AEI advanced twelve (12) additional soil borings (SB-4 to SB-15) onsite and offsite for the collection of soil, shallow groundwater, and soil vapor samples to further characterize the magnitude and lateral extent of the release.

- In January of 2005, AEI installed six (6) additional monitoring/extraction wells (MW-5, MW-6 and MW-7 were installed onsite and wells MW-10 to MW-12 were installed offsite at the 708 Alice Street property). Wells MW-8 and MW-9 were proposed for installation in the parking lane along 7th and Alice Streets; however, due to difficult insurance wording requirements imposed by the City of Oakland, these wells were not installed until March of 2008.

- From July 11 to July 27, 2005, a 16-day HVDPE pilot test was performed on wells MW-1, MW-2, MW-5, MW-6, and MW-7. Combined vapor influent 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 (in-Hg). The average water flow rate was approximately 4.1

gallons per minute (gpm). A total of 80,740 gallons of groundwater was recovered, treated, and discharged to the sanitary sewer under a short-term, limited volume groundwater discharge permit from the East Bay Municipal Utilities District (EBMUD). Significant drawdown and pressure (i.e., vacuum) response was observed in the vadose and saturated zone monitoring points. Approximately 5 pounds per day (lbs/day) of dissolved phase and 697 lbs/day of vapor phase hydrocarbons were recovered during the test. A total of 10,719 pounds or 1,716 gallons of gasoline was removed during this test. Based on the encouraging results of this pilot test, AEI recommended interim corrective action using HVDPE for 12 to 18 months using fixed equipment. Please refer to AEI's "HVDPE Event Report", dated December 14, 2005, for more information.

- In March of 2006, the ACHSA concurred with the implementation of HVDPE using fixed equipment and requested a system design, operations and maintenance, and monitoring plan. In this letter, the ACHSA also requested soil vapor sampling to evaluate the potential for vapor intrusion due to the elevated concentrations of fuel hydrocarbons detected in the soil and groundwater onsite and offsite.

- In May of 2006, a HVDPE system design, operations and maintenance, and monitoring plan and a separate soil gas investigation work plan were submitted to ACHSA for review and comment. Please refer to AEI's "High Vacuum Dual Phase Extraction System Design, Operations, and Maintenance Plan," dated May 24, 2006 and "Soil Gas Investigation Work Plan", dated May 12, 2006, for more information.

- In November of 2006, trenching and installation of the conveyance piping for HVDPE system was conducted. The system completion and delivery was scheduled for 1st Quarter 2007; however, the system was delivered in April 2007. The remaining infrastructure, such as the rotary phase converter, equipment, fence, and wellhead connections were installed in May of 2007 and the system was started up on June 26, 2007.

- On June 11, 2007, two (2) 55-gallon drums, or approximately 100 gallons of water containing about 50% LNAPL, was removed from MW-1 and MW-6 by operating the HVDPE system in product skimming mode.

- In November of 2007, additional HVDPE conveyance piping was installed above grade behind the onsite building to the rear of the property and the system was expanded to include monitoring/extraction wells MW-10, MW-11, and MW-12.

- In March of 2008, wells (MW-8, MW-9 and MW-13) were finally installed. Elevated concentrations of TPH-g, BTEX, and MTBE were detected in samples collected from MW-9. Low to none-detectable concentrations of TPH-g, BTEX, and MTBE were detected in MW-8 and MW-13. Elevated concentrations of MTBE were detected in MW-13.

3.0 GEOLOGY AND HYDROGEOLOGY

The elevation of the site is approximately 27 to 29 feet above mean sea level (amsl). The site is flat; however, the topography of the area slopes gently to the southwest. The site is located between Lake Merritt and the Oakland Inner Harbor channel, approximately one-half mile from each. The near surface sediments are mapped as Holocene and Pleistocene Merritt Sand (Qms), which are further described as "fine-grained, well-sorted, well-drained, Aeolian sand deposits" (Helley and Graymer, 1997 and Graymer, 2000). Depth to the Franciscan Formation basement underlying the unconsolidated deposits is approximately 400 feet (Norfleet Consultants, 1998).

Based on the logs of soil borings advanced on and offsite, the native soils generally consist of fine to medium grained sands with silt and clay present to at least 28 feet bgs, the deepest explored at the site. Typically, silty and clayey fine grained sand have been encountered to depths of 15 to 18 feet bgs. This is underlain by poorly graded, clean to slightly clayey and silty fine to medium sand. Both sand bodies represent a single hydro-geologic system. Sediments have been relatively uniform throughout the investigation area.

Groundwater depths have typically ranged from 13 to 17 feet bgs, corresponding to elevation of approximately 10 to 14 feet above mean sea level (msl). Annual groundwater levels fluctuate by approximately 3 to 4 feet. Groundwater has consistently flowed to the south, southeast, or southwest with a hydraulic gradient of approximately 0.010 ft/ft. Recent water levels have been affected by the groundwater extraction activities.

4.0 MONITORING WELL INSTALLATION

Three (3) monitoring wells (MW-8, MW-9, and MW-13) were installed to delineate the dissolved fuel hydrocarbon plume down-gradient. MW-9 and MW-13 were installed in a parking lane on the northeast side of 7th Street approximately 60-feet apart. MW-8 was installed just outside the parking lane along Alice Street, approximately 40-feet west of MW-6 and 30-feet southwest of SB-2, which are both areas where free product has been historically detected. The approximate well locations are shown on Figure 2.

4.1 Permits and Clearances

Prior to construction, well installation permits (W2008-0127, W2008-0128, and W2008-0129) were obtained from the Alameda County Public Works Agency (ACPWA) and an encroachment permit (ENMI-07302) and two (2) excavation permits (X0800359 & X0800360) were obtained from the City of Oakland. Prior to drilling, the work area was clearly identified with white marking paint and Underground Service Alert (USA) North was notified at least three 3-days prior to drilling to identify underground public utilities in the work area. Because the borings were cleared with a hand-auger to 10-feet bgs, a private utility locator was not contracted.

The well installation, encroachment, and excavation permits are included in Appendix D.

4.2 Health & Safety Meeting

Prior to drilling, a site safety meeting was held at a designated command post near the working area to review the Health and Safety Plan (HASP). Working hazards and emergency procedures were discussed at this meeting, including an explanation of the hazards of the known or suspected chemicals of interest as well as the location and route to the nearest hospital. All site personnel were in modified Level D personal protection equipment. A work area or "exclusion zone" was established with orange cones and/or barricades and warning tape to delineate the zone where hard hats and steel-toed shoes must be worn and where unauthorized personnel will not be allowed. A site safety plan conforming to Part 1910.120 (i) (2) of 29 CFR was available on site at all times during the project.

4.3 Monitoring Well Construction

The wells were installed by Precision Sampling, Inc. (C-57 #636387) of Richmond, California with under the direct supervision of an AEI project engineer and professional geologist. The borings for the wells were drilled and sampled with track-mounted limited-access rotary auger drilling rig (roughly equivalent to a CME-75) running 8 to 12-inch diameter hollow stem augers. MW-9 and MW-13 were constructed with standard 2-inch diameter schedule 40 polyvinyl chloride (PVC) well screen (0.010 slotted) and flush threaded riser. MW-8 was constructed with 4-inch diameter well screen and riser for potential use as an extraction well if needed. The wells were installed to a total depth of 22-feet bgs with the screen interval extending from 12 to 22 feet bgs, which is identical to MW-10, MW-11, and MW-12. The annular space was filled with #2/12 Monterey sand to approximately 1-foot above the top of the well screen. At least 2-feet of hydrated bentonite chips were installed above the sandpack and the remainder of the borehole was sealed to approximately 0.5-feet bgs with Type I through II Portland cement grout. The tops of the well casing were secured with an expanding well cap. The wellhead was completed to grade with an 8-inch diameter traffic-rated well box. The wells were later labeled and tagged by an ACPWA inspector as required.

4.4 Soil Description, Sampling, and Analyses

Soil samples were collected by driving a 2-inch diameter by 18-inch long California modified split spoon sampler lined with three (3) 6-inch long brass sample tubes into undisturbed soil at the target depth. Samples were collected and retained at a minimum of 5-foot intervals for possible chemical analyses, field screening, and description according to the Unified Soil Classification System (USCS) using the "visual-manual procedure" (ASTM D2488) by noting color, moisture content, texture, and grain-size and distribution. Boring and well construction logs are logs are included in Appendix E

Select soil samples retained for possible chemical analyses were sealed with Teflon tape and plastic end caps, labeled with unique sample identifiers, entered on a chain of custody record, and placed in a pre-chilled cooler with water and ice pending transportation to the laboratory. A duplicate soil sample was placed into 1-quart zipper locking bags and the headspace was screened for the presence of organic vapors with a photo-ionization detector. Samples were transporated ont eh

same day of collection under proper chain of custody protocol to McCampbell Analytical, Inc. of Pittsburg, California (Department of Health Services Certification #1644). Soil samples from 15 and 20-feet bgs were submitted for chemical analysis and all other samples were placed on hold at the laboratory. Selected soil samples were analyzed for TPH-g by EPA Method 8015C and MBTEX by EPA Method 8021B.

4.5 Equipment Decontamination, Waste Storage, & Disposal

The hollow-stem augers were scrubbed and cleaned with an Alconox® detergent and rinsed with clean water between borings. Soil cuttings and other investigation-derived wastes (IDW) were stored in 55-gallon DOT-approved drums (sealed and labeled) pending the results of the sample analyses and arrangements for off-site disposal. The IDWs were handled and disposed in accordance with all applicable local, state, and federal regulations.

5.0 HVDPE TECHNOLOGY AND PROCESS DESCRIPTION

5.1 Technology Overview

HVDPE is a proven and effective technology for a wide range of soil types and subsurface conditions. HVDPE is often also referred to as dual phase extraction (DPE), multi-phase extraction (MPE), two-phase extraction (TPE), and sometimes "bioslurping". There are several variations of this technology, but a great majority of HVDPE systems use a water-sealed liquid-ring vacuum pump to simultaneously extract and recover LNAPL, groundwater, and soil gas through a single 1-inch diameter adjustable drop tube (also called a "stinger") sealed within a 2 to 4-inch diameter extraction well. The application of high vacuum enhances soil vapor extraction (SVE) by lowering the water table and creating dewatered zones and exposing previously saturated soils to airflow. The airflow through the subsurface supplies oxygen needed to enhance in-situ aerobic biodegradation of fuel hydrocarbons, which is analogous to bioventing technology.

5.2 Site, System, & Process Description

Light non-aqueous phase liquid (LNAPL), soil gas and groundwater are simultaneously extracted through a single 1-inch diameter drop tube currently installed in eight (8) monitoring/extracting wells (MW-1, MW-2, MW-5 to MW-7, and MW-10 to MW-12) using two (2) 15 horsepower water-sealed liquid ring pumps piped in parallel. These pumps can generate flows up to 140 cubic feet per minute (cfm) each (i.e., 280 cfm combined capacity) and high vacuums of up to 28 in-Hg, but normally operate in the range of 18 to 22 in-Hg. The monitoring wellheads were modified for dual phase extraction by installing a 1-inch PVC ambient bleed air valve, two-hole cast iron wellhead pump seal, stinger and casing vacuum gauges, and 1-inch clear, flexible PVC stinger. The manifold and conveyance piping leading up to the manifold were constructed out of schedule 80 PVC. Recovered LNAPL, soil gas, and groundwater are separated by a knock-out tank. Because the LNAPL and other gasoline fuel hydrocarbons dissolved in the groundwater are volatilized under high vacuum (i.e., >20 in-Hg), an oil-water separator is not used. A progressive cavity pump transfers the groundwater from the knock-out tank to the top of the low-profile air

stripping unit. Groundwater trickles-down through small holes in the air stripper trays, where nearly 99% of the remaining volatile fuel hydrocarbons are stripped from the groundwater. Groundwater is pumped from the air stripper reservoir to a single 1,000-pound activated carbon absorber, where its further treated and polished and then discharged to the onsite sanitary sewer under a wastewater discharge permit from the East Bay Municipal Utilities District (EBMUD). The soil gas and off-gas from the air stripping unit is routed to a thermal/catalytic oxidizer operating in catalytic mode for direct thermal destruction. The catalytic oxidizer operates at 700 °F with a minimum destruction efficiency of 99% as required by permit. The treated off-gas is discharge through a stack located 15 feet above grade under a Bay Area Air Quality Management District (BAAQMD) air quality permit.

A Dwyer® Instruments (Model No. DS-300) averaging pitot tube combined with a dual-scale Magnehelic® differential pressure gauge is used to measure the well velocity and total velocity. The well velocity and total velocity are multiplied by the cross sectional area of the pipe (i.e., 0.0491 ft^2 for a 3-inch pipe) to obtain the actual flow rate. The difference between the well flow rate and total flow rate is the air stripper flow rate. All flow rates are corrected to standard temperature and pressure (i.e., 70°F and 1 atm or 29.92 in-Hg) using formulas provided by Dwyer®. The groundwater recovery volume is measured with a Neptune (Model T-10) cold water flow totalizer and recorded along with the equipment hour meter reading during each O&M visit. The flow totalizer and hour meter readings are used to estimate the average daily flow rate between sampling dates.

The field point names for the vapor influent sample ports are the monitoring well identification followed by the letter "S" (i.e., MW-1S, MW-2S, MW-5S to MW-7S and MW-10S to MW-12S). These sample ports are labeled and located along a common a common manifold inside the fenced equipment enclosure. Control valves are installed on each line to regulate the vacuum and flow. Clear sections of pipe are also installed on each line to observe the flow patterns and process streams.

The field point names for the vapor influent samples ports before dilution air, after dilution air, and from the air stripping unit and the stack gas effluent sample port are: PRED, POST, AS, and STACK.

The field point names for the water influent sample ports for the combined influent, after the air stripper, after the first carbon absorber, and after the last carbon absorber at the effluent: INF, POST-AS, POST-C1, and EFF.

The four (4) nested soil gas probes used for collecting soil gas samples and vacuum measurements are as follows: SG-1-5', SG-10', SG-2-5', SG-2-10', SG-3-5', SG-3-10', to SG-4-5' and SG-1-10'.

The location of the sample ports for the extraction wells are shown on Figure 3. The soil gas probe locations are shown on Figure 2.

6.0 SUMMARY OF MONITORING ACTIVITIES

6.1 Quarterly Groundwater Monitoring

The HVDPE system was shutdown on May 13, 2008, approximately three (3) days prior to groundwater monitoring event. On May 15, 2008, the water levels were measured and groundwater samples were collected from monitoring wells MW-1 through MW-13. The well locations are shown in Figure 2.

The well caps and stingers, where applicable, were removed and depths from the top of the well casings were measured with an electronic water level indicator prior to sampling. Wells with no measurable free product were purged of at least three well volumes of water with a submersible purge pump and sampled using disposable polyethylene bailers.

Temperature, turbidity, pH, specific conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were measured while purging the wells and 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% of the static level, a water sample was collected.

The groundwater samples were collected with disposable PVC bailers into 40-millileter (mL) volatile organic analysis (VOA) vials and capped so that no head space or 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 Pittsburg, California (DHS Certification #1644). The thirteen (13) groundwater samples were submitted for chemical analysis for TPH-g by EPA Method 8015C and MBTEX by EPA Method 8021B.

6.2 Quarterly Soil Gas Monitoring for Vapor Intrusion Evaluation

Soil gas sampling for vapor intrusion evaluation, including purging, leak testing, sampling, and sample analyses was performed in accordance with the most current "Advisory – Active Soil Gas Investigations" (ASGI), dated January 28, 2003.

The HVDPE system was shutdown on May 7, 2008, approximately one (1) day prior to soil gas monitoring event. On May 8, 2008, soil gas samples were collected from four (4) nested gas probes GP-1 through GP-4 at two depths of approximately 5 and 10 feet bgs. The soil gas probe locations are shown on Figure 2.

Prior to sampling, the soil gas probes were purged of three (3) volumes of dead air using a 30 to 60 milliliter (ml) plastic syringe connected to the purging/sampling manifold using a 3-way stopcock valve and small section of 3/16-inch diameter silicone tubing. Low to no-flow conditions were immediately detected in GP-4-10' using the syringe purging method. Purging prior to sampling 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 milliliters (mL), respectively. Three default purge volumes for the 5 and 10-foot probes are 48.3 and 82.8 mL, respectively.

After the probes were adequately purged, soil gas samples were collected into 1-Liter laboratory-evacuated Summa canisters and labeled with unique identification. The purging and sampling manifold, supplied by McCampbell Analytical, Inc., was equipped with a critical orifice flow regulator and down-hole pressure (i.e., vacuum) gauge. The critical orifice device was designed maintain a constant sampling flow rate of approximately 200 milliliters per minute (mL/min) as recommended by the ASGI. However, please note that the actual flow rate varies depending upon the down-hole pressure (i.e., vacuum). The soil gas sampling manifold was placed inline between the soil gas probe and Summa™ canister and used for both purging and sample collection. A new laboratory-certified clean sampling manifold was used at each sampling point. A field duplicate was not collected and a trip blank was not used during this sampling event. The presence of free moisture or water was encountered in GP-4-10', but sample collection was still possible.

The sampling manifolds and all valves and connections downstream of the Summa canisters were leak tested and confirmed to hold a vacuum for at least 5-minutes. Places where ambient air could enter the sampling train, including all Swagelok® valves and connections and the permanent bentonite seals around the soil gas probes, were also leak checked with a tracer compound. A 12-inch plastic leak test dome was placed over the sampling probe at the surface. A rag moistened with isopropyl alcohol (i.e., 2-propanol) was placed under the dome as a tracer compound. Cotton strips moistened with isopropyl alcohol were also placed around the Swagelok® valves and fittings. To avoid possible cross contamination, the isopropyl alcohol leak check compound was stored separately from other sampling tools in a zipper locking bag. This tracer compound is not know or suspected to be present in gasoline or anywhere in the subsurface onsite.

A total of eight (8) soil gas samples were collected and transported under proper chain of custody protocol to McCampbell Analytical, Inc. of Pittsburg, California (DHS No. 1644) on the day of collection. The soil gas samples were analyzed for TPH-g by modified EPA Method TO-3 and for select volatile organic compounds (VOCs), including BTEX, MTBE, and tetrachloroethene (PCE) by modified EPA Method TO-15 along with the 2-propanol leak check compound. The detection limit for 2-propanol was at least 10 µg/L or 10,000 µg/m^3. Laboratory procedures included appropriate quality assurance and quality control protocols, including method blanks and use of surrogates during sample analyses.

6.3 HVDPE System Process Monitoring

6.3.1 Routine Monitoring and Data Collection

An AEI project engineer monitored the system using the remote monitoring system via email daily from the office. The system was also monitored and checked by a senior field technician weekly to biweekly and as needed to respond to system shutdowns. A Daily Field Report and/or O&M Field Log were filled out during each site visit. Routine O&M visits ranged from approximately 2 to 4 hours per visit, depending upon the activities performed.

The following data was recorded on the Daily Field Report and/or O&M Field Log during each site visit:

- HVDPE System: current hour meter reading, PG&E meter reading (kilowatt-hours), system runtime (hours), system inlet vacuum (in-Hg), vacuum at the inlets of both liquid ring pumps (in-Hg), well velocity (fpm) and calculated well flow rate (cfm) by multiplying the well velocity by the cross-sectional area (ft^2) of a 3-inch pipe, control valve initial and final positioning (% open), and cooling fan(s) status (on/off).

- HVDPE Wells: the stinger vacuum (in-Hg), casing vacuum (in-Hg), and drop tube depth (ft toc) data were collected monthly or as needed.

- Thermal/Catalytic Oxidizer: propane level (%), preheat controller temperature (°F), exhaust controller temperature (°F), total velocity (fpm) and calculated total flow rate (cfm) by multiplying the total velocity and by the cross-sectional area (ft^2) of a 3-inch pipe.

- Air Stripper: variable frequency drive setting (Hz), outlet velocity (fpm) and calculated outlet flow rate (cfm) by subtracting the well flow rate from the total flow rate, air stripper tray backpressure (in-H2O), control valve positioning (% open).

- Activated Carbon Absorbers: inlet pressure (psig), outlet pressure (psig), flow totalizer reading (gallons), and whether or not the bag filter was change and/or carbon absorber backwashed.

6.3.2 Influent & Effluent Vapor Monitoring

Influent and effluent vapor samples were collected on April 30, May 29, and June 26, 2008. The extraction well and other process sample ports were continuously purged and sampled with a 1/16 horsepower (0.5 cfm) vacuum pump, capable of vacuums up to 25 in-Hg, using the "side-stream" purging and sampling method as described in Downey, et al., 2004 and Hinchee, et al., 1996. A 2-liter water separator device was used to collect vapor samples from the dual-phase air-water influent process stream.

TVH, CH4, O2, and CO2 concentrations were continuously monitored with an RKI Eagle multi-gas detector using a sampling tee placed several feet downstream of the pump outlet. The hydrocarbon detector, which is a catalytic bead sensor, was calibrated with a 40% LEL (i.e., 4,400 ppmv) hexane gas standard. The methane, oxygen, and carbon dioxide detectors were also calibrated with the appropriate gas standards. Once the readings stabilized, they were recorded on the field data sheets and a vapor sample was collected into 1-liter tedlar bag using the same sampling tee.

The tedlar bags were stored in a cardboard box and transported under proper chain of custody protocol to McCampbell Analytical, Inc. of Pittsburg, California (DHS Certification No. 1644) on

the day of collection. The samples were analyzed for TPH-g by EPA Method 8015C and MBTEX by EPA Method 8021B.

6.3.3 Influent & Effluent Water Monitoring

Influent and effluent water samples were collected on April 1, 2008, April 30, May 29, and June 26, 2008. The process water sample ports were purge of approximately 1-Liter of water prior to sample collection. Water was collected into three (3) 40-millileter (mL) volatile organic analysis (VOA) vials, or as required by the analysis, and capped so that no head space or air bubbles were present within the sample containers.

A total of three (3) water samples were collected and transported in a pre-chilled cooler on a mixture of water and ice under proper chain of custody protocol to McCampbell Analytical, Inc. of Pittsburg, California (DHS Certification #1644) on the day of collection. The samples were analyzed for TPH-g by EPA Method 8015C and MBTEX by EPA Method 8021B.

6.3.4 Soil Gas Composition & Vacuum Influence Monitoring

The soil gas probes were screened in the field for TVH, CH4, O2, and CO2 and vacuum influence was measured on April 30, 2008.

The vacuum influence was measured with a set of Magnehelic differential pressure gauges and recorded first. A 3/16-inch inside diameter clear vinyl or equivalent tubing was used to connect the Magnehelic® gage to the plug valve and soil gas probe. The following pressure ranges in inches of water were normally available: 0-0.2", 0-1", 0-5", 0-10", 0-20", 0-50", 0-100", and 0-150".

Then the soil gas probes were purged and sampled with a 1/16 horsepower (0.5 cfm) vacuum sampling pump, a peristaltic pump, or equivalent pump, capable of vacuums up to 25 in-Hg, using the "side-stream" purging and sampling method as described in Downey, et al., 2004 and Hinchee, et al., 1996.

TVH, CH4, O2, and CO2 concentrations were continuously monitored with an RKI Eagle multi-gas detector using a sampling tee placed several feet downstream of the pump outlet. The hydrocarbon detector, which is a catalytic bead sensor, was calibrated with a 40% LEL (i.e., 4,400 ppmv) hexane gas standard. The methane, oxygen, and carbon dioxide detectors were also calibrated with the appropriate gas standards. Once the readings stabilized, they were recorded on the field data sheets. Vapor samples were not collected into 1-liter tedlar bags for laboratory analysis.

6.4 HVDPE System Operations & Maintenance

6.4.1 Routine Maintenance

Routine maintenance performed during this quarter included:

- Performed visual inspections of all major system components, including checking for signs of leaks, physical wear, and/or damage during each site visit.

- Checked the cooling blower filter, dilution air inlet filter, and air stripper blower filter. The cooling blower filter was changed on June 23, 2008 for the second time at about 5,400 hours of operation. The dilution air inlet and air stripper blower filters were not changed, but are likely to be changed during the next quarter.

- The stingers in MW-10, MW-11, and MW-12 were lowered 1-foot on May 2, 2008.

- The PV-1000 (1,000-pound) liquid-phase carbon absorber was not backwashed during this quarter.

6.4.2 Non-Routine Maintenance

Non-routine maintenance performed during this quarter included:

- The system shutdown on May 1, 2008 due to a high-high water level alarm on Liquid Ring Pump #2 (LRP #2). An AEI technician mobilized to the site the following day and discovered that the water skimming line was clogged with iron bacteria. This line is responsible for recycling excess water generated by the liquid ring pump from separator reservoir to the knock-out tank. The line was cleared with a clothes hanger and compressed air, excess water was drained from the pump, and the alarm was cleared at the control panel. The system was restarted; however, the system shutdown because the preheat temperature controller would not maintain the proper set point.

- On May 9, 2008, the manual motor starter overload current setting on Liquid Ring Pump #1 (LRP #1) was adjusted from 45 to 50 amps. The circuit breaker tripped at 50 amps.

- On May 11, 2008, the manual motor starter overload current setting on LRP #1 was adjusted from 50 to 55 amps. The circuit breaker also tripped at 55 amps and LRP#1 was shutdown pending further evaluation of the electrical system. A new motor starter was ordered for LRP#1 and LRP#2 remained operational.

- Due to problems with the preheat controller, the system was down from May 2 through May 21, 2008. Several attempts were made between May 8 and 12, 2008 by an AEI engineer with the help of the equipment manufacturer to troubleshoot and correct the problem. The problem could not be resolved.

- Finally, on May 21, 2008, an AEI engineer discovered that the configuration settings in the preheat controller somehow changed and were not correct. The controller was re-configured according to the manufacture's setup instructions and the system was restarted.

- On May 29, 2008 the control circuit fuse was blown and the system shutdown when the manifold was sampled with the vacuum pump. The fuse was replaced and the system was restarted within about an hour.

- The manual motor started for LRP#1 was replaced on June 5, 2008. The motor starter overload current setting was set at 55 amps for LRP#1 and 50 amps for LRP#2. The system was restarted at 7:00am and a 100 amp fuse in the main disconnect switch failed within about 2.5 hours at 9:30am. The fuse was replaced on June 6, 2008 and LRP#1 was shutdown pending further evaluation of the electrical system wiring and capacity.

- During the month of June, there were some problems with water coming from the outlet of LRP#2 and causing the oxidizer to shutdown. Therefore, the operation of LRP#2 was shutdown and LRP#1 was started up. LRP#2 will remain off pending further evaluation.

- On June 23, 2008 a small air leak and fetid odor (but no water) was detected coming from top cleanout on the PV-1000 (1000-pound) liquid-phase carbon absorber. The carbon was drained and a rubber gasket was replaced by Siemens Water Technology on June 26, 2008.

- No other none-routine maintenance was performed during this quarter.

6.4.3 System Modifications

System modifications completed during this quarter included:

- The system was operated to mainly focus on extraction from offsite wells MW-10, MW-11, and MW-12 and at times on MW-2, MW-6, and MW-7.

- No other major system modifications were performed during this quarter.

7.0 RESULTS & CONCLUSIONS

7.1 Soil Sample Analytical Data

The analytical results of the soil sample collected from the installation of MW-8, MW-9, and MW-13 are summarized below:

- TPH-g, BTEX, and MTBE were not detected at or above the laboratory reporting limits in 15-foot bgs capillary fringe and 20-foot bgs saturated soil samples analyzed from MW-8.

- TPH-g, BTEX, and MTBE were not detected at or above the laboratory reporting limits in the 15-foot bgs capillary fringe soil samples analyzed from MW-9 and MW-13.

- TPH-g and BTEX were not detected at or above the laboratory reporting limits in the 20-foot bgs saturated soil sample analyzed from MW-13; however, a very low concentration of MTBE (0.086 mg/kg) was detected. The minor MTBE detection can most likely be attributed to the saturated nature of the soil sample submitted for analysis.

- MTBE was not detected at or above the laboratory reporting limits in the 20-foot bgs saturated soil sample analyzed from MW-9; however, some minor concentrations of TPH-g and BTEX were detected. The minor TPH-g and BTEX detections can also most likely be attributed to the saturated nature of the soil sample submitted for analysis.

- The soil data indicates that there is no significant soil contamination in capillary fringe in the vicinity of MW-8, MW-9, and MW-13.

The laboratory analytical report with chain of custody documentation and quality assurance/quality control documentation is included in Appendix C.

7.2 Apparent LNAPL Thickness, Groundwater Elevations, and Hydraulic Gradient

The results of the apparent LNAPL thickness measurements, groundwater elevations, and hydraulic gradient for this monitoring episode are summarized below:

- LNAPL was not encountered in any of the monitoring wells, although elevated concentrations of dissolved hydrocarbons, such as TPH-g, BTEX, and MTBE, remain onsite and offsite.

- Not including the recently installed wells MW-8, MW-9, and MW-13, groundwater elevations ranged from approximately 14.66 (MW-11) to 16.57 (MW-6) feet above mean sea level (msl). MW-8, MW-9, and MW-13 have not been surveyed pending the installation of two (2) additional monitoring wells (MW-14 and MW-15) in a parking lane along the southeastern side of 7th Street.

- The groundwater elevations have been influenced by the HVDPE groundwater extraction activities.

- The normal historical groundwater flow direction has been predominantly to the south with a hydraulic gradient of approximately 0.010 ft/ft.

The historic and current groundwater elevation data is summarized in Table 1 with the current data shown on Figure 5. A summary of the current and historic average groundwater elevations and flow directions are presented in Table 2.

7.3 Groundwater Sample Analytical Data

The analytical results for the groundwater sample collected for this monitoring episode are summarized below:

- Unexpectedly, the highest concentrations of TPH-g (60,000 µg/L) and benzene (14,000 µg/L) were detected in MW-9. The second highest concentrations were detected in MW-1 and MW-6, which is generally consistent with previous monitoring events.

- The highest concentration of MTBE was detected in MW-13 (6,700µg/L) and the second and third highest concentrations were detected in MW-11 (2,300 µg/L) and MW-12 (1,900 µg/L), respectively.

- Elevated concentrations of TPH-g were detected in source area wells MW-1 and MW-6 and moderate concentrations were detected in MW-7, MW-10, MW-11, and MW-12

- Lower, but significant concentrations of TPH-g were detected in MW-2 and MW-5.

- Very low to almost none-detectable levels of TPH-g, BTEX, and MTBE were detected in MW-3, MW-4, MW-8, and MW-13.

- LNAPL of any apparent measurable thickness has not been detected in MW-1, MW-6, and MW-7 since May of 2007.

- Dissolved hydrocarbons have been significantly reduced (by at least one order of magnitude) onsite and offsite by operating the HVDPE system.

A summary of the current and historic groundwater analytical data is summarized in Table 3 with current data shown on Figure 3. Refer to Appendix A for the monitoring well field sampling forms. The laboratory analytical report with chain of custody and quality assurance/quality control documentation is included in Appendix C.

7.4 Soil Vapor Sample Analytical Data

The analytical results for the soil gas samples collected for the evaluation of vapor intrusion potential for this monitoring episode are summarized below:

- TPH-g was not detected at or above the laboratory reporting limit of 1,800 µg/m^3 in all samples analyzed.

- Benzene was not detected at or above the laboratory reporting limit of 6.5 µg/m^3 in all samples analyzed.

- PCE was not detected at or above the laboratory reporting limit of 14 µg/m^3 in all samples analyzed.

- 2-propanol leak check compound was not detected at or above the laboratory reporting limit of 25 µg/m^3 in all samples analyzed.

- Soil gas sample analytical data collected one year prior to and since the installation and startup of the HVDPE system did not indicate a potential vapor intrusion concern onsite or offsite.

The historic and current soil vapor sample analytical data is summarized in Table 4 with current data shown on Figure 6. Refer to Appendix B for the soil gas field sampling forms. The laboratory analytical report with chain of custody and quality assurance/quality control documentation is included in Appendix C.

7.5 HVDPE System Process Monitoring

7.5.1 Influent & Effluent Vapor Sample Analytical Data

The analytical results of the monthly influent and effluent vapor samples are summarized below:

- The highest concentrations of TPH-g were detected in MW-2S (1,900 ppmv), MW-5S (2,000 ppmv), MW-7S (4,800 ppmv), MW-10S (2,500 ppmv), and MW-11S (1,800 ppmv). The highest levels of CO2 were also detected in these wells at concentrations ranging from 0.3% in MW-11 to 1.2% in MW-7S.

- Likewise, the highest concentration of benzene were also detected in MW-2S (22 ppmv), MW-5S (18 ppmv), MW-7S (66 ppmv), MW-10S (13 ppmv), and MW-11S (24 ppmv).

- Moderate to low concentrations of TPH-g were detected in MW-1S (520 ppmv), MW-6S (760 ppmv), and MW-12S (490 ppmv). Elevated levels of CO2 were also detected in these wells.

- The pre-dilution (PRED) influent concentrations of TPH-g ranged from 860 to 2,100 ppmv.

- The air stripping system effluent concentrations of TPH-g ranged from non-detect (ND) to 44 ppmv.

- The post-dilution (POSTD) influent concentrations of TPH-g ranged from 500 to 700 ppmv.

- TPH-g, BTEX, and MTBE were not detected in the STACK sample at or above the laboratory reporting limit of 7 ppmv.

A summary of the historic and current vapor influent and effluent sample analytical data is presented in Table 5. A summary of the historic and current TVH, CH4, O2, and CO2 field screening data is presented in Table 6. The laboratory analytical report with chain of custody and quality assurance/quality control documentation is included in Appendix C.

7.5.2 Influent & Effluent Water Sample Analytical Data

The results of the monthly influent and effluent water samples are summarized below:

- The concentrations of TPH-g and benzene detected in the combined water influent (i.e., Sample ID "INF") ranged from 2,400 to 13,000 µg/L and 37 to 150 µg/L, respectively.
- The concentrations of TPH-g and benzene detected in the water effluent from the air stripper (i.e., Sample ID "POST-AS") ranged from non-detect (ND) at or above laboratory reporting limits to 140 µg/L and ND to 5.6 µg/L, respectively.
- The average air stripper removal efficiency during this quarter was approximately 98.0%.
- TPH-g and BTEX were not detected in the effluent (i.e., Sample ID "EFF") at or above the laboratory reporting limits.
- MTBE, which has a high solubility and is difficult to adsorb, was detected in the effluent at a concentration of 37 µg/L. MTBE is not regulated by EBMUD wastewater discharge permit.

A summary of the historic and current water influent/effluent sample analytical data is presented in Table 7. The laboratory analytical report with chain of custody and quality assurance/quality control documentation is included in Appendix C.

7.5.3 Influent Well Vapor and Water Flow Rates

The total well influent vapor velocity ranged from approximately 900 to 1,900 feet per minute (fpm) and the total well influent flow rate ranged from 44 to 93 standard cubic feet per minute (scfm). Average groundwater extraction rates ranged from 2,637 to 4,075 gallons per day or 1.83 to 3.52 gallons per minute (gpm). Approximately 278,880 gallons of groundwater was recovered, treated, and discharged to the sanitary sewer between March 28 and June 26, 2008. A total of 1,039,610 gallons have been recovered and treated since startup in June of 2007.

A summary of the historic and current well vapor and water flow rates is presented in Tables 10 and 13. The laboratory analytical report with chain of custody and quality assurance/quality control documentation is included in Appendix C.

7.5.4 Mass Removal Rates

Short-term and long-term vapor phase and dissolved phase mass removal rates in pounds per day (lbs/day) and gallons per day (gpd) were estimated using TPH-g concentrations based on lab data and the actual system runtime between sampling dates.

The vapor phase mass removal rates ranged from approximately 20 to 62 pounds per day (lbs/day) with an overall average of approximately 50 lbs/day during this reporting period. Approximately 3,896 pounds or 649 gallons of gasoline in the vapor phase was recovered and treated between March 18 and June 26, 2008. Approximately 20,416 pounds or 3,403 gallons of vapor phase gasoline have been removed since startup in June of 2007.

Although insignificant when compared with the vapor phase mass removal data, the dissolved phase mass removal rates ranged from approximately 0.05 to 0.5 lbs/day with an overall average of approximately 0.3 lbs/day. Approximately 25 pounds or 4 gallons of gasoline in the dissolved phase was recovered and treated between March 18 and June 26, 2008. Approximately 120 pounds or 20 gallons of dissolved phase gasoline has been removed since startup.

A summary of the historic and current vapor phase mass removal rates with assumptions, unit conversions, and sample calculations are presented in Tables 10 and 11 and shown on Figure 9. The dissolve phase mass removal rates are presented in Table 13. A cumulative vapor phase mass removal graph is shown on Figure 10.

7.5.5 Soil Gas Composition and Vacuum Influence

The results of the TVH, CH4, O2, and CO2 field screening data and vacuum influence measurements collected on May 8, 2008 are summarized below:

- Screening the soil gas probes for TVH, CH4, O2, and CO2 with the RKI Eagle gas detector and collecting vacuum influence measurements was moved from monthly to quarterly. Soil gas probes GP-1 to GP-4 were screened on April 30, 2008, approximately one week prior to sampling for vapor intrusion evaluation.

- Sampling GP-4-10' was not possible because a very high purging vacuum (>150 in-H2O) and water was quickly detected within sample tubing.

- Concentrations of total volatile hydrocarbons (TVH) were not detected in any of the soil gas probes at or above the detection limit of 5 ppmv.

- The concentration of O2 in all probes sampled at 5 and 10-feet bgs was 20.9%.

- The concentrations of CO2 in all probes sampled ranged from approximately 0.0% to 0.2%.

- Significant vacuum influence (i.e., greater than 0.1 inches of water – Hinchee, R.E., et al., 1996 and others) was measured in GP-1 through GP-4 at 10-feet bgs only. Significant vacuum influence was not measured at 5-feet bgs.

A summary of the historic and current TVH, CH4, O2, and CO2 soil gas field screening data and vacuum influence measurements are presented in Table 8.

8.0 SUMMARY & PLANNED ACTIVITIES

This report presents the findings of the Second Quarter, 2008 groundwater and soil gas monitoring and includes a discussion of the field activities and results of the HVDPE system operations and maintenance and process monitoring. This report also presents the results of the installation and first round of sampling wells MW-8, MW-9, and MW-13, including confirmation sampling based on the initial results.

The main results of this monitoring episode are summarized below:

- Elevated concentrations of TPH-g, BTEX, and MTBE were detected in MW-9. Very low to nearly non-detectable concentrations of TPH-g and BTEX were detected in MW-8 and MW-13. MTBE was not detected in MW-8; however, high concentrations of MTBE were detected in MW-13.

- Additional monitoring wells will be needed on the southwest side of 7th Street to complete the lateral plume delineation.

- The results of this groundwater and soil gas monitoring event are generally consistent with previous episodes with a notable decrease in groundwater table elevation, which is most probably a result of the groundwater extraction activities onsite and offsite.

- LNAPL has not been detected since the HVDPE system was installed and started up in June of 2007, although elevated dissolved phase concentrations remain onsite and offsite.

- Decreases in the concentrations of dissolved phase hydrocarbons in several wells onsite and offsite (most notably MW-2, 5, 7, and 12) are the result of ongoing HVDPE remediation.

- The influent vapor concentrations of hydrocarbons are within the range for catalytic oxidation, but may be still be too high for activated carbon to be a more cost-effective treatment option.

- Nearly ambient concentrations of oxygen indicate the HVDPE is fully oxygenating the soils in the vadose zone, which can support and enhance aerobic biodegradation of hydrocarbons in the subsurface.

- TPH-g, BTEX, MTBE, and PCE were not detected at or above the laboratory reporting limits or the residential Environmental Screening Levels (ESLs) during this quarter or since the HVDPE was installed and started up.

- Quarterly soil gas sampling for the evaluation of vapor intrusion, particularly while operating the HVDPE system onsite and offsite, will not yield any useful data above and beyond what has been collected to date. To reduce the quarterly monitoring costs, it is recommended that soil gas sampling for vapor intrusion evaluation be suspended until the HVDPE system has removed the majority of the hydrocarbon mass from the subsurface and the system is shutdown for rebound testing. This will reduce the quarterly site monitoring cost by 50% with no increased risk to the public health.

The following activities and system modifications are planned for the next quarter:

- The Third Quarter, 2008 groundwater and soil gas monitoring event is tentatively scheduled for August of 2008. Soil gas samples will be collected if soils are sufficiently dry for sample collection. The recently installed monitoring wells MW-8, MW-9, and MW-13 will continue to be sampled quarterly and analyzed for TPH-g by EPA Method 8015C and MBTEX by EPA Method 8021B.

- Continue operation of the HVPDE system, including weekly system checks and monthly O&M and process monitoring, evaluate the system performance, and conduct air and water discharge compliance sampling and reporting as required by permit.

- Continue to screen the soil gas probes for TVH, CH4, O2, and CO2 with the RKI Eagle gas detector on a quarterly rather than monthly basis. The soil gas probes will be screened according to the methods described in Downey, et al., 2004 after collecting samples into Summa canisters for vapor intrusion evaluation.

- Continue operation of the thermal oxidizer in catalytic mode to reduce auxiliary fuel consumption. As the influent vapor concentrations decline over the next quarter of system operation, evaluate (as applicable) if and when the system should be shutdown for rebound testing or operated on an intermittent schedule.

- As proposed by AEI and agreed upon by all involved parties, including the property owner of 708 Alice Street, ACHCSA, and the ACPWA, permanent dual phase extraction conveyance piping laterals will be installed from MW-10, MW-11, and MW-12 to the far northeast rear corner of 708 Alice Street. The piping laterals are essentially horizontal extensions of the existing vertical extraction wells. The 1-inch diameter drop tubes or stingers will be extended as needed and installed inside the piping and sealed at the surface using the same wellhead connections currently being used. The piping laterals will be constructed of 4-inch diameter schedule 80 PVC piping buried approximately 36 to 48-inches below the existing grade. Sweeping 90-degree elbows will be used to transition from the vertical well casing to the piping lateral. The laterals will remain beneath a building which is soon to be

constructed onsite and the stringers will be used to grout the wells when the remediation project has been completed. The draft version of the construction detail with technical notes is shown on Figure 11.

- Start permitting with the City of Oakland and ACPWA for the installation of two (2) additional monitoring wells (MW-15 and MW-16) in the parking lane on the northwest side of 7th Street and one (1) well (MW-14) in a parking lane along Alice Street as shown on Figure 12. MW-14 will be installed approximately 50 to 60-feet southwest of MW-10. MW-15 and MW-16 will be installed approximately 50 feet southwest of MW-9 and MW-13, respectively. The wells will be constructed identical to MW-9 and MW-13, screened from 12 to 22 feet bgs. The borings will be advanced with CME-75 or equivalent rotary auger drill running 8-inch diameter hollow stem augers. Soil samples will be collected from each boring at 10, 15, 20, and 22-foot bgs for description according to the Unified Soil Classification System (USCS) using the "visual-manual procedure" (ASTM D2488) by noting color, moisture content, texture, and grain-size and distribution. The wells will be constructed with standard SCH40 PVC well screen (0.010 slotted) and ASTM F480 flush-threaded riser. An 8-inch diameter flush-mounted traffic-rated well box will be installed at the surface. The well will be labeled and tagged by the ACPWA inspectors as required. If permits can be obtained and the wells installed, developed, and sampled within a reasonable period of time, the results will be incorporated into the Third Quarter, 2007 Site Monitoring Report.

9.0 REFERENCES

Department of Toxic Substances Control (DTSC) & Los Angeles Regional Water Quality Control Board, 2003. "Advisory – Active Soil Gas Investigations", issued January 28, 2003.

Downey, D., Miller, R.N., and Dragoo, T., 2004. "Procedures for Conducting Bioventing Pilot Tests and Long-Term Monitoring of Bioventing Systems", prepared for the United States Air Force Center for Environmental Excellence by Parsons, Inc, Denver, Colorado.

DTSC, 2004. "Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air", Interim-Final, California Environmental Protection Agency, Sacramento, California, issued December 15, 2004, revised February 7, 2005.

Graymer, R.W., 2000. "Geologic Map and Map Database of the Oakland Metropolitan Area, Alameda, Contra Costa, and San Francisco Counties, California", U.S. Geologic Survey, Miscellaneous Field Studies MF2342, Online Version 1.0, includes 1 geologic map and 33 page pamphlet.

Helley, E.J. and Graymer, R.W., 1997. "Quaternary Geology of Alameda County, and parts of Contra Costa, Santa Clara, San Mateo, San Francisco, Stanislaus, and San Joaquin counties, California: A Digital Database", U.S. Geological Survey, Open-File Report 97-97, includes 1 geologic map, 1 map explanation sheet, and 9 page discussion booklet.

Hinchee, R.E., et al., 1992. "Test Plan and Technical Protocol for a Field Treatability Test for Bioventing", prepared for United States Air Force Center for Environmental Excellence by the Battelle, Columbus, Ohio.

Miller, R.N., et al., 1995. "Test Plan and Technical Protocol for a Field Treatability Test for POL Free Product Recovery – Evaluating the Feasibility of Traditional and Bioslurping Technologies", prepared for the United States Air Force Center for Environmental Excellence by the Battelle, Columbus, Ohio.

Norfleet Consultants, 1998. "Groundwater Study and Water Supply History of the East Bay Plain, Alameda and Contra Costa Counties, California", prepared for the Friends of the San Francisco Estuary, P.O. Box 791, Oakland, California, and dated June 15, 1998.

Place, M.C., Coonfare, C.T., Chen, A., Hoeppel, R.E., and Rosansky, S.H., 2001. "Principles and Practices of Bioslurping", Battelle Press, Columbus, Ohio

United States Army Core of Engineers, 1999. "Multi-Phase Extraction Engineer Manual", EM 1110-1-4010, Washington, DC.

10.0 REPORT LIMITATIONS AND SIGNATURES

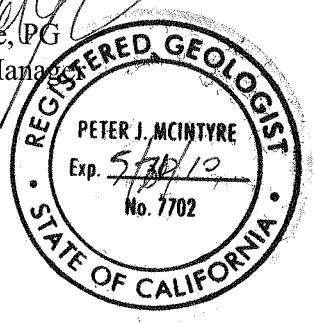
This report presents a summary of work completed by AEI Consultants, including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide requested information, 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.

Should you have any questions or comments, or need any additional information, please contact Mr. Bradford (925) 944-2899, ext. 148 or Mr. McIntyre at (925) 944-2899, ext. 104.

Sincerely,
AEI Consultants

Richard J. Bradford
Project Engineer

Peter J. McIntyre, PG
Senior Project Manager



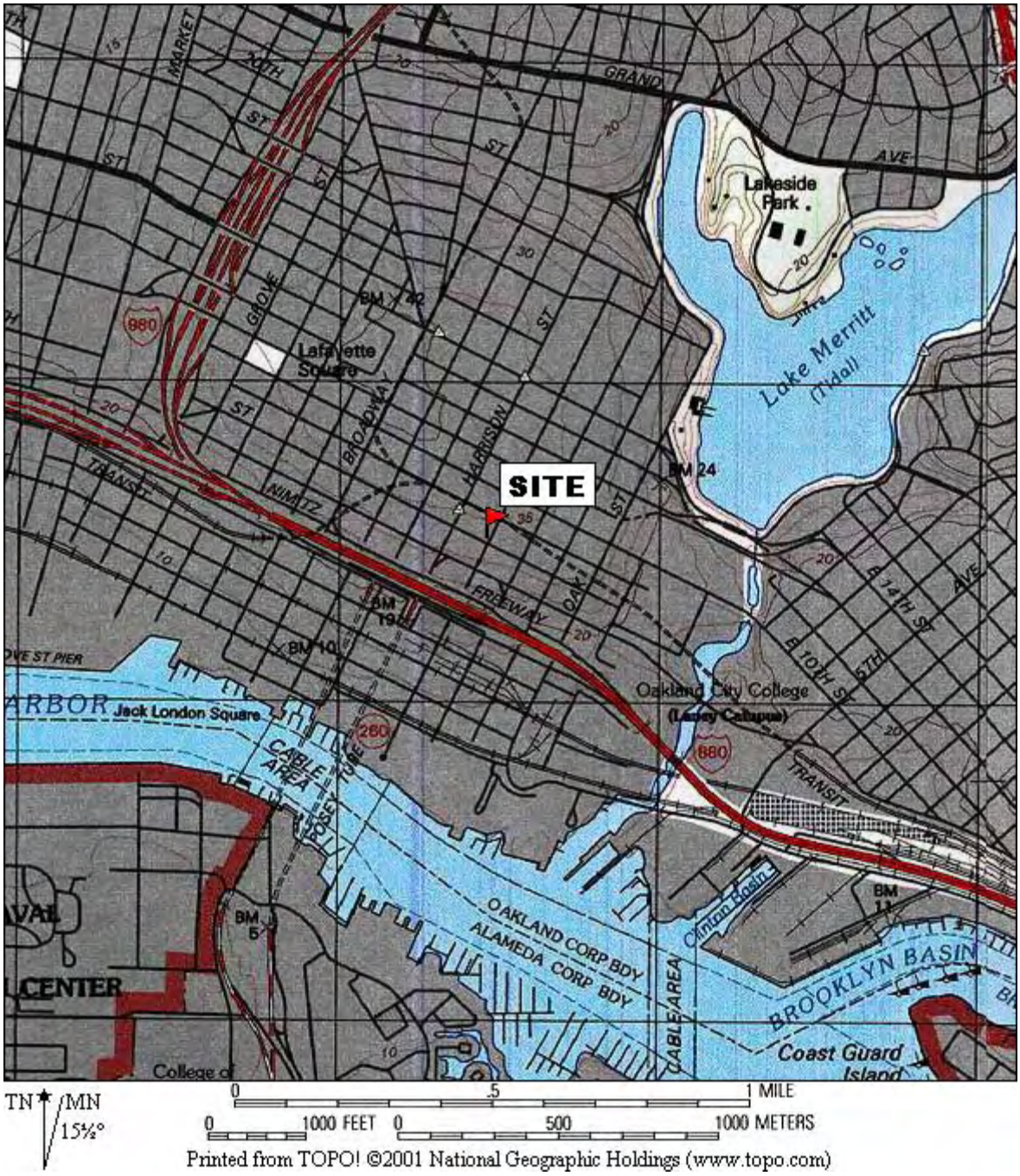
Distribution List:

Mr. Victor Lum (2 copies)
Vic's Automotive
245 8th Street
Oakland, California 94607

Attn. Mr. Jerry Wickham (electronic)
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

SWRCB's GeoTracker Information System (electronic)

FIGURES



Printed from TOPO! ©2001 National Geographic Holdings (www.topo.com)

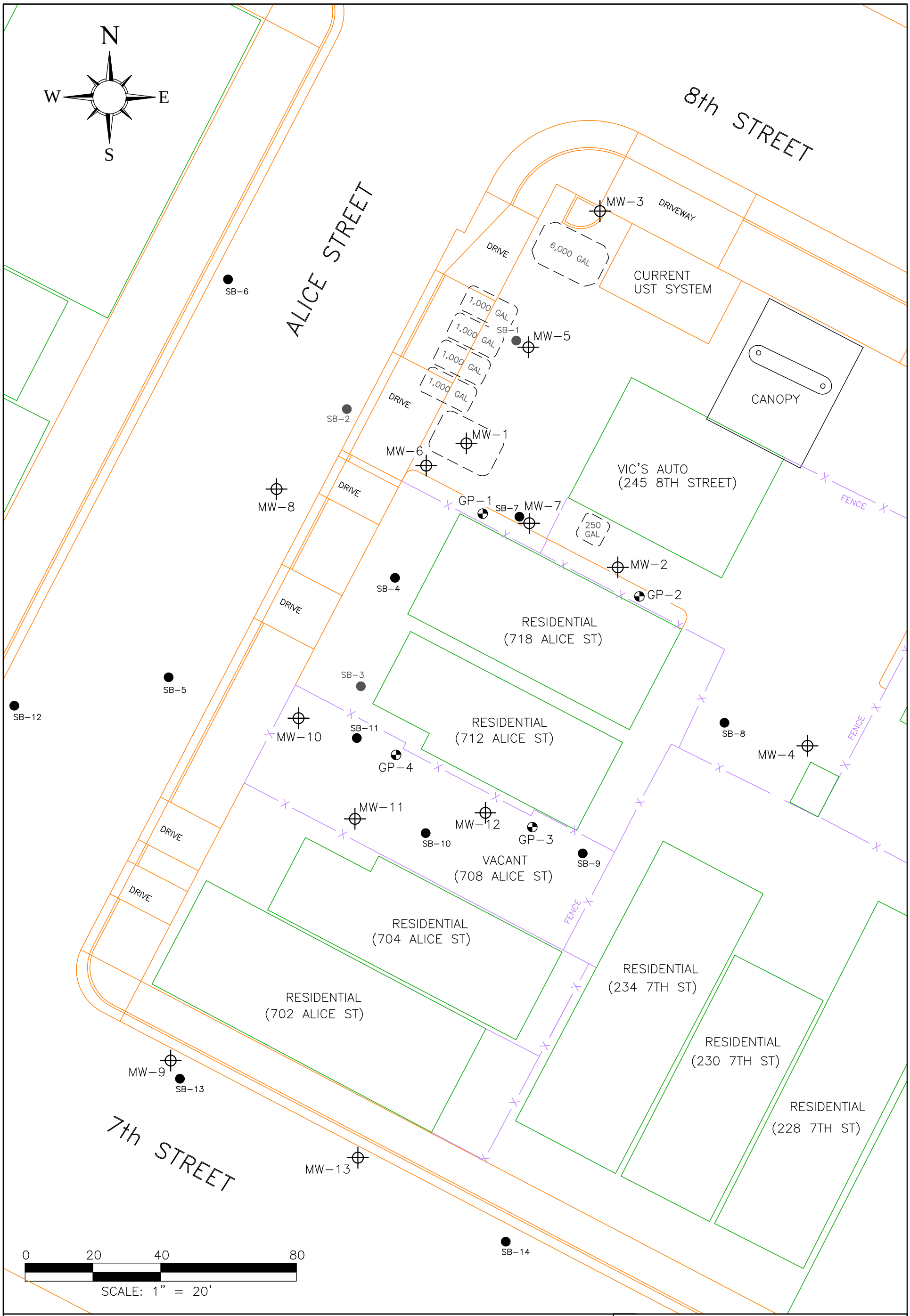
AEI CONSULTANTS

2500 CAMINO DIABLO BLVD, SUITE 200, WALNUT CREEK, CA

SITE LOCATION MAP

245 8th STREET
OAKLAND, CALIFORNIA

FIGURE 1
PROJECT NO. 116907



LEGEND

- MONITORING WELL
- SOIL BORING (8/9/96)
- SOIL BORING (04/02 & 03/03)
- SOIL GAS PROBE
- FORMER UST LOCATION

DRAFTED BY RJB 10-01-07
REVISED BY RJB 06-10-08

AEI CONSULTANTS
2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK

SITE PLAN

245 8TH STREET
OAKLAND, CALIFORNIA

FIGURE 2
PROJECT NO. 116907

N
W
E
S

8th STREET

ALICE STREET

MW-3
DRIVEWAY
6,000 GAL
CURRENT
UST SYSTEM
,000 GAL
1,000 GAL
1,000 GAL
1,000 GAL
MW-5
DRIVE
CANOPY
MW-1
MW-6
VIC'S AUTO
(245 8TH STREET)
MW-8
DRIVE
MW-7
250
GAL
MW-2
FENCE
DRIVE
RESIDENTIAL
(718 ALICE ST)
MW-10
RESIDENTIAL
(712 ALICE ST)
MW-4
FENCE
MW-11
MW-12
DRIVE
VACANT
(708 ALICE ST)
DRIVE
RESIDENTIAL
(704 ALICE ST)
RESIDENTIAL
(234 7TH ST)
RESIDENTIAL
(702 ALICE ST)
RESIDENTIAL
(230 7TH ST)
MW-9
RESIDENTIAL
(228 7TH ST)
7th STREET
MW-13

0 20 40 80
SCALE: 1" = 20'

LEGEND

- MONITORING WELL
- SOIL BORING (8/9/96)
- SOIL BORING (04/02 & 03/03)
- SOIL GAS PROBE
- MONITORING STRUCTURE
- HVDPE CONVEYANCE PIPING (~18 - 24" BGS)
- WATER DISCHARGE (~24" BGS)
- SANITARY SEWER (~36 - 48" BGS)
- TEMPORARY POWER SERVICE (~24" BGS)
- PROPANE LINE (~18 - 24" BGS)

DRAFTED BY RJB 10-01-07
REVISED BY RJB 06-10-08

AEI CONSULTANTS
2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK

SYSTME LAYOUT PLAN

245 8TH STREET
OAKLAND, CALIFORNIA

FIGURE 3
PROJECT NO. 116907

N
W
E
S

8th STREET

ALICE STREET

MW−3 (15.61)
DRIVEWAY
DRIVE
6,000 GAL
CURRENT UST SYSTEM
1,000 GAL
1,000 GAL
1,000 GAL
1,000 GAL
MW−5 (16.25)
CANOPY
DRIVE
MW−1 (15.91)
MW−6 (16.57)
VIC'S AUTO (245 8TH STREET)
MW−8 (NS)
DRIVE
GP−1
MW−7 (16.06)
250 GAL
FENCE
MW−2 (15.57)
GP−2
DRIVE
RESIDENTIAL (718 ALICE ST)
RESIDENTIAL (712 ALICE ST)
MW−10 (14.77)
GP−4
MW−4 (15.00)
FENCE
MW−11 (14.66)
MW−12 (14.68)
GP−3
VACANT (708 ALICE ST)
DRIVE
DRIVE
FENCE
RESIDENTIAL (704 ALICE ST)
RESIDENTIAL (702 ALICE ST)
RESIDENTIAL (234 7TH ST)
RESIDENTIAL (230 7TH ST)
RESIDENTIAL (228 7TH ST)
MW−9 (NS)
7th STREET
MW−13 (NS)

0 20 40 80
SCALE: 1" = 20'

LEGEND

- MONITORING WELL
- SOIL BORING (8/9/96)
- SOIL BORING (04/02 & 03/03)
- SOIL GAS PROBE

MW−1 (15.00) = feet above mean sea level

Contour Interval = n/a
Contours plotted with Surfer V.7.0
NS = well has not been surveyed

System was shutdown 2 days prior to monitoring

FORMER UST LOCATION

DRAFTED BY RJB 10-01-07
REVISED BY RJB 06-10-08

AEI CONSULTANTS

2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK

GROUNDWATER ELEVATION DATA (05/15/08)

245 8TH STREET
OAKLAND, CALIFORNIA

FIGURE 4
PROJECT NO. 116907

N
W E
S

8th STREET

ALICE STREET

MW-3

TPH-g	<50
MTBE	<5.0
Bezene	0.99
Toluene	<0.5
Ethylbenzene	<0.5
Xylene	0.68

MW-3

DRIVEWAY

DRIVE

6,000 GAL

MW-5

TPH-g	3,000
MTBE	<10
Bezene	59
Toluene	330
Ethylbenzene	47
Xylene	670

MW-5

MW-1

TPH-g	25,000
MTBE	<600
Bezene	580
Toluene	9,200
Ethylbenzene	970
Xylene	4,200

MW-1

MW-6

MW-8

TPH-g	90
MTBE	<5.0
Bezene	0.62
Toluene	2.4
Ethylbenzene	<0.5
Xylene	1.0

MW-8

CANOPY

MW-7

TPH-g	10,000
MTBE	230
Bezene	1,700
Toluene	1,900
Ethylbenzene	200
Xylene	950

MW-7

FENCE

GP-1

MW-6

TPH-g	25,000
MTBE	<150
Bezene	410
Toluene	2,500
Ethylbenzene	1,000
Xylene	3,700

MW-2

GP-2

MW-10

TPH-g	4,800
MTBE	<50
Bezene	130
Toluene	320
Ethylbenzene	110
Xylene	710

MW-10

MW-2

TPH-g	490
MTBE	68
Bezene	110
Toluene	11
Ethylbenzene	0.90
Xylene	42

RESIDENTIAL (712 ALICE ST)

MW-4

TPH-g	<50
MTBE	<5.0
Bezene	0.65
Toluene	<0.5
Ethylbenzene	<0.5
Xylene	0.52

MW-4

GP-4

MW-11

TPH-g	15,000
MTBE	2,300
Bezene	2,800
Toluene	1,400
Ethylbenzene	120
Xylene	1,900

MW-11

MW-12

MW-12

TPH-g	7,800
MTBE	1,900
Bezene	2,000
Toluene	500
Ethylbenzene	130
Xylene	640

VACANT (708 ALICE ST)

RESIDENTIAL (704 ALICE ST)

MW-9

TPH-g	60,000
MTBE	960
Bezene	14,000
Toluene	410
Ethylbenzene	1,500
Xylene	3,500

MW-9

RESIDENTIAL (234 7TH ST)

RESIDENTIAL (230 7TH ST)

RESIDENTIAL (228 7TH ST)

7th STREET

MW-13

TPH-g	<250
MTBE	6,700
Bezene	18
Toluene	<2.5
Ethylbenzene	<2.5
Xylene	<2.5

MW-13

0 20 40 80

SCALE: 1" = 20'

LEGEND

- MONITORING WELL
- SOIL BORING (8/9/96)
- SOIL BORING (04/02 & 03/03)
- SOIL GAS PROBE

All groundwater sample analytical data in micrograms per liter (ug/L) or ppb

TPH-g = Total Petroleum Hydrocarbons as gasoline
MTBE = Methyl tertiary-butyl ether
NS/FP= not sampled / free product present

*Note: HVDPE system was shutdown approximately 3 days prior to sampling

FORMER UST LOCATION

DRAFTED BY RJB 10-01-07
REVISED BY RJB 06-10-08

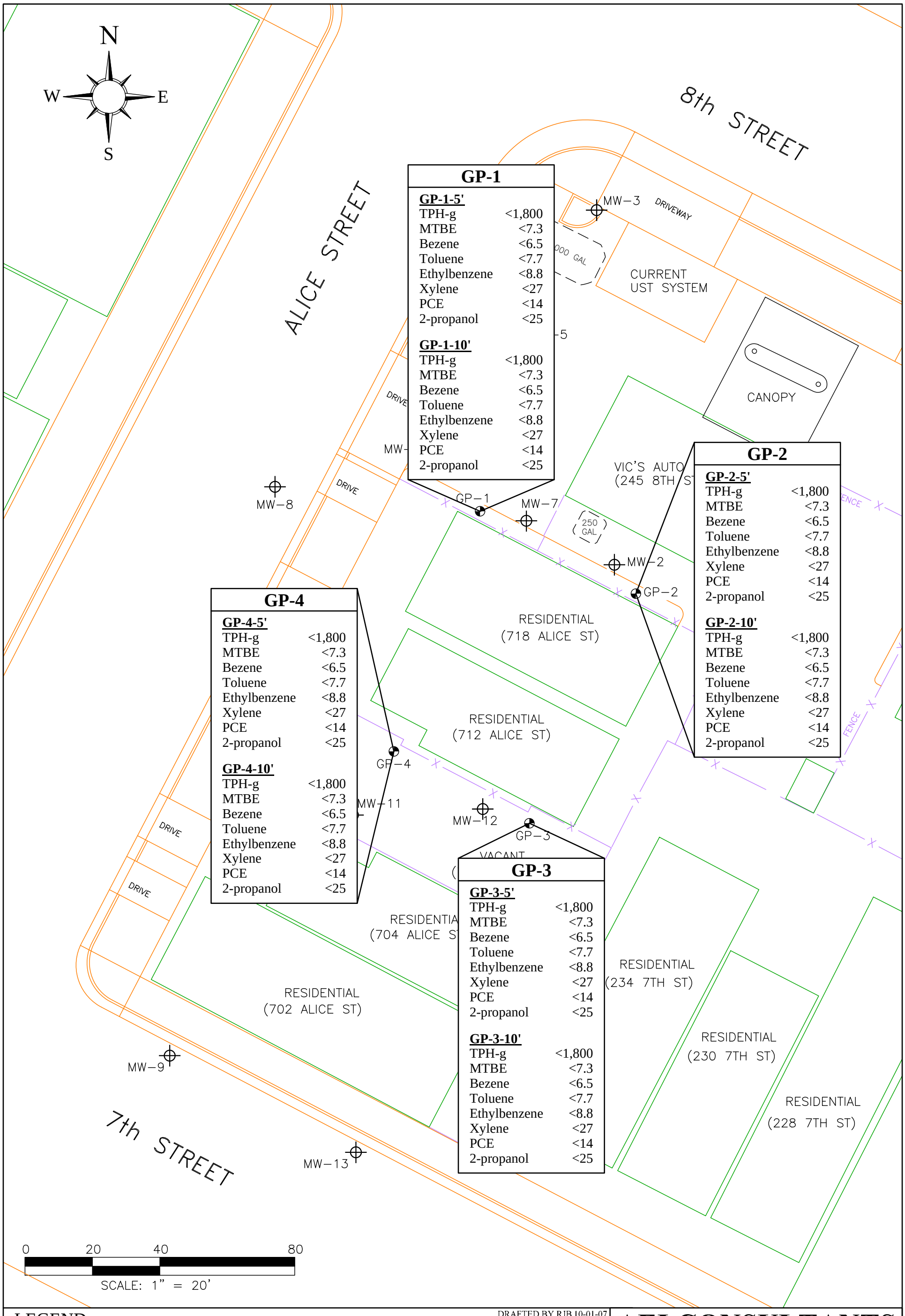
AEI CONSULTANTS

2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK

GROUNDWATER SAMPLE ANALYTICAL DATA (05/15/08)

245 8TH STREET
OAKLAND, CALIFORNIA

FIGURE 5
PROJECT NO. 116907



GP-1

GP-1-5'	
TPH-g	<1,800
MTBE	<7.3
Bezene	<6.5
Toluene	<7.7
Ethylbenzene	<8.8
Xylene	<27
PCE	<14
2-propanol	<25
GP-1-10'	
TPH-g	<1,800
MTBE	<7.3
Bezene	<6.5
Toluene	<7.7
Ethylbenzene	<8.8
Xylene	<27
PCE	<14
2-propanol	<25

GP-2

GP-2-5'	
TPH-g	<1,800
MTBE	<7.3
Bezene	<6.5
Toluene	<7.7
Ethylbenzene	<8.8
Xylene	<27
PCE	<14
2-propanol	<25
GP-2-10'	
TPH-g	<1,800
MTBE	<7.3
Bezene	<6.5
Toluene	<7.7
Ethylbenzene	<8.8
Xylene	<27
PCE	<14
2-propanol	<25

GP-4

GP-4-5'	
TPH-g	<1,800
MTBE	<7.3
Bezene	<6.5
Toluene	<7.7
Ethylbenzene	<8.8
Xylene	<27
PCE	<14
2-propanol	<25
GP-4-10'	
TPH-g	<1,800
MTBE	<7.3
Bezene	<6.5
Toluene	<7.7
Ethylbenzene	<8.8
Xylene	<27
PCE	<14
2-propanol	<25

GP-3

GP-3-5'	
TPH-g	<1,800
MTBE	<7.3
Bezene	<6.5
Toluene	<7.7
Ethylbenzene	<8.8
Xylene	<27
PCE	<14
2-propanol	<25
GP-3-10'	
TPH-g	<1,800
MTBE	<7.3
Bezene	<6.5
Toluene	<7.7
Ethylbenzene	<8.8
Xylene	<27
PCE	<14
2-propanol	<25

LEGEND

- MONITORING WELL
- SOIL BORING (8/9/96)
- SOIL BORING (04/02 & 03/03)
- SOIL GAS PROBE

Soil gas analytical data in micrograms per cubic meter (ug/m^3)

TPH-g = Total Petroleum Hydrocarbons as gasoline
MTBE = Methyl tertiary-butyl ether
PCE = Tetrachloroethene
- Not sampled and/or analyzed
* Sampling not possible due to seasonal wet soil conditions

FORMER UST LOCATION

*Note: HVDPE system was shutdown approximately 1 day prior to sampling

DRAFTED BY RJB 10-01-07
REVISED BY RJB 06-10-08

AEI CONSULTANTS

2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK

SOIL GAS SAMPLE ANALYTICAL DATA (05/08/08)

245 8TH STREET
OAKLAND, CALIFORNIA

FIGURE 6
PROJECT NO. 116907

FIGURE 7: EXTRACTION WELL INFLUENT CONCENTRATIONS OVER TIME

Vic's Auto, 245 8th Street, Oakland, California

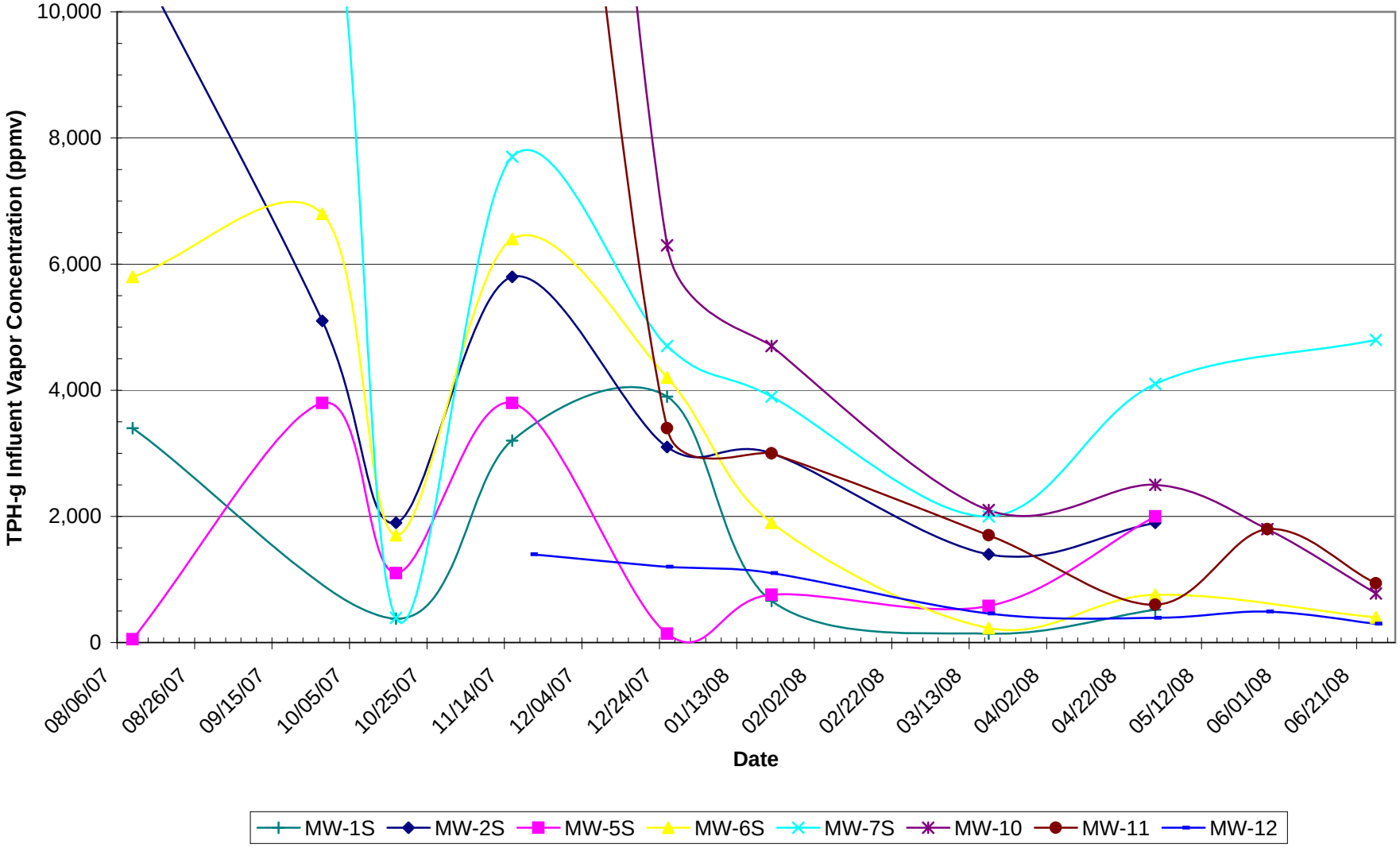


FIGURE 8: COMBINED SYSTEM INFLUENT CONCENTRATIONS OVER TIME

Vic's Auto, 245 8th Street, Oakland, California

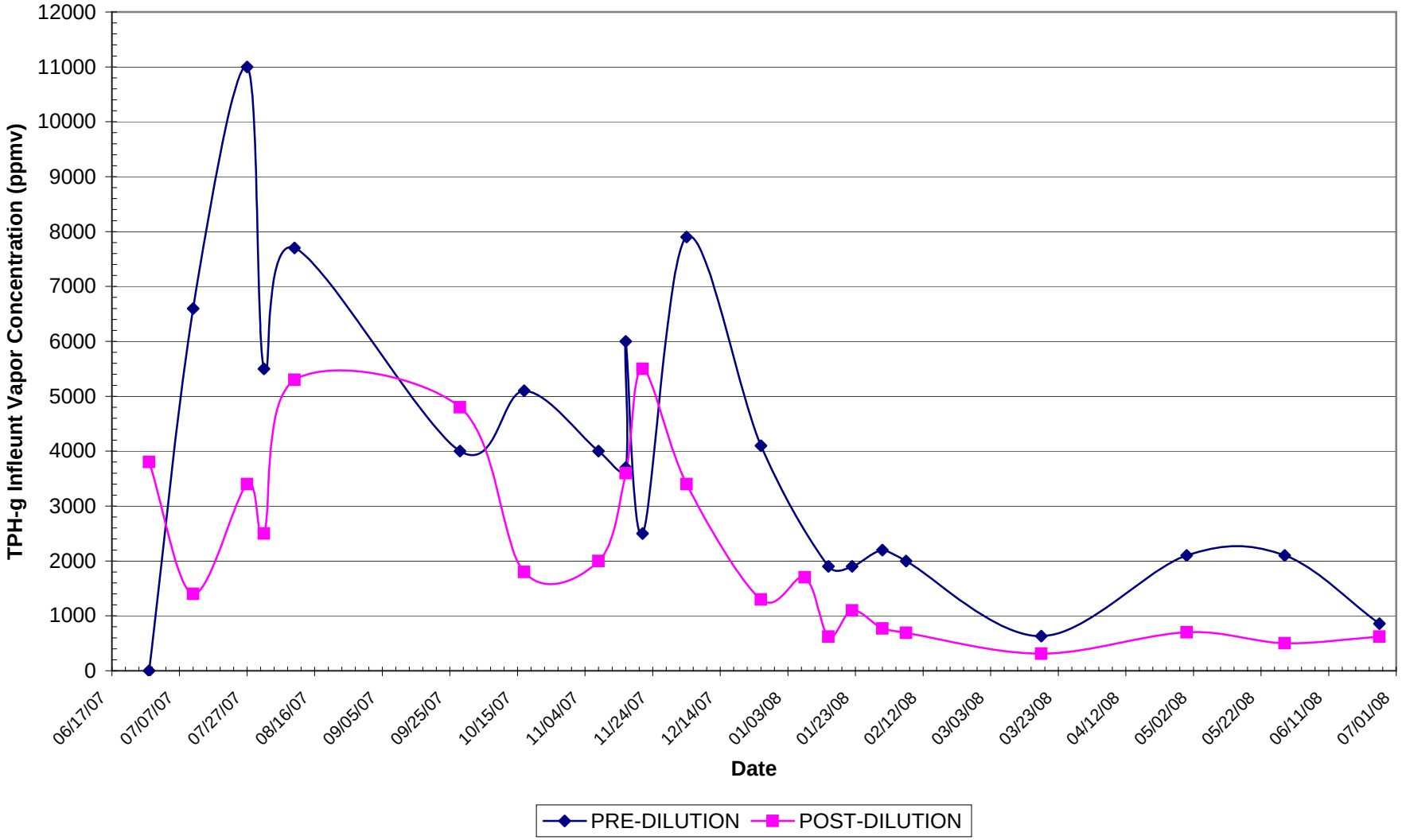


FIGURE 9: HYDROCARBON MASS REMOVAL RATES BASED ON LAB DATA

Vic's Auto, 245 8th Street, Oakland, California

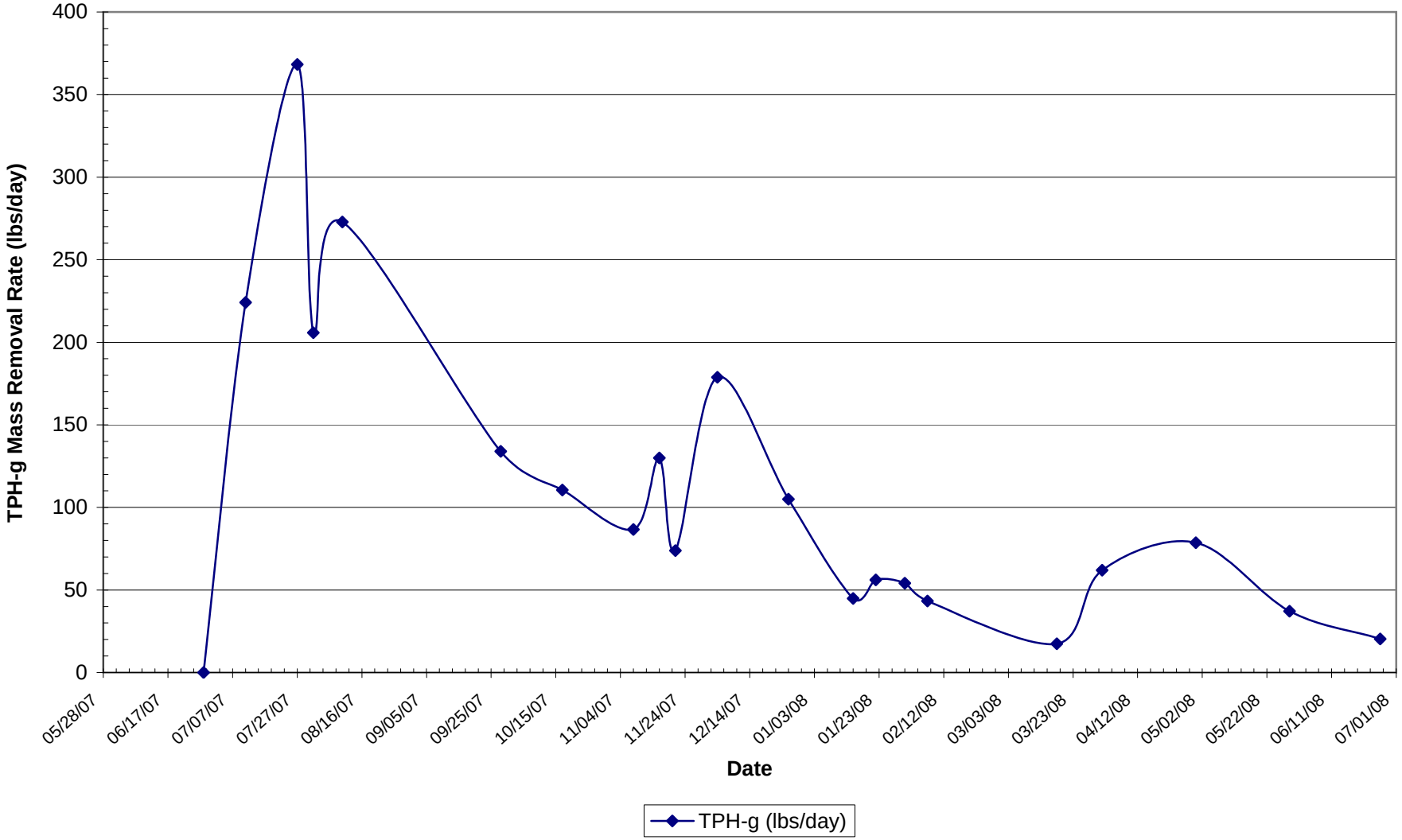
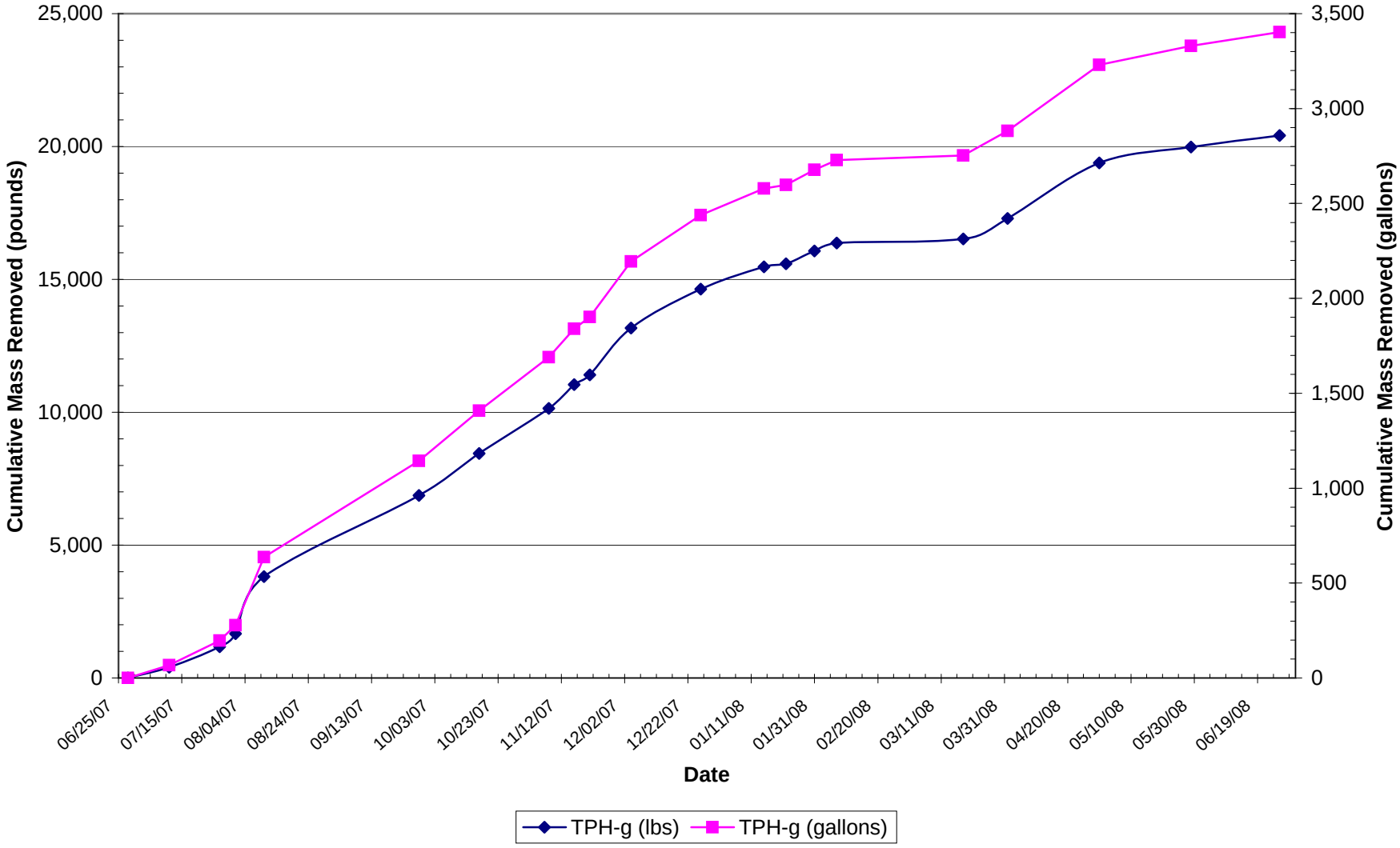
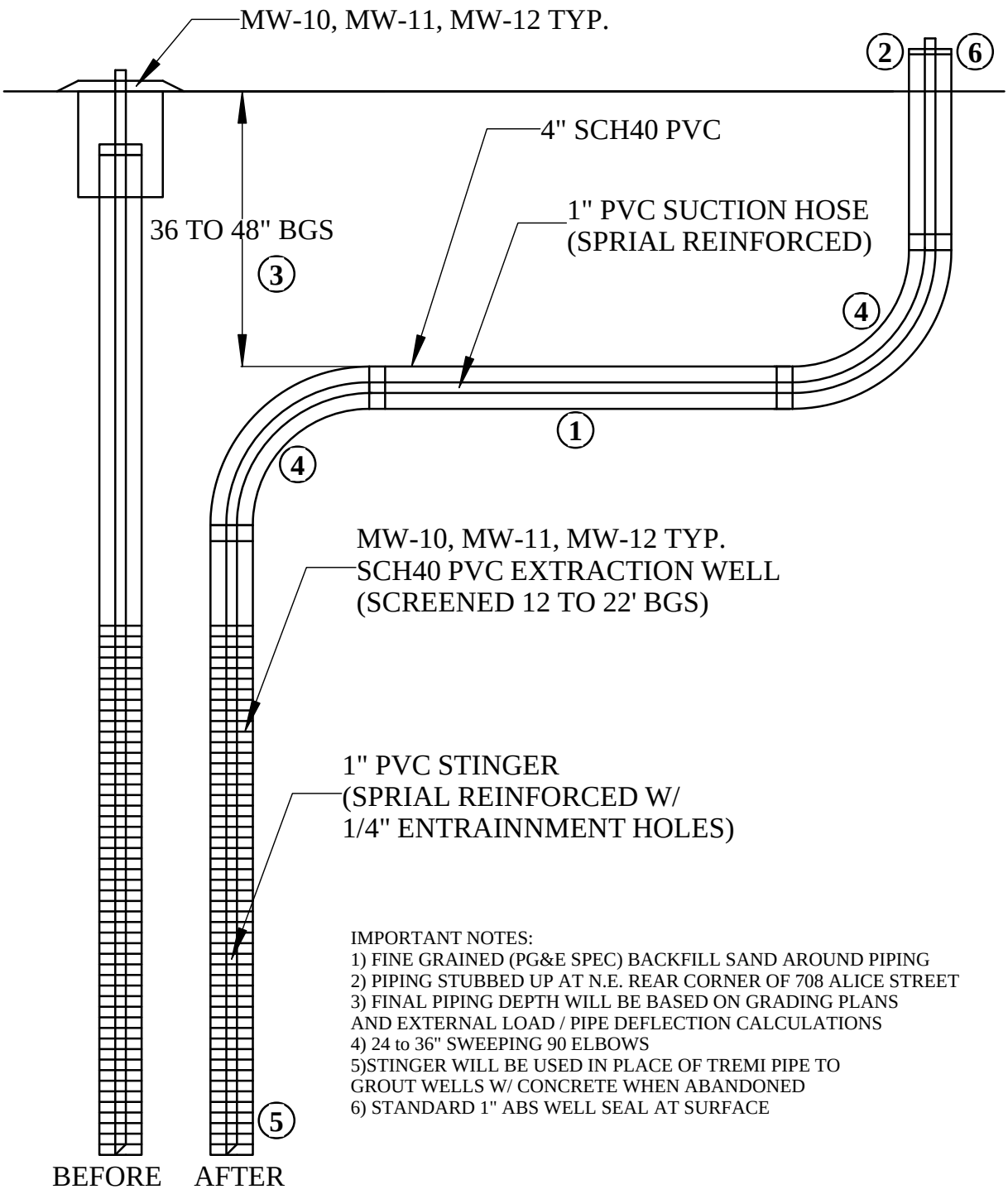


FIGURE 10: CUMULATIVE HYDROCARBON MASS REMOVED BASED ON LAB DATA

Vic's Auto, 245 8th Street, Oakland, California





IMPORTANT NOTES:
1) FINE GRAINED (PG&E SPEC) BACKFILL SAND AROUND PIPING
2) PIPING STUBBED UP AT N.E. REAR CORNER OF 708 ALICE STREET
3) FINAL PIPING DEPTH WILL BE BASED ON GRADING PLANS AND EXTERNAL LOAD / PIPE DEFLECTION CALCULATIONS
4) 24 to 36" SWEEPING 90 ELBOWS
5)STINGER WILL BE USED IN PLACE OF TREMI PIPE TO GROUT WELLS W/ CONCRETE WHEN ABANDONED
6) STANDARD 1" ABS WELL SEAL AT SURFACE

NOT TO SCALE

LEGEND

DRAFTED BY RJB 06-10-08
REVISED BY RJB 06-10-08

DRAFT

AEI CONSULTANTS
2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK

DUAL PHASE EXTRACTION
CONVEYANCE PIPING LATERAL

245 8TH STREET
OAKLAND, CALIFORNIA

FIGURE 11
PROJECT NO. 116907

N
W
E
S
COMMERCIAL
RESIDENTIAL
RCIAL
SIDEWALK
ALICE STREET
8th STREET
SB-6
SB-2
SB-1
SB-7
SB-4
SB-3
SB-5
SB-12
SB-11
SB-10
SB-9
SB-8
SB-13
SB-14
SB-15
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-11
MW-12
MW-13
MW-14
MW-15
MW-16
GP-1
GP-2
GP-3
GP-4
DRIVE
DRIVEWAY
6,000 GAL
1,000 GAL
1,000 GAL
1,000 GAL
1,000 GAL
250 GAL
CURRENT
UST SYSTEM
CANOPY
VIC'S AUTO
(245 8TH STREET)
FENCE
RESIDENTIAL
(718 ALICE ST)
RESIDENTIAL
(712 ALICE ST)
VACANT
(708 ALICE ST)
RESIDENTIAL
(704 ALICE ST)
RESIDENTIAL
(702 ALICE ST)
RESIDENTIAL
(234 7TH ST)
RESIDENTIAL
(230 7TH ST)
RESIDENTIAL
(228 7TH ST)
RE
(227
PRINGLE ME
(21
7th STREET
0 20 40 80
SCALE: 1" = 25'

LEGEND

- MONITORING WELL
- SOIL BORING (8/9/96)
- SOIL BORING (04/02 & 03/03)
- SOIL GAS PROBE
- PROPOSED MONITORING WELL

FORMER UST LOCATION

DRAFTED BY RJB 10-01-07
REVISED BY RJB 06-10-08

AEI CONSULTANTS

2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK

PROPOSED MONITORING WELL LOCATIONS

245 8TH STREET
OAKLAND, CALIFORNIA

FIGURE 12
PROJECT NO. 116907

TABLES

TABLE 1: GROUNDWATER ELEVATION DATA

Vic's Auto, 245 8th Street, Oakland, California

Well 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	06/29/01	27.73	16.52	11.21	14.89	1.63
(8-28)	10/10/01	27.73	15.45	12.28	15.37	0.08
	01/09/02	27.73	12.61	15.12	-	<0.01
	04/24/02	27.73	13.35	14.38	-	<0.01
	07/24/02	27.73	14.19	13.54	-	<0.01
	11/05/02	27.73	14.85	12.88	-	<0.01
	02/04/03	27.73	14.91	12.82	-	<0.01
	05/02/03	27.73	14.43	13.30	-	0.08
	08/04/03	27.73	15.24	12.49	15.01	0.23
	11/03/03	27.73	16.94	10.79	15.67	1.27
	02/09/04	27.73	14.61	13.12	14.43	0.18
	05/10/04	27.73	Obstructed	-	-	-
	08/09/04	27.73	15.24	12.49	15.03	0.21
	11/09/04	27.73	15.95	11.78	15.71	0.24
	02/03/05	32.55	13.75	18.80	13.58	0.17
	05/09/05	32.55	13.93	18.62	13.81	0.12
	08/05/05	32.55	15.40	17.15	15.39	0.01
	11/09/05	32.55	15.76	16.79	15.75	0.01
	02/09/06	32.55	13.52	19.03	13.50	0.02
	05/04/06	32.55	12.47	20.08	12.46	0.01
	08/04/06	32.55	15.11	17.44	15.09	0.02
	11/08/06	32.55	16.03	16.52	16.02	0.01
	02/08/07	32.55	16.51	16.04	16.48	0.03
	05/29/07	32.55	15.56	16.99	15.51	0.05
	09/05/07	32.55	16.33	16.22	-	Sheen
	12/12/07	32.55	17.62	14.93	-	Sheen
	02/13/08	32.55	15.94	16.61	-	Sheen
	05/15/08	**32.55**	**16.64**	**15.91**	-	-
MW-2	06/29/01	28.16	16.14	12.02	-	-
(8-28)	10/10/01	28.16	16.43	11.73	-	-
	01/09/02	28.16	13.50	14.66	-	-
	04/24/02	28.16	14.40	13.76	-	-
	07/24/02	28.16	14.91	13.25	-	-
	11/05/02	28.16	16.96	11.20	-	-
	02/04/03	28.16	15.42	12.74	-	-
	05/02/03	28.16	15.24	12.92	-	-
	08/04/03	28.16	15.98	12.18	-	-
	11/03/03	28.16	16.60	11.56	-	Sheen
	02/09/04	28.16	15.22	12.94	-	Sheen
	05/10/04	28.16	15.34	12.82	-	Sheen
	08/09/04	28.16	15.92	12.24	-	Sheen
	11/09/04	28.16	16.51	11.65	-	Sheen
	02/03/05	33.24	14.44	18.80	-	Sheen
	05/09/05	33.24	14.67	18.57	-	Sheen
	08/05/05	33.24	16.27	16.97	-	Sheen
	11/09/05	33.24	16.53	16.71	-	Sheen
	02/09/06	33.24	14.36	18.88	-	Sheen
	05/04/06	33.24	13.46	19.78	-	Sheen
	08/04/06	33.24	15.95	17.29	-	Sheen
	11/08/06	33.24	16.86	16.38	-	Sheen
	02/08/07	33.24	17.13	16.11	-	Sheen
	05/29/07	33.24	16.51	16.73	-	Sheen
	09/05/07	33.24	17.48	15.76	-	-
	12/12/07	33.24	18.72	14.52	-	-
	02/13/08	33.24	16.91	16.33	-	-
	05/15/08	**33.24**	**17.67**	**15.57**	-	-

TABLE 1: GROUNDWATER ELEVATION DATA

Vic's Auto, 245 8th Street, Oakland, California

Well 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	06/29/01	29.21	16.60	12.61	-	-
(10-25)	10/10/01	29.21	16.92	12.29	-	-
	01/09/02	29.21	14.20	15.01	-	-
	04/24/02	29.21	15.07	14.14	-	-
	07/24/02	29.21	16.40	12.81	-	-
	11/05/02	29.21	16.47	12.74	-	-
	02/04/03	29.21	16.92	12.29	-	-
	05/02/03	29.21	15.45	13.76	-	-
	08/04/03	29.21	16.46	12.75	-	-
	11/03/03	29.21	17.15	12.06	-	-
	02/09/04	29.21	15.78	13.43	-	-
	05/10/04	29.21	15.77	13.44	-	-
	08/09/04	29.21	16.45	12.76	-	-
	11/09/04	29.21	17.26	11.95	-	-
	02/03/05	34.25	15.92	18.33	-	-
	05/09/05	34.25	15.03	19.22	-	-
	08/05/05	34.25	16.59	17.66	-	-
	11/09/05	34.25	16.82	17.43	-	-
	02/09/06	34.25	14.65	19.60	-	-
	05/04/06	34.25	13.61	20.64	-	-
	08/04/06	34.25	16.28	17.97	-	-
	11/08/06	34.25	17.28	16.97	-	-
	02/08/07	34.25	17.68	16.57	-	-
	05/29/07	34.25	17.37	16.88	-	-
	09/05/07	34.25	18.53	15.72	-	-
	12/12/07	34.25	19.61	14.64	-	-
	02/13/08	34.25	18.12	16.13	-	-
	05/15/08	**34.25**	**18.64**	**15.61**	-	-
MW-4	06/29/01	29.38	17.71	11.67	-	-
(10-25)	10/10/01	29.38	18.00	11.38	-	-
	01/09/02	29.38	15.02	14.36	-	-
	04/24/02	29.38	15.74	13.64	-	-
	07/24/02	29.38	16.69	12.69	-	-
	11/05/02	29.38	17.64	11.74	-	-
	02/04/03	29.38	16.02	13.36	-	-
	05/02/03	29.38	16.72	12.66	-	-
	08/04/03	29.38	17.51	11.87	-	-
	11/03/03	29.38	18.09	11.29	-	-
	02/09/04	29.38	16.67	12.71	-	-
	05/10/04	29.38	16.89	12.49	-	-
	08/09/04	29.38	17.44	11.94	-	-
	11/09/04	29.38	17.89	11.49	-	-
	02/03/05	34.42	14.98	19.44	-	-
	05/09/05	34.42	16.20	18.22	-	-
	08/05/05	34.42	17.73	16.69	-	-
	11/09/05	34.42	17.91	16.51	-	-
	02/09/06	34.42	15.62	18.80	-	-
	05/04/06	34.42	15.12	19.30	-	-
	08/04/06	34.42	17.39	17.03	-	-
	11/08/06	34.42	18.30	16.12	-	-
	02/08/07	34.42	18.57	15.85	-	-
	05/29/07	34.42	18.29	16.13	-	-
	09/05/07	34.42	19.27	15.15	-	-
	12/12/07	34.42	20.44	13.98	-	-
	02/13/08	34.42	18.52	15.90	-	-
	05/15/08	**34.42**	**19.42**	**15.00**	-	-

TABLE 1: GROUNDWATER ELEVATION DATA

Vic's Auto, 245 8th Street, Oakland, California

Well 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	02/03/05	33.33	14.23	19.10	-	-
(12-22)	05/09/05	33.33	14.33	19.00	-	-
	08/05/05	33.33	15.89	17.44	-	-
	11/09/05	33.33	16.18	17.15	-	-
	02/09/06	33.33	14.02	19.31	-	-
	05/04/06	33.33	12.97	20.36	-	-
	08/04/06	33.33	15.63	17.70	-	-
	11/08/06	33.33	16.55	16.78	-	-
	02/08/07	33.33	16.12	17.21	-	-
	05/29/07	33.33	15.87	17.46	-	-
	09/05/07	33.33	16.95	16.38	-	-
	12/12/07	33.33	18.13	15.20	-	-
	02/13/08	33.33	16.58	16.75	-	-
	05/15/08	**33.33**	**17.08**	**16.25**	-	-
MW-6	02/03/05	32.82	13.99	18.83	-	Sheen
(12-22)	05/09/05	32.82	13.61	19.21	-	Sheen
	08/05/05	32.82	15.50	17.32	15.13	0.37
	11/09/05	32.82	15.87	16.95	15.50	0.37
	02/09/06	32.82	13.93	18.89	13.22	0.71
	05/04/06	32.82	12.88	19.94	12.13	0.75
	08/04/06	32.82	15.22	17.60	14.81	0.41
	11/08/06	32.82	16.16	16.66	15.78	0.38
	02/08/07	32.82	15.48	17.34	15.14	0.34
	05/29/07	32.82	15.35	17.47	15.04	0.31
	09/05/07	32.82	15.55	17.27	-	-
	12/12/07	32.82	17.22	15.60	-	Sheen
	02/13/08	32.82	15.54	17.28	-	Sheen
	05/15/08	**32.82**	**16.25**	**16.57**	-	-
MW-7	02/03/05	33.07	14.17	18.90	-	Sheen
(12-22)	05/09/05	33.07	14.47	18.60	14.44	0.03
	08/05/05	33.07	16.07	17.00	16.02	0.05
	11/09/05	33.07	16.47	16.60	16.35	0.12
	02/09/06	33.07	14.18	18.89	14.11	0.07
	05/04/06	33.07	13.12	19.95	13.11	0.01
	08/04/06	33.07	15.74	17.33	-	Sheen
	11/08/06	33.07	16.59	16.48	-	Sheen
	02/08/07	33.07	16.23	16.84	-	Sheen
	05/29/07	33.07	16.13	16.94	-	Sheen
	09/05/07	33.07	16.40	16.67	-	Sheen
	12/12/07	33.07	18.02	15.05	-	Sheen
	02/13/08	33.07	16.27	16.80	-	Sheen
	05/15/08	**33.07**	**17.01**	**16.06**	-	-
MW-8 (12-22)	**05/15/08**	**33.00**	**16.47**	**16.53**	-	-
MW-9 (12-22)	**05/15/08**	**32.00**	**15.16**	**16.84**	-	-

TABLE 1: GROUNDWATER ELEVATION DATA

Vic's Auto, 245 8th Street, Oakland, California

Well 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-10	02/03/05	31.17	12.65	18.52	-	-
(12-22)	05/09/05	31.17	13.09	18.08	-	-
	08/05/05	31.17	14.68	16.49	-	-
	11/09/05	31.17	14.94	16.23	-	-
	02/09/06	31.17	12.82	18.35	-	-
	05/04/06	31.17	12.11	19.06	-	-
	08/04/06	31.17	14.38	16.79	-	-
	11/08/06	31.17	15.32	15.85	-	-
	02/08/07	31.17	15.59	15.58	-	-
	05/29/07	31.17	15.27	15.90	-	-
	09/05/07	31.17	16.25	14.92	-	-
	12/12/07	31.17	17.75	13.42	-	Sheen
	02/13/08	31.17	15.59	15.58	-	-
	05/15/08	**31.17**	**16.40**	**14.77**	**-**	**-**
MW-11	02/03/05	31.78	13.39	18.39	-	Sheen
(12-22)	05/09/05	31.78	13.89	17.89	-	Sheen
	08/05/05	31.78	15.47	16.31	-	Sheen
	11/09/05	31.78	15.73	16.05	-	Sheen
	02/09/06	31.78	13.53	18.25	-	Sheen
	05/04/06	31.78	12.73	19.05	-	Sheen
	08/04/06	31.78	15.17	16.61	-	Sheen
	11/08/06	31.78	16.15	15.63	-	-
	02/08/07	31.78	16.36	15.42	-	Sheen
	05/29/07	31.78	16.06	15.72	-	Sheen
	09/05/07	31.78	17.03	14.75	-	Sheen
	12/12/07	31.78	18.68	13.10	-	-
	02/13/08	31.78	16.28	15.50	-	-
	05/15/08	**31.78**	**17.12**	**14.66**	**-**	**-**
MW-12	02/03/05	32.05	13.70	18.35	-	Sheen
(12-22)	05/09/05	32.05	14.17	17.88	-	Sheen
	08/05/05	32.05	15.69	16.36	-	Sheen
	11/09/05	32.05	15.93	16.12	-	Sheen
	02/09/06	32.05	13.78	18.27	-	Sheen
	05/04/06	32.05	12.98	19.07	-	Sheen
	08/04/06	32.05	15.39	16.66	-	Sheen
	11/08/06	32.05	16.29	15.76	-	-
	02/08/07	32.05	16.54	15.51	-	-
	05/29/07	32.05	16.27	15.78	-	-
	09/05/07	32.05	17.24	14.81	-	-
	12/12/07	32.02	18.65	13.37	-	-
	02/14/08	32.02	16.50	15.52	-	-
	05/15/08	**32.02**	**17.34**	**14.68**	**-**	**-**
MW-13	**05/15/08**	**32.00**	**14.87**	**17.13**	**-**	**-**
(12-22)						

NOTES:

all well elevations are measured from the top of the casing

- not applicable

ft = feet

ft amsl = feet above mean sea level

LNAPL = light non-aqueous phase liquid (i.e., free product)

Red = Assumed elevation, awaiting final survey data upon upcomming installation of MW-14 and MW-15

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

TABLE 2: GROUNDWATER FLOW SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Episode #	Date	Average Groundwater Elevation[1] (ft amsl)	Change from Previous Episode (ft)	Flow direction (gradient)
1	06/29/01	12.10	-	SSE (0.0074)
2	10/10/01	11.80	-0.30	SSE (0.0071)
3	01/09/02	14.68	2.88	SE (0.0054)
4	04/24/02	13.85	-0.83	SSW (0.005)
5	07/24/02	12.92	-0.93	NE (0.021)
6	11/05/02	11.89	-1.02	SW (0.019)
7	02/04/03	12.80	0.90	NNW (0.01)
8	05/02/03	13.11	0.32	SSE (0.01)
9	08/04/03	12.27	-0.85	SSE(0.007)
10	11/03/03	11.64	-0.63	SSE (0.006)
11	02/09/04	13.03	1.39	SSE (0.006)
12	05/10/04	12.92	-0.11	SSE (0.008)
13	08/09/04	12.31	-0.60	SSE (0.006)
14	11/09/04	11.70	-0.62	SSE (0.004)
15	02/03/05	18.75	-	W (0.007)
16	05/09/05	18.53	-0.22	S (0.010)
17	08/05/05	16.94	-1.59	S (0.010)
18	11/09/05	16.65	-0.28	S (0.010)
19	02/09/06	18.83	2.17	SSW (0.010)
20	05/04/06	19.72	0.90	SSW (0.012)
21	08/04/06	17.24	-2.48	SSW (0.010)
22	11/08/06	16.32	-0.93	SSW(0.0007)
23	02/08/07	16.25	-0.07	SSE (0.0009)
24	05/29/07	16.60	0.35	SSE (0.0009)
25*	09/05/07	15.77	-0.84	-
26*	12/12/07	14.38	-1.38	-
27*	02/13/08	16.24	1.86	-
28*	**05/15/08**	**15.81**	**-0.43**	-

NOTES:

- not applicable

ft = feet

ft amsl = feet above mean sea level

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

* = Flow direction not calculated due to onsite operation of dual-phase extraction remediation system

TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)
MW-1	06/29/01	1.63	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
(8-28)	10/10/01	0.08	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	01/09/02	<0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	04/24/02	<0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	07/24/02	~0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/05/02	~0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	02/04/03	~0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	05/02/03	0.08	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	08/04/03	0.23	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/03/03	1.27	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	02/09/04	0.18	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	05/10/04	Obstructed	-	-	-	-	-	-	-
	08/09/04	0.21	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/09/04	0.24	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	02/03/05	0.17	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	05/09/05	0.12	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	08/05/05	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/09/05	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	02/09/06	0.02	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	05/04/06	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	08/04/06	0.02	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/08/06	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	02/08/07	0.03	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	05/29/07	0.05	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	09/05/07	Sheen	47,000	<500	4,200	11,000	1,100	6,400	-
	12/12/07	Sheen	80,000	<250	630	22,000	1,700	8,900	-
	02/13/08	Sheen	22,000	<250	750	4,100	340	3,200	-
	05/15/08	**0.00**	**25,000**	**<600**	**580**	**9,200**	**970**	**4,200**	**-**
MW-2	06/29/01	0.00	69,000	4,100/4,400*	7,200	6,100	1,500	7,000	-
(8-28)	10/10/01	0.00	87,000	14,000	22,000	12,000	2,700	9,100	-
	01/09/02	0.00	130,000	11,000	30,000	19,000	3,800	14,000	-
	04/24/02	Sheen	210,000	32,000	38,000	23,000	4,600	19,000	-
	07/24/02	Sheen	170,000	36,000	48,000	12,000	3,700	8,600	-
	11/05/02	Sheen	190,000	36,000	45,000	25,000	4,600	16,000	-
	02/04/03	Sheen	150,000	27,000	51,000	24,000	4,200	14,000	-
	05/02/03	Sheen	150,000	35,000	39,000	11,000	3,800	9,900	-
	08/04/03	Sheen	120,000	29,000	32,000	5,000	3,200	7,200	-
	11/03/03	Sheen	120,000	24,000	33,000	4,300	3,200	5,400	-
	02/09/04	Sheen	130,000	19,000	27,000	7,700	3,100	7,600	-
	05/10/04	Sheen	67,000	13,000	20,000	3,000	2,300	4,100	-
	08/09/04	Sheen	100,000	22,000	27,000	7,100	2,800	6,600	-
	11/09/04	Sheen	100,000	23,000	27,000	6,100	3,000	5,600	-
	02/03/05	Sheen	84,000	11,000	23,000	5,000	3,000	5,500	-
	05/09/05	Sheen	74,000	14,000	21,000	4,200	2,300	3,300	-
	07/27/05	Sheen	9,500	910	1,400	1,000	180	960	-
	08/05/05	Sheen	74,000	4,000	8,800	11,000	1,300	7,600	-
	11/09/05	Sheen	120,000	16,000	21,000	14,000	2,300	13,000	-
	02/09/06	Sheen	120,000	10,000	18,000	16,000	2,200	13,000	-
	05/04/06	Sheen	71,000	8,300	14,000	11,000	1,500	7,600	-
	08/04/06	Sheen	160,000	14,000	22,000	14,000	2,400	11,000	-
	11/08/06	Sheen	110,000	6,400	17,000	9,200	1,600	6,800	<DL

TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)
MW-2	02/08/07*	Sheen	68,000	5,400	11,000	7,800	1,500	7,700	-
continued	05/29/07	Sheen	49,000	4,800	7,600	4,400	940	4,600	-
	09/05/07	Sheen	25,000	1,000	3,300	3,400	490	2,800	-
	12/12/07	0.00	5,500	870	1,100	440	28	550	-
	02/13/08	0.00	5,700	250	440	290	43	1,000	
	05/15/08	**0.00**	**490**	**68**	**110**	**11**	**0.90**	**42**	
MW-3	06/29/01	0.00	550	<5.0	<0.5	3.1	3.2	1.2	-
(10-25)	10/10/01	0.00	470	<5.0	0.77	5.3	3.3	5.9	-
	01/09/02	0.00	1,000	<5.0	0.90	7.6	7.8	25	-
	04/24/02	0.00	1,500	<5.0	0.64	7.2	12	14	-
	07/24/02	0.00	1,200	<5.0	10	17.0	11	25	-
	11/05/02	0.00	1,800	<25	33	43.0	18	31	-
	02/04/03	0.00	450	<5.0	<0.5	5.0	<0.5	0.77	-
	05/02/03	0.00	340	<5.0	7.3	10.0	2.5	7.3	-
	08/04/03	0.00	170	<5.0	5.8	5.9	1.5	4.9	-
	11/03/03	0.00	54	<5.0	<0.5	<0.5	<0.5	<0.5	-
	02/09/04	0.00	190	<5.0	<0.5	3.6	<0.5	<0.5	-
	05/10/04	0.00	280	<5.0	<0.5	3.4	<0.5	<0.5	-
	08/09/04	0.00	290	<5.0	<0.5	3.8	<0.5	<0.5	-
	11/09/04	0.00	220	<5.0	<0.5	4.0	<0.5	<0.5	-
	02/03/05	0.00	160	<5.0	13	30	3	21	-
	05/09/05	0.00	200	<5.0	<0.5	3.9	<0.5	<0.5	-
	08/05/05	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	11/09/05	0.00	130	<5.0	<0.5	2.3	<0.5	<0.5	-
	02/09/06	0.00	270	<5.0	<0.5	5.6	<0.5	<0.5	-
	05/04/06	0.00	220	<5.0	<0.5	4.3	<0.5	<0.5	-
	08/04/06	0.00	93	<5.0	<0.5	1.5	<0.5	<0.5	-
	11/08/06	0.00	160	<5.0	<0.5	2.9	<0.5	<0.5	<DL
	02/08/07*	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	05/29/07	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	09/05/07	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	12/12/07	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	02/13/08	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	05/15/08	**0.00**	**<50**	**<5.0**	**0.99**	**<0.5**	**<0.5**	**0.68**	**-**
MW-4	06/29/01	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
(10-25)	10/10/01	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	01/09/02	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	04/24/02	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	07/24/02	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	11/05/02	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	02/04/03	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	05/02/03	0.00	500	10	68	71	18	65	-
	08/04/03	0.00	270	<5.0	30	29	9.2	32	-

TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)
MW-4	11/03/03	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
continued	02/09/04	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	05/10/04	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	08/09/04	0.00	130	<5.0	14	13	5.3	17	-
	11/09/04	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	02/03/05	0.00	370	<5.0	<0.5	4.1	<0.5	0.64	-
	05/09/05	0.00	840	<5.0	50	180	21	110	-
	07/27/05	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	08/05/05	0.00	310	<5.0	7.5	57	10	53	-
	11/09/05	0.00	290	<5.0	12	61	8.8	49	-
	02/09/06	0.00	250	<5.0	9.9	42	7.5	45	-
	05/04/06	0.00	300	<5.0	37	76	7.8	42	-
	08/04/06	0.00	270	<5.0	7.3	33	5.6	32	-
	11/08/06	0.00	1,300	<5.0	75	230	31	160	<DL
	02/08/07	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	05/29/07	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	09/05/07	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	12/12/07	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	02/13/08	0.00	75	<5.0	2.4	8.3	1.2	14	-
	05/15/08	**0.00**	**<50**	**<5.0**	**0.65**	**<0.5**	**<0.5**	**0.52**	-
MW-5	02/03/05	0.00	78,000	<1,000	7,600	13,000	2,200	9,600	-
(12-22)	05/09/05	0.00	60,000	<900	6,100	9,900	1,600	6,600	-
	07/27/05	nm	120,000	1,100	10,000	19,000	2,100	13,000	-
	08/05/05	0.00	59,000	<500	4,100	10,000	1,200	6,600	-
	11/09/05	0.00	44,000	<500	3,300	7,400	1,100	4,900	-
	02/09/06	0.00	110,000	<500	10,000	22,000	2,400	13,000	-
	05/04/06	0.00	110,000	<250	11,000	22,000	2,900	15,000	-
	08/04/06	0.00	73,000	<500	4,700	8,600	1,700	7,600	-
	11/08/06	0.00	51,000	<500	3,700	7,200	1,400	6,700	<DL
	02/08/07	0.00	67,000	<800	5,100	10,000	1,800	10,000	-
	05/29/07	0.00	86,000	<1000	6,200	12,000	2,000	11,000	-
	09/05/07	0.00	36,000	<350	2,100	4,000	560	4,600	-
	12/12/07	0.00	8,200	<100	160	56	290	1,200	-
	02/13/08	0.00	4,600	<50	77	440	41	1,300	-
	05/15/08	**0.00**	**3,000**	**<10**	**59**	**330**	**47**	**670**	-
MW-6	02/03/05	Sheen	130,000	<1,000	2,400	33,000	2,400	15,000	-
(12-22)	05/09/05	Sheen	170,000	<4,000	11,000	43,000	3,100	16,000	-
	08/05/05	0.37	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/09/05	0.37	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	02/09/06	0.71	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	05/04/06	0.75	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	08/04/06	0.41	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/08/06	0.38	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	02/08/07	0.34	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	05/29/07	0.31	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	09/05/07	0.00	74,000	<750	870	7,000	2,400	12,000	-
	12/12/07	Sheen	12,000	<10	556	560	550	1,800	-
	02/13/08	Sheen	27,000	<250	700	4,900	620	5,300	<DL
	05/15/08	**0.00**	**25,000**	**<150**	**410**	**2,500**	**1,000**	**3,700**	-

TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)
MW-7	02/03/05	Sheen	220,000	18,000	45,000	44,000	3,500	18,000	-
(12-22)	05/09/05	0.03	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	08/05/05	0.05	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/09/05	0.12	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	02/09/06	0.07	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	05/04/06	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	08/04/06	Sheen	230,000	19,000	37,000	37,000	3,100	14,000	-
	11/08/06	Sheen	240,000	13,000	41,000	39,000	3,000	14,000	<DL
	02/08/07	Sheen	230,000	15,000	41,000	37,000	3,700	20,000	-
	05/29/07	Sheen	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	09/05/07	Sheen	14,000	<450	41	210	99	1,600	-
	12/12/07	Sheen	9,200	<500	1,100	870	66	1,100	-
	02/13/08	0.00	17,000	590	2,800	2,700	300	1,900	-
	05/15/08	**0.00**	**10,000**	**230**	**1,700**	**1,900**	**200**	**950**	-
MW-8	**05/15/08**	**0.00**	**90**	**<5.0**	**0.62**	**2.4**	**<0.5**	**1**	-
(12-22)									
MW-9	**05/15/08**	**0.00**	**60,000**	**960**	**14,000**	**410**	**1,500**	**3,500**	-
(12-22)									
MW-10	02/03/05	0.00	36,000	<500	4,700	7,200	660	3,400	-
(12-22)	05/09/05	0.00	88,000	<1,500	6,900	20,000	2,300	9,900	-
	08/05/05	0.00	88,000	<1,100	10,000	21,000	1,900	9,800	-
	11/09/05	0.00	63,000	<1,100	5,400	13,000	1,900	7,900	-
	02/09/06	0.00	100,000	<500	6,600	19,000	2,900	13,000	-
	05/04/06	0.00	100,000	<500	8,500	25,000	3,000	13,000	-
	08/04/06	0.00	190,000	<2,200	17,000	35,000	2,800	13,000	-
	11/08/06	0.00	57,000	<500	2,500	7,600	1,600	5,700	<DL
	02/08/07	0.00	69,000	<1,000	4,400	14,000	2,200	8,800	-
	05/29/07	0.00	100,000	<1,000	5,300	19,000	2,600	12,000	-
	09/05/07	0.00	87,000	<1,000	6,100	20,000	2,400	12,000	-
	12/12/07	Sheen	4,700	<50	95	280	110	730	-
	02/13/08	0.00	4,500	<250	190	370	65	880	-
	05/15/08	**0.00**	**4,800**	**<50**	**130**	**320**	**110**	**710**	-
MW-11	02/03/05	Sheen	170,000	<3,000	23,000	35,000	3,100	16,000	-
(12-22)	05/09/05	Sheen	210,000	3,500	29,000	40,000	3,400	16,000	-
	07/27/05	Sheen	220,000	2,500	26,000	37,000	3,200	18,000	-
	08/05/05	Sheen	210,000	<2,500	35,000	42,000	3,300	16,000	-
	11/09/05	Sheen	180,000	9,100	32,000	47,000	3,600	18,000	-
	02/09/06	Sheen	210,000	10,000	33,000	39,000	3,800	20,000	-
	05/04/06	Sheen	190,000	12,000	34,000	41,000	3,500	17,000	-
	08/04/06	Sheen	290,000	11,000	33,000	43,000	3,300	15,000	-
	11/08/06	0.00	240,000	14,000	34,000	44,000	3,300	16,000	<DL
	02/08/07	0.00	230,000	19,000	43,000	44,000	3,900	20,000	-
	05/29/07	0.00	230,000	19,000	35,000	39,000	3,600	20,000	-
	09/05/07	0.00	200,000	19,000	34,000	36,000	3,700	23,000	-
	12/12/07	0.00	81,000	4,000	9,400	9,500	1,700	9,700	-
	02/13/08	0.00	36,000	4,200	5,700	4,000	560	5,300	-
	05/15/08	**0.00**	**15,000**	**2,300**	**2,800**	**1,400**	**120**	**1,900**	-

TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)
MW-12 (12-22)	02/03/05	Sheen	250,000	100,000	52,000	41,000	3,400	15,000	-
	05/09/05	Sheen	210,000	91,000	44,000	28,000	3,300	13,000	-
	08/05/05	Sheen	170,000	52,000	38,000	28,000	3,000	12,000	-
	11/09/05	Sheen	180,000	52,000	39,000	25,000	2,900	12,000	-
	02/09/06	Sheen	170,000	34,000	40,000	23,000	3,500	15,000	-
	05/04/06	Sheen	160,000	47,000	33,000	28,000	2,800	10,000	-
	08/04/06	Sheen	240,000	55,000	40,000	24,000	3,200	12,000	-
	11/08/06	0.00	190,000	33,000	40,000	23,000	2,700	13,000	<DL
	02/08/07	0.00	150,000	34,000	38,000	19,000	3,300	12,000	-
	05/29/07	0.00	150,000	30,000	30,000	15,000	3,100	13,000	-
	09/05/07	0.00	160,000	38,000	33,000	21,000	3,200	14,000	-
	12/12/07	0.00	58,000	6,700	10,000	7,100	1,200	4,900	-
	02/13/08	0.00	17,000	3,000	3,600	2,300	440	1,800	-
	05/15/08	**0.00**	**7,800**	**1,900**	**2,000**	**500**	**130**	**640**	**-**
MW-13 (12-22)	**05/15/08**	**0.00**	**<250**	**6,700**	**18**	**<2.5**	**<2.5**	**<2.5**	**-**

NOTES:

- not sampled/analyzed

ft = feet

ns/fp = not sampled / free product present

µg/L = micrograms per liter or parts per billion (ppb)

TPH-g = total petroleum hydrocarbons as gasoline

MTBE = methyl tertiary-butyl ether

HVOC= halogenated volatile organic compounds (e.g., PCE, TCE, DCE, VC)

DL = detection limit

TPH-g by modified EPA Method 8015

BTEX & MTBE by modified EPA Method 8021B

* MTBE sample re-analyzed by modified EPA Method 8260B (expressed as 8021B / 8260B)

* = Analytical results for MW-2 and MW-3 reversed from lab data based on historical concentration trends observed

TABLE 4: SOIL GAS SAMPLE ANALYTICAL DATA

Vic's Auto, 245 8th Street, Oakland, California

Well ID	Date Collected	Sample Depth (ft bgs)	TPH-g (µg/m3)	MTBE (µg/m3)	Benzene (µg/m3)	Toluene (µg/m3)	Ethyl-benzene (µg/m3)	Xylenes (µg/m3)	Ethanol (µg/m3)	PCE (µg/m3)	2-propanol (µg/m3)
GP-1-5	08/04/06	5	331	<8.0	<7.1	<8.4	<9.7	<9.7	<17	17	23
GP-1-5D$_l$	08/04/06	5	-	<8.0	<7.1	<8.4	<9.7	<9.7	<17	18	23
GP-1-5	11/08/06	5	1,100	<4.6	<4.0	<4.8	<5.5	<5.5	<9.5	12	<12
GP-1-5	03/06/07*	5	-	-	-	-	-	-	-	-	-
GP-1-5	05/17/07	5	457	<3.6	<3.2	<3.8	<4.4	<4.4	<7.6	14	<9.9
GP-1-5D$_l$	05/17/07	5	-	<3.6	<3.2	<3.8	<4.4	<4.4	<7.6	14	<9.9
GP-1-5	12/12/07	5	<1,500	<48	<6.5	<7.7	<8.8	<27	<96	<14	<25
GP-1-5	02/14/08	5	<1,800	<48	<6.5	<7.7	<8.8	<27	<96	<14	<10,000
GP-1-5	**05/08/08**	**5**	**<1,800**	**<7.3**	**<6.5**	**<7.7**	**<8.8**	**<27**	**-**	**<14**	**<25**
GP-1-10	08/04/06	10	493	<4.1	<3.6	<4.3	<5.0	<5.0	<8.6	20	<11
GP-1-10	11/08/06	10	950	<4.2	<3.7	<4.4	<5.0	<5.0	<8.8	<7.9	<11
GP-1-10	03/06/07*	10	-	-	-	-	-	-	-	-	-
GP-1-10	05/17/07^	10	-	-	-	-	-	-	-	-	-
GP-1-10	12/12/07	10	<1,500	<48	<6.5	<7.7	<8.8	<27	<96	<14	<25
GP-1-10	02/14/08	10	<1,800	<48	<6.5	<7.7	<8.8	<27	-	<14	<10,000
GP-1-10	**05/08/08**	**10**	**<1,800**	**<7.3**	**<6.5**	**<7.7**	**<8.8**	**<27**	**-**	**<14**	**<25**
GP-2-5	08/04/06	5	493	<4.4	<3.9	6.9	<5.4	10	<9.3	600	<12
GP-2-5	11/08/06	5	1,100	<4.0	<3.6	<4.2	<4.9	<4.9	<8.4	240	<11
GP-2-5	03/06/07*	5	-	-	-	-	-	-	-	-	-
GP-2-5	05/17/07	5	582	<4.0	<3.5	<4.1	<4.8	<4.8	<8.3	420	<11
GP-2-5	12/12/07	5	<1,500	<48	<6.5	<7.7	<8.8	<27	<96	<14	<25
GP-2-5	02/14/08	5	<1,800	<48	<6.5	<7.7	<8.8	<27	<14	<14	<10,000
GP-2-5	**05/08/08**	**5**	**<1,800**	**<7.3**	**<6.5**	**<7.7**	**<8.8**	**<27**	**-**	**<14**	**<25**
GP-2-10	08/04/06	10	352	<10	<9.0	18	<12	<12	<21	270	<28
GP-2-10	11/08/06	10	910	<3.9	<3.4	<4.1	<4.7	<4.7	<8.1	450	<11
GP-2-10	03/06/07*	10	-	-	-	-	-	-	-	-	-
GP-2-10	05/17/07	10	748	<3.8	<3.3	<3.9	<4.5	<4.5	<7.9	440	<10
GP-2-10	12/12/07	10	<1500	<48	<6.5	<7.7	<8.8	<27	<96	<14	<25
GP-2-10	02/14/08	10	<1800	<48	<6.5	<7.7	<8.8	<27	-	<14	<10,000
GP-2-10	**05/08/08**	**10**	**<1,800**	**<7.3**	**<6.5**	**<7.7**	**<8.8**	**<27**	**-**	**<14**	**<25**
GP-3-5	08/04/06	5	<240	<4.2	<3.7	<4.4	<5.0	<5.0	<8.8	<7.9	<11
GP-3-5	11/08/06	5	930	<4.4	<3.9	<4.6	<5.2	<5.2	<9.1	<8.2	<12
GP-3-5	03/06/07*	5	-	-	-	-	-	-	-	-	-
GP-3-5	05/17/07	5	582	<4.0	<3.5	<4.1	<4.8	<4.8	17	<7.5	<11
GP-3-5D$_f$	05/17/07	5	582	<4.0	<3.5	<4.1	<4.8	<4.8	<8.3	16	<11
GP-3-5	12/12/07	5	<1500	<48	<6.5	<7.7	<8.8	<27	<96	<14	<25
GP-3-5	02/14/08	5	<1800	<48	<6.5	<7.7	<8.8	<27	-	<14	<10,000
GP-3-5	**05/08/08**	**5**	**<1,800**	**<7.3**	**<6.5**	**<7.7**	**<8.8**	**<27**	**-**	**<14**	**<25**

TABLE 4: SOIL GAS SAMPLE ANALYTICAL DATA

Vic's Auto, 245 8th Street, Oakland, California

Well ID	Date Collected	Sample Depth (ft bgs)	TPH-g (µg/m3)	MTBE (µg/m3)	Benzene (µg/m3)	Toluene (µg/m3)	Ethyl-benzene (µg/m3)	Xylenes (µg/m3)	Ethanol (µg/m3)	PCE (µg/m3)	2-propanol (µg/m3)
GP-3-10	08/04/06	10	564	<4.2	<3.7	<4.4	<5.0	<5.0	<8.8	<7.9	<11
GP-3-10	11/08/06	10	1,800	<4.0	<3.6	<4.2	<4.9	<4.9	<8.4	<7.6	<11
GP-3-10	03/06/07*	10	-	-	-	-	-	-	-	-	-
GP-3-10	05/17/07	10	1,538	<4.1	<3.6	<4.3	<5.0	<5.0	18	<7.8	12
GP-3-10	12/12/07	10	<1500	<48	<6.5	<7.7	<8.8	<27	<96	<14	-
GP-3-10	02/14/08	10	<1800	<48	<6.5	<7.7	<8.8	<27	-	<14	<10,000
GP-3-10	**05/08/08**	**10**	**<1,800**	**<7.3**	**<6.5**	**<7.7**	**<8.8**	**<27**	**-**	**<14**	**<25**
GP-4-5	08/04/06	5	705	<4.4	5.4	<4.6	<5.4	<5.4	<9.3	<8.4	<12
GP-4-5D$_l$	08/04/06	5	599	-	-	-	-	-	-	-	-
GP-4-5	11/08/06	5	540	<4	<3.5	<4.1	<4.8	<4.8	<8.3	<7.5	<11
GP-4-5D$_f$	11/08/06	5	610	<7.7	<6.8	<8.0	<9.2	<9.2	<16	<14	<21
GP-4-5	03/06/07*	5	-	-	-	-	-	-	-	-	-
GP-4-5	05/17/07	5	873	<4	<3.6	<4.2	<4.9	<4.9	15	<7.6	<11
GP-4-5	12/12/07	5	<1500	<48	<6.5	<7.7	<8.8	<27	<96	<14	<25
GP-4-5D$_f$	12/12/07	5	<1500	<48	<6.5	<7.7	<8.8	<27	<96	<14	<25
GP-4-5	02/14/08	5	<1800	<48	<6.5	<7.7	<8.8	<27	<96	<14	<10,000
GP-4-5	**05/08/08**	**5**	**<1,800**	**<7.3**	**<6.5**	**<7.7**	**<8.8**	**<27**	**-**	**<14**	**<25**
GP-4-10	08/04/06	10	564	<4.1	6.1	17	5.7	16	12	<7.8	<11
GP-4-10D$_f$	08/05/06	10	529	<3.8	4.2	18	<4.6	17	18	<7.2	<10
GP-4-10	11/08/06	10	900	<4.0	<3.5	4.1	<4.8	5.2	<8.3	<7.5	<11
GP-4-10D$_l$	11/08/06	10	880	<1.8	<1.6	<1.9	<2.2	<2.2	<3.8	<3.4	<4.9
GP-4-10	03/06/07*	10	-	-	-	-	-	-	-	-	-
GP-4-10	05/17/07^	10	-	-	-	-	-	-	-	-	-
GP-4-10	12/12/07	10	1,600	<48	<6.5	<7.7	<8.8	<27	<96	<14	<25
GP-4-10	02/14/08	10	-	-	-	-	-	-	-	-	-
GP-4-10	**05/08/08**	**10**	**<1,800**	**<7.3**	**<6.5**	**<7.7**	**<8.8**	**<27**	**-**	**<14**	**<25**
ESLs			**26,000**	**9,400**	**85**	**63,000**	**420,000**	**150,000**	**1.9E+07**	**410**	**-**
CHHSLs			**-**	**4,000**	**36.2**	**135,000**	**pp**	**315,000**	**-**	**180**	**-**

NOTES:

- not sampled/analyzed

2-propanol (i.e., isopropyl alcohol) 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

ESLs = Environmental Screening Levels - for residential land use

CHHSLs = California Human Health Screening Levels

pp = CHHSL postponed

* = Sampling not possible due to seasonal wet soil conditions

^ = No sample analysis due to presence of free moisture in sample tubing

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

TPH-g by modified EPA Method TO-3

BTEX, MTBE, Ethanol, PCE, 2-propanol by modified EPA Method TO-15

TABLE 5: HVDPE VAPOR SAMPLE ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Sample Port ID	Sample Date	Notes	TPH-g (ppmv)	MTBE (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Xylenes (ppmv)
MW-1S	08/10/07		3,400	ND<14	68	210	30	160
	09/28/07	1,2	-	-	-	-	-	-
	10/17/07		380	ND<14	26	58	5.7	46
	11/16/07		3,200	ND<14	69	220	20	110
	12/26/07		3,900	ND<27	79	210	41	210
	01/22/08		660	ND<14	5.8	23	2.7	28
	02/07/08	4	-	-	-	-	-	-
	03/18/08		140	ND	1.3	6.9	0.78	6.9
	04/30/08		**520**	**3.3**	**13**	**38**	**6.7**	**53**
	05/29/08		**-**	**-**	**-**	**-**	**-**	**-**
	06/26/08		**-**	**-**	**-**	**-**	**-**	**-**
MW-2S	08/10/07		11,000	ND<110	280	770	81	360
	09/28/07	1	5,100	ND<35	110	310	46	260
	10/17/07		1,900	ND<20	59	120	12	73
	11/16/07		5,800	ND<27	120	340	40	200
	12/26/07		3,100	ND<27	84	230	37	190
	01/22/08		3,000	ND<14	61	190	24	180
	02/07/08	5	-	-	-	-	-	-
	03/18/08		1,400	2.3	17	51	13	81
	04/30/08		**1,900**	**ND<6.8**	**22**	**75**	**16**	**110**
	05/29/08		**-**	**-**	**-**	**-**	**-**	**-**
	06/26/08		**-**	**-**	**-**	**-**	**-**	**-**
MW-5S	08/10/07		54	ND	0.60	2.7	0.60	3.7
	09/28/07	1	3,800	ND<60	70	150	19	120
	10/17/07		1,100	ND<14	27	56	5.3	36
	11/16/07		3,800	ND<110	64	170	21	170
	12/26/07		140	ND<0.68	0.45	3.7	1.5	14
	01/22/08		760	ND<4.5	3.3	16	2.4	28
	02/07/08	4	-	-	-	-	-	-
	03/18/08		580	ND<2.7	3	24	4.2	39
	04/30/08		**2,000**	**ND<10**	**18**	**56**	**5.7**	**63**
	05/29/08		**-**	**-**	**-**	**-**	**-**	**-**
	06/26/08		**-**	**-**	**-**	**-**	**-**	**-**
MW-6S	08/10/07		5,800	ND<30	69	280	24	140
	09/28/07	1	6,800	ND<60	100	360	34	190
	10/17/07		1,700	ND<10	24	90	9.7	79
	11/16/07		6,400	ND<27	56	270	40	310
	12/26/07		4,200	ND<27	21	96	14	180
	01/22/08		1,900	ND<14	11	74	13	100
	02/07/08		-	-	-	-	-	-
	03/18/08		230	ND<1.4	1.2	9.2	2.4	16
	04/30/08		**760**	**ND<6.8**	**3.5**	**18**	**3.2**	**36**
	05/29/08		**-**	**-**	**-**	**-**	**-**	**-**
	06/26/08		**400**	**ND<10**	**2**	**18**	**3.1**	**24**

TABLE 5: HVDPE VAPOR SAMPLE ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Sample Port ID	Sample Date	Notes	TPH-g (ppmv)	MTBE (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Xylenes (ppmv)
MW-7S	08/10/07		19,000	ND<450	620	590	27	100
	09/28/07	1	13,000	ND<150	350	630	69	370
	10/17/07		390	ND<14	27	60	6	51
	11/16/07		7,700	ND<45	170	390	47	280
	12/26/07		4,700	ND<45	100	220	27	190
	01/22/08		3,900	ND<14	69	200	20	210
	02/07/08		-	-	-	-	-	-
	03/18/08		2,000	ND<5.0	25	81	11	78
	04/30/08		**4,100**	**ND<14**	**66**	**150**	**15**	**150**
	05/29/08		**-**	**-**	**-**	**-**	**-**	**-**
	06/26/08		**4,800**	**ND<30**	**56**	**71**	**4**	**110**
MW-10S	11/21/07		28,000	ND<68	300	800	63	230
	12/26/07		6,300	ND<14	55	350	64	300
	01/22/08		4,700	ND<14	38	230	49	310
	02/07/08		-	-	-	-	-	-
	03/18/08		2,100	ND<14	13	73	31	190
	04/30/08		**2,500**	**ND<14**	**11**	**76**	**33**	**230**
	05/29/08		**1,800**	**ND<6.8**	**13**	**47**	**17**	**120**
	06/26/08		**780**	**ND<1.4**	**4.1**	**15**	**4.9**	**38**
MW-11S	11/21/07		20,000	ND<68	240	640	63	240
	12/26/07		3,400	ND<75	50	220	50	230
	01/22/08		3,000	ND<30	81	190	39	230
	02/07/08		-	-	-	-	-	-
	03/18/08		1,700	ND<14	26	66	26	150
	04/30/08		**600**	**ND<5.0**	**6.7**	**23**	**5.9**	**49**
	05/29/08		**1,800**	**ND<30**	**24**	**47**	**18**	**120**
	06/26/08		**940**	**ND<15**	**12**	**28**	**8.4**	**57**
MW-12S	11/21/07		1,400	ND<100	87	51	10	40
	12/26/07		1,200	ND<45	27	100	13	74
	01/22/08		1,100	ND<45	14	50	8.4	65
	02/07/08		-	-	-	-	-	-
	03/18/08		460	ND<30	42	32	4.2	36
	04/30/08		**390**	**5**	**8.8**	**17**	**3.9**	**30**
	05/29/08		**490**	**ND<10**	**14**	**23**	**4.4**	**30**
	06/26/08		**300**	**4.1**	**5.1**	**14**	**2.6**	**22**
AS	10/17/07		130	ND<1.4	4.3	11	1.4	12
	11/08/07		19	ND	0.60	1.8	0.18	3.2
	01/15/08		1,100	19	31	100	17	180
	01/31/08		69	ND<4.5	1.7	5.0	0.81	11
	02/07/08		31	1.4	0.47	1.5	0.21	4.1
	03/18/08		31	0.71	0.60	1.8	0.34	3.2
	04/30/08		**37**	**ND<0.68**	**0.36**	**1.4**	**0.34**	**4.1**
	05/29/08		**ND<7.0**	**ND<0.68**	**ND<0.077**	**ND<0.065**	**ND<0.057**	**0.16**
	06/26/08		**44**	**0.97**	**0.89**	**2.5**	**0.54**	**6.3**

TABLE 5: HVDPE VAPOR SAMPLE ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Sample Port ID	Sample Date	Notes	TPH-g (ppmv)	MTBE (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Xylenes (ppmv)
PRED	06/28/07		-	-	-	-	-	-
	07/11/07		6,600	ND<90	180	340	39	190
	07/27/07		11,000	ND<75	170	330	38	160
	08/01/07		5,500	ND<70	140	250	16	71
	08/10/07		7,700	ND<90	210	410	41	190
	09/28/07	1	4,000	ND<50	90	170	9.3	42
	10/17/07		5,100	ND<60	130	210	8.6	51
	11/08/07		4,000	ND<0.68	0.35	2.2	0.68	6.6
	11/16/07		3,700	ND<120	63	170	20	120
	11/16/07		6,000	ND<27	100	250	27	170
	11/21/07		2,500	ND<14	39	120	16	79
	12/04/07		7,900	ND<32	120	340	48	280
	12/26/07		4,100	ND<27	72	250	42	270
	01/08/08	3	-	-	-	-	-	-
	01/15/08		1,900	ND<14	29	89	16	100
	01/22/08		1,900	ND<14	34	100	13	100
	01/31/08		2,200	ND<14	36	120	19	160
	02/07/08		2,000	ND<35	34	110	10	130
	03/18/08		630	ND<3.0	7.0	25	5.6	38
	04/30/08		**2,100**	**ND<5.0**	**20**	**63**	**16**	**120**
	05/29/08		**2,100**	**ND<10**	**21**	**45**	**18**	**120**
	06/26/08		**860**	**ND<5.0**	**11**	**27**	**6.5**	**50**
POSTD	06/28/07		3,800	ND<60	120	160	22	110
	07/11/07		1,400	ND<14	36	82	12	67
	07/27/07		3,400	ND<14	56	120	15	70
	08/01/07		2,500	ND<27	59	140	17	95
	08/10/07		5,300	ND<45	130	290	37	180
	09/28/07		4,800	ND<60	100	210	23	120
	10/17/07		1,800	ND<14	41	110	14	100
	11/08/07		2,000	ND<15	42	100	12	88
	11/16/07		3,600	ND<14	58	190	25	180
	11/21/07		5,500	ND<25	75	210	28	130
	12/04/07		3,400	ND<16	44	120	22	120
	12/26/07		1,300	ND<45	26	96	15	100
	01/08/08		1,700	ND<14	23	79	13	83
	01/15/08		620	ND<14	11	39	6.6	44
	01/22/08		1,100	ND<14	14	50	8.4	65
	01/31/08		770	ND<14	12	38	6.9	62
	02/07/08		690	ND<6.8	10	37	6.6	58
	03/18/08		310	ND<3.5	3.9	12	3	20
	04/30/08		**700**	**ND<2.0**	**7.6**	**23**	**5**	**42**
	05/29/08		**500**	**ND<3.5**	**5.4**	**12**	**4.1**	**29**
	06/26/08		**620**	**ND<10**	**7.8**	**25**	**5.4**	**45**

TABLE 5: HVDPE VAPOR SAMPLE ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Sample Port ID	Sample Date	Notes	TPH-g (ppmv)	MTBE (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Xylenes (ppmv)
STACK	06/28/07		ND	ND	ND	ND	ND	ND
	07/27/08		-	-	-	-	-	-
	08/10/07		ND	ND	ND	ND	ND	ND
	09/28/07		ND	ND	ND	ND	ND	ND
	10/17/07		ND	ND	ND	ND	ND	ND
	11/08/07		21	ND	0.24	1.5	0.29	2.4
	11/16/07		ND	ND	ND	ND	ND	ND
	12/26/07		-	-	-	-	-	-
	01/18/08		ND	ND	ND	ND	ND	ND
	02/07/08		-	-	-	-	-	-
	03/18/08		ND	ND	ND	ND	ND	ND
	04/30/08		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
	05/29/08		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
	06/26/08		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
DL			**7.0**	**0.68**	**0.077**	**0.065**	**0.057**	**0.057**

NOTES:

TPH-g = total petroleum hydrocarbons as gasoline

MTBE = methyl tertiary-butyl ether

ppmv = parts per million by volume

% = percent concentration by volume

PRED = pre-dilution sample port at combined inlet

POSTD = post-dilution sample part at thermal/catalytic oxidizer inlet

- not sampled/analyzed

xx = methane sensor damaged; pending replacement

DL = detection limit for dilution factor of 1

TPH-g by EPA Method 8015C

BTEX & MTBE by EPA Method 8021B

1) Individual well water seperator trap used for the 1st time

2) Vacuum leak detected at wellhead due to broken wellhead seal

3) Pump failed, not strong enough to collect sample from PRED @ 18 in-Hg

4) Opened 100% for field screening, turned OFF after screening, no lab sample collected

5) Opened 100% for field screening, no lab sample collected

TABLE 6: HVDPE VAPOR FIELD SCREENING DATA SUMMARY (TVH, CH4, O2, & CO2)

Vic's Auto, 245 8th Street, Oakland, California

Sample Port ID	Date	Notes	Initial Valve Position (%OPEN)	Final Valve Position (%OPEN)	Manifold Vacuum (in-Hg)	TVH (ppmv)	CH4 (%)	O2 (%)	CO2 (%)
MW-1S	09/28/07	1,2	OFF	OFF	-	-	-	-	-
	10/17/07		100%	100%	-20.0	0.0	0.0	20.9	0.0
	11/07/07		100%	50%	-20.0	680	0.0	20.9	0.1
	11/16/07		50%	50%	-20.5	2,750	0.5	20.9	0.6
	12/04/07		50%	50%	-20.5	2,050	1.0	20.9	0.3
	12/26/07		50%	50%	-18.0	3,000	1.5	20.7	0.4
	01/15/08		50%	50%	-19.0	110	0.0	20.4	0.2
	01/22/08		100%	100%	-18.0	160	0.0	19.7	0.3
	01/31/08		OFF	OFF	-17.5	85	0.0	20.9	0.0
	02/07/08	3	OFF	OFF	-22.0	0.0	0.0	20.9	0.0
	03/14/08	5	100%	100%	-19.0	0.0	xx	20.9	0.1
	03/18/08		100%	100%	-14.0	0.0	xx	20.9	0.0
	03/28/08		100%	100%	-19.5	0.0	xx	21.0	0.1
	04/16/08	**6**	**100%**	**100%**	**-18.0**	**60**	**-**	**20.9**	**0.2**
	04/30/08		**OFF**	**OFF**	**-16.0**	**50**	**0.0**	**20.9**	**0.1**
	05/29/08		**OFF**	**OFF**	**-**	**-**	**-**	**-**	**-**
	06/26/08		**OFF**	**OFF**	**-**	**-**	**-**	**-**	**-**
MW-2S	09/28/07	1	100%	100%	-20.0	5,900	2.5	20.6	0.4
	10/17/07		100%	100%	-20.0	1,450	1.0	20.9	0.1
	11/07/07		100%	100%	-20.0	1,100	0.5	20.9	0.2
	11/16/07		100%	100%	-20.0	4,600	2.5	20.7	0.5
	12/04/07		100%	100%	-19.5	10,000	8.5	19.5	0.6
	12/26/07		100%	100%	-17.0	2,600	1.5	20.9	0.4
	01/15/08		100%	100%	-19.0	1,700	0.5	20.2	0.4
	01/22/08		100%	100%	-17.0	1,000	0.5	17.7	0.6
	01/31/08		100%	100%	-21.0	1,150	0.5	20.8	0.3
	02/07/08		100%	100%	-22.0	1,000	0.5	20.9	0.2
	03/14/08	5	100%	100%	-19.0	120	xx	12.0	1.8
	03/18/08		100%	100%	-14.0	100	xx	20.3	0.6
	03/28/08		100%	100%	-19.5	210	xx	20.9	0.5
	04/16/08	**6**	**100%**	**100%**	**-18.0**	**100**	**-**	**20.8**	**0.3**
	04/30/08		**100%**	**50%**	**-18.0**	**190**	**0.0**	**20.7**	**0.5**
	05/29/08		**OFF**	**OFF**	**-**	**-**	**-**	**-**	**-**
	06/26/08		**OFF**	**OFF**	**-**	**-**	**-**	**-**	**-**
MW-5S	09/28/07	1	100%	100%	-20.0	8,000	5.5	20.2	0.3
	10/17/07		100%	100%	-20.0	880	0.5	20.9	0.1
	11/07/07		100%	100%	-20.0	1,200	0.5	20.2	0.4
	11/16/07		100%	100%	-20.5	4,600	3.0	20.0	0.7
	12/04/07	3	OFF	OFF	-19.5	6,900	5.5	15.5	1.9
	12/26/07	3	OFF	OFF	-17.0	200	0.0	20.9	0.0
	01/15/08		OFF	OFF	-	-	-	-	-
	01/22/08		100%	100%	-16.0	300	0.0	18.0	0.4
	01/31/08		50%	50%	-21.0	740	0.0	20.7	0.4
	02/07/08		OFF	OFF	-	-	-	-	-
	03/14/08	5	100%	100%	-18.5	50	xx	17.0	0.6
	03/18/08		100%	100%	-16.5	0	xx	19.9	0.3
	03/28/08		100%	100%	-20.0	200	xx	20.9	0.4

TABLE 6: HVDPE VAPOR FIELD SCREENING DATA SUMMARY (TVH, CH4, O2, & CO2)

Vic's Auto, 245 8th Street, Oakland, California

Sample Port ID	Date	Notes	Initial Valve Position (%OPEN)	Final Valve Position (%OPEN)	Manifold Vacuum (in-Hg)	TVH (ppmv)	CH4 (%)	O2 (%)	CO2 (%)
cont.	**04/16/08**	**6**	**100%**	**100%**	**-18.0**	**30**	**-**	**20.7**	**0.2**
	04/30/08		**OFF**	**OFF**	**-16.0**	**250**	**0.0**	**19.4**	**1.0**
	05/29/08		**OFF**	**OFF**	-	-	-	-	-
	06/26/08		**OFF**	**OFF**	-	-	-	-	-
MW-6S	09/28/07	1	100%	100%	-20.0	>11,000	8.0	19.7	0.5
	10/17/07		100%	100%	-20.0	1,350	0.5	20.9	0.1
	11/07/07		100%	100%	-20.0	0	0.0	20.9	0.0
	11/16/07		100%	50%	-19.0	6,300	4.5	19.2	1.0
	12/04/07		50%	100%	-19.5	10,000	8.0	17.1	1.8
	12/26/07		100%	100%	-17.5	4,600	2.5	18.5	1.3
	01/15/08		100%	75%	-19.0	410	-	-	-
	01/22/08		75%	100%	-16.5	1,050	0.5	15.6	1.0
	01/31/08		50%	50%	-20.8	1,000	0.5	20.0	0.9
	02/07/08		-	-	-	-	-	-	-
	03/14/08	5	100%	100%	-18.5	110	xx	18.5	0.7
	03/18/08		100%	100%	-17.0	15	xx	20.5	0.1
	03/28/08		100%	100%	-19.0	125	xx	20.9	0.2
	04/16/08	**6**	**100%**	**100%**	**-18.0**	**0**	**-**	**20.9**	**0.0**
	04/30/08		**100%**	**100%**	**-18.0**	**140**	**0.0**	**20.7**	**0.7**
	05/29/08		**OFF**	**OFF**	-	-	-	-	-
	06/26/08	**7**	**OFF**	**100%**	**-23.0**	**210**	**0.0**	**19.8**	**0.4**
MW-7S	09/28/07	1	100%	100%	-20.0	11,000	19	20.0	0.5
	10/17/07		100%	100%	-20.0	0.0	0.0	20.9	0.0
	11/07/07		100%	100%	-20.0	4,200	3.0	20.9	0.4
	11/16/07		100%	50%	-20.5	10,000	8.0	20.5	0.4
	12/04/07		50%	100%	-19.5	14,000	14.0	19.1	0.8
	12/26/07		100%	100%	-17.5	5,500	3.0	20.4	0.5
	01/15/08		100%	75%	-19.0	1,150	0.5	20.9	0.3
	01/22/08		75%	100%	-16.0	2,050	1.0	18.2	0.4
	01/31/08		50%	50%	-21.0	670	0.0	20.9	0.3
	02/07/08		-	-	-	-	-	-	-
	03/14/08	5	100%	100%	-18.5	280	xx	14.4	1.0
	03/18/08		100%	100%	-14.0	390	xx	20.2	0.3
	03/28/08		100%	100%	-19.0	2,100	xx	20.0	0.0
	04/16/08	**6**	**100%**	**100%**	**-18.0**	**1,120**	**-**	**19.6**	**0.8**
	04/30/08		**100%**	**100%**	**-18.0**	**600**	**1.0**	**19.0**	**1.2**
	05/29/08		**OFF**	**OFF**	-	-	-	-	-
	06/26/08	**7**	**OFF**	**100%**	**-23.0**	**5,200**	**1.5**	**15.8**	**2.7**
MW-10S	11/21/07		100%	100%	-19.0	>44,000	43.0	17	2.2
	12/04/07		100%	100%	-20.0	7,650	6.5	19.2	0.5
	12/26/07		100%	100%	-18.0	3,900	2.5	19.4	0.5
	01/15/08		100%	100%	-19.0	1,900	1.0	18.9	0.7
	01/22/08		100%	100%	-16.5	1,850	0.5	16.1	0.5
	01/31/08		100%	50%	-21.0	440	0.0	20.9	0.0
	02/07/08		-	-	-	-	-	-	-
	03/14/08	5	100%	100%	-18.0	170	xx	16.7	0.5
	03/18/08		100%	100%	-14.0	270	xx	19	0.9
	03/28/08		100%	100%	-19.0	215	xx	20.9	0.1

TABLE 6: HVDPE VAPOR FIELD SCREENING DATA SUMMARY (TVH, CH4, O2, & CO2)

Vic's Auto, 245 8th Street, Oakland, California

Sample Port ID	Date	Notes	Initial Valve Position (%OPEN)	Final Valve Position (%OPEN)	Manifold Vacuum (in-Hg)	TVH (ppmv)	CH4 (%)	O2 (%)	CO2 (%)
cont.	**04/16/08**	**6**	**100%**	**100%**	**-18.0**	**0**	**-**	**20.9**	**0.0**
	04/30/08		**100%**	**100%**	**-18.0**	**310**	**0.5**	**19.6**	**0.9**
	05/29/08		**100%**	**100%**	**-18.0**	**1,750**	**0.0**	**19.6**	**0.8**
	06/26/08		**100%**	**100%**	**-23.0**	**370**	**0.0**	**20.7**	**0.1**
MW-11S	11/21/07		100%	100%	-19.0	36,600	26.5	19.2	2.2
	12/04/07		100%	50%	-19.5	430	0.0	20.9	0.1
	12/26/07		50%	100%	-18.0	1350	0.5	20.9	0.2
	01/15/08		100%	100%	-19.0	1000	0.5	20.2	0.2
	01/22/08		100%	100%	-16.0	1,000	0.5	18.7	0.2
	01/31/08		50%	50%	-21.0	1,050	0.5	19.4	0.5
	02/07/08		-	-	-	-	-	-	-
	03/14/08	5	100%	100%	-19.0	260	xx	17.3	0.5
	03/18/08		100%	100%	-14.5	130	xx	20.0	0.3
	03/28/08		100%	100%	-20.0	60	xx	20.9	0.2
	04/16/08	**6**	**100%**	**100%**	**-18.0**	**0**	**-**	**20.9**	**0.1**
	04/30/08		**100%**	**100%**	**-18.0**	**120**	**0.0**	**20.9**	**0.2**
	05/29/08		**100%**	**100%**	**-18.0**	**950**	**0.0**	**20.9**	**0.3**
	06/26/08		**100%**	**100%**	**-23.0**	**480**	**0.0**	**20.9**	**0.1**
MW-12S	11/21/07		50%	50%	-19.0	110	0.0	20.9	0.7
	12/04/07		50%	50%	-20.0	1,350	0.5	20.9	0.2
	12/26/07		50%	50%	-18.0	710	0.0	20.9	0.1
	01/15/08		50%	50%	-19.0	945	0.0	20.6	0.3
	01/22/05		100%	100%	-15.0	630	0.0	19.3	0.2
	01/31/08		50%	50%	-21.5	1,100	0.0	20.9	0.2
	02/07/08		-	-	-	-	-	-	-
	03/14/08	5	100%	100%	-19.0	20	xx	20.3	0.2
	03/18/08		100%	100%	-14.0	0.0	xx	20.9	0.0
	03/28/08		100%	100%	-20.0	0.0	xx	21.0	0.1
	04/16/08	**6**	**100%**	**100%**	**-18.0**	**0.0**	**-**	**20.9**	**0.2**
	04/30/08		**100%**	**100%**	**-18.0**	**65**	**0.0**	**20.9**	**0.2**
	05/29/08		**100%**	**100%**	**-18.0**	**150**	**0.0**	**20.9**	**0.3**
	06/26/08		**100%**	**100%**	**-23.0**	**140**	**0.0**	**20.9**	**0.1**
AS	06/28/07		100%	100%	-	0.0	0.0	12.3	5.4
	10/17/07		100%	100%	-	0.0	0.0	20.9	0.0
	11/07/07		100%	100%	-	0.0	0.0	20.9	0.0
	11/08/07		100%	100%	-	0.0	0.0	20.9	0.0
	11/16/07		100%	100%	-	0.0	0.0	20.9	0.0
	12/04/07		100%	100%	-	-	-	-	-
	01/15/08		100%	100%	-	-	-	-	-
	01/22/08		100%	100%	-	0.0	0.0	20.9	0.0
	02/07/08		100%	100%	-	0	0.0	20.9	0.0
	03/14/08	5	100%	100%	-	0.0	xx	20.9	0.0
	03/18/08		100%	100%	-	0.0	xx	20.9	0.0
	03/28/08		100%	100%	-	0.0	xx	20.9	0.0
	04/16/08	**6**	**100%**	**100%**	**-**	**0**	**-**	**20.9**	**0.0**
	04/30/08		**100%**	**100%**	**-**	**10**	**0.0**	**20.9**	**0.0**
	05/29/08		**100%**	**100%**	**-**	**60**	**0.0**	**20.9**	**0.0**
	06/26/08		**100%**	**100%**	**-**	**10**	**0.0**	**20.9**	**0.0**

TABLE 6: HVDPE VAPOR FIELD SCREENING DATA SUMMARY (TVH, CH4, O2, & CO2)

Vic's Auto, 245 8th Street, Oakland, California

Sample Port ID	Date	Notes	Initial Valve Position (%OPEN)	Final Valve Position (%OPEN)	Manifold Vacuum (in-Hg)	TVH (ppmv)	CH4 (%)	O2 (%)	CO2 (%)
PRED	06/28/07		-	-	-18.5	-	-	-	-
	06/29/07		-	-	-18.5	-	-	-	-
	07/03/07		-	-	-18.0	-	-	-	-
	07/11/07		-	-	-21.5	10,750	-	-	-
	07/27/07		-	-	-20.0	>11,000	-	-	-
	08/01/07		-	-	-19.0	6,000	9.1	18.5	1.1
	08/10/07		-	-	-21.0	-	-	-	-
	09/28/07		-	-	-20.0	5,700	3.5	20.7	0.3
	10/17/07		-	-	-21.0	9,050	6.5	20.1	0.6
	11/07/07		-	-	-19.0	40	0.0	20.9	0.0
	11/08/07		-	-	-21.0	0	0.0	20.9	0.0
	11/16/07		-	-	-21.0	3,050	2.0	20.7	0.4
	11/16/07		-	-	-21.0	6,100	4.5	20.3	0.7
	11/21/07		-	-	-19.0	12,000	13.5	19.4	1.2
	12/04/07		-	-	-20.0	10,500	9.5	18.8	0.9
	12/26/07		-	-	-18.0	3,650	2.0	20.9	0.5
	01/08/08	4	-	-	-18.0	-	-	-	-
	01/15/08		-	-	-19.0	710	0.0	20	0.3
	01/22/08		-	-	-18.0	800	0.0	17.8	0.5
	01/31/08		-	-	-21.0	1,250	0.5	20.9	0.5
	02/07/08		-	-	-21.5	700	0.0	20.9	0.4
	03/14/08	5	-	-	-19.0	160	xx	15.3	0.9
	03/18/08		-	-	-14.5	60	xx	20.9	0.2
	03/28/08		-	-	-20.0	230	xx	20.9	0.2
	04/16/08	**6**	**-**	**-**	**-18.0**	**80**	**-**	**20.9**	**0.2**
	04/30/08		**-**	**-**	**-18.0**	**280**	**0.5**	**20.2**	**0.0**
	05/29/08		**-**	**-**	**-18.0**	**1,500**	**0.0**	**19.6**	**0.8**
	06/26/08		**-**	**-**	**-23.0**	**280**	**0.5**	**20.2**	**0.0**
POSTD	06/28/07		-	-	-	10,000	6.5	18.2	1.4
	06/29/07		-	-	-	2,450	3.5	19.3	0.9
	07/03/07		-	-	-	11,300	13.5	17.2	1.9
	07/11/07		-	-	-	3,550	-	-	-
	07/27/07		-	-	-	4,550	-	-	-
	08/01/07		-	-	-	10,000	9.1	18.5	1.1
	08/10/07		-	-	-	4,800	2.0	19.9	0.5
	09/28/07		-	-	-	6,750	4.0	20.7	0.3
	10/17/07		-	-	-	4,500	2.5	20.9	0.0
	11/07/07		-	-	-	1,550	1.0	20.7	0.3
	11/08/07		-	-	-	1,300	1.0	20.9	0.4
	11/16/07		-	-	-	4,150	2.0	20.5	0.4
	11/21/07		-	-	-	8,600	7.5	20.5	0.8
	12/04/07		-	-	-	6,500	5.0	19.8	0.6
	12/26/07		-	-	-	2,000	1.0	20.9	0.3
	01/08/08		-	-	-	1,200	0.5	20.9	0.3
	01/15/08		-	-	-	45	0.0	20.7	0.0
	01/22/08		-	-	-	280	0.0	20.2	0.0
	01/31/08		-	-	-	470	0.0	20.9	0.1
	02/07/08		-	-	-	120	0.0	20.9	0.0

TABLE 6: HVDPE VAPOR FIELD SCREENING DATA SUMMARY (TVH, CH4, O2, & CO2)

Vic's Auto, 245 8th Street, Oakland, California

Sample Port ID	Date	Notes	Initial Valve Position (%OPEN)	Final Valve Position (%OPEN)	Manifold Vacuum (in-Hg)	TVH (ppmv)	CH4 (%)	O2 (%)	CO2 (%)
cont.	03/14/08	5	-	-	-	75	xx	20.2	0.4
	03/18/08		-	-	-	10	xx	20.9	0.1
	03/28/08		-	-	-	10	xx	22.9	0.0
	04/16/08	**6**	**-**	**-**	**-**	**80**	**-**	**20.9**	**0.2**
	04/30/08		**-**	**-**	**-**	**55**	**0.0**	**20.9**	**0.2**
	05/29/08		**-**	**-**	**-**	**630**	**0.0**	**20.7**	**0.2**
	06/26/08		**-**	**-**	**-**	**55**	**0.0**	**20.9**	**0.2**
STACK	06/28/07		-	-	-	0	0.0	12.3	5.4
	07/27/07		-	-	-	-	-	-	-
	08/10/07		-	-	-	-	-	-	-
	09/28/07		-	-	-	0	0.0	14.0	4.5
	10/17/07		-	-	-	-	-	-	-
	11/08/07		-	-	-	-	-	-	-
	11/16/07		-	-	-	0.0	0.0	14.8	4.8
	12/26/07		-	-	-	-	-	-	-
	01/18/08		-	-	-	-	-	-	-
	02/07/08		-	-	-	0	0.0	19.0	1.7
	03/14/08		-	-	-	0	xx	17.9	2.0
	03/18/08		-	-	-	0	xx	18.0	1.9
	03/28/08		-	-	-	0	xx	18.3	1.8
	04/16/08	**6**	**-**	**-**	**-**	**0**	**-**	**18.4**	**1.6**
	04/30/08		**-**	**-**	**-**	**0**	**0.0**	**17.7**	**2.0**
	05/29/08		**-**	**-**	**-**	**0**	**0.0**	**17.7**	**2.5**
	06/26/08		**-**	**-**	**-**	**0**	**0.0**	**17.9**	**1.9**
DL	**-**	**-**	**-**	**-**	**0.5**	**5.0**	**0.1**	**0.1**	**0.1**

NOTES:

- not sampled/analyzed
in-Hg = inches of mercury
ppmv = parts per million by volume
% = percent concentration by volume
xx = methane sensor damaged; pending replacement
DL = detection limit for dilution factor of 1

TVH = total volatile hydrocarbons (calibrated w/ hexane)
CH4 = methane by infrared detection (0 to 100% by volume)
O2 = oxygen by electrochemical detection (0-40% by volume)
CO2 = carbon dioxide by infrared detection (0 to 20% by volume)
TVH, CH4, O2, and CO2 measured RKI Eagle gas detector

1) Individual well water seperator trap used for the 1st time
2) Vacuum leak detected at wellhead due to broken wellhead seal
3) Opened 100% for sampling, turned OFF after sampling
4) Pump failed, not strong enough to collect sample from PRED @ 18 in-Hg
5) First samples collected after system was shutdown on February 12, 2008 prior to groundwater and soil gas monitoring event
6) All readings with GasTech GT409 gas detector
7) Opened 100% for sampling, left 100% OPEN after sampling
8)
9)
10)

TABLE 7: GROUNDWATER TREATMENT SYSTEM SAMPLE ANALYTICAL DATA

Vic's Auto, 245 8th Street, Oakland, California

Sample ID	Sample Date	Notes	TOG (mg/L)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)
INF	06/26/07	1	-	20,000	<1500	1,400	2,300	350	3,000
	06/27/07		-	25,000	1,300	2,300	3,400	490	3,100
	06/28/07		-	28,000	1,500	2,300	4,800	540	3,300
	07/12/07		-	8,300	150	660	1,500	120	1,300
	08/22/07	2	-	16,000	130	610	2,000	300	2,400
	10/17/07	3,4	-	25,000	<250	990	3,000	380	3,600
	11/07/07		-	21,000	<500	730	2,600	300	4,800
	12/12/07	5	-	75,000	<250	1,200	9,900	1,700	12,000
	01/08/08		-	12,000	320	260	1,100	170	2,900
	03/18/08		-	4,100	480	150	240	52	520
	04/01/08		-	**2,400**	**60**	**37**	**140**	**20**	**390**
	04/30/08		-	**8,600**	**170**	**150**	**630**	**160**	**2,200**
	05/29/08		-	**13,000**	**310**	**140**	**470**	**170**	**1,800**
	06/26/08			**7,600**	**260**	**130**	**360**	**82**	**1,100**
POST-AS	06/26/07	1	-	1,000	92	19	34	6.8	48
	06/27/07		-	420	45	7.8	13	2.1	22
	06/28/07		-	6,400	570	610	890	59	750
	07/12/07		-	-	-	-	-	-	-
	08/22/07	2	-	5,300	100	610	2,000	300	2,400
	10/17/07	3,4	-	84	12	0.90	2.6	<0.5	7
	11/07/07		-	120	41	0.71	1.9	<0.5	12
	12/12/07	5	-	65,000	<250	210	3,400	1,300	11,000
	01/08/08		-	130	55	0.85	2.8	<0.5	12
	03/18/08		-	120	190	2.5	3.5	0.77	7.2
	04/01/08		-	**140**	**<5.0**	**5.6**	**0.60**	**<0.5**	**1.7**
	04/30/08		-	**<50**	**11**	**0.56**	**<0.5**	**<0.5**	**1.1**
	05/29/08		-	**100**	**20**	**<0.5**	**<0.5**	**<0.5**	**6.7**
	06/26/08		-	**70**	**27**	**<0.5**	**1.1**	**<0.5**	**6.3**
POST-C1	06/26/07	1	-	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	08/22/07	2	-	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	10/17/07	3,4	-	<50	<5.0	<0.5	<0.5	<0.5	<0.5
EFF	06/26/07	1	<5.0	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	08/22/07	2	-	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	10/17/07	3,4	-	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	11/07/07		-	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	12/12/07	5	-	<50	17	<0.5	<0.5	<0.5	<0.5
	01/08/08		-	<50	17	<0.5	<0.5	<0.5	<0.5
	03/18/08	6	<5.0	<50	50	<0.5	<0.5	<0.5	<0.5
	04/01/08		-	-	-	-	-	-	-
	04/30/08		**<5.0**	**<50**	**30**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
	05/29/08		-	**<50**	**27**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
	06/26/08		-	**<50**	**37**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
DL	-	-	**5.0**	**50**	**5.0**	**0.5**	**0.5**	**0.5**	**0.5**

NOTES:

- not sampled/analyzed

µg/L = micrograms per liter or parts per billion (ppb)

mg/L = milligrams per liter or parts per million (ppm)

TOG = total oil and grease hydrocarbon

TPH-g = total petroleum hydrocarbons as gasoline

MTBE = methyl tertiary-butyl ether

DL = detection limit for dilution factor of 1

TOG by EPA Method 1664 HEM-SGT

TPH-g by EPA Method 8015C

BTEX & MTBE by EPA Method 8021B

1) System startup and first dischrage to sanitary sewer
2) Bag filter (LCO8) pre-filter for sediment rremoval installed and started up on 08/17/07
3) 1,000-pound (PV-1000) carbon absorber (up to 75 psig) installed on 10/5/07 and started up on 10/9/07
4) 200-pound (ASC-200) carbon absorber (i.e., C-2) taken offline permanently on 10/25/07
5) Extraction wells MW-10, MW-11, and MW-12 brought online 11/20/07
6) Metal analysis no longer required per email from EBMUD, dated January 31, 2008

TABLE 8: SOIL GAS FIELD SCREENING DATA SUMMARY (TVH, CH4, O2, & CO2)

Vic's Auto, 245 8th Street, Oakland, California

Soil Gas Probe ID	Date	Notes	Vacuum Influence (in-H2O)	Purge Vacuum (in-H2O)	TVH (ppmv)	CH4 (%)	O2 (%)	CO2 (%)
GP-1-5'	05/17/07	4	0.00	-	0.11	0.0	18.0	2.2
	06/12/07		0.00	-	0.0	0.0	18.6	2.4
	08/01/07		0.40	-	0.0	0.0	20.9	0.0
	08/10/07		0.35	-	0.0	0.0	20.9	0.0
	10/05/07		0.00	-	0.0	0.0	20.9	0.3
	11/07/07		0.24	1.50	0.0	0.0	20.9	0.0
	11/21/07		0.84	1.50	0.0	0.0	20.9	0.0
	03/28/08		<0.10	>50	0.0	xx	20.9	0.0
	04/30/08	5	**0.00**	**<1.00**	**0.0**	**0.0**	**20.9**	**0.1**
GP-1-10'	05/17/07	4	0.00	-	-	-	-	-
	06/12/07		0.00	-	0.0	0.0	18.7	2.2
	08/01/07		0.44	-	0.0	0.0	20.9	0.0
	08/10/07		0.38	-	0.0		20.9	0.0
	10/05/07		0.00	-	0.0	0.0	20.9	0.3
	11/07/07		0.27	2.00	0.0	0.0	20.9	0.0
	11/21/07		0.59	1.50	0.0	0.0	20.9	0.0
	03/28/08	1	-	-	-	-	-	-
	04/30/08	5	**0.14**	**<1.00**	**0.0**	**0.0**	**20.9**	**0.1**
GP-2-5'	05/17/07	4	0.00	-	0.14	0.0	19.0	1.5
	06/12/07		0.00	-	0.0	0.0	19.0	1.7
	08/01/07		0.00	-	0.0	0.0	20.9	0.3
	08/10/07		0.04	-	0.0	0.0	20.9	0.2
	10/05/07		0.00	-	0.0	0.0	20.9	0.1
	11/07/07		0.08	4.00	0.0	0.0	20.9	0.0
	11/21/07		0.04	1.50	0.0	0.0	20.9	0.0
	03/28/08	1	-	-	-	-	-	-
	04/30/08	5	**0.01**	**2.00**	**0.0**	**0.0**	**20.9**	**0.0**
GP-2-10'	05/17/07	4	0.00	-	0.18	0.0	18.0	1.5
	06/12/07	2	0.00	-	-	-	-	-
	08/01/07		0.08	-	0.0	0.0	20.8	0.5
	08/10/07		0.00	-	0.0	0.0	20.9	0.2
	10/05/07		0.00	-	0.0	0.0	20.9	0.1
	11/07/07		<0.10	24.0	0.0	0.0	20.9	0.0
	11/21/07		1.70	35.0	0.0		20.9	0.0
	03/28/08	1	-	-	-	-	-	-
	04/30/08	5	**3.50**	**2.00**	**0.0**	**0.0**	**20.9**	**0.0**
GP-3-5'	05/17/07	4	0.00	-	0.14	0.0	20.0	0.48
	06/12/07		0.00	-	0.0	0.0	20.9	0.4
	08/10/07		0.01	-	0.0	0.0	20.9	0.3
	10/05/07		0.00	-	0.0	0.0	20.9	0.2
	11/07/07		<0.10	1.00	0.0	0.0	20.9	0.2
	11/21/07		0.05	1.00	0.0	0.0	20.9	0.0
	03/28/08		<0.10	43.0	0.0	xx	20.5	0.1
	04/30/08	5	**0.02**	**<1.00**	**0.0**	**0.0**	**20.9**	**0.1**

TABLE 8: SOIL GAS FIELD SCREENING DATA SUMMARY (TVH, CH4, O2, & CO2)

Vic's Auto, 245 8th Street, Oakland, California

Soil Gas Probe ID	Date	Notes	Vacuum Influence (in-H2O)	Purge Vacuum (in-H2O)	TVH (ppmv)	CH4 (%)	O2 (%)	CO2 (%)
GP-3-10'	05/17/07	4	0.00	-	0.37	0.0	2.4	3.4
	06/12/07		0.00	-	0.0	0.0	10.5	1.8
	08/10/07		0.16	-	0.0	0.0	16.8	2.2
	10/05/07		0.00	-	0.0	0.0	20.8	1.2
	11/07/07		0.30	55.0	0.0	0.0	20.9	0.5
	11/21/07		5.20	47.0	0.0	0.0	20.9	0.2
	03/28/08	3	1.00	>150	0.0	xx	20.0	0.0
	04/30/08	**5**	**9.00**	**110**	**0.0**	**0.0**	**20.9**	**0.1**
GP-4-5'	05/17/07	4	0.00	-	0.21	0.0	20.0	0.7
	06/12/07		0.00	-	0.0	0.0	20.8	0.6
	08/10/07		0.02	-	0.0	0.0	20.9	0.4
	10/05/07		0.00	-	0.0	0.0	20.9	0.5
	11/07/07		<0.10	0.85	0.0	0.0	20.9	0.3
	11/21/07		0.00	0.50	0.0	0.0	20.9	0.0
	03/28/08		<0.10	47.0	0.0	xx	20.0	0.0
	04/30/08	**5**	**0.02**	**<1.00**	**0.0**	**0.0**	**20.9**	**0.2**
GP-4-10'	05/17/07	4	0.00	-	-	-	-	-
	06/12/07	2	0.00	-	-	-	-	-
	08/10/07		0.08	-	0.0	0.0	20.4	0.2
	10/05/07		0.00	-	0.0	0.0	20.9	0.5
	11/07/07		<0.1	80.0	0.0	0.0	20.9	0.3
	11/21/07		<0.1	>50.0	0.0	0.0	20.9	0.0
	03/28/08	2,3	<0.1	>150	0.0	xx	20.5	0.0
	04/30/08	**1,5**	**0.20**	**>150**	**-**	**-**	**-**	**-**
DL	**-**	**-**	**varies**	**varies**	**5.0**	**0.1**	**0.1**	**0.1**

NOTES:

- not sampled/analyzed
in-H20 = inches of water
ppmv = parts per million by volume
% = percent concentration by volume
xx = methane sensor damaged; pending replacement
DL = detection limit for dilution factor of 1

TVH = total volatile hydrocarbons (calibrated w/ hexane)
CH4 = methane
O2 = oxygen
CO2 = carbon dioxide
TVH, CH4, O2, and CO2 measured w/ RKI Eagle gas detector

1) Soil gas sample collection not possible due to wet or saturated soil conditions
2) Moisture present within the sample tubing
3) High purge vacuum may indicate wet or saturated soil conditions
4) TPH-g by modified EPA Method TO-3 GC/FID and CH4, O2, and CO2 by modified method ASTM D-1946 GC/FID or GC/TCD
5) Soil gas probe screened for TVH, CH4, O2, and CO2 approximaltey one week prior to sampling for vapor intrusion evaluation

TABLE 9: WELLHEAD VACUUM & DROP TUBE DEPTH DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Date	MW-1			MW-2			MW-5			MW-6			MW-7		
	Casing Vacuum (in-Hg)	Stinger Vacuum (in-Hg)	Stinger Depth (ft toc)	Casing Vacuum (in-Hg)	Stinger Vacuum (in-Hg)	Stinger Depth (ft toc)	Casing Vacuum (in-Hg)	Stinger Vacuum (in-Hg)	Stinger Depth (ft toc)	Casing Vacuum (in-Hg)	Stinger Vacuum (in-Hg)	Stinger Depth (ft toc)	Casing Vacuum (in-Hg)	Stinger Vacuum (in-Hg)	Stinger Depth (ft toc)
06/26/07	1.5	8.0	15.0	6.0	9.0	15.0	-	OFF	-	5.5	10.0	15.0	6.5	10.0	15.0
06/27/07	2.0	7.0	15.0	5.5	9.0	15.0	-	OFF	-	5.0	9.5	15.0	5.0	9.5	15.0
06/28/07	1.5	8.0	15.0	5.0	10.0	15.0	-	OFF	-	5.0	9.0	15.0	6.0	10.0	15.0
07/12/07	2.0	8.0	15.0	6.0	9.0	15.0	10.0	12.0	15.0	5.0	10.0	15.0	6.0	10.0	15.0
08/01/07	1.5	7.0	15.0	5.5	10.0	15.0	-	OFF	-	5.0	9.5	15.0	5.5	11.0	15.0
08/10/07	5.0	10.0	17.0	9.5	16.0	17.0	-	OFF	-	10.0	12.5	17.0	9.0	15.5	17.0
09/11/07	5.5	17.0	16.0	5.5	16.5	16.0	-	OFF	-	9.0	10.0	19.5	8.0	12.0	19.5
09/28/07	3.0	7.5	24.0	8.0	17.0	20.0	2.5	8.0	20.0	16.0	17.0	20.0	9.0	15.0	20.0
10/01/07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/21/07	3.0	10.0	25.0	11.0	15.0	21.0	n/a	OFF	-	12.0	12.0	20.0	OBSTRUCTED		
12/26/07	-	OFF	-	OBSTRUCTED			n/a	OFF	-	18.0	13.5	20.0	11.5	15.5	20.0
01/15/08	-	OFF	-	11.0	14.0	21.0	n/a	OFF	-	16.5	11.5	20.0	12.0	14.0	20.0
02/07/08	5.0	9.5	25.0	10.0	13.0	20.0	n/a	OFF	-	15.5	14.0	19.0	15.5	21.0	20.0
03/18/08	9.0	10.0	25.0	5.5	11.5	19.0	n/a	9.5	21.0	8.0	9.5	20.0	8.5	12.0	21.0
04/24/08	**7.0**	**7.0**	**25.0**	**3.0**	**7.0**	**19.0**	**-**	**7.0**	**21.0**	**5.0**	**5.0**	**21.0**	**4.0**	**7.0**	**21.0**
05/29/08	**0.0**	**0.0**	**25.0**	**0.0**	**0.0**	**19.0**	**0.0**	**0.0**	**21.0**	**0.0**	**0.0**	**21.0**	**0.0**	**0.0**	**21.0**
06/26/08	**0.0**	**0.0**	**25.0**	**0.0**	**0.0**	**20.0**	**0.0**	**0.0**	**22.0**	**0.0**	**0.0**	**21.0**	**0.0**	**0.0**	**21.0**

NOTES:

in-Hg = inches of mercury (gauge pressure)

ft toc = dpeth in feet as measured from the top of the well casing

TABLE 9: WELLHEAD VACUUM & DROP TUBE DEPTH DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Date	MW-10			MW-11			MW-12								
	Casing Vacuum (in-Hg)	Stinger Vacuum (in-Hg)	Stinger Depth (ft toc)	Casing Vacuum (in-Hg)	Stinger Vacuum (in-Hg)	Stinger Depth (ft toc)	Casing Vacuum (in-Hg)	Stinger Vacuum (in-Hg)	Stinger Depth (ft toc)	Casing Vacuum (in-Hg)	Stinger Vacuum (in-Hg)	Stinger Depth (ft toc)	Casing Vacuum (in-Hg)	Stinger Vacuum (in-Hg)	Stinger Depth (ft toc)
06/28/07	-	-	-	-	-	-	-	-	-						
07/12/07	-	-	-	-	-	-	-	-	-						
08/01/07	-	-	-	-	-	-	-	-	-						
08/10/07	-	-	-	-	-	-	-	-	-						
09/11/07	-	-	-	-	-	-	-	-	-						
09/28/07	-	-	-	-	-	-	-	-	-						
10/01/07	-	-	-	-	-	-	-	-	-						
11/21/07	n/a	13.0	18.0	n/a	11.0	19.0	n/a	14.0	19.0						
12/26/07	n/a	11.0	18.0	n/a	10.5	19.0	n/a	14.5	19.0						
01/15/08	n/a	10.0	18.0	n/a	9.0	19.0	n/a	12.0	19.0						
02/01/08	n/a	9.0	18.0	n/a	10.0	19.0	n/a	15.0	19.0						
03/18/08	n/a	7.5	18.0	n/a	9.0	19.0	n/a	9.0	20.5						
04/24/08	**n/a**	**0.0**	**18.0**	**n/a**	**0.0**	**19.0**	**n/a**	**4.0**	**19.0**						
05/29/08	**n/a**	**11.0**	**20.0**	**n/a**	**14.0**	**20.0**	**n/a**	**13.0**	**20.0**						
06/26/08	**n/a**	**12.0**	**20.0**	**n/a**	**15.0**	**20.0**	**n/a**	**14.0**	**20.0**						

NOTES:

in-Hg = inches of mercury (gauge pressure)

ft toc = dpeth in feet as measured from the top of the well casing

n/a = casing vacuum gauges not installed at this well

TABLE 10: HVDPE PERFORMANCE & MASS REMOVAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Sample Date	Notes	Possible Runtime (days)	Possible Runtime (hrs)	Hour Meter Reading	Actual Runtime (days)	Actual Runtime (hrs)	System Runtime (%)	Inlet Temp (°F)	Inlet Vac (in-Hg)	Well Velocity (fpm)	Well Flow (scfm)	PRED TPH-g (ppmv)	Mass Removal Rate (lbs/day)	Total Mass Removed (pounds)	Total Mass Removed (gallons)
06/28/07	1 Startup	-	-	10	-	-	-	60	18	850	42	-	-	-	-
07/11/07		13	312	53	2	43	14%	60	22	1,725	85	6,600	224	402	67
07/27/07		16	384	103	2	51	13%	60	20	1,700	83	11,000	368	1,180	197
08/01/07		5	120	160	2	57	47%	60	19	1,900	93	5,500	206	1,668	278
08/10/07	2,3	9	216	350	8	189	88%	60	22	1,800	88	7,700	273	3,820	637
09/28/07	4	49	1176	896	23	546	46%	60	20	1,700	83	4,000	134	6,865	1,144
10/17/07		19	456	1,239	14	343	75%	60	21	1,100	54	5,100	110	8,446	1,408
11/08/07		22	528	1,709	20	470	89%	60	22	1,100	54	4,000	87	10,141	1,690
11/16/07		8	192	1,874	7	166	86%	60	21	1,100	54	6,000	130	11,038	1,840
11/21/07	5	5	120	1,994	5	120	100%	60	20.5	1,500	74	2,500	74	11,407	1,901
12/04/07		13	312	2,231	10	236	76%	60	20	1,150	56	7,900	179	13,168	2,195
12/26/07		22	528	2,566	14	335	63%	60	18	1,300	64	4,100	105	14,633	2,439
01/15/08		20	480	3,016	19	451	94%	60	19	1,200	59	1,900	45	15,476	2,579
01/22/08	6,7	7	168	3,064	2	48	29%	60	18	1,500	74	1,900	56	15,589	2,598
01/31/08		9	216	3,276	9	212	98%	60	20	1,250	61	2,200	54	16,067	2,678
02/07/08		7	168	3,443	7	167	99%	60	22	1,100	54	2,000	43	16,368	2,728
03/18/08	8,9	40	960	3,653	9	210	22%	60	15	1,400	69	630	17	16,520	2,753
04/01/08		**14**	**336**	**3,952**	**12**	**299**	**89%**	**60**	**19**	**1,500**	**74**	**2,100**	**62**	**17,292**	**2,882**
04/30/08		**29**	**696**	**4,591**	**27**	**639**	**92%**	**60**	**19**	**1,900**	**93**	**2,100**	**79**	**19,383**	**3,231**
05/29/08		**29**	**696**	**4,978**	**16**	**387**	**56%**	**60**	**19.5**	**900**	**44**	**2,100**	**37**	**19,983**	**3,331**
06/26/08		**28**	**672**	**5,489**	**21**	**511**	**76%**	**60**	**23**	**1,200**	**59**	**860**	**20**	**20,416**	**3,403**
AVG	-	-	-	-	-	-	-	**78%**	**60**	**20**	**1,375**	**68**	**1,790**	**50**	-	-

NOTES:

ppmv = parts per million by volume
TPH-g = total petroluem hydrocarbons as gasoline
TPH-g by EPA Method 8015C
in-Hg = inches of mercury (gauge pressure)

hrs = hours
- not analyzed/applicable
fpm = feet per minute
scfm = standard cubic feet per minute

Flow = Velocity x Cross Sectional Area of the Pipe
Cross Sectional Area of 3" Pipe = 0.0491 ft^2
Well Flow = Well Velocity * 0.0491
PRED = TPH-g influent concentration

1) System installed and started up on June 26, 2007
2) Propane delivery missed; system shutdown on 08/06/07
3) Propane delivery missed; system shutdown on 08/21/07
4) System down between 09/11 and 09/24/08 due to electrical problems
5) System expanded; MW-10, MW-11 and MW-12 extraction added online
6) Propane delivery missed; system shutdown on 01/02/08
7) Propane delivery missed; system shutdown on 01/22/08
8) System shutdown most of February to evaluate free product recovery
9) Catalyst module installed and started up in March
10)

MASS REMOVAL RATE (MRR) ESTIMATE ASSUMPTIONS:

MRR Estimate = (20,000*10^-6)*(50scfm)*(1440min/day)*(28.32L/ft^3)*(1mol/22.4L)*(100g/mol)*(1lb/454g)
Negligible change in air density, constant concentration and average molecular weight
1 mole occupies 22.4 Liters at STP
STP is 21°C and 1 atm
MWgas = 100 grams/mole (weathered gasoline)
1 day = 1440 minutes

1ft^3 = 28.38 liters
1 lb = 454 grams
1 gallon gas ~ 6 pounds

AVG = average values in red for the current reporting period

Project No. 116907

TABLE 11: THERMAL/CATALYTIC OXIDIZER PERFORMANCE & MASS REMOVAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Sample Date	Notes	Possible Runtime (days)	Possible Runtime (hrs)	Hour Meter Reading	Actual Runtime (days)	Actual Runtime (hrs)	System Runtime (%)	Preheat Temp (°F)	Exhaust Temp (°F)	Total Velocity (fpm)	Total Flow (scfm)	POSTD TPH-g (ppmv)	STACK TPH-g (ppmv)	Abatement Efficiency (%)	TPH-g Destruction Rate (lbs/day)	Total TPH-g Destroyed (pounds)	Total TPH-g Destroyed (gallons)	Total TPH-g Destroyed (btu)
06/28/07	1 Startup	-	-	10	0.4	10	-	1,430	1,427	2,150	106	3,800	3.5	99.91%	161	65	11	1,233,826
07/11/07		13	312	53	2	43	14%	1,478	1,392	2,625	129	1,400	3.5	99.75%	72	195	32	3,701,491
07/27/07		16	384	103	2	51	13%	1,428	1,386	2,600	128	3,400	3.5	99.90%	174	562	94	10,692,358
08/01/07		5	120	160	2	57	47%	1,425	1,377	2,800	137	2,500	3.5	99.86%	138	890	148	16,916,123
08/10/07	2,3	9	216	350	8	189	88%	1,411	1,341	2,000	98	5,300	3.5	99.93%	209	2,535	422	48,204,535
09/28/07	4	49	1176	896	23	546	46%	1,471	1,438	3,000	147	4,800	3.5	99.93%	284	8,984	1,497	170,844,523
10/17/07		19	456	1,239	14	343	75%	1,409	1,365	2,400	118	1,800	3.5	99.81%	85	10,201	1,700	193,992,681
11/08/07		22	528	1,709	20	470	89%	1,412	1,342	2,000	98	2,000	21	98.95%	79	11,742	1,957	223,297,250
11/16/07		8	192	1,874	7	166	86%	1,408	1,347	2,000	98	3,600	3.5	99.90%	142	12,721	2,120	241,905,549
11/21/07	5	5	120	1,994	5	120	100%	1,412	1,308	2,400	118	5,500	3.5	99.94%	260	14,022	2,337	266,642,477
12/04/07		13	312	2,231	10	236	76%	1,416	1,312	2,050	101	1,300	3.5	99.73%	52	14,538	2,423	276,461,730
12/26/07		22	528	2,566	14	335	63%	1,408	1,352	2,200	108	1,700	3.5	99.79%	74	15,566	2,594	296,020,076
01/15/08		20	480	3,016	19	451	94%	1,411	1,357	2,100	103	620	3.5	99.44%	26	16,048	2,675	305,174,194
01/22/08	6,7	7	168	3,064	2	48	29%	1,407	1,348	2,400	118	1,100	3.5	99.68%	52	16,152	2,692	307,153,643
01/31/08		9	216	3,276	9	212	98%	1,348	1,267	2,150	106	770	3.5	99.55%	33	16,440	2,740	312,628,082
02/07/08		7	168	3,443	7	167	99%	1,409	1,333	2,000	98	690	3.5	99.49%	27	16,628	2,771	316,215,556
03/18/08	8,9	40	960	3,653	9	210	22%	705	794	2,300	113	310	3.5	98.87%	14	16,751	2,792	318,555,075
04/01/08		**14**	**336**	**3,952**	**12**	**299**	**89%**	**703**	**751**	**3,100**	**152**	**500**	**3.5**	**99.30%**	**31**	**17,131**	**2,855**	**325,777,446**
04/30/08		**29**	**696**	**4,591**	**27**	**639**	**92%**	**709**	**792**	**2,700**	**133**	**700**	**3.5**	**99.50%**	**37**	**18,122**	**3,020**	**344,619,107**
05/29/08		**29**	**696**	**4,978**	**16**	**387**	**56%**	**703**	**769**	**2,000**	**98**	**500**	**3.5**	**99.30%**	**20**	**18,439**	**3,073**	**350,656,751**
06/26/08		**28**	**672**	**5,489**	**21**	**511**	**76%**	**802**	**841**	**2,500**	**123**	**620**	**3.5**	**99.44%**	**31**	**19,089**	**3,182**	**363,013,639**
AVG	-	**-**	**-**	**-**	**-**	**-**	**-**	**78%**	**729**	**788**	**2,575**	**126**	**580**	**3.5**	**99.38%**	**29**	**-**	**-**	**-**

NOTES:

ppmv = parts per million by volume
TPH-g = total petroluem hydrocarbons as gasoline
TPH-g by EPA Method 8015C
hrs = hours

- not analyzed/applicable
fpm = feet per minute
scfm = standard cubic feet per minute
btu = british thermal units

Flow = Velocity x Cross Sectional Area of the Pipe
Cross Sectional Area of 3" Pipe = 0.0491 ft^2
Total Flow = Total Velocity * 0.0491
POSTD = TPH-g influent concentration

DL = detection limit
1/2 the DL was used for abatement efficiency calculations
DL for THP-g by modified EPA Method 8015 = 7.0 ppmv

1) System installed and started up on June 26, 2007
2) Propane delivery missed; system shutdown on 08/06/07
3) Propane delivery missed; system shutdown on 08/21/07
4) System down between 09/11 and 09/24/08 due to electrical problems
5) System expanded; MW-10, MW-11 and MW-12 extraction added online
6) Propane delivery missed; system shutdown on 01/02/08
7) Propane delivery missed; system shutdown on 01/22/08
8) System shutdown most of February to evaluate free product recovery
9) Catalyst module installed and started up in March
10)

MASS REMOVAL RATE (MRR) ESTIMATE ASSUMPTIONS:

MRR Estimate = (20,000*10^-6)*(50scfm)*(1440min/day)*(28.32L/ft^3)*(1mol/22.4L)*(100g/mol)*(1lb/454g)
Negligible change in air density, constant concentration and average molecular weight
1 mole occupies 22.4 Liters at STP
STP is 21°C and 1 atm
MWgas = 100 grams/mole (weathered gasoline)
1 day = 1440 minutes

1 ft^3 = 28.32 liters
1 lb = 454 grams
1 gallon gas ~ 6 pounds

1 gallon gas ~ 114,100 btu

AVG = average values in red for the current reporting period

TABLE 12: AIR STRIPPER PERFORMANCE & MASS REMOVAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Sample Date	Notes	Hour Meter Reading	Actual Runtime (days)	Blower VFD (Hz)	*Back Pressure (in-H2O)	Outlet Velocity (fpm)	Outlet Flow (scfm)	Effluent TPH-g Conc. (ppmv)	Influent TPH-g Conc. (µg/L)	Effluent TPH-g Conc. (µg/L)	Removal Efficiency (%)
06/26/07	1	0	-	45	25	2,600	128	-	20,000	1,000	95.0%
06/27/08		5	0.20	45	25	2,600	128	-	25,000	420	98.3%
06/28/07		10	0.20	25	10	1,300	64	-	28,000	6,400	77.1%
07/03/07		-	-	40	20	2,300	113	-	-	-	-
07/11/07		-	-	40	20	2,300	113	-	-	-	-
07/11/07		-	-	20	5	900	44	-	-	-	-
07/12/07		70	3	20	5	900	44	-	8,300	-	-
07/12/07		70	0	15	4	600	29	-	8,300	-	-
07/27/07		-	-	20	6	900	44	-	-	-	-
08/01/07		-	-	20	6	900	44	-	-	-	-
08/10/07		-	-	10	2	200	10	-	-	-	-
08/07/07		-	-	15	3	600	29	-	-	-	-
08/21/07		-	-	20	18	900	44	-	-	-	-
08/22/07		530	19	15	5	600	29	-	16,000	5,300	66.9%
09/28/07		-	-	25	16	1,300	64	-	-	-	-
10/17/07		1,239	30	25	15	1,300	64	130	25,000	84	99.7%
10/23/07		-	-	25	15	1,300	64	-	-	-	-
10/25/07		-	-	20	15	900	44	-	-	-	-
11/07/07		1,709	20	20	16	900	44	-	21,000	120	99.4%
11/08/07		-	-	20	16	900	44	19	-	-	-
11/16/07		-	-	20	16	900	44	-	-	-	-
11/20/07		-	-	20	18	900	44	-	-	-	-
11/21/07		-	-	20	18.5	900	44	-	-	-	-
11/27/07		-	-	20	20	900	44	-	-	-	-
12/04/07		-	-	20	19	900	44	-	-	-	-
12/12/07		2,366	27	20	18	900	44		75,000	65,000	13.3%
12/14/07		-	-	20	18	900	44	-	-	-	
		-	-								

TABLE 12: AIR STRIPPER PERFORMANCE & MASS REMOVAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Sample Date	Notes	Hour Meter Reading	Actual Runtime (days)	Blower VFD (Hz)	*Back Pressure (in-H2O)	Outlet Velocity (fpm)	Outlet Flow (scfm)	Effluent TPH-g Conc. (ppmv)	Influent TPH-g Conc. (µg/L)	Effluent TPH-g Conc. (µg/L)	Removal Efficiency (%)
12/25/07		-	-	20	20	900	44	-	-	-	-
12/26/07		-	-	20	20	900	44	-	-	-	-
01/08/08		2,815	19	20	19.5	900	44	-	12,000	130	98.9%
01/15/08		-	-	20	19.0	900	44	1,100	-	-	-
01/24/08		-	-	20	19.0	900	44	-	-	-	-
01/31/08		-	-	20	18.5	900	44	-	-	-	-
01/31/08		-	-	20	12.5	900	44	-	-	-	-
02/07/08		-	-	20	15	900	44	31	-	-	-
02/12/08		-	-	20	15	900	44	-	-	-	-
03/18/08		3,653	35	20	15	900	44	31	4,100	120	97.1%
03/28/08		-	-	20	16	900	44	-	-	-	
04/01/08		**3,953**	**12**	**20**	**15**	**900**	**44**	**-**	**2,400**	**140**	94.2%
04/30/08		**4,591**	**27**	**20**	**15**	**900**	**44**	**37**	**8,600**	**25**	99.7%
05/29/08		**4,978**	**16**	**20**	**17.5**	**900**	**44**	**ND<7.0**	**13,000**	**100**	99.2%
06/26/08		**5,489**	**21**	**20**	**20.0**	**1,000**	**49**	**44**	**7,600**	**70**	99.1%
AVG	-	-	-	**20**	**17**	**925**	**45**	-	**7,900**	**84**	**98.0%**

*Air will leak from air stripper if backpressure exceeds 30 to 35 in-H2O as tested on June 11, 2007

NOTES:

Hz = hertz (used to control flow rate)

in-H2O = inche of water

scfm = standard cubic feet per minute

ppmv = parts per million by volume

µg/L = micrograms per Liter of water

1) System started up and first discharge to the sanitary sewer

2) Air stripper cleaned due to high backpressure

3)

4)

5)

6)

7)

8)

9)

10)

TABLE 13: ACTIVATED CARBON ABSORBER PERFORMANCE & MASS REMOVAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Sample Date	Notes	Hour Meter Reading	Actual Runtime (days)	Flow Totalizer (gallons)	Gallons Pumped/ Treated	Average Flow Rate (gpd)	Average Flow Rate (gph)	Average Flow Rate (gpm)	Bag filter *Inlet Pressure (psig)	Bag filter *Outlet Pressure (psig)	GAC-1 ** Inlet Pressure (psig)	GAC-2 **Inlet Pressure (psig)	Bag filter Changed? (Y/N)	GAC Back-washed? (Y/N)	GAC Changed? (Y/N)	TPH-g Influent Conc. (µg/L)	TPH-g Effluent Conc. (µg/L)	Removal Efficiency (%)	Mass Removal Rate (lbs/day)	Total Mass Removed (lbs)	Total Mass Removed (gallons)
06/26/07	1	0.00	-	0	-	-	-	-	-	-	1.5	<1.0	-	N	N	1,000	25	97.50%	-	-	-
06/27/07		4.84	0.2	780	780	3,868	161	2.69	-	-	1.5	<1.0	-	N	N	420	25	94.05%	0.0127	0.0026	0.00
06/28/07		9.68	0.2	1,300	520	2,579	107	1.79	-	-	1.5	<1.0	-	N	N	6,400	25	99.61%	0.1369	0.0302	0.01
07/03/07		13.47	0.2	1,800	500	3,166	132	2.20	-	-	1.5	<1.0	-	N	N	-	-	-	-	-	-
07/09/07		25.12	0.5	4,310	2,510	5,171	215	3.59	-	-	2	<1.0	-	N	N	-	-	-	-	-	-
07/10/07		28.29	0.1	5,000	690	5,224	218	3.63	-	-	3	<1.0	-	N	N	-	-	-	-	-	-
07/11/07		52.72	1.0	7,280	2,280	2,240	93	1.56	-	-	3	<1.0	-	N	N	-	-	-	-	-	-
07/12/07		70.48	0.7	7,400	120	162	7	0.11	-	-	5	<1.0	-	Y	N	-	-	-	-	-	-
07/27/07		103.41	1.4	8,580	1,180	860	35.8	0.60	-	-	2	<1.0	-	N	N	-	-	-	-	-	-
07/30/07		121.03	0.7	9,200	620	844	35	0.59	-	-	2	<1.0	-	N	N	-	-	-	-	-	-
08/01/07		160.40	1.6	13,400	4,200	2,560	107	1.78	-	-	5	<1.0	-	Y	N	-	-	-	-	-	-
08/07/07		278.73	4.9	14,470	1,070	217	9.0	0.15	-	-	2	<1.0	-	N	N	-	-	-	-	-	-
08/17/08	2	444.73	6.9	25,000	10,530	1,522	63.4	1.06	2	2.5	2.5	<1.0	Y	N	N	-	-	-	-	-	-
08/21/07		505.98	2.6	33,000	8,000	3,135	131	2.18	7	2.5	2.5	<1.0	Y	N	N	-	-	-	-	-	-
08/22/07		529.98	1.0	34,110	1,110	1,110	46	0.77	2	2.5	2.5	<1.0	N	N	N	5,300	25	99.53%	0.0488	1.47	0.25
08/23/07		554.07	1.0	36,710	2,600	2,590	108	1.80	2	2.5	2.5	<1.0	N	N	N	-	-	-	-	-	-
08/27/07		648.48	3.9	45,800	9,090	2,311	96	1.60	10	>7	>7	-	Y	Y	Y	-	-	-	-	-	-
08/31/07		744.48	4.0	50,820	5,020	1,255	52	0.87	2	2.5	2.5	<1.0	N	N	N	-	-	-	-	-	-
09/05/08		862.48	4.9	57,100	6,280	1,277	53	0.89	10	2.5	2.5	<1.0	Y	N	N	-	-	-	-	-	-
09/24/07		895.50	1.4	65,360	8,260	6,004	250	4.17	10	2.5	2.5	<1.0	Y	N	N	-	-	-	-	-	-
10/01/07		1,087.50	8.0	99,000	33,640	4,205	175	2.92	15	>10	>10	2	Y	N	Y	-	-	-	-	-	-
10/17/07	3	1,238.96	6.3	140,710	41,710	6,609	275	4.59	11	4	4	2	N	N	N	84	25	70.24%	0.0032	1.52	0.25
10/23/07		1,383.93	6.0	173,260	32,550	5,389	225	3.74	24	7.5	7.5	2.5	N	N	N	-	-	-	-	-	-
10/25/07	4	1,395.35	0.5	175,600	2,340	4,918	205	3.42	>30 / 7.5	8 / 8	8 / 8	>5 / >5	Y	N	N	-	-	-	-	-	-
11/07/07		1709	13	223,380	47,780	3,661	153	2.54	14	14.5	14.5	OFFLINE	Y	N	N	120	25	79.17%	0.0029	1.59	0.26
11/08/07		1730	0.9	227,190	3,810	4,354	181	3.02	16	16.5	16.5	OFFLINE	N	N	N	-	-	-	-	-	-
11/13/07		1809	3.3	244,360	17,170	5,220	217.5	3.62	14	14.5	15	OFFLINE	N	N	N	-	-	-	-	-	-
11/16/07		1874	2.7	259,600	15,240	5,566	232	3.87	17	17.5	18	OFFLINE	N	N	N	-	-	-	-	-	-
11/20/07	5	1969	3.9	279,190	19,590	4,983	208	3.46	19	19.5	20	OFFLINE	N	N	N	-	-	-	-	-	-
11/21/07		1993	1.0	287,450	8,260	8,260	344	5.74	19	19.5	20	OFFLINE	N	N	N	-	-	-	-	-	-
11/27/07		2107	4.7	320,320	32,870	6,921	288	4.81	20.5	21.5	21.5	OFFLINE	Y	N	N	-	-	-	-	-	-
11/29/07		2131	1.0	328,040	7,720	7,504	313	5.21	18 / 4.5	18.5 / 5.5	19 / 6.0	OFFLINE	Y	Y	N	-	-	-	-	-	-
12/04/07		2230	4.1	355,820	27,780	6,763	282	4.70	17 / 7	17.5 / 7.5	17.5 / 7.5	OFFLINE	Y	Y	N	-	-	-	-	-	-
12/12/07		2366	5.7	391,500	35,680	6,296	262	4.37	20 / 5	10 / 4.5	10 / 4.5	OFFLINE	Y	Y	N	65,000	25	99.96%	3.4067	92.55	15.42
12/14/07		2379	0.6	395,260	3,760	6,670	278	4.63	11	4.0	4.5	OFFLINE	N	N	N	-	-	-	-	-	-
12/26/07		2545	6.9	440,900	45,640	6,603	275	4.59	13	13.5	14	OFFLINE	N	N	N	-	-	-	-	-	-

TABLE 13: ACTIVATED CARBON ABSORBER PERFORMANCE & MASS REMOVAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Sample Date	Notes	Hour Meter Reading	Actual Runtime (days)	Flow Totalizer (gallons)	Gallons Pumped/ Treated	Average Flow Rate (gpd)	Average Flow Rate (gph)	Average Flow Rate (gpm)	Bag filter *Inlet Pressure (psig)	Bag filter *Outlet Pressure (psig)	GAC-1 ** Inlet Pressure (psig)	GAC-2 **Inlet Pressure (psig)	Bag filter Changed? (Y/N)	GAC Back-washed? (Y/N)	GAC Changed? (Y/N)	TPH-g Influent Conc. (µg/L)	TPH-g Effluent Conc. (µg/L)	Removal Efficiency (%)	Mass Removal Rate (lbs/day)	Total Mass Removed (lbs)	Total Mass Removed (gallons)
01/08/08		2815	11.2	512,760	71,860	6,398	267	4.44	18.5	19	19	OFFLINE	OFFLINE	N	N	130	25	80.77%	0.0056	92.66	15.44
01/15/08		3016	8.4	541,920	29,160	3,472	145	2.41	19	20	20	OFFLINE	OFFLINE	N	N	-	-	-	-	-	-
01/22/08		3064	2.0	550,780	8,860	4,424	184	3.07	16.5 / 4	17 / 4	17 / 4	OFFLINE	OFFLINE	Y	N	-	-	-	-	-	-
01/31/08		3276	8.8	608,890	58,110	6,580	274	4.57	16 / 8	16.5 / 8.5	16.5 / 8.5	OFFLINE	OFFLINE	Y	N	-	-	-	-	-	-
02/07/08		3443	6.9	657,140	48,250	6,950	290	4.83	19	19.5	20	OFFLINE	OFFLINE	N	N	-	-	-	-	-	-
02/12/08		3559	4.8	685,990	28,850	5,957	248	4.14	25.5	26	26	OFFLINE	OFFLINE	N	N	-	-	-	-	-	-
03/18/08		3653	3.9	715,480	29,490	7,523	313	5.22	16.5	17	17	OFFLINE	OFFLINE	Y	N	120	25	79.17%	0.0060	92.82	15.47
03/28/08		3851	8.2	760,730	45,250	5,499	229	3.82	4	4.5	5	OFFLINE	OFFLINE	N	N	-	-	-	-	-	-
04/01/08		**3953**	**4.3**	**771,940**	**11,210**	**2,637**	**110**	**1.83**	**9.5**	**10**	**-**	**OFFLINE**	**OFFLINE**	**N**	**N**	**2,400**	**25**	**98.96%**	**0.0522**	**94.52**	**15.75**
04/30/08		**4591**	**26.6**	**858,530**	**86,590**	**3,254**	**136**	**2.26**	**17.0**	**17.5**	**-**	**OFFLINE**	**OFFLINE**	**N**	**N**	**8,600**	**25**	**99.71%**	**0.2324**	**103.03**	**17.17**
05/29/08		**4978**	**16.1**	**931,605**	**73,075**	**4,532**	**189**	**3.15**	**23**	**23.5**	**-**	**OFFLINE**	**OFFLINE**	**N**	**N**	**13,000**	**25**	**99.81%**	**0.4896**	**110.93**	**18.49**
06/26/08		**5489**	**21.3**	**1,039,610**	**108,005**	**5,075**	**211**	**3.52**	**25**	**26**	**-**	**OFFLINE**	**OFFLINE**	**N**	**N**	**7,600**	**25**	**99.67%**	**0.3201**	**117.74**	**19.62**
AVG	-	-	-	-	-	**3,875**	**161**	**2.7**	-	-	-	-	-	-	-	**7,900**	**25**	**99.54%**	**0.2736**	-	-

NOTES:

gpd = gallons per day
gph = gallons per hour
gpm = gallons per minute
psig = pounds per square inch
µg/L = micrograms per Liter of water (ppb)
lbs/day = pounds per day
GAC = granular activated carbon
Conc. = concentration
TPH-g = Total Petroleum Hydrocarbons as Gasoline
TPH-g by EPA Method 8015C

Minimum EBMUD wastewater discharge permit reporting requirements are:
- monthly flow totalizer readings
- volume of groundwater treated during this reporting period
- total volume of groundwater treated to date
- description of any operationsl changes during this reporting period

Mass Removal Rate (lbs/day) = (1 gal/min)*(1,000µg/L - 25µg/L)*(3.785L/gallon)*(1440/min/day)*(2.2lbs/10^9µg)
Total Mass Removed (lbs) = (1 gallon)*(1,000µg/L - 25µg/L)*(3.785L/gallon)*(2.2lbs/10^9µg)
1 gallon of gas = ~ 6 pounds
1/2 the DL was used for removal efficiency and mass removal calculations
DL for THP-g by modified EPA Method 8015C = 50 µg/L
AVG = average values in red for the current reporting period

*Bag filter inlet and outlet pressures are recorded before and after the bag filter is changed using the following convention: (pressure before / pressure after)
**GAC inlet and outlet pressures are recorded before and after the vessel is backwashed using the following convention: (pressure before / pressure after)

1) System startup and first dischrage to sanitary sewer
2) Bag filter (LCO8) pre-filter for sediment removal installed and started up on 08/17/07
3) 1,000-pound (PV-1000) carbon absorber (up to 75 psig) installed on 10/5/07 and started up on 10/9/07
4) 200-pound (ASC-200) carbon absorber (i.e., C-2) taken offline permanently on 10/25/07
5) Extraction wells MW-10, MW-11, and MW-12 brought online 11/20/07
6)
7)
8)
9)
10)

TABLE 14: HVDPE PROCESS MONITORING SCHEDULE

Vic's Auto, 245 8th Street, Oakland, California

Field Point Name	Sample Port Description/Location	TPH-g (SW8015Cm)	BTEX &MTBE (SW8021B)	TVH (ppmv)	CH4 (%)	O2 (%)	CO2 (%)
MW-1S	Sample Port at DPE Manifold	M	M	M	M	M	M
MW-2S	Sample Port at DPE Manifold	M	M	M	M	M	M
MW-5S	Sample Port at DPE Manifold	M	M	M	M	M	M
MW-6S	Sample Port at DPE Manifold	M	M	M	M	M	M
MW-7S	Sample Port at DPE Manifold	M	M	M	M	M	M
MW-10S	Sample Port at DPE Manifold	M	M	M	M	M	M
MW-11S	Sample Port at DPE Manifold	M	M	M	M	M	M
MW-12S	Sample Port at DPE Manifold	M	M	M	M	M	M
PRED	Influent Vapor Sample Port	M	M	M	M	M	M
POSTD	Oxidizer Inlet Sample Port	M	M	M	M	M	M
AS	Stipper Outlet Vapor Sample Port	M	M	M	M	M	M
STACK	Stack Gas Discharge Sample Port	M	M	M	M	M	M
GP-1-5'	Permanent Soil Gas Probe	-	-	Q	Q	Q	Q
GP-1-10'	Permanent Soil Gas Probe	-	-	Q	Q	Q	Q
GP-2-5'	Permanent Soil Gas Probe	-	-	Q	Q	Q	Q
GP-2-10'	Permanent Soil Gas Probe	-	-	Q	Q	Q	Q
GP-3-5'	Permanent Soil Gas Probe	-	-	Q	Q	Q	Q
GP-3-10'	Permanent Soil Gas Probe	-	-	Q	Q	Q	Q
GP-4-5'	Permanent Soil Gas Probe	-	-	Q	Q	Q	Q
GP-4-10'	Permanent Soil Gas Probe	-	-	Q	Q	Q	Q
INF	Influent Water Sample Port	M	M	-	-	-	-
POST-AS	Water Sample Port After Stripper	M	M	-	-	-	-
POST-C1	Water Sample Port After C-1	M	M	-	-	-	-
EFF	Effluent Water Sample Port	M	M	-	-	-	-

NOTES:

W = weekly

BW = bi-weekly

M = monthly

A = annual

SA = semi-annual

AN = as needed

SP = sample port

HC = total volatile hydrocarbon

ppmv = parts per million by volume

% = percent concentration by volume

TVH = total volatile hydrocarbons (calibrated w/ hexane)

CH4 = methane

O2 = oxygen

CO2 = carbon dioxide

TVH, CH4, O2, and CO2 measured w/ RKI Eagle gas detector

*Additional water analysis for Total Oil and Grease Hydrocarbon by Method HEM-1664SGT required every 6 months by EBMUD permit

**POSTD and STACK required every month by BAAQMD permit

***Soil gas sampling for vapor intrusion evaluation is conducted quarterly with routine groundwater monitoring events

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:	5/15/2008
Job Number:	116907	Name of Sampler:	A 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)	16.64		
Depth to Free Product (from top of casing)	Not detected		
Water Elevation (feet above msl)	15.91		
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)	**22.1**		
Actual Volume Purged (gallons)	23.0		
Appearance of Purge Water	Dark gray, fast clearing		
Free Product Present?	No	Thickness (ft):	-

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
12:10	1	19.70	7.07	712	5.64	-118.9	Clear
	2	19.59	7.13	686	5.43	-133.9	Clear
	3	19.60	7.14	676	5.31	-139.9	Clear
	4	19.62	7.14	669	5.23	-144.7	Clear
	8	19.50	7.00	587	5.97	-120.7	Clear
	12	19.61	6.95	553	6.78	-100.4	Clear
	16	19.55	6.83	530	6.91	-78.2	Clear
	20	19.40	6.90	522	5.79	-44.4	Clear
12:50	23	19.42	6.78	526	5.16	-65.0	Clear

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

Dark gray, fast clearing with strong hydrocarbon odors

Well dry at 16 gallons at 12:23 pm

Well recharged at 12:47pm

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-2

Project Name:	Vic's Automotive	Date of Sampling:	5/15/2008
Job Number:	116907	Name of Sampler:	A 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)	17.67		
Water Elevation (feet above msl)	15.57		
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)	**4.9**		
Actual Volume Purged (gallons)	5.0		
Appearance of Purge Water	Clear		
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
9:51	1	18.44	6.81	496	3.66	18.0	Clear
	2	18.40	6.73	512	3.40	22.3	Clear
	3	18.40	6.68	502	3.24	23.7	Clear
	4	18.40	6.66	505	3.20	24.3	Clear
9:55	5	18.40	6.65	500	3.16	25.0	Clear

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

Clear with light hydrocarbon odors

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-3

Project Name:	Vic's Automotive	Date of Sampling:	5/15/2008
Job Number:	116907	Name of Sampler:	A 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)	18.64		
Water Elevation (feet above msl)	15.61		
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)	**12.3**		
Actual Volume Purged (gallons)	13		
Appearance of Purge Water	Brown, fast clearing		
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
7:43	1	18.79	6.87	537	11.33	51.1	Clear
	2	18.73	6.59	537	9.50	62.1	Clear
	3	18.72	6.51	537	8.19	50.3	Clear
	4	18.72	6.49	537	7.82	45.0	Clear
	5	18.72	6.47	534	7.36	38.4	Clear
	7	18.75	6.42	544	6.00	17.0	Clear
	9	18.76	6.42	550	5.81	14.9	Clear
	11	18.79	6.42	565	5.34	23.4	Clear
7:51	13	18.80	6.40	566	5.12	31.8	Clear

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

Brown, fast clearing, no hydrocarbon odors

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-4

Project Name:	Vic's Automotive	Date of Sampling:	5/15/2008
Job Number:	116907	Name of Sampler:	A 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)	19.42		
Water Elevation (feet above msl)	15.00		
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)	**10.8**		
Actual Volume Purged (gallons)	11.0		
Appearance of Purge Water	Brownish, fast clearing		
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
8:15	1	17.22	6.91	316	10.43	79.0	Clear
	2	17.12	6.70	316	10.26	79.1	Clear
	3	17.08	6.59	321	10.81	85.5	Clear
	4	17.09	6.51	316	10.24	89.3	Clear
	5	17.10	6.49	315	10.00	90.8	Clear
	6	17.14	6.41	314	9.27	94.0	Clear
	8	17.20	6.37	329	8.31	95.6	Clear
	10	17.30	6.66	343	7.41	86.7	Clear
8:34	11	17.25	6.61	336	7.81	85.8	Clear

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

Brown, fast clearing, no hydrocarbon odors

Well dry at 8:23 am

Well recharged at 8:32 am

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-5

Project Name:	Vic's Automotive	Date of Sampling:	5/15/2008
Job Number:	116907	Name of Sampler:	A 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)	17.08		
Water Elevation (feet above msl)	16.25		
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)	**9.5**		
Actual Volume Purged (gallons)	10.0		
Appearance of Purge Water	Clear		
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
9:20	1	19.40	6.63	505	2.95	-59.7	Clear
	2	19.48	6.62	504	2.8	-64.3	Clear
	3	19.49	6.64	473	2.73	-65.4	Clear
	4	19.46	6.67	435	2.71	-67.4	Clear
	5	19.41	6.70	401	2.68	-69.2	Clear
	6	19.68	6.87	411	3.72	30.4	Clear
	8	19.47	6.75	396	3.23	-34.2	Clear
9:41	10	19.40	6.74	385	3.13	-38.3	Clear

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

Clear with slight hydrocarbon odors

Well went dry at 5.5 gallons at 9:24 am

Well recharged at 9:37am

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-6

Project Name:	Vic's Automotive	Date of Sampling:	5/15/2008
Job Number:	116907	Name of Sampler:	A 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)	16.25		
Depth to Free Product (from top of casing)	Not detected		
Water Elevation (feet above msl)	16.57		
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)	**11.2**		
Actual Volume Purged (gallons)	12.0		
Appearance of Purge Water	Dark, but fast clearing		
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
1:06	1	18.81	6.34	475	5.42	-5.7	Clear
	2	18.73	5.60	452	4.94	-60.9	Clear
	3	18.73	4.94	439	4.76	76.8	Clear
	4	18.72	4.71	461	4.69	87.5	Clear
	5	18.86	4.23	511	6.05	52.1	Clear
	7	18.87	6.76	506	4.90	-35.4	Clear
	9	18.86	6.65	501	4.80	-29.4	Clear
1:34	12	18.80	6.67	498	4.71	-36.4	Clear

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

Dark, fast clearing, with strong hydrocarbon odors

Well dry at 5 gallons at 1:10 pm

Well recharged at 1:32 pm

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-7

Project Name:	Vic's Automotive	Date of Sampling:	5/15/2008
Job Number:	116907	Name of Sampler:	A 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)	17.01		
Depth to Free Product (from top of casing)	Not detected		
Water Elevation (feet above msl)	16.06		
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)	**9.7**		
Actual Volume Purged (gallons)	10.0		
Appearance of Purge Water	Clear		
Free Product Present?	No	Thickness (ft):	-

GROUNDWATER SAMPLES

Number of Samples/Container Size

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
1:40	1	18.75	6.92	430	4.80	-55.9	Clear
	2	18.73	6.91	428	4.47	-65.9	Clear
	3	18.71	6.90	434	4.31	-69.8	Clear
	4	18.70	6.90	428	4.26	-69.5	Clear
	5	18.70	6.89	421	4.16	-66.7	Clear
	6	18.86	6.82	421	4.13	-60.1	Clear
	8	18.78	6.88	415	4.36	-12.2	Clear
2:06	10	18.75	6.86	417	4.17	-16.9	Clear

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

Clear with strong hydrocarbon odors

Well dry at 7 gallons at 1:46 pm

Well recharged at 2:05

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-8

Project Name:	Vic's Automotive	Date of Sampling:	5/15/2008
Job Number:	116907	Name of Sampler:	A 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)	33.00		
Depth of Well	22.00		
Depth to Water (from top of casing)	16.47		
Depth to Free Product (from top of casing)	None		
Water Elevation (feet above msl)	16.53		
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)	**10.7**		
Actual Volume Purged (gallons)	11.0		
Appearance of Purge Water	Greenish, clears at about 2 gallons		
Free Product Present?	No	Thickness (ft):	-

GROUNDWATER SAMPLES

Number of Samples/Container Size

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
8:44	1	17.22	6.91	227	6.24	33.4	Light grey
	2	17.22	6.90	227	6.13	31.1	Clear
	3	17.21	6.89	228	5.58	21.2	Clear
	4	17.23	6.85	233	4.71	4.2	Clear
	5	17.24	6.85	231	4.60	0.3	Clear
	6	17.25	6.87	225	5.17	0.0	Clear
	8	17.28	6.91	219	6.59	1.1	Clear
	10	17.28	7.16	216	6.44	28.5	Clear
9:13	11	17.18	7.07	207	7.19	13.6	Clear

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

Greenish with no hydrocarbon odors, clears by 2 gallons

Well dry at 9 gallons at 8:52 am

Well recharged at 9:11am

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-9

Project Name:	Vic's Automotive	Date of Sampling:	5/15/2008
Job Number:	116907	Name of Sampler:	A 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)	32.00		
Depth of Well	22.73		
Depth to Water (from top of casing)	15.16		
Depth to Free Product (from top of casing)	None		
Water Elevation (feet above msl)	16.84		
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)	**3.6**		
Actual Volume Purged (gallons)	4.0		
Appearance of Purge Water	Greenish, fast clearing		
Free Product Present?	No	Thickness (ft):	-

GROUNDWATER SAMPLES

Number of Samples/Container Size

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
6:44	1	18.86	6.64	865	5.97	-21.9	Clear
	2	18.87	6.65	829	5.67	-26.4	Clear
	3	18.90	6.56	753	5.47	-33.5	Clear
6:47	4	18.92	6.50	744	5.30	-46.4	Clear

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

Greenish, fast clearing, hydrocarbon odors noted

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-10

Project Name:	Vic's Automotive	Date of Sampling:	5/15/2008
Job Number:	116907	Name of Sampler:	A 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)	16.40		
Water Elevation (feet above msl)	14.77		
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)	**10.9**		
Actual Volume Purged (gallons)	11		
Appearance of Purge Water	Clear		
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
11:16	1	18.17	6.68	309	3.70	-18.9	Clear
	2	18.16	6.67	309	3.47	-20.8	Clear
	3	18.16	6.65	308	3.39	-22.2	Clear
	4	18.15	6.66	304	3.31	-25.5	Clear
	5	18.16	6.65	306	3.27	-28.2	Clear
	6	18.17	6.64	310	3.25	-29.5	Clear
	7	18.20	6.66	315	3.14	-33.9	Clear
	9	18.22	6.68	322	3.06	-37.3	Clear
11:27	11	18.22	6.70	326	2.99	-39.7	Clear

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

Clear with strong hydrocarbon odors

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-11

Project Name:	Vic's Automotive	Date of Sampling:	5/15/2008
Job Number:	116907	Name of Sampler:	A 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)	17.12		
Water Elevation (feet above msl)	14.66		
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)	**9.5**		
Actual Volume Purged (gallons)	10.0		
Appearance of Purge Water	Dark gray, fast clearing		
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
10:50	1	17.47	7.04	409	10.41	-40.0	Clear
	2	17.37	6.93	409	7.84	-36.6	Clear
	3	17.53	6.78	431	5.85	-44.6	Clear
	4	17.49	6.78	433	5.69	-45.6	Clear
	5	17.44	6.82	423	5.24	-51.7	Clear
	6	17.76	6.94	428	4.75	-58.8	Clear
	8	17.62	6.76	426	5.61	-37.4	Clear
11:02	10	17.50	6.77	430	4.90	-41.4	Clear

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

Dark gray, fast clearing with strong hydrocarbon odors

Well dry at 6 gallons at 10:55 am

Well recharged at 11:00 am

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-12

Project Name:	Vic's Automotive	Date of Sampling:	5/15/2008
Job Number:	116907	Name of Sampler:	A 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)	32.02		
Depth of Well	22.00		
Depth to Water (from top of casing)	17.34		
Water Elevation (feet above msl)	14.68		
Well Volumes Purged	11		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**9.0**		
Actual Volume Purged (gallons)	9.5		
Appearance of Purge Water	Clear		
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
10:10	1	17.25	7.05	478	4.02	-64.0	Clear
	2	17.17	7.02	478	3.69	-72.7	Clear
	3	17.15	6.95	519	3.37	-78.9	Clear
	4	17.15	6.94	529	3.32	-79.4	Clear
	5	17.16	6.89	546	3.27	-78.0	Clear
	7	17.28	6.83	486	3.21	-60.7	Clear
10:18	9.5	17.42	6.80	499	4.09	-55.1	Clear

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

Clear with slight hydrocarbon odors

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-13

Project Name:	Vic's Automotive	Date of Sampling:	5/15/2008
Job Number:	116907	Name of Sampler:	A 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)	32.00		
Depth of Well	22.00		
Depth to Water (from top of casing)	14.87		
Water Elevation (feet above msl)	17.13		
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)	**3.4**		
Actual Volume Purged (gallons)	4.0		
Appearance of Purge Water	Clear		
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
6:33	1	18.71	7.07	476	12.03	64.4	Clear
	2	18.72	6.87	534	10.30	57.0	Clear
	3	18.74	6.84	545	9.71	52.2	Clear
6:37	4	18.76	6.77	539	8.63	19.1	Clear

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

Clear with no petroleum odors noted

APPENDIX B

SOIL GAS FIELD SAMPLING FORMS

AEI CONSULTANTS

SOIL GAS SAMPLING FIELD FORM

SOIL GAS PROBE ID:	GP-1-5

Project Name:	Vic's Automotive	Date of Sampling:	05/08/08
Job Number:	116907	Start Time:	10:58
Project Address:	245 8th Street, Oakland, California	End Time:	11:05
		Name of Sampler:	R. Bartlett

SOIL GAS PROBE DATA

Starting Vacuum (in-Hg)	-27.5
Ending Vacuum (in-Hg)	-5.0
Flow Controller / Sampling Flow Rate (mL/min)	**200**
Tubing Inside Diameter (1/8" or 1/4")	**1/8"**
Tubing Type (Nylon, Kynar, Teflon, Stainless Steel)	KYNAR (PVDF)
Wellbox Condition	WELL BOX IN GOOD CONDITION
Depth of Probe (ft bgs)	**5**
Length of Tubing Above Grade (ft)	**2**
Total Length of Tubing Purged (ft)	**7**
Number of Purge Volumes (default = 3 purge volumes)	**3**
Total Volume Purged (mL): formula valid only for tubing sizes of 1/8" I.D. (2.40 mL/ft) and 1/4" I.D. (9.60 mL/ft)	**35 mL**
Appreciable Amount of Rain (>1/2") in Last Five Days?	**NO**
Moisture / Water Present in Tubing?	**NO**

SOIL GAS SAMPLING EQUIPMENT

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Summa Canister Number	5805-736
Sampling Manifold / Flow Controller Number	MAN316-713
Leak Check Compound	Isopropyl Alcohol (2-propanol)

NOTES & COMMENTS

cc = cubic centimeter
mL = milliliter
1 L = 1000 mL
1 mL = 1 cc
in-Hg = inches of mercury
ft bgs = feet below ground surface

AEI CONSULTANTS

SOIL GAS SAMPLING FIELD FORM

SOIL GAS PROBE ID:	GP-1-10

Project Name:	Vic's Automotive	Date of Sampling:	05/08/08
Job Number:	116907	Start Time:	10:58
Project Address:	245 8th Street, Oakland, California	End Time:	11:05
		Name of Sampler:	R. Bartlett

SOIL GAS PROBE DATA

Starting Vacuum (in-Hg)	-29.0
Ending Vacuum (in-Hg)	-5.0
Flow Controller / Sampling Flow Rate (mL/min)	**200**
Tubing Inside Diameter (1/8" or 1/4")	**1/8"**
Tubing Type (Nylon, Kynar, Teflon, Stainless Steel)	KYNAR (PVDF)
Wellbox Condition	WELL BOX IN GOOD CONDITION
Depth of Probe (ft bgs)	**10**
Length of Tubing Above Grade (ft)	**2**
Total Length of Tubing Purged (ft)	**12**
Number of Purge Volumes (default = 3 purge volumes)	**3**
Total Volume Purged (mL): formula valid only for tubing sizes of 1/8" I.D. (2.40 mL/ft) and 1/4" I.D. (9.60 mL/ft)	**60 mL**
Appreciable Amount of Rain (>1/2") in Last Five Days?	**NO**
Moisture / Water Present in Tubing?	**NO**

SOIL GAS SAMPLING EQUIPMENT

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Summa Canister Number	5800-731
Sampling Manifold / Flow Controller Number	MAN316-719
Leak Check Compound	Isopropyl Alcohol (2-propanol)

NOTES & COMMENTS

cc = cubic centimeter
mL = milliliter
1 L = 1000 mL
1 mL = 1 cc
in-Hg = inches of mercury
ft bgs = feet below ground surface

AEI CONSULTANTS

SOIL GAS SAMPLING FIELD FORM

SOIL GAS PROBE ID:	GP-2-5

Project Name:	Vic's Automotive	Date of Sampling:	05/08/08
Job Number:	116907	Start Time:	10:12
Project Address:	245 8th Street, Oakland, California	End Time:	10:16
		Name of Sampler:	R. Bartlett

SOIL GAS PROBE DATA

Starting Vacuum (in-Hg)	-27.0
Ending Vacuum (in-Hg)	-5.0
Flow Controller / Sampling Flow Rate (mL/min)	**200**
Tubing Inside Diameter (1/8" or 1/4")	**1/8"**
Tubing Type (Nylon, Kynar, Teflon, Stainless Steel)	KYNAR (PVDF)
Wellbox Condition	WELL BOX IN GOOD CONDITION
Depth of Probe (ft bgs)	**5**
Length of Tubing Above Grade (ft)	**2**
Total Length of Tubing Purged (ft)	**7**
Number of Purge Volumes (default = 3 purge volumes)	**3**
Total Volume Purged (mL): formula valid only for tubing sizes of 1/8" I.D. (2.40 mL/ft) and 1/4" I.D. (9.60 mL/ft)	**35 mL**
Appreciable Amount of Rain (>1/2") in Last Five Days?	**NO**
Moisture / Water Present in Tubing?	**NO**

SOIL GAS SAMPLING EQUIPMENT

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Summa Canister Number	5804
Sampling Manifold / Flow Controller Number	MAN316-664
Leak Check Compound	Isopropyl Alcohol (2-propanol)

NOTES & COMMENTS

cc = cubic centimeter
mL = milliliter
1 L = 1000 mL
1 mL = 1 cc
in-Hg = inches of mercury
ft bgs = feet below ground surface

AEI CONSULTANTS

SOIL GAS SAMPLING FIELD FORM

SOIL GAS PROBE ID:	GP-2-10

Project Name:	Vic's Automotive	Date of Sampling:	05/08/08
Job Number:	116907	Start Time:	10:12
Project Address:	245 8th Street, Oakland, California	End Time:	10:16
		Name of Sampler:	R. Bartlett

SOIL GAS PROBE DATA

Starting Vacuum (in-Hg)	-29.0
Ending Vacuum (in-Hg)	-5.0
Flow Controller / Sampling Flow Rate (mL/min)	**200**
Tubing Inside Diameter (1/8" or 1/4")	**1/8"**
Tubing Type (Nylon, Kynar, Teflon, Stainless Steel)	KYNAR (PVDF)
Wellbox Condition	WELL BOX IN GOOD CONDITION
Depth of Probe (ft bgs)	**10**
Length of Tubing Above Grade (ft)	**2**
Total Length of Tubing Purged (ft)	**12**
Number of Purge Volumes (default = 3 purge volumes)	**3**
Total Volume Purged (mL): formula valid only for tubing sizes of 1/8" I.D. (2.40 mL/ft) and 1/4" I.D. (9.60 mL/ft)	**60 mL**
Appreciable Amount of Rain (>1/2") in Last Five Days?	**NO**
Moisture / Water Present in Tubing?	**NO**

SOIL GAS SAMPLING EQUIPMENT

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Summa Canister Number	5807
Sampling Manifold / Flow Controller Number	MAN316-647
Leak Check Compound	Isopropyl Alcohol (2-propanol)

NOTES & COMMENTS

cc = cubic centimeter
mL = milliliter
1 L = 1000 mL
1 mL = 1 cc
in-Hg = inches of mercury
ft bgs = feet below ground surface

AEI CONSULTANTS

SOIL GAS SAMPLING FIELD FORM

SOIL GAS PROBE ID:	GP-3-5

Project Name:	Vic's Automotive	Date of Sampling:	05/08/08
Job Number:	116907	Start Time:	11:43
Project Address:	245 8th Street, Oakland, California	End Time:	11:50
		Name of Sampler:	R. Bartlett

SOIL GAS PROBE DATA

Starting Vacuum (in-Hg)	-29.0
Ending Vacuum (in-Hg)	-5.0
Flow Controller / Sampling Flow Rate (mL/min)	**200**
Tubing Inside Diameter (1/8" or 1/4")	**1/8"**
Tubing Type (Nylon, Kynar, Teflon, Stainless Steel)	KYNAR (PVDF)
Wellbox Condition	WELL BOX IN GOOD CONDITION
Depth of Probe (ft bgs)	**5**
Length of Tubing Above Grade (ft)	**2**
Total Length of Tubing Purged (ft)	**7**
Number of Purge Volumes (default = 3 purge volumes)	**3**
Total Volume Purged (mL): formula valid only for tubing sizes of 1/8" I.D. (2.40 mL/ft) and 1/4" I.D. (9.60 mL/ft)	**35 mL**
Appreciable Amount of Rain (>1/2") in Last Five Days?	**NO**
Moisture / Water Present in Tubing?	**NO**

SOIL GAS SAMPLING EQUIPMENT

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Summa Canister Number	5805-740
Sampling Manifold / Flow Controller Number	MAN316-727
Leak Check Compound	Isopropyl Alcohol (2-propanol)

NOTES & COMMENTS

cc = cubic centimeter
mL = milliliter
1 L = 1000 mL
1 mL = 1 cc
in-Hg = inches of mercury
ft bgs = feet below ground surface

AEI CONSULTANTS

SOIL GAS SAMPLING FIELD FORM

SOIL GAS PROBE ID:	GP-3-10

Project Name:	Vic's Automotive	Date of Sampling:	05/08/08
Job Number:	116907	Start Time:	11:43
Project Address:	245 8th Street, Oakland, California	End Time:	11:50
		Name of Sampler:	R. Bartlett

SOIL GAS PROBE DATA

Starting Vacuum (in-Hg)	-29.0
Ending Vacuum (in-Hg)	-5.0
Flow Controller / Sampling Flow Rate (mL/min)	**200**
Tubing Inside Diameter (1/8" or 1/4")	**1/8"**
Tubing Type (Nylon, Kynar, Teflon, Stainless Steel)	KYNAR (PVDF)
Wellbox Condition	WELL BOX IN GOOD CONDITION
Depth of Probe (ft bgs)	**10**
Length of Tubing Above Grade (ft)	**2**
Total Length of Tubing Purged (ft)	**12**
Number of Purge Volumes (default = 3 purge volumes)	**3**
Total Volume Purged (mL): formula valid only for tubing sizes of 1/8" I.D. (2.40 mL/ft) and 1/4" I.D. (9.60 mL/ft)	**60 mL**
Appreciable Amount of Rain (>1/2") in Last Five Days?	**NO**
Moisture / Water Present in Tubing?	**NO**

SOIL GAS SAMPLING EQUIPMENT

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Summa Canister Number	5808-739
Sampling Manifold / Flow Controller Number	MAN316-716
Leak Check Compound	Isopropyl Alcohol (2-propanol)

NOTES & COMMENTS

cc = cubic centimeter
mL = milliliter
1 L = 1000 mL
1 mL = 1 cc
in-Hg = inches of mercury
ft bgs = feet below ground surface

AEI CONSULTANTS
SOIL GAS SAMPLING FIELD FORM

SOIL GAS PROBE ID:	GP-4-5

Project Name:	Vic's Automotive	Date of Sampling:	05/08/08
Job Number:	116907	Start Time:	12:46
Project Address:	245 8th Street, Oakland, California	End Time:	12:51
		Name of Sampler:	R. Bartlett

SOIL GAS PROBE DATA

Starting Vacuum (in-Hg)	-28.0
Ending Vacuum (in-Hg)	-5.0
Flow Controller / Sampling Flow Rate (mL/min)	**200**
Tubing Inside Diameter (1/8" or 1/4")	**1/8"**
Tubing Type (Nylon, Kynar, Teflon, Stainless Steel)	KYNAR (PVDF)
Wellbox Condition	WELL BOX IN GOOD CONDITION
Depth of Probe (ft bgs)	**5**
Length of Tubing Above Grade (ft)	**2**
Total Length of Tubing Purged (ft)	**7**
Number of Purge Volumes (default = 3 purge volumes)	**3**
Total Volume Purged (mL): formula valid only for tubing sizes of 1/8" I.D. (2.40 mL/ft) and 1/4" I.D. (9.60 mL/ft)	**35 mL**
Appreciable Amount of Rain (>1/2") in Last Five Days?	**NO**
Moisture / Water Present in Tubing?	**NO**

SOIL GAS SAMPLING EQUIPMENT

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Summa Canister Number	24197-1268
Sampling Manifold / Flow Controller Number	MAN316-717
Leak Check Compound	Isopropyl Alcohol (2-propanol)

NOTES & COMMENTS

cc = cubic centimeter
mL = milliliter
1 L = 1000 mL
1 mL = 1 cc
in-Hg = inches of mercury
ft bgs = feet below ground surface

AEI CONSULTANTS

SOIL GAS SAMPLING FIELD FORM

SOIL GAS PROBE ID:	GP-4-10

Project Name:	Vic's Automotive	Date of Sampling:	05/08/08
Job Number:	116907	Start Time:	12:29
Project Address:	245 8th Street, Oakland, California	End Time:	12:34
		Name of Sampler:	R. Bartlett

SOIL GAS PROBE DATA

Starting Vacuum (in-Hg)	-29.0
Ending Vacuum (in-Hg)	-5.0
Flow Controller / Sampling Flow Rate (mL/min)	**200**
Tubing Inside Diameter (1/8" or 1/4")	**1/8"**
Tubing Type (Nylon, Kynar, Teflon, Stainless Steel)	KYNAR (PVDF)
Wellbox Condition	WELL BOX IN GOOD CONDITION
Depth of Probe (ft bgs)	**10**
Length of Tubing Above Grade (ft)	**2**
Total Length of Tubing Purged (ft)	**12**
Number of Purge Volumes (default = 3 purge volumes)	**3**
Total Volume Purged (mL): formula valid only for tubing sizes of 1/8" I.D. (2.40 mL/ft) and 1/4" I.D. (9.60 mL/ft)	**65 mL**
Appreciable Amount of Rain (>1/2") in Last Five Days?	**NO**
Moisture / Water Present in Tubing?	**NO**

SOIL GAS SAMPLING EQUIPMENT

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Summa Canister Number	5803-734
Sampling Manifold / Flow Controller Number	MAN316-718
Leak Check Compound	Isopropyl Alcohol (2-propanol)

NOTES & COMMENTS

cc = cubic centimeter
mL = milliliter
1 L = 1000 mL
1 mL = 1 cc
in-Hg = inches of mercury
ft bgs = feet below ground surface

APPENDIX C

LABORATORY ANALYTICAL REPORTS W/ CHAIN OF CUSTODY DOCUMENTATION

0803529

McCAMPBELL ANALYTICAL INC.

1538 Willow Pass Road, Pittsburg, CA 94565

Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

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

EDF Required? ☒ Yes ☐ No PDF Required? ☒ Yes ☐ No

Report To: Ricky Bradford	Bill To: same
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	E-Mail: rbradford@aeiconsultatns.com
Telephone: (925) 944-2899	Fax: (925) 944-2895
AEI Project No. 116907	Project Name: Vic's Automotive
Project Location: 245 8th Street, Oakland, CA 94607	
Sampler Signature: #153	

SAMPLE ID	FIELD POINT NAME	SAMPLING Date	SAMPLING Time	# of Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: TPH-g & MBTEX (SW8021B/8015Cm)	Analysis Request: TPH-d (SW8015Cm)	Analysis Request: TRPH (E418.1) w/ Silica Gel Clean-up by IRS	Analysis Request: Total Petroleum Oil & Grease (5520 E&F/B&F)	Analysis Request: *Total Lead (TTLC/E200.8)	Analysis Request: *For Lead Use 250 ml HDPE w/ HNO_3 preserv.	Analysis Request: TPC MOISTURE	Analysis Request: CAM 17 Metals	Analysis Request: LUFT 5 Metals	Other: HVOCs - 8010 target list (SW8260B)	Other: MTBE (SW8260B)	Other: **Flash Point (SW1010)	Other: **For FP Use 1 Liter Amber unpreserved	Comments
MW-13-5'	MW-13	3/17/08	1130	1	BT		X																					HOLD
MW-13-10'	MW-13		1145	1	BT		X																					
MW-13-15'	MW-13		1155	1	BT		X								X													
MW-13-20'	MW-13		1210	1	BT		X								X													
MW-9-15'	MW-9		0945	1	BT		X								X					X								
MW-9-20'	MW-9		0955	1	BT		X								X					X								
				1	BT		X																					
MW-8-5'	MW-8	3/18/08	1250	1	BT		X																					HOLD
MW-8-10'	MW-8		1305	1	BT		X																					
MW-8-15'	MW-8		1320	1	BT		X								X					X	X							
MW-8-20'	MW-8		1330	1	BT		X								X					X								
				1	BT		X																					
				1	BT		X																					

Comments: * Analysis request will follow in 1 or 2 days.

Relinquished By:	Date:	Time:	Received By:
	3/18/08	455	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 21.0

GOOD CONDITION ✓

HEAD SPACE ABSENT ____

DECHLORINATED IN LAB ____

PRESERVATION	VOAS	O&G	METALS	OTHER
APPROPRIATE CONTAINERS ✓				

PERSERVED IN LAB ____

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0803529 **ClientCode: AEL**

☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

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

Email: rbradford@aeiconsultants.com
TEL: (408) 559-7600 FAX: (408) 559-7601
PO:
ProjectNo: # 116907; Vic's Automotive

Bill to:
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received: **03/20/2008**
Date Printed: **03/24/2008**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0803529-003	MW-13-15'	Soil	3/17/2008 11:55	☐	A		A									
0803529-004	MW-13-20'	Soil	3/17/2008 12:10	☐	A											
0803529-005	MW-9-15'	Soil	3/17/2008 9:45	☐	A			A								
0803529-006	MW-9-20'	Soil	3/17/2008 9:55	☐	A			A								
0803529-009	MW-8-15'	Soil	3/18/2008 13:20	☐	A	A		A								
0803529-010	MW-8-20'	Soil	3/18/2008 13:30	☐	A			A								

Test Legend:

1	G-MBTEX_S	2	Moisture_S	3	PREDF REPORT	4	TOC_S	5	
6		7		8		9		10	
11		12							

Prepared by: Kimberly Burks

Comments: Off hold on 03/20/08 per Ricky.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
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

Sample Receipt Checklist

Client Name: **AEI Consultants**

Date and Time Received: **3/20/2008 7:26:13 PM**

Project Name: **# 116907; Vic's Automotive**

Checklist completed and reviewed by: Kimberly Burks

WorkOrder N°: **0803529** Matrix Soil

Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 21.6°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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: 03/17/08-03/18/08
2500 Camino Diablo, Ste. #200		Date Received: 03/20/08
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 03/20/08-03/24/08
	Client P.O.:	Date Analyzed 03/21/08-03/26/08

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0803529

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
003A	MW-13-15'	S	ND	ND	ND	ND	ND	ND	1	90
004A	MW-13-20'	S	ND	0.086	ND	ND	ND	ND	1	91
005A	MW-9-15'	S	ND	ND	ND	ND	ND	ND	1	84
006A	MW-9-20'	S	1.5,a	ND	0.37	0.0052	0.047	0.067	1	87
009A	MW-8-15'	S	ND	ND	ND	ND	ND	ND	1	97
010A	MW-8-20'	S	ND	ND	ND	ND	ND	ND	1	85

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	NA	NA	NA	NA	1	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/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 w/surrogate peak; low surrogate recovery due to matrix interference.

+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 organic / MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; 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

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: # 116907; Vic's Automotive	Date Sampled: 03/18/08
		Date Received: 03/20/08
	Client Contact: Ricky Bradford	Date Extracted: 03/24/08
	Client P.O.:	Date Analyzed 03/25/08

Percent Moisture

Analytical Method: ASTMD2216-92 Work Order: 0803529

Lab ID	Client ID	Matrix	% Moisture
0803529-009A	MW-8-15'	S	13.6

Method Accuracy and Reporting Units	W	NA
	S	±0.1, wet wt%

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

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: # 116907; Vic's Automotive	Date Sampled: 03/17/08-03/18/08
		Date Received: 03/20/08
	Client Contact: Ricky Bradford	Date Extracted: 03/21/08-03/22/08
	Client P.O.:	Date Analyzed 03/21/08-03/22/08

Total Organic Carbon (TOC)*

Analytical Method: SM5310B Work Order: 0803529

Lab ID	Client ID	Matrix	TOC	DF
0803529-005A	MW-9-15'	S	290	1
0803529-006A	MW-9-20'	S	ND	1
0803529-009A	MW-8-15'	S	440	1
0803529-010A	MW-8-20'	S	ND	1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	NA	
	S	200 mg/Kg	

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg.

* Non-Purgeable Organic Carbon=NPOC; TOC=Total Organic Carbon; DOC=Dissolved Organic Carbon; POC=Purgeable Organic Cabon; IC=Inorganic Carbon.

i) liquid sample contains greater than ~1 vol. % sediment; r) results are reported on a dry weight basis.

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: Soil QC Matrix: Soil WorkOrder 0803529

EPA Method SW8021B/8015Cm **Extraction SW5030B** **BatchID: 34507** **Spiked Sample ID: 0803513-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	99.8	105	4.79	100	108	8.16	70 - 130	20	70 - 130	20
MTBE	ND	0.10	88.7	93.9	5.69	93.7	96.6	3.07	70 - 130	20	70 - 130	20
Benzene	ND	0.10	90.3	88.2	2.33	99.7	96.9	2.80	70 - 130	20	70 - 130	20
Toluene	ND	0.10	83.8	82.6	1.47	111	107	3.05	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	91.3	89.9	1.54	108	104	3.69	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	84.7	85.1	0.506	116	114	2.37	70 - 130	20	70 - 130	20
%SS:	90	0.10	83	82	1.94	97	95	2.59	70 - 130	20	70 - 130	20

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

NONE

BATCH 34507 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0803529-003A	03/17/08 11:55 AM	03/24/08	03/21/08 11:47 PM	0803529-004A	03/17/08 12:10 PM	03/24/08	03/22/08 12:17 AM
0803529-005A	03/17/08 9:45 AM	03/24/08	03/22/08 12:47 AM	0803529-006A	03/17/08 9:55 AM	03/20/08	03/26/08 1:09 AM
0803529-009A	03/18/08 1:20 PM	03/24/08	03/26/08 3:39 AM	0803529-010A	03/18/08 1:30 PM	03/24/08	03/21/08 8:06 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 enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification N° 1644

QA/QC Officer

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 WET CHEMISTRY TESTS

Test Method: % Moisture **Matrix: S** **WorkOrder: 0803529**

Method Name: ASTMD2216-92 Units ±, wet wt% BatchID: 34409

Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
0803529-009A	13.6	1	14.6	1	7.3	<10

BATCH 34409 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0803529-009A	03/18/08 1:20 PM	03/24/08	03/25/08 4:10 PM				

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

RD = Absolute Value {Sample - Duplicate}

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

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 SM5310B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0803529

EPA Method SM5310B	Extraction SM5310B	BatchID: 34519	Spiked Sample ID: 0803529-005A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TOC	290	8200	99.2	101	1.35	101	99.9	0.936	70 - 130	20	80 - 120	20

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

NONE

BATCH 34519 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0803529-005A	03/17/08 9:45 AM	03/21/08	03/21/08 11:36 PM	0803529-006A	03/17/08 9:55 AM	03/22/08	03/22/08 12:15 AM
0803529-009A	03/18/08 1:20 PM	03/22/08	03/22/08 12:28 AM	0803529-010A	03/18/08 1:30 PM	03/22/08	03/22/08 12:41 AM

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.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification N° 1644

QA/QC Officer

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, 245 8th St, Oakland	Date Sampled: 05/15/08
		Date Received: 05/15/08
	Client Contact: Ricky Bradford	Date Reported: 05/21/08
	Client P.O.:	Date Completed: 05/20/08

WorkOrder: 0805423

May 21, 2008

Dear Ricky:

Enclosed within are:

1) The results of the **13** analyzed samples from your project: **#116907; Vic's Automotive, 245 8th**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

0805423

McCAMPBELL ANALYTICAL INC.

1538 Willow Pass Road, Pittsburg, CA 94565

Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

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

EDF Required? ☒ Yes ☐ No PDF Required? ☐ Yes ☐ No

Report To: Ricky Bradford	Bill To: same
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	E-Mail: rbradford@aeiconsultatns.com
Telephone: (925) 944-2899	Fax: (925) 944-2895
AEI Project No. 116907	Project Name: Vic's Automotive
Project Location: 245 8th Street, Oakland, CA 94607	
Sampler Signature:	

SAMPLE ID	FIELD POINT NAME	SAMPLING Date	SAMPLING Time	# of Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: TPH-g & MBTEX (SW8015C/8021B)	Analysis Request: TPH-d (SW8015C)	Other	Comments
MW-1	MW-1	5/15/08	1:30	3	VOAs	X		X			X	X			X			
MW-2	MW-2		10:50	3	VOAs	X		X			X	X			X			
MW-5	MW-5		10:30	3	VOAs	X		X			X	X			X			
MW-6	MW-6		2:00	3	VOAs	X		X			X	X			X			
MW-7	MW-7		2:25	3	VOAs	X		X			X	X			X			
MW-8	MW-8		9:35	3	VOAs	X		X			X	X			X			New Well
MW-9	MW-9		7:05	3	VOAs	X		X			X	X			X			New Well
MW-10	MW-10		12:45	3	VOAs	X		X			X	X			X			
MW-11	MW-11		12:40	3	VOAs	X		X			X	X			X			
MW-12	MW-12		12:30	3	VOAs	X		X			X	X			X			
MW-13	MW-13		7:00	3	VOAs	X		X			X	X			X			New Well
MW-3	MW-3		9:00	3	VOAs	X		X			X	X			X			
MW-4	MW-4		9:10	3	VOAs	X		X			X	X			X			

Relinquished By:	Date:	Time:	Received By:
	5/15/08	7:30	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 3.6

GOOD CONDITION ✓

HEAD SPACE ABSENT

DECHLORINATED IN LAB

PRESERVATION	VOAS	O&G	METALS	OTHER
APPROPRIATE ✓				
CONTAINERS ✓				
PERSERVED IN LAB				

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0805423 **ClientCode: AEL**

☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Ricky Bradford
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
(925) 283-6000 FAX (925) 944-2895

Email: rbradford@aeiconsultants.com
cc:
PO:
ProjectNo: #116907; Vic's Automotive, 245 8th St, Oakland

Bill to:
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received: **05/15/2008**
Date Printed: **05/15/2008**

					Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
0805423-001	MW-1	Water	5/15/2008 13:30	☐	A	A										
0805423-002	MW-2	Water	5/15/2008 10:40	☐	A											
0805423-003	MW-5	Water	5/15/2008 10:30	☐	A											
0805423-004	MW-6	Water	5/15/2008 14:00	☐	A											
0805423-005	MW-7	Water	5/15/2008 14:25	☐	A											
0805423-006	MW-8	Water	5/15/2008 9:35	☐	A											
0805423-007	MW-9	Water	5/15/2008 7:05	☐	A											
0805423-008	MW-10	Water	5/15/2008 12:45	☐	A											
0805423-009	MW-11	Water	5/15/2008 12:40	☐	A											
0805423-010	MW-12	Water	5/15/2008 12:30	☐	A											
0805423-011	MW-13	Water	5/15/2008 7:00	☐	A											
0805423-012	MW-3	Water	5/15/2008 9:00	☐	A											
0805423-013	MW-4	Water	5/15/2008 9:10	☐	A											

Test Legend:

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

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
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

Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **5/15/2008 7:46:17 PM**

Project Name: **#116907; Vic's Automotive, 245 8th St, Oakland** Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **0805423** Matrix Water Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 3.6°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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, 245 8th St, Oakland	Date Sampled: 05/15/08
		Date Received: 05/15/08
	Client Contact: Ricky Bradford	Date Extracted: 05/16/08-05/19/08
	Client P.O.:	Date Analyzed: 05/16/08-05/19/08

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0805423

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	25,000,a	ND<600	580	9200	970	4200	50	108
002A	MW-2	W	490,a	68	110	11	0.90	42	1	98
003A	MW-5	W	3000,a	ND<10	59	330	47	670	1	99
004A	MW-6	W	25,000,a	ND<150	410	2500	1000	3700	10	95
005A	MW-7	W	10,000,a	230	1700	1900	200	950	10	113
006A	MW-8	W	90,a	ND	0.62	2.4	ND	1.0	1	107
007A	MW-9	W	60,000,a	960	14,000	410	1500	3500	20	88
008A	MW-10	W	4800,a	ND<50	130	320	110	710	10	101
009A	MW-11	W	15,000,a	2300	2800	1400	120	1900	20	96
010A	MW-12	W	7800,a	1900	2000	500	130	640	20	93
011A	MW-13	W	ND<250,j	6700	18	ND<2.5	ND<2.5	ND<2.5	5	92
012A	MW-3	W	ND	ND	0.99	ND	ND	0.68	1	93
013A	MW-4	W	ND	ND	0.65	ND	ND	0.52	1	92

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: 0805423

EPA Method SW8021B/8015Cm Extraction SW5030B BatchID: 35669 Spiked Sample ID: 0805410-005A

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	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	99.6	105	5.53	103	106	2.78	70 - 130	20	70 - 130	20
MTBE	ND	10	92.8	98.3	5.70	95.8	99.7	3.93	70 - 130	20	70 - 130	20
Benzene	ND	10	88.5	94.8	6.83	91.6	95	3.64	70 - 130	20	70 - 130	20
Toluene	ND	10	87.8	93.5	6.29	90.4	93.3	3.18	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	92.2	97.7	5.83	94.7	97.6	3.01	70 - 130	20	70 - 130	20
Xylenes	ND	30	102	109	5.92	105	108	2.68	70 - 130	20	70 - 130	20
%SS:	106	10	90	91	0.715	91	91	0	70 - 130	20	70 - 130	20

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

NONE

BATCH 35669 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0805423-001A	05/15/08 1:30 PM	05/16/08	05/16/08 3:22 PM	0805423-002A	05/15/08 10:40 AM	05/17/08	05/17/08 12:47 AM
0805423-003A	05/15/08 10:30 AM	05/17/08	05/17/08 1:20 AM	0805423-004A	05/15/08 2:00 PM	05/16/08	05/16/08 3:53 PM
0805423-005A	05/15/08 2:25 PM	05/16/08	05/16/08 4:23 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 enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

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: 0805423

EPA Method SW8021B/8015Cm Extraction SW5030B BatchID: 35681 Spiked Sample ID: 0805461-001A

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	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	98.8	96.7	2.14	90.7	101	10.8	70 - 130	20	70 - 130	20
MTBE	ND	10	112	112	0	97.8	95.4	2.51	70 - 130	20	70 - 130	20
Benzene	ND	10	96	103	6.84	93	89.3	4.01	70 - 130	20	70 - 130	20
Toluene	ND	10	106	113	6.04	87.7	85.5	2.57	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	104	109	4.54	90.2	83.9	7.22	70 - 130	20	70 - 130	20
Xylenes	ND	30	115	120	3.86	82.2	80	2.74	70 - 130	20	70 - 130	20
%SS:	103	10	94	100	6.38	103	101	1.96	70 - 130	20	70 - 130	20

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

NONE

BATCH 35681 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0805423-006A	05/15/08 9:35 AM	05/17/08	05/17/08 1:53 AM	0805423-007A	05/15/08 7:05 AM	05/16/08	05/16/08 4:54 PM
0805423-007A	05/15/08 7:05 AM	05/19/08	05/19/08 8:28 PM	0805423-008A	05/15/08 12:45 PM	05/19/08	05/19/08 8:59 PM
0805423-009A	05/15/08 12:40 PM	05/16/08	05/16/08 3:16 PM	0805423-010A	05/15/08 12:30 PM	05/16/08	05/16/08 3:50 PM
0805423-011A	05/15/08 7:00 AM	05/16/08	05/16/08 4:25 PM	0805423-011A	05/15/08 7:00 AM	05/19/08	05/19/08 11:58 PM
0805423-012A	05/15/08 9:00 AM	05/17/08	05/17/08 2:25 AM	0805423-013A	05/15/08 9:10 AM	05/16/08	05/16/08 5:35 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 enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

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: 05/08/08
		Date Received: 05/12/08
	Client Contact: Ricky Bradford	Date Reported: 05/20/08
	Client P.O.:	Date Completed: 05/20/08

WorkOrder: 0805289

May 20, 2008

Dear Ricky:

Enclosed within are:

1) The results of the **8** analyzed samples from your project: **#116907; Vic's, Automotive,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

0805289

McCAMPBELL ANALYTICAL INC.

1534 Willow Pass Road
Pittsburg, CA 94565-1701
www.main@mccampbell.com
Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

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

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Ricky Bradford	Bill To: SAME
Company: AEI Consultants	
2500 Camino Diablo	
Walnut Creek, CA	E-Mail: rbradford@aeiconsultants.com
Tele: (925) 944-2899	Fax: (925) 944-2895
Project #: 116907	Project Name: Vic's
Project Location: Oakland, CA	
Sampler Signature:	

Lab Use Only

Pressurized By	Date	Pressurization Gas N2	Pressurization Gas He

Notes:

Field Sample ID (Location)	Collection Date	Collection Time	Canister SN#	Sampler Kit SN#	Analysis Requested	Indoor Air	Soil Gas	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
GP-1-5'	5/8/08	10:58	5805-736		(TPHg TO-3, MBTEX (w/ PROPANE) and PCE-TO-15)		X	-27.5	-5		
GP-1-10'	"	10:58	5800-731		" "		X	-29.0	-5		
GP-2-5'	"	10:12	5804		" "		X	-27.0	-5		
GP-2-10'	"	10:12	5807		" "		X	-29.0	-5		
GP-3-5	"	11:43	5809-740		" "		X	-28.5	-5		
GP-3-10	"	11:43	5808-739		" "		X	-28.0	-5		
GP-4-5	"	12:46	24197-1268		" "		X	-28.0	-5		
GP-4-10	"	12:29	5803-734		" "		X	-29.0	-5		

Relinquished By:	Date:	Time:	Received By:
	5/12	1:20pm	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Temp (°C): _____ Work Order #: _____

Condition: _____

Custody Seals Intact?: Yes _____ No _____ None _____

Shipped Via: _____

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0805289 **ClientCode: AEL**

☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Ricky Bradford
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
(925) 283-6000 FAX (925) 944-2895

Email: rbradford@aeiconsultants.com
cc:
PO:
ProjectNo: #116907; Vic's, Oakland, CA

Bill to:
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received: **05/12/2008**
Date Printed: **05/12/2008**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0805289-001	GP-1-5'	Soil Gas	5/8/2008 10:58	☐	A	A										
0805289-002	GP-1-10'	Soil Gas	5/8/2008 10:58	☐	A	A										
0805289-003	GP-2-5'	Soil Gas	5/8/2008 10:12	☐	A	A										
0805289-004	GP-2-10'	Soil Gas	5/8/2008 10:12	☐	A	A										
0805289-005	GP-3-5'	Soil Gas	5/8/2008 11:43	☐	A	A										
0805289-006	GP-3-10'	Soil Gas	5/8/2008 11:43	☐	A	A										
0805289-007	GP-4-5'	Soil Gas	5/8/2008 12:46	☐	A	A										
0805289-008	GP-4-10'	Soil Gas	5/8/2008 12:29	☐	A	A										

Test Legend:

1	TO15_SOILGAS	2	TO3_SOILGAS	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
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

Sample Receipt Checklist

Client Name: **AEI Consultants**
Date and Time Received: **05/12/08 1:32:21 PM**
Project Name: **#116907; Vic's, Oakland, CA**
Checklist completed and reviewed by: Ana Venegas
WorkOrder N°: **0805289** Matrix Soil Gas
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp:		NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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: 05/08/08
2500 Camino Diablo, Ste. #200		Date Received: 05/12/08
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 05/17/08
	Client P.O.:	Date Analyzed 05/17/08

Volatile Organic Compounds in µg/m³*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 0805289

Lab ID	0805289-001A	0805289-002A	0805289-003A	0805289-004A	Reporting Limit for DF =1	
Client ID	GP-1-5'	GP-1-10'	GP-2-5'	GP-2-10'		
Matrix	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor		
Initial Pressure	11.68	12.15	12.16	12.53		
Final Pressure	23.32	24.26	24.24	25	SoilVapor	W
Compound	**Concentration**				µg/m³	ug/L
Benzene	ND	ND	ND	ND	6.5	NA
Ethylbenzene	ND	ND	ND	ND	8.8	NA
Isopropyl Alcohol	ND	ND	ND	ND	25	NA
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	7.3	NA
Tetrachloroethene	ND	ND	ND	ND	14	NA
Toluene	ND	ND	ND	ND	7.7	NA
Xylenes	ND	ND	ND	ND	27	NA
Surrogate Recoveries (%)						
%SS1:	92	92	91	91		
%SS2:	102	100	100	102		
%SS3:	94	93	100	97		
Comments						

*vapor samples are reported in µg/m³.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

j) sample diluted due to high organic content; k) this compound's reporting limit does not meet the ESL for residential soil gas; m) this compound was analyzed by 8260B; p) see attached narrative.

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: 05/08/08
2500 Camino Diablo, Ste. #200		Date Received: 05/12/08
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 05/17/08
	Client P.O.:	Date Analyzed 05/17/08

Volatile Organic Compounds in µg/m³*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 0805289

Lab ID	0805289-005A	0805289-006A	0805289-007A	0805289-008A	Reporting Limit for DF =1	
Client ID	GP-3-5'	GP-3-10'	GP-4-5'	GP-4-10'		
Matrix	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor		
Initial Pressure	11.95	11.9	11.91	11.87		
Final Pressure	23.88	23.74	23.82	23.74	SoilVapor	W
Compound	**Concentration**				µg/m³	ug/L
Benzene	ND	ND	ND	ND	6.5	NA
Ethylbenzene	ND	ND	ND	ND	8.8	NA
Isopropyl Alcohol	ND	ND	ND	ND	25	NA
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	7.3	NA
Tetrachloroethene	ND	ND	ND	ND	14	NA
Toluene	ND	ND	ND	ND	7.7	NA
Xylenes	ND	ND	ND	ND	27	NA
Surrogate Recoveries (%)						
%SS1:	92	90	90	89		
%SS2:	103	101	102	101		
%SS3:	94	92	102	100		
Comments						

*vapor samples are reported in µg/m³.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

j) sample diluted due to high organic content; k) this compound's reporting limit does not meet the ESL for residential soil gas; m) this compound was analyzed by 8260B; p) see attached narrative.

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: 05/08/08
2500 Camino Diablo, Ste. #200		Date Received: 05/12/08
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 05/17/08
	Client P.O.:	Date Analyzed 05/17/08

Volatile Organic Compounds in nL/L*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 0805289

Lab ID	0805289-001A	0805289-002A	0805289-003A	0805289-004A	Reporting Limit for DF =1	
Client ID	GP-1-5'	GP-1-10'	GP-2-5'	GP-2-10'		
Matrix	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor		
Initial Pressure	11.68	12.15	12.16	12.53		
Final Pressure	23.32	24.26	24.24	25	SoilVapor	W
Compound	**Concentration**				nL/L	ug/L
Benzene	ND	ND	ND	ND	2.0	NA
Ethylbenzene	ND	ND	ND	ND	2.0	NA
Isopropyl Alcohol	ND	ND	ND	ND	10	NA
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	2.0	NA
Tetrachloroethene	ND	ND	ND	ND	2.0	NA
Toluene	ND	ND	ND	ND	2.0	NA
Xylenes	ND	ND	ND	ND	6.0	NA
Surrogate Recoveries (%)						
%SS1:	92	92	91	91		
%SS2:	102	100	100	102		
%SS3:	94	93	100	97		
Comments						

*vapor samples are reported in nL/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

j) sample diluted due to high organic content; k) this compound's reporting limit does not meet the ESL for residential soil gas; m) this compound was analyzed by 8260B; p) see attached narrative.

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: 05/08/08
2500 Camino Diablo, Ste. #200		Date Received: 05/12/08
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 05/17/08
	Client P.O.:	Date Analyzed 05/17/08

Volatile Organic Compounds in nL/L*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 0805289

Lab ID	0805289-005A	0805289-006A	0805289-007A	0805289-008A	Reporting Limit for DF =1	
Client ID	GP-3-5'	GP-3-10'	GP-4-5'	GP-4-10'		
Matrix	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor		
Initial Pressure	11.95	11.9	11.91	11.87		
Final Pressure	23.88	23.74	23.82	23.74	SoilVapor	W
Compound	**Concentration**				nL/L	ug/L
Benzene	ND	ND	ND	ND	2.0	NA
Ethylbenzene	ND	ND	ND	ND	2.0	NA
Isopropyl Alcohol	ND	ND	ND	ND	10	NA
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	2.0	NA
Tetrachloroethene	ND	ND	ND	ND	2.0	NA
Toluene	ND	ND	ND	ND	2.0	NA
Xylenes	ND	ND	ND	ND	6.0	NA
Surrogate Recoveries (%)						
%SS1:	92	90	90	89		
%SS2:	103	101	102	101		
%SS3:	94	92	102	100		
Comments						

*vapor samples are reported in nL/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

j) sample diluted due to high organic content; k) this compound's reporting limit does not meet the ESL for residential soil gas; m) this compound was analyzed by 8260B; p) see attached narrative.

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: 05/08/08
2500 Camino Diablo, Ste. #200		Date Received: 05/12/08
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 05/19/08
	Client P.O.:	Date Analyzed 05/19/08

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline in µg/m³*

Extraction method TO3 Analytical methods TO3 Work Order: 0805289

Lab ID	Client ID	Matrix	Initial Pressure	Final Pressure	TPH(g)	DF	% SS
001A	GP-1-5'	SoilVapor	11.68	23.32	ND	1	N/A
002A	GP-1-10'	SoilVapor	12.15	24.26	ND	1	N/A
003A	GP-2-5'	SoilVapor	12.16	24.24	ND	1	N/A
004A	GP-2-10'	SoilVapor	12.53	25	ND	1	N/A
005A	GP-3-5'	SoilVapor	11.95	23.88	ND	1	N/A
006A	GP-3-10'	SoilVapor	11.9	23.74	ND	1	N/A
007A	GP-4-5'	SoilVapor	11.91	23.82	ND	1	N/A
008A	GP-4-10'	SoilVapor	11.87	23.74	ND	1	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W			NA	NA
	SoilVapor			1800	µg/m³

*soil vapor samples are reported in µg/m³.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

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?) g) strongly aged gasoline or diesel range compounds are significant; j) sample diluted due to high organic content; k) this compound's reporting limit does not meet the ESL for residential soil gas; m) no recognizable pattern.j) sample diluted due to high organic content.

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

AEI Consultants	Client Project ID: #116907; Vic's, Automotive	Date Sampled: 05/08/08
2500 Camino Diablo, Ste. #200		Date Received: 05/12/08
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 05/19/08
	Client P.O.:	Date Analyzed 05/19/08

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline in nL/L*

Extraction method TO3 Analytical methods TO3 Work Order: 0805289

Lab ID	Client ID	Matrix	Initial Pressure	Final Pressure	TPH(g)	DF	% SS
001A	GP-1-5'	SoilVapor	11.68	23.32	ND	1	N/A
002A	GP-1-10'	SoilVapor	12.15	24.26	ND	1	N/A
003A	GP-2-5'	SoilVapor	12.16	24.24	ND	1	N/A
004A	GP-2-10'	SoilVapor	12.53	25	ND	1	N/A
005A	GP-3-5'	SoilVapor	11.95	23.88	ND	1	N/A
006A	GP-3-10'	SoilVapor	11.9	23.74	ND	1	N/A
007A	GP-4-5'	SoilVapor	11.91	23.82	ND	1	N/A
008A	GP-4-10'	SoilVapor	11.87	23.74	ND	1	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W			NA	NA
	SoilVapor			500	nL/L

*soil vapor samples are reported in nL/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

j) sample diluted due to high organic content.

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 TO15

W.O. Sample Matrix: Soil Vapor QC Matrix: Soil Vapor WorkOrder: 0805289

EPA Method TO15	Extraction TO15				BatchID: 35553			Spiked Sample ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	nL/L	nL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Benzene	N/A	25	N/A	N/A	N/A	109	103	5.61	N/A	N/A	70 - 130	30
Ethylbenzene	N/A	25	N/A	N/A	N/A	109	103	5.39	N/A	N/A	70 - 130	30
Methyl-t-butyl ether (MTBE)	N/A	25	N/A	N/A	N/A	116	111	4.49	N/A	N/A	70 - 130	30
Toluene	N/A	25	N/A	N/A	N/A	105	99.3	5.69	N/A	N/A	70 - 130	30
Xylenes	N/A	75	N/A	N/A	N/A	108	102	5.48	N/A	N/A	70 - 130	30
%SS1:	N/A	500	N/A	N/A	N/A	102	97	4.90	N/A	N/A	70 - 130	30
%SS2:	N/A	500	N/A	N/A	N/A	104	99	5.47	N/A	N/A	70 - 130	30
%SS3:	N/A	500	N/A	N/A	N/A	104	99	5.20	N/A	N/A	70 - 130	30

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

NONE

BATCH 35553 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0805289-001A	05/08/08 10:58 AM	05/12/08	05/17/08 2:07 AM	0805289-002A	05/08/08 10:58 AM	05/12/08	05/17/08 2:55 AM
0805289-003A	05/08/08 10:12 AM	05/12/08	05/17/08 3:44 AM	0805289-004A	05/08/08 10:12 AM	05/12/08	05/17/08 4:32 AM
0805289-005A	05/08/08 11:43 AM	05/12/08	05/17/08 5:21 AM	0805289-006A	05/08/08 11:43 AM	05/12/08	05/17/08 6:09 AM
0805289-007A	05/08/08 12:46 PM	05/12/08	05/17/08 6:59 AM	0805289-008A	05/08/08 12:29 PM	05/12/08	05/17/08 7:46 AM

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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification N° 1644

QA/QC Officer

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 TO3

W.O. Sample Matrix: Soil Vapor QC Matrix: Soil Vapor WorkOrder: 0805289

EPA Method TO3	Extraction TO3				BatchID: 35552			Spiked Sample ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	nL/L	nL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(g)	N/A	1250	N/A	N/A	N/A	101	101	0	N/A	N/A	70 - 130	20

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

NONE

BATCH 35552 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0805289-001A	05/08/08 10:58 AM	05/12/08	05/19/08 7:27 PM	0805289-002A	05/08/08 10:58 AM	05/12/08	05/19/08 2:30 PM
0805289-003A	05/08/08 10:12 AM	05/12/08	05/19/08 3:09 PM	0805289-004A	05/08/08 10:12 AM	05/12/08	05/19/08 3:44 PM
0805289-005A	05/08/08 11:43 AM	05/12/08	05/19/08 4:23 PM	0805289-006A	05/08/08 11:43 AM	05/12/08	05/19/08 4:59 PM
0805289-007A	05/08/08 12:46 PM	05/12/08	05/19/08 5:36 PM	0805289-008A	05/08/08 12:29 PM	05/12/08	05/19/08 6:12 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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification N° 1644

QA/QC Officer

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: 06/26/08
		Date Received: 06/26/08
	Client Contact: Ricky Bradford	Date Reported: 07/03/08
	Client P.O.:	Date Completed: 07/03/08

WorkOrder: 0806739

July 03, 2008

Dear Ricky:

Enclosed within are:

1) The results of the **12** analyzed samples from your project: **# 116907; Vic's Automotive,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

080607 39

McCAMPBELL ANALYTICAL INC.

1538 Willow Pass Road, Pittsburg, CA 94565

Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

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

EDF Required? ☒ Yes ☐ No PDF Required? ☒ Yes ☐ No

Report To: Ricky Bradford	Bill To: same
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	E-Mail: rbradford@aeiconsultatns.com
Telephone: (925) 944-2899	Fax: (925) 944-2895
AEI Project No. 116907	Project Name: Vic's Automotive
Project Location: 245 8th Street, Oakland, CA 94607	
Sampler Signature: #153	

SAMPLE ID	FIELD POINT NAME	SAMPLING Date	SAMPLING Time	# of Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED Ice	HCl	HNO_3	Other	Analysis Request: TPH-g & MBTEX (SW8021B/8015Cm)	TPH-d (SW8015Cm)	TRPH (E418.1) w/ Silica Gel Clean-up by IRS	Total Petroleum Oil & Grease (5520 E&F/B&F)	*Total Lead (TTLC/E200.8)	*For Lead Use 250 ml HDPE w/ HNO_3 preserv.	CAM 17 Metals	LUFT 5 Metals	Other: HVOCs - 8010 target list (SW8260B)	MTBE (SW8260B)	**Flash Point (SW1010)	**For FP Use 1 Liter Amber unpreserved	Comments: Report in both units - ug/L and ppmv
~~MW-1S~~	~~MW-1S~~	~~6/26/08~~	—	1	TB			X							No	SAMPLE											X
~~MW-2S~~	~~MW-2S~~		—	1	TB			X							NO	SAMPLE											X
~~MW-5S~~	~~MW-5S~~		—	1	TB			X							NO	SAMPLE											~~X~~
MW-6S	MW-6S	6/26/08	1150	1	TB			X							X												~~X~~
MW-7S	MW-7S		1150	1	TB			X							X												X
MW-10S	MW-10S		1112	1	TB			X							X												X
MW-11S	MW-11S		1116	1	TB			X							X												X
MW-12S	MW-12S		1120	1	TB			X							X												X
POSTD	POSTD		1107	1	TB			X							X												X
PRED	PRED		1105	1	TB			X							X												X
AS	AS		1123	1	TB			X							X												X
STACK	STACK	↓	1115	1	TB			X							X												X

Relinquished By:	Date:	Time:	Received By:
	6/26/08	3:10PM	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

	VOAS	O&G	METALS	OTHER
ICE/t°_____	PRESERVATION			
GOOD CONDITION_____	APPROPRIATE			
HEAD SPACE ABSENT_____	CONTAINERS			
DECHLORINATED IN LAB_____	PERSERVED IN LAB			

McCAMPBELL ANALYTICAL INC.

1538 Willow Pass Road, Pittsburg, CA 94565

Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

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

EDF Required? ☒ Yes ☐ No PDF Required? ☒ Yes ☐ No

Report To: Ricky Bradford	**Bill To:** same
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	**E-Mail:** rbradford@aeiconsultatns.com
Telephone: (925) 944-2899	**Fax:** (925) 944-2895
AEI Project No. 116907	**Project Name:** Vic's Automotive
Project Location: 245 8th Street, Oakland, CA 94607	
Sampler Signature: #153	

SAMPLE ID	FIELD POINT NAME	SAMPLING Date	SAMPLING Time	# of Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other
INF	INF	6/26/08	1135	3	3VOA	X					X	X		
POST-AS	POST-AS	"	1140	3	3VOA	X					X	X		
~~POST-CI~~	~~POST-CI~~			3	3VOA	X					X	X		
EFF	EFF	"	1138	3	3VOA ~~2AMB~~	X					X	X		

Analysis Request

TPH-g & MBTEX (SW8015Cm /SW8021B)	TPH-d (SW8015Cm)	**Total Oil & Grease HC (1664 HEM-SGT)	**For TOG HC Use 1 Liter Ambers (w/ HCl)	*Total Lead (TTLC/E200.8)	*For Lead Use 250 ml HDPE (w/ HNO_3)	EBMUD 7 Metals (Cd, Cr, Cu, Pb, Hg, Ni, Zn)	CAM 17 Metals (200.7)	PP13 Metals	RCRA 8 Metals (Ag, As, Ba, Cd, Cr, Hg, Pb, Se)	LUFT 5 Metals (Cd, Cr, Ni, Pb, Zn)
X										
X										
NO SAMPLE										
X										

Other

HVOCs - 8010 target list (SW8260B)	MTBE (SW8260B)	**Flash Point (SW1010)	**For FP Use 1 Liter Amber (unpreserved)

Comments

Flow Totalizer Reading 1,035,000

Relinquished By:	Date:	Time:	Received By:
	6/26/08	3:10PM	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

	VOAS	O&G	METALS	OTHER
ICE/t° 8.7	PRESERVATION			
GOOD CONDITION ✓	APPROPRIATE ✓			
HEAD SPACE ABSENT	CONTAINERS			
DECHLORINATED IN LAB	PERSERVED IN LAB			

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0806739 **ClientCode: AEL**

☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Ricky Bradford
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
(925) 283-6000 FAX (925) 944-2895

Email: rbradford@aeiconsultants.com
cc:
PO:
ProjectNo: # 116907; Vic's Automotive

Bill to:
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received: **06/26/2008**
Date Printed: **06/26/2008**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0806739-001	MW-6S	Air	6/26/2008 11:50	☐	A		A									
0806739-002	MW-7S	Air	6/26/2008 11:50	☐	A											
0806739-003	MW-10S	Air	6/26/2008 11:12	☐	A											
0806739-004	MW-11S	Air	6/26/2008 11:16	☐	A											
0806739-005	MW-12S	Air	6/26/2008 11:20	☐	A											
0806739-006	POSTD	Air	6/26/2008 11:07	☐	A											
0806739-007	PRED	Air	6/26/2008 11:05	☐	A											
0806739-008	AS	Air	6/26/2008 11:23	☐	A											
0806739-009	STACK	Air	6/26/2008 11:15	☐	A											
0806739-010	INF	Water	6/26/2008 11:35	☐		A										
0806739-011	POST-AS	Water	6/26/2008 11:40	☐		A										
0806739-012	EFF	Water	6/26/2008 11:38	☐		A										

Test Legend:

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

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A contain testgroup.

Prepared by: Kimberly Burks

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
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

Sample Receipt Checklist

Client Name: **AEI Consultants**

Date and Time Received: **6/26/2008 5:21:00 PM**

Project Name: **# 116907; Vic's Automotive**

Checklist completed and reviewed by: Kimberly Burks

WorkOrder N°: **0806739** Matrix Air/Water

Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☐	No ☑	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 8.7°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

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: 06/26/08
		Date Received: 06/26/08
2500 Camino Diablo, Ste. #200	Client Contact: Ricky Bradford	Date Extracted: 06/27/08
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed 06/27/08

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0806739

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-6S	A	1400,d1	ND<45	6.5	68	14	110	10	128
002A	MW-7S	A	17,000,d1	ND<110	180	270	18	490	20	114
003A	MW-10S	A	2800,d1	ND<5.0	13	57	22	170	2	103
004A	MW-11S	A	3400,d1	ND<60	40	110	37	250	4	128
005A	MW-12S	A	1100,d1	15	16	52	12	95	1	112
006A	POSTD	A	2200,d1	ND<35	25	96	24	200	10	105
007A	PRED	A	3100,d1	ND<20	36	110	29	220	1	99
008A	AS	A	160,d1	3.6	2.9	9.7	2.4	28	1	97
009A	STACK	A	ND	ND	ND	ND	ND	ND	1	104

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	50	5.0	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in µg/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:

d1) weakly modified or unmodified gasoline is significant

DHS ELAP Certification 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

AEI Consultants	Client Project ID: # 116907; Vic's Automotive	Date Sampled: 06/26/08
		Date Received: 06/26/08
2500 Camino Diablo, Ste. #200	Client Contact: Ricky Bradford	Date Extracted: 06/27/08
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed 06/27/08

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0806739

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-6S	A	400,d1	ND<10	2.0	18	3.1	24	10	128
002A	MW-7S	A	4800,d1	ND<30	56	71	4.0	110	20	114
003A	MW-10S	A	780,d1	ND<1.4	4.1	15	4.9	38	2	103
004A	MW-11S	A	940,d1	ND<15	12	28	8.4	57	4	128
005A	MW-12S	A	300,d1	4.1	5.1	14	2.6	22	1	112
006A	POSTD	A	620,d1	ND<10	7.8	25	5.4	45	10	105
007A	PRED	A	860,d1	ND<5.0	11	27	6.5	50	1	99
008A	AS	A	44,d1	0.97	0.89	2.5	0.54	6.3	1	97
009A	STACK	A	ND	ND	ND	ND	ND	ND	1	104

ppm (mg/L) to ppmv (ul/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	7.0	0.68	0.077	0.065	0.057	0.057	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

d1) weakly modified or unmodified gasoline is significant

DHS ELAP Certification 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

AEI Consultants	Client Project ID: # 116907; Vic's Automotive	Date Sampled: 06/26/08
		Date Received: 06/26/08
2500 Camino Diablo, Ste. #200	Client Contact: Ricky Bradford	Date Extracted: 06/29/08-07/02/08
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed 06/29/08-07/02/08

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0806739

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
010A	INF	W	7600,d1	260	130	360	82	1100	10	101
011A	POST-AS	W	70,d2	27	ND	1.1	ND	6.3	1	108
012A	EFF	W	ND	37	ND	ND	ND	ND	1	97

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	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	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:

d1) weakly modified or unmodified gasoline is significant
d2) heavier gasoline range compounds are significant (aged gasoline?)

DHS ELAP Certification 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: Air QC Matrix: Water WorkOrder 0806739

EPA Method SW8021B/8015Cm **Extraction SW5030B** **BatchID: 36565** **Spiked Sample ID: 0806751-007A**

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	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	100	96.3	3.85	84.7	81.8	3.41	70 - 130	20	70 - 130	20
MTBE	ND	10	116	109	5.72	98.8	97.6	1.23	70 - 130	20	70 - 130	20
Benzene	ND	10	104	107	2.13	94.1	91.7	2.62	70 - 130	20	70 - 130	20
Toluene	ND	10	96.2	95.7	0.475	91.8	89.5	2.61	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	102	105	3.13	92.9	91.1	1.93	70 - 130	20	70 - 130	20
Xylenes	ND	30	103	101	2.38	86	84.9	1.24	70 - 130	20	70 - 130	20
%SS:	93	10	95	94	0.605	105	102	2.92	70 - 130	20	70 - 130	20

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

NONE

BATCH 36565 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0806739-001A	06/26/08 11:50 AM	06/27/08	06/27/08 4:31 AM	0806739-002A	06/26/08 11:50 AM	06/27/08	06/27/08 5:00 AM
0806739-003A	06/26/08 11:12 AM	06/27/08	06/27/08 5:30 AM	0806739-004A	06/26/08 11:16 AM	06/27/08	06/27/08 6:00 AM
0806739-005A	06/26/08 11:20 AM	06/27/08	06/27/08 6:29 AM	0806739-006A	06/26/08 11:07 AM	06/27/08	06/27/08 6:59 AM
0806739-007A	06/26/08 11:05 AM	06/27/08	06/27/08 7:29 AM	0806739-008A	06/26/08 11:23 AM	06/27/08	06/27/08 7:58 AM
0806739-009A	06/26/08 11:15 AM	06/27/08	06/27/08 7:17 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 enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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 0806739

EPA Method SW8021B/8015Cm Extraction SW5030B BatchID: 36555 Spiked Sample ID: 0806737-002A

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	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	84.1	94.2	11.3	96.2	98.5	2.27	70 - 130	20	70 - 130	20
MTBE	ND	10	120	114	5.26	110	101	8.11	70 - 130	20	70 - 130	20
Benzene	ND	10	114	118	3.01	100	104	3.59	70 - 130	20	70 - 130	20
Toluene	ND	10	102	108	5.91	100	103	2.73	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	108	111	2.82	106	109	3.20	70 - 130	20	70 - 130	20
Xylenes	ND	30	108	105	3.23	117	120	2.71	70 - 130	20	70 - 130	20
%SS:	95	10	94	100	6.21	93	90	3.34	70 - 130	20	70 - 130	20

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

NONE

BATCH 36555 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0806739-010A	06/26/08 11:35 AM	07/01/08	07/01/08 5:58 AM	0806739-011A	06/26/08 11:40 AM	07/02/08	07/02/08 6:25 AM
0806739-012A	06/26/08 11:38 AM	06/29/08	06/29/08 8:15 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 enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

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, 245 8th Street, Oakland	Date Sampled: 05/29/08
		Date Received: 05/29/08
	Client Contact: Ricky Bradford	Date Reported: 06/03/08
	Client P.O.:	Date Completed: 06/02/08

WorkOrder: 0805727

June 04, 2008

Dear Ricky:

Enclosed within are:

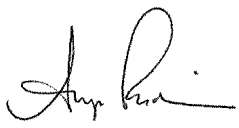
1) The results of the **4** analyzed samples from your project: **#116907; Vic's Automotive, 245 8th**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

0805727

McCAMPBELL ANALYTICAL INC.

1538 Willow Pass Road, Pittsburg, CA 94565

Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

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

EDF Required? ☒ Yes ☐ No PDF Required? ☒ Yes ☐ No

Report To: Ricky Bradford	Bill To: same
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	E-Mail: rbradford@aeiconsultatns.com
Telephone: (925) 944-2899	Fax: (925) 944-2895
AEI Project No. 116907	Project Name: Vic's Automotive
Project Location: 245 8th Street, Oakland, CA 94607	
Sampler Signature:	

	SAMPLE ID	FIELD POINT NAME	SAMPLING Date	SAMPLING Time	# of Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED Ice	HCl	HNO_3	Other	TPH-g & MBTEX (SW8015Cm /SW8021B)	TPH-d (SW8015Cm)	**Total Oil & Grease HC (1664 HEM-SGT)	**For TOG HC Use 1 Liter Ambers (w/ HCl)	*Total Lead (TTLC/E200.8)	*For Lead Use 250 ml HDPE (w/ HNO_3)	EBMUD 7 Metals (Cd, Cr, Cu, Pb, Hg, Ni, Zn)	CAM 17 Metals (200.7)	PP13 Metals	RCRA 8 Metals (Ag, As, Ba, Cd, Cr, Hg, Pb, Se)	LUFT 5 Metals (Cd, Cr, Ni, Pb, Zn)	HVOCs - 8010 target list (SW8260B)	MTBE (SW8260B)	**Flash Point (SW1010)	**For FP Use 1 Liter Amber (unpreserved)	Flow Totalizer Reading
(+)	INF	INF	5/29/08	0845	3	3VOA	X					X	X			X															
(+)	POST-AS	POST-AS	↓	0910	3	3VOA	X					X	X			X															
	~~POST-C1~~	~~POST-C1~~			~~3~~	~~3VOA~~	~~X~~					~~X~~	~~X~~			~~X~~	NO SAMPLE FOR POST-C1														
(+)	EFF	EFF	↓	0900	3 ~~5~~	3VOA ~~2AMB~~	X					X	X			X															
(+)	MW-9D	MW-9D	↓	0820	4	3 VOA 1 AMB						XX				X															

Relinquished By:	Date:	Time:	Received By:
	5/29/08	1540	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 34

GOOD CONDITION ✓

HEAD SPACE ABSENT ____

DECHLORINATED IN LAB ____

PRESERVATION	VOAS	O&G	METALS	OTHER
APPROPRIATE				
CONTAINERS ✓				

PERSERVED IN LAB ____

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0805727 **ClientCode: AEL**

☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Ricky Bradford
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
(925) 283-6000 FAX (925) 944-2895

Email: rbradford@aeiconsultants.com
cc:
PO:
ProjectNo: #116907; Vic's Automotive, 245 8th Street, Oakland

Bill to:
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received: **05/29/2008**
Date Printed: **05/29/2008**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0805727-001	INF	Water	5/29/2008 8:45	☐	A	A										
0805727-002	POST-AS	Water	5/29/2008 9:10	☐	A											
0805727-003	EFF	Water	5/29/2008 9:00	☐	A											
0805727-004	MW-9D	Water	5/29/2008 8:20	☐	A											

Test Legend:

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

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
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

Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **5/29/2008 5:19:08 PM**

Project Name: **#116907; Vic's Automotive, 245 8th Street, Oaklan** Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **0805727** Matrix Water Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☐	No ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 3.4°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

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, 245 8th Street, Oakland	Date Sampled: 05/29/08
		Date Received: 05/29/08
	Client Contact: Ricky Bradford	Date Extracted: 05/30/08
	Client P.O.:	Date Analyzed 05/30/08

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0805727

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	W	13,000,a	310	140	470	170	1800	20	98
002A	POST-AS	W	100,b	20	ND	ND	ND	6.7	1	87
003A	EFF	W	ND	27	ND	ND	ND	ND	1	100
004A	MW-9D	W	27,000,a	ND<300	6300	180	700	2100	20	103

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 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 0805727

EPA Method SW8021B/8015Cm **Extraction SW5030B** **BatchID: 35964** **Spiked Sample ID: 0805735-001A**

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	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	81.5	97.1	17.5	77.6	85.8	10.0	70 - 130	20	70 - 130	20
MTBE	ND	10	77.6	94	19.2	74.2	80.8	8.47	70 - 130	20	70 - 130	20
Benzene	ND	10	76.6	89.2	15.1	77.9	82	5.18	70 - 130	20	70 - 130	20
Toluene	ND	10	75.7	91.2	18.6	76.8	80.5	4.80	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	76.2	88.3	14.8	78.6	82.6	5.01	70 - 130	20	70 - 130	20
Xylenes	ND	30	76.4	85.3	11.1	72.8	77.3	6.03	70 - 130	20	70 - 130	20
%SS:	102	10	101	102	1.55	101	101	0	70 - 130	20	70 - 130	20

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

NONE

BATCH 35964 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0805727-001A	05/29/08 8:45 AM	05/30/08	05/30/08 3:11 PM	0805727-002A	05/29/08 9:10 AM	05/30/08	05/30/08 3:41 PM
0805727-003A	05/29/08 9:00 AM	05/30/08	05/30/08 4:12 PM	0805727-004A	05/29/08 8:20 AM	05/30/08	05/30/08 2:53 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 enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

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, 245 8th Street, Oakland	Date Sampled: 05/29/08
		Date Received: 05/29/08
	Client Contact: Ricky Bradford	Date Reported: 06/03/08
	Client P.O.:	Date Completed: 06/02/08

WorkOrder: 0805723

June 03, 2008

Dear Ricky:

Enclosed within are:

1) The results of the **7** analyzed samples from your project: **#116907; Vic's Automotive, 245 8th**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

0805723

McCAMPBELL ANALYTICAL INC.

1538 Willow Pass Road, Pittsburg, CA 94565

Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

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

EDF Required? ☒ Yes ☐ No PDF Required? ☒ Yes ☐ No

Report To: Ricky Bradford	Bill To: same
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	E-Mail: rbradford@aeiconsultatns.com
Telephone: (925) 944-2899	Fax: (925) 944-2895
AEI Project No. 116907	Project Name: Vic's Automotive
Project Location: 245 8th Street, Oakland, CA 94607	
Sampler Signature: #153	

SAMPLE ID	FIELD POINT NAME	SAMPLING Date	SAMPLING Time	# of Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: TPH-g & MBTEX (SW8021B/8015Cm)	Analysis Request: TPH-d (SW8015Cm)	Analysis Request: TRPH (E418.1) w/ Silica Gel Clean-up by IRS	Analysis Request: Total Petroleum Oil & Grease (5520 E&F/B&F)	Analysis Request: *Total Lead (TTLC/E200.8)	Analysis Request: *For Lead Use 250 ml HDPE w/ HNO_3 preserv.	Analysis Request: CAM 17 Metals	Analysis Request: LUFT 5 Metals	Other: HVOCs - 8010 target list (SW8260B)	Other: MTBE (SW8260B)	Other: **Flash Point (SW1010)	Other: **For FP Use 1 Liter Amber unpreserved	Comments: Report in both units - ug/L and ppmv
~~MW-1S~~	~~MW-1S~~			~~1~~	~~TB~~			~~X~~																			X
~~MW-2S~~	~~MW-2S~~			~~1~~	~~TB~~			~~X~~																			X
~~MW-5S~~	~~MW-5S~~			~~1~~	~~TB~~			~~X~~																			~~X~~
~~MW-6S~~	~~MW-6S~~			~~1~~	~~TB~~			~~X~~																			~~X~~
~~MW-7S~~	~~MW-7S~~			~~1~~	~~TB~~			X																			X
MW-10S	MW-10S	5/29/08	1112	1	TB			X							X													X
MW-11S	MW-11S		1115	1	TB			X							X													X
MW-12S	MW-12S		1120	1	TB			X							X													X
POSTD	POSTD		1110	1	TB			X							X													X
PRED	PRED		1100	1	TB			X							X													X
AS	AS		1120	1	TB			X							X													X
STACK	STACK		1125	1	TB			X							X													X

Relinquished By:	Date:	Time:	Received By:
	5/29/08	1540	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____ PRESERVATION VOAS | O&G | METALS | OTHER

GOOD CONDITION_____ APPROPRIATE

HEAD SPACE ABSENT_____ CONTAINERS_____

DECHLORINATED IN LAB_____ PERSERVED IN LAB_____

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0805723 **ClientCode: AEL**

☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Ricky Bradford
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
(925) 283-6000 FAX (925) 944-2895

Email: rbradford@aeiconsultants.com
cc:
PO:
ProjectNo: #116907; Vic's Automotive, 245 8th Street, Oakland

Bill to:
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received: **05/29/2008**
Date Printed: **05/29/2008**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
0805723-001	MW-10S	Air	5/29/2008 11:12	☐	A	A										
0805723-002	MW-11S	Air	5/29/2008 11:15	☐	A											
0805723-003	MW-12S	Air	5/29/2008 11:20	☐	A											
0805723-004	POSTD	Air	5/29/2008 11:10	☐	A											
0805723-005	PRED	Air	5/29/2008 11:00	☐	A											
0805723-006	AS	Air	5/29/2008 11:20	☐	A											
0805723-007	STACK	Air	5/29/2008 11:25	☐	A											

Test Legend:

1	G-MBTEX_AIR	2	PREDF REPORT	3		4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A contain testgroup.

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
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

Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **5/29/2008 4:12:02 PM**

Project Name: **#116907; Vic's Automotive, 245 8th Street, Oaklan** Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **0805723** Matrix Air Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp:		NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

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, 245 8th Street, Oakland	Date Sampled: 05/29/08
		Date Received: 05/29/08
	Client Contact: Ricky Bradford	Date Extracted: 05/29/08-05/30/08
	Client P.O.:	Date Analyzed 05/29/08-05/30/08

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0805723

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-10S	A	6600,a	ND<25	42	180	74	550	10	108
002A	MW-11S	A	6500,a	ND<110	78	180	81	510	10	109
003A	MW-12S	A	1800,a	ND<45	46	90	19	130	4	113
004A	POSTD	A	1800,a	ND<45	17	45	18	130	1	84
005A	PRED	A	7500,a	ND<35	67	170	78	530	4	93
006A	AS	A	ND	ND	ND	ND	ND	0.70	1	101
007A	STACK	A	ND	ND	ND	ND	ND	ND	1	95
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		A	25	2.5	0.25	0.25	0.25	0.25	1	µg/L
		S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples are reported in µg/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 organic / MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS ELAP Certification 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

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #116907; Vic's Automotive, 245 8th Street, Oakland	Date Sampled: 05/29/08
		Date Received: 05/29/08
	Client Contact: Ricky Bradford	Date Extracted: 05/29/08-05/30/08
	Client P.O.:	Date Analyzed 05/29/08-05/30/08

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0805723

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-10S	A	1800,a	ND<6.8	13	47	17	120	10	108
002A	MW-11S	A	1800,a	ND<30	24	47	18	120	10	109
003A	MW-12S	A	490,a	ND<10	14	23	4.4	30	4	113
004A	POSTD	A	500,a	ND<3.5	5.4	12	4.1	29	1	84
005A	PRED	A	2100,a	ND<10	21	45	18	120	4	93
006A	AS	A	ND	ND	ND	ND	ND	0.16	1	101
007A	STACK	A	ND	ND	ND	ND	ND	ND	1	95

ppm (mg/L) to ppmv (ul/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	7.0	0.68	0.077	0.065	0.057	0.057	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* vapor samples are reported in µL/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L, water samples and all TCLP & SPLP extracts are reported in µg/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 organic / MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

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: Air QC Matrix: Water WorkOrder 0805723

EPA Method SW8021B/8015Cm **Extraction SW5030B** **BatchID: 35932** **Spiked Sample ID: 0805702-011A**

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	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	92.5	97.8	5.65	88.7	86.5	2.58	70 - 130	20	70 - 130	20
MTBE	ND	10	110	107	2.37	93.8	90.3	3.84	70 - 130	20	70 - 130	20
Benzene	ND	10	96.5	96.3	0.157	91.5	88.3	3.52	70 - 130	20	70 - 130	20
Toluene	ND	10	107	107	0	87.8	85.2	3.05	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	104	104	0	88.7	82.4	7.34	70 - 130	20	70 - 130	20
Xylenes	ND	30	115	114	0.607	81.8	81	1.03	70 - 130	20	70 - 130	20
%SS:	94	10	94	96	2.43	105	101	3.47	70 - 130	20	70 - 130	20

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

NONE

BATCH 35932 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0805723-001A	05/29/08 11:12 AM	05/29/08	05/29/08 6:57 PM	0805723-002A	05/29/08 11:15 AM	05/29/08	05/29/08 7:27 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 enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

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: Air QC Matrix: Water WorkOrder 0805723

EPA Method SW8021B/8015Cm **Extraction SW5030B** **BatchID: 35964** **Spiked Sample ID: 0805735-001A**

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	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	81.5	97.1	17.5	77.6	85.8	10.0	70 - 130	20	70 - 130	20
MTBE	ND	10	77.6	94	19.2	74.2	80.8	8.47	70 - 130	20	70 - 130	20
Benzene	ND	10	76.6	89.2	15.1	77.9	82	5.18	70 - 130	20	70 - 130	20
Toluene	ND	10	75.7	91.2	18.6	76.8	80.5	4.80	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	76.2	88.3	14.8	78.6	82.6	5.01	70 - 130	20	70 - 130	20
Xylenes	ND	30	76.4	85.3	11.1	72.8	77.3	6.03	70 - 130	20	70 - 130	20
%SS:	102	10	101	102	1.55	101	101	0	70 - 130	20	70 - 130	20

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

NONE

BATCH 35964 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0805723-003A	05/29/08 11:20 AM	05/29/08	05/29/08 7:57 PM	0805723-004A	05/29/08 11:10 AM	05/29/08	05/29/08 8:28 PM
0805723-005A	05/29/08 11:00 AM	05/29/08	05/29/08 8:58 PM	0805723-006A	05/29/08 11:20 AM	05/30/08	05/30/08 8:12 PM
0805723-007A	05/29/08 11:25 AM	05/29/08	05/29/08 6:27 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 enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

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, 8th St,Oakland, Ca	Date Sampled: 04/30/08
		Date Received: 04/30/08
	Client Contact: Ricky Bradford	Date Reported: 05/07/08
	Client P.O.:	Date Completed: 05/07/08

WorkOrder: 0804738

May 07, 2008

Dear Ricky:

Enclosed within are:

1) The results of the **15** analyzed samples from your project: **#116907; Vic's Automotive, 8th St,O**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

0804738 1/2

McCAMPBELL ANALYTICAL INC.

1538 Willow Pass Road, Pittsburg, CA 94565

Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

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

EDF Required? ☑ Yes ☐ No PDF Required? ☑ Yes ☐ No

Report To: Ricky Bradford	Bill To: same
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	E-Mail: rbradford@aeiconsultatns.com
Telephone: (925) 944-2899	Fax: (925) 944-2895
AEI Project No. 116907	Project Name: Vic's Automotive
Project Location: 245 8th Street, Oakland, CA 94607	
Sampler Signature: #153	

SAMPLE ID	FIELD POINT NAME	SAMPLING Date	SAMPLING Time	# of Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: TPH-g & MBTEX (SW8021B/8015Cm)	Analysis Request: TPH-d (SW8015Cm)	Analysis Request: TRPH (E418.1) w/ Silica Gel Clean-up by IRS	Analysis Request: Total Petroleum Oil & Grease (5520 E&F/B&F)	Analysis Request: *Total Lead (TTLC/E200.8)	Analysis Request: *For Lead Use 250 ml HDPE w/ HNO_3, preserv.	Analysis Request: CAM 17 Metals	Analysis Request: LUFT 5 Metals	Other: HVOCs - 8010 target list (SW8260B)	Other: MTBE (SW8260B)	Other: **Flash Point (SW1010)	Other: **For FP Use 1 Liter Amber unpreserved	Comments: Report in both units - ug/L and ppmv
MW-1S	MW-1S	4/30/08	10:05	1	TB			X							X	X											X
MW-2S	MW-2S		0855	1	TB			X							X	X											X
MW-5S	MW-5S		1010	1	TB			X							X	X											X
MW-6S	MW-6S		0825	1	TB			X							X	X											X
MW-7S	MW-7S		0830	1	TB			X							X	X											X
MW-10S	MW-10S		0840	1	TB			X							X	X											X
MW-11S	MW-11S		0845	1	TB			X							X	X											X
MW-12S	MW-12S		0855	1	TB			X							X	X											X
POSTD	POSTD		0905	1	TB			X							X	X											X
PRED	PRED		0900	1	TB			X							X	X											X
AS	AS		0910	1	TB			X							X	X											X
STACK	STACK		1025	1	TB			X							X	X											X

Relinquished By:	Date:	Time:	Received By:
	4/30	15:55	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 8.0

GOOD CONDITION

HEAD SPACE ABSENT

DECHLORINATED IN LAB

	VOAS	O&G	METALS	OTHER
PRESERVATION				
APPROPRIATE CONTAINERS				
PERSERVED IN LAB				

0804738

2/2

McCAMPBELL ANALYTICAL INC.

1538 Willow Pass Road, Pittsburg, CA 94565

Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

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

EDF Required? ☑ Yes ☐ No PDF Required? ☑ Yes ☐ No

Report To: Ricky Bradford Bill To: same

Company: AEI Consultants

2500 Camino Diablo, Suite 200

Walnut Creek, CA 94597 E-Mail: rbradford@aeiconsultatns.com

Telephone: (925) 944-2899 Fax: (925) 944-2895

AEI Project No. 116907 Project Name: Vic's Automotive

Project Location: 245 8th Street, Oakland, CA 94607

Sampler Signature: #153

SAMPLE ID	FIELD POINT NAME	SAMPLING Date	SAMPLING Time	# of Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED Ice	HCl	HNO_3	Other
(1) INF	INF	4/30/08	1030	3	3VOA	X					X	X		
+ POST-AS	POST-AS	↓	1015	3	3VOA	X					X	X		
~~POST-C1~~	~~POST-C1~~			3	3VOA	X					X	X		
✓ EFF	EFF	↓	1020	5	3VOA AMB	X					X	X		

Analysis Request

TPH-g & MBTEX (SW8015Cm /SW8021B)	TPH-d (SW8015Cm)	**Total Oil & Grease HC (1664 HEM-SGT)	**For TOG HC Use 1 Liter Ambers (w/ HCl)	*Total Lead (TTLC/E200.8)	*For Lead Use 250 ml HDPE (w/ HNO_3)	EBMUD 7 Metals (Cd, Cr, Cu, Pb, Hg, Ni, Zn)	CAM 17 Metals (200.7)	PP13 Metals	RCRA 8 Metals (Ag, As, Ba, Cd, Cr, Hg, Pb, Se)	LUFT 5 Metals (Cd, Cr, Ni, Pb, Zn)
X										
X										
X		X								

Other

HVOCs - 8010 target list (SW8260B)	MTBE (SW8260B)	**Flash Point (SW1010)	**For FP Use 1 Liter Amber (unpreserved)

Comments

Flow Totalizer Reading 85,109 (Gallons)

Relinquished By:	Date:	Time:	Received By:
[signature]	4/30	1355	[signature]
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 8.0

GOOD CONDITION ✓

HEAD SPACE ABSENT ____

DECHLORINATED IN LAB ____

PRESERVATION APPROPRIATE	VOAS	O&G	METALS	OTHER
CONTAINERS ✓				

PERSERVED IN LAB ____

(2)

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0804738 **ClientCode: AEL**

☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

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

Email: rbradford@aeiconsultants.com
TEL: (925) 283-6000 FAX: (925) 944-2895
PO:
ProjectNo: #116907; Vic's Automotive, 8th St,Oakland, Ca

Bill to:
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received: **04/30/2008**
Date Printed: **04/30/2008**

					Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
0804738-001	MW-1S	Air	4/30/2008 10:05	☐		A		A								
0804738-002	MW-2S	Air	4/30/2008 8:55	☐		A										
0804738-003	MW-5S	Air	4/30/2008 10:10	☐		A										
0804738-004	MW-6S	Air	4/30/2008 8:25	☐		A										
0804738-005	MW-7S	Air	4/30/2008 8:30	☐		A										
0804738-006	MW-10S	Air	4/30/2008 8:40	☐		A										
0804738-007	MW-11S	Air	4/30/2008 8:45	☐		A										
0804738-008	MW-12S	Air	4/30/2008 8:55	☐		A										
0804738-009	POSTD	Air	4/30/2008 9:05	☐		A										
0804738-010	PRED	Air	4/30/2008 9:00	☐		A										
0804738-011	AS	Air	4/30/2008 9:10	☐		A										
0804738-012	STACK	Air	4/30/2008 10:25	☐		A										
0804738-013	INF	Water	4/30/2008 10:30	☐			A									
0804738-014	POST-AS	Water	4/30/2008 10:15	☐			A									

Test Legend:

1	1664A_SG_W	2	G-MBTEX_AIR	3	G-MBTEX_W	4	PREDF REPORT	5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A contain testgroup.

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0804738 **ClientCode: AEL**

☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

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

Email: rbradford@aeiconsultants.com
TEL: (925) 283-6000 FAX: (925) 944-2895
PO:
ProjectNo: #116907; Vic's Automotive, 8th St,Oakland, Ca

Bill to:
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received: **04/30/2008**
Date Printed: **04/30/2008**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0804738-015	EFF	Water	4/30/2008 10:20	☐	B		A									

Test Legend:

1	1664A_SG_W	2	G-MBTEX_AIR	3	G-MBTEX_W	4	PREDF REPORT	5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A contain testgroup.

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
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

Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **04/30/08 2:44:01 PM**

Project Name: **#116907; Vic's Automotive, 8th St,Oakland, Ca** Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **0804738** Matrix Air/Water Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 8°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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, 8th St,Oakland, Ca	Date Sampled: 04/30/08
		Date Received: 04/30/08
	Client Contact: Ricky Bradford	Date Extracted: 04/30/08
	Client P.O.:	Date Analyzed 05/07/08

Hexane Extractable Material with Silica Gel Clean Up*

Extraction method E1664A Analytical methods E1664A Work Order: 0804738

Lab ID	Client ID	Matrix	HEMSGT	DF	% SS
0804738-015B	EFF	W	ND	1	N/A

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

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

DF = dilution factor (may be raised to dilute target analyte or matrix interference).

surrogate diluted out of range or not applicable to this sample.

g) sample extract repeatedly cleaned up with silica gel until constant IR result achieved; h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) results are reported on a dry weight basis.

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

AEI Consultants	Client Project ID: #116907; Vic's Automotive, 8th St,Oakland, Ca	Date Sampled: 04/30/08
2500 Camino Diablo, Ste. #200		Date Received: 04/30/08
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 04/30/08-05/01/08
	Client P.O.:	Date Analyzed 04/30/08-05/01/08

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0804738

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1S	A	1800,a	12	42	150	30	230	4	103
002A	MW-2S	A	6700,a	ND<25	71	290	71	470	10	116
003A	MW-5S	A	7300,a	ND<30	58	210	25	280	4	102
004A	MW-6S	A	2700,a	ND<25	11	67	14	160	10	119
005A	MW-7S	A	15,000,a	ND<50	210	570	64	670	20	115
006A	MW-10S	A	8900,a	ND<50	37	290	150	1000	20	112
007A	MW-11S	A	2100,a	ND<15	22	88	26	210	2	121
008A	MW-12S	A	1400,a	18	29	67	17	130	1	110
009A	POSTD	A	2500,a	ND<10	25	87	22	190	2	94
010A	PRED	A	7600,a	ND<15	65	240	71	540	4	86
011A	AS	A	130,a	ND	1.2	5.2	1.5	18	1	95
012A	STACK	A	ND	ND	ND	ND	ND	ND	1	101
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		A	25	2.5	0.25	0.25	0.25	0.25	1	µg/L
		S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples are reported in µg/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 organic / MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

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

AEI Consultants	Client Project ID: #116907; Vic's Automotive, 8th St,Oakland, Ca	Date Sampled: 04/30/08
2500 Camino Diablo, Ste. #200		Date Received: 04/30/08
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 04/30/08-05/01/08
	Client P.O.:	Date Analyzed 04/30/08-05/01/08

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0804738

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1S	A	520,a	3.3	13	38	6.7	53	4	103
002A	MW-2S	A	1900,a	ND<6.8	22	75	16	110	10	116
003A	MW-5S	A	2000,a	ND<10	18	56	5.7	63	4	102
004A	MW-6S	A	760,a	ND<6.8	3.5	18	3.2	36	10	119
005A	MW-7S	A	4100,a	ND<14	66	150	15	150	20	115
006A	MW-10S	A	2500,a	ND<14	11	76	33	230	20	112
007A	MW-11S	A	600,a	ND<5.0	6.7	23	5.9	49	2	121
008A	MW-12S	A	390,a	5.0	8.8	17	3.9	30	1	110
009A	POSTD	A	700,a	ND<2.0	7.6	23	5.0	42	2	94
010A	PRED	A	2100,a	ND<5.0	20	63	16	120	4	86
011A	AS	A	37,a	ND	0.36	1.4	0.34	4.1	1	95
012A	STACK	A	ND	ND	ND	ND	ND	ND	1	101

ppm (mg/L) to ppmv (ul/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	7.0	0.68	0.077	0.065	0.057	0.057	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* vapor samples are reported in µL/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L, water samples and all TCLP & SPLP extracts are reported in µg/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 organic / MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

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

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #116907; Vic's Automotive, 8th St,Oakland, Ca	Date Sampled: 04/30/08
		Date Received: 04/30/08
	Client Contact: Ricky Bradford	Date Extracted: 04/30/08-05/01/08
	Client P.O.:	Date Analyzed 04/30/08-05/01/08

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0804738

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
013A	INF	W	8600,a	170	150	630	160	2200	10	92
014A	POST-AS	W	ND	11	0.56	ND	ND	1.1	1	91
015A	EFF	W	ND	30	ND	ND	ND	ND	1	96

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 E1664A

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0804738

EPA Method E1664A **Extraction E1664A** **BatchID: 35225** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
HEMSGT	N/A	200	N/A	N/A	N/A	103	106	2.50	N/A	N/A	70 - 130	30

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

NONE

BATCH 35225 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804738-015B	04/30/08 10:20 AM	04/30/08	05/07/08 2:20 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.

N/A = not enough sample to perform matrix spike and matrix spike duplicate therefore unable to comply with method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification N° 1644

QA/QC Officer

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: Air QC Matrix: Water WorkOrder: 0804738

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 35243** **Spiked Sample ID: 0804725-003A**

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	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	93.7	92.9	0.898	95.8	90.6	5.59	70 - 130	20	70 - 130	20
MTBE	ND	10	116	112	3.89	88.1	80.7	8.76	70 - 130	20	70 - 130	20
Benzene	ND	10	100	97.4	3.09	93.7	92.6	1.12	70 - 130	20	70 - 130	20
Toluene	ND	10	111	108	3.08	92.8	92	0.901	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	108	104	3.70	94.1	94.8	0.724	70 - 130	20	70 - 130	20
Xylenes	ND	30	119	115	3.51	89.4	90.4	1.03	70 - 130	20	70 - 130	20
%SS:	103	10	93	93	0	105	102	2.28	70 - 130	20	70 - 130	20

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

NONE

BATCH 35243 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804738-001A	04/30/08 10:05 AM	04/30/08	04/30/08 6:07 PM	0804738-002A	04/30/08 8:55 AM	04/30/08	04/30/08 6:38 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 enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification N° 1644

QA/QC Officer

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: Air/Water QC Matrix: Water WorkOrder: 0804738

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 35292** **Spiked Sample ID: 0804743-023A**

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	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	101	106	4.70	97.9	99.1	1.23	70 - 130	20	70 - 130	20
MTBE	ND	10	105	103	1.87	109	97.9	10.7	70 - 130	20	70 - 130	20
Benzene	ND	10	98.2	98.2	0	101	103	2.06	70 - 130	20	70 - 130	20
Toluene	ND	10	90	89.1	1.03	101	101	0	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	99.6	94.8	4.96	104	102	2.09	70 - 130	20	70 - 130	20
Xylenes	ND	30	96.4	92.8	3.87	111	116	4.33	70 - 130	20	70 - 130	20
%SS:	94	10	92	93	0.755	96	96	0	70 - 130	20	70 - 130	20

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

NONE

BATCH 35292 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804738-003A	04/30/08 10:10 AM	04/30/08	04/30/08 7:08 PM	0804738-004A	04/30/08 8:25 AM	04/30/08	04/30/08 7:38 PM
0804738-005A	04/30/08 8:30 AM	04/30/08	04/30/08 8:08 PM	0804738-006A	04/30/08 8:40 AM	04/30/08	04/30/08 8:38 PM
0804738-007A	04/30/08 8:45 AM	04/30/08	04/30/08 9:08 PM	0804738-008A	04/30/08 8:55 AM	04/30/08	04/30/08 10:08 PM
0804738-009A	04/30/08 9:05 AM	04/30/08	04/30/08 10:38 PM	0804738-010A	04/30/08 9:00 AM	04/30/08	04/30/08 11:08 PM
0804738-011A	04/30/08 9:10 AM	05/01/08	05/01/08 12:08 AM	0804738-012A	04/30/08 10:25 AM	05/01/08	05/01/08 9:49 PM
0804738-013A	04/30/08 10:30 AM	04/30/08	04/30/08 9:58 PM	0804738-014A	04/30/08 10:15 AM	05/01/08	05/01/08 10:09 PM
0804738-015A	04/30/08 10:20 AM	04/30/08	04/30/08 7:43 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 enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification N° 1644


QA/QC Officer

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: Air QC Matrix: Water WorkOrder 0804738

EPA Method SW8021B/8015Cm Extraction SW5030B BatchID: 35243 Spiked Sample ID: 0804725-003A

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	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	93.7	92.9	0.898	95.8	90.6	5.59	70 - 130	20	70 - 130	20
MTBE	ND	10	116	112	3.89	88.1	80.7	8.76	70 - 130	20	70 - 130	20
Benzene	ND	10	100	97.4	3.09	93.7	92.6	1.12	70 - 130	20	70 - 130	20
Toluene	ND	10	111	108	3.08	92.8	92	0.901	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	108	104	3.70	94.1	94.8	0.724	70 - 130	20	70 - 130	20
Xylenes	ND	30	119	115	3.51	89.4	90.4	1.03	70 - 130	20	70 - 130	20
%SS:	103	10	93	93	0	105	102	2.28	70 - 130	20	70 - 130	20

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

NONE

BATCH 35243 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804738-001A	04/30/08 10:05 AM	04/30/08	04/30/08 6:07 PM	0804738-002A	04/30/08 8:55 AM	04/30/08	04/30/08 6:38 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 enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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: Air QC Matrix: Water WorkOrder 0804738

EPA Method SW8021B/8015Cm	Extraction SW5030B	BatchID: 35292	Spiked Sample ID: 0804743-023A

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	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	101	106	4.70	97.9	99.1	1.23	70 - 130	20	70 - 130	20
MTBE	ND	10	105	103	1.87	109	97.9	10.7	70 - 130	20	70 - 130	20
Benzene	ND	10	98.2	98.2	0	101	103	2.06	70 - 130	20	70 - 130	20
Toluene	ND	10	90	89.1	1.03	101	101	0	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	99.6	94.8	4.96	104	102	2.09	70 - 130	20	70 - 130	20
Xylenes	ND	30	96.4	92.8	3.87	111	116	4.33	70 - 130	20	70 - 130	20
%SS:	94	10	92	93	0.755	96	96	0	70 - 130	20	70 - 130	20

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

NONE

BATCH 35292 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804738-003A	04/30/08 10:10 AM	04/30/08	04/30/08 7:08 PM	0804738-004A	04/30/08 8:25 AM	04/30/08	04/30/08 7:38 PM
0804738-005A	04/30/08 8:30 AM	04/30/08	04/30/08 8:08 PM	0804738-006A	04/30/08 8:40 AM	04/30/08	04/30/08 8:38 PM
0804738-007A	04/30/08 8:45 AM	04/30/08	04/30/08 9:08 PM	0804738-008A	04/30/08 8:55 AM	04/30/08	04/30/08 10:08 PM
0804738-009A	04/30/08 9:05 AM	04/30/08	04/30/08 10:38 PM	0804738-010A	04/30/08 9:00 AM	04/30/08	04/30/08 11:08 PM
0804738-011A	04/30/08 9:10 AM	05/01/08	05/01/08 12:08 AM	0804738-012A	04/30/08 10:25 AM	05/01/08	05/01/08 9:49 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 enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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: 04/01/08
		Date Received: 04/02/08
	Client Contact: Ricky Bradford	Date Reported: 04/07/08
	Client P.O.:	Date Completed: 04/04/08

WorkOrder: 0804046

April 07, 2008

Dear Ricky:

Enclosed within are:

1) The results of the **2** analyzed samples from your project: **#116907; Vic's Automotive,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

0804046

McCAMPBELL ANALYTICAL INC.

1538 Willow Pass Road, Pittsburg, CA 94565

Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

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

EDF Required? ☒ Yes ☐ No PDF Required? ☒ Yes ☐ No

Report To: Ricky Bradford	**Bill To:** same
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	**E-Mail:** rbradford@aeiconsultatns.com
Telephone: (925) 944-2899	**Fax:** (925) 944-2895
AEI Project No. 116907	**Project Name:** Vic's Automotive
Project Location: 245 8th Street, Oakland, CA 94607	
Sampler Signature:	

SAMPLE ID	FIELD POINT NAME	SAMPLING Date	SAMPLING Time	# of Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: Ice	HCl	HNO_3	Other
INF	INF	4/1/08	1530	3	VOA	X					X	X		
POST-AS	POST-AS	4/1/08	1535	3	VOA	X					X	X		
~~POST-C1~~	~~POST-C1~~	—	—		~~VOA~~	X					X	X		
~~EFF~~	~~EFF~~	—	—		~~VOA~~	X					X	X		

Analysis Request

TPH-g & MBTEX (SW8021B/8015Cm)	TPH-d (SW8015Cm)	TRPH (E418.1) w/ Silica Gel Clean-up by IRS	Total Oil & Grease HC (1664 HEM-SGT)	*Dissolved Lead (E200.8)	*For Lead Use 250 ml HDPE (HNO_3 preserved)	Dissolved (Ferrous) Iron (EPA 200.8)	Calcium, Magnesium, Manganese (EPA 200.8)	TDS and TSS (SM2540C & D)	Heterotrophic Plate Count	EBMUD 7 Metals (Cd, Cr, Cu, Pb, Hg, Ni, Zn)	CAM 17 Metals (EPA 200.8)	PP13 Metals	RCRA 8 Metals (Ag, As, Ba, Cd, Cr, Hg, Pb, Se)	LUFT 5 Metals (Cd, Cr, Ni, Pb, Zn)
X														
X														

Other

HVOCs - 8010 target list (SW8260B)	MTBE (SW8260B)	**Flash Point (SW1010)	**For FP Use 1 Liter Amber (unpreserved)

Comments

Relinquished By:	Date:	Time:	Received By:
	4/2	1145	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 6.1 °C

GOOD CONDITION ✓

HEAD SPACE ABSENT ✓

DECHLORINATED IN LAB NA

PRESERVATION	VOAS	O&G	METALS	OTHER
APPROPRIATE CONTAINERS	✓			
PERSERVED IN LAB	✓			

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0804046 **ClientCode: AEL**

☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

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

Email: rbradford@aeiconsultants.com
TEL: (925) 283-6000 FAX: (925) 944-2895
PO:
ProjectNo: #116907; Vic's Automotive

Bill to:
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received: **04/02/2008**
Date Printed: **04/02/2008**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0804046-001	INF	Water	4/1/2008 15:30	☐	A	A										
0804046-002	POST-AS	Water	4/1/2008 15:35	☐	A											

Test Legend:

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

Prepared by: Samantha Arbuckle

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
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

Sample Receipt Checklist

Client Name: **AEI Consultants**

Date and Time Received: **4/2/08 2:08:43 PM**

Project Name: **#116907; Vic's Automotive**

Checklist completed and reviewed by: Samantha Arbuckle

WorkOrder N°: **0804046** Matrix Water

Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	NA ☐
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 6.1°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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: 04/01/08
2500 Camino Diablo, Ste. #200		Date Received: 04/02/08
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 04/03/08
	Client P.O.:	Date Analyzed 04/03/08

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0804046

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	W	2400,a	60	37	140	20	390	3.3	92
002A	POST-AS	W	140,a	ND	5.6	0.60	ND	1.7	1	92

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 0804046

EPA Method SW8021B/8015Cm Extraction SW5030B BatchID: 34753 Spiked Sample ID: 0804025-007A

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	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	108	109	0.797	108	110	1.85	70 - 130	20	70 - 130	20
MTBE	ND	10	92.1	88.7	3.85	95.6	91.6	4.25	70 - 130	20	70 - 130	20
Benzene	ND	10	91.3	93.2	2.14	91.6	90.9	0.678	70 - 130	20	70 - 130	20
Toluene	ND	10	91.1	93.8	2.84	92.9	92.2	0.746	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	97.4	99.7	2.32	97.5	97.4	0.161	70 - 130	20	70 - 130	20
Xylenes	ND	30	109	110	1.55	109	108	0.423	70 - 130	20	70 - 130	20
%SS:	102	10	89	92	3.04	90	89	0.974	70 - 130	20	70 - 130	20

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

NONE

BATCH 34753 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804046-001A	04/01/08 3:30 PM	04/03/08	04/03/08 6:14 PM	0804046-002A	04/01/08 3:35 PM	04/03/08	04/03/08 5:40 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 enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

APPENDIX D

WELL INSTALLATION, ENCRAOCHMENT, & EXCAVATION PERMITS

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 03/11/2008 By jamesy

Permit Numbers: W2008-0127 to W2008-0129
Permits Valid from 03/24/2008 to 03/24/2008

Application Id: 1205186375605
Site Location: 245 8th Street, Oakland, CA
Two wells (MW-9 and MW-13) along 7th Street
One well (MW-8) along Alice Street

City of Project Site: Oakland

Project Start Date: 03/24/2008
Completion Date: 03/24/2008
Requested Inspection: 03/24/2008
Scheduled Inspection: 03/24/2008 at 3:00 PM (Contact your inspector, Vicky Hamlin at (510) 670-5443, to confirm.)

Applicant: All Environmental Inc - Richard Bradford
2500 Camino Diablo, Walnut Creek, CA 94597
Phone: 925-944-2899

Property Owner: Victor Lum
245 8th Street, Oakland, CA 95607
Phone: 510-832-9014

Client: ** same as Property Owner **

Contact: Richard Bradford
Phone: 925-944-2899
Cell: 510-375-2314

Total Due: $900.00
Receipt Number: WR2008-0077 **Total Amount Paid:** $900.00
Payer Name : Peter J McIntyre Paid By: VISA **PAID IN FULL**

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 3 Wells
Driller: Precision Sampling Inc. - Lic #: 636387 - Method: hstem

Work Total: $900.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2008-0127	03/11/2008	06/22/2008	MW-13	8.25 in.	2.00 in.	15.00 ft	25.00 ft
W2008-0128	03/11/2008	06/22/2008	MW-8	8.25 in.	2.00 in.	15.00 ft	25.00 ft
W2008-0129	03/11/2008	06/22/2008	MW-9	8.25 in.	2.00 in.	15.00 ft	25.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities

or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

8. Minimum surface seal thickness is two inches of cement grout placed by tremie

9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

PROGRAMS AND SERVICES

Well Standards Program

The Alameda County Public Works Agency, Water Resources is located at:
399 Elmhurst Street
Hayward, CA 94544
For Driving Directions or General Info, Please Contact 510-670-5480 or wells@acpwa.org
For Drilling Permit information and process contact James Yoo at
Phone: 510-670-6633
FAX: 510-782-1939
Email: Jamesy@acpwa.org

Alameda County Public Works is the administering agency of General Ordinance Code, Chapter 6.88 . The purpose of this chapter is to provide for the regulation of groundwater wells and exploratory holes as required by California Water Code. The provisions of these laws are administered and enforced by Alameda County Public Works Agency through its Well Standards Program.

Drilling Permit Jurisdictions in Alameda County: There are four jurisdictions in Alameda County.

Location: Agency with Jurisdiction Contact Number

Berkeley City of Berkeley Ph: 510-981-7460
Fax: 510-540-5672

Fremont, Newark, Union City Alameda County Water District Ph: 510-668-4460
Fax: 510-651-1760

Pleasanton, Dublin, Livermore, Sunol Zone 7 Water Agency Ph: 925-454-5000
Fax: 510-454-5728

The Alameda County Public Works Agency, Water Resources has the responsibility and authority to issue drilling permits and to enforce the County Water Well Ordinance 73-68. This jurisdiction covers the western Alameda County area of **Oakland**, **Alameda**,**Piedmont**, **Emeryville**, **Albany**, **San Leandro**, **San Lorenzo**, **Castro Valley**, and **Hayward** . The purpose of the drilling permits are to ensure that any new well or the destruction of wells, including geotechnical investigations and environmental sampling within the above jurisdiction and within Alameda County will not cause pollution or contamination of ground water or otherwise jeopardize the health, safety or welfare of the people of Alameda County.

Permits are required for all work pertaining to wells and exploratory holes at any depth within the jurisdiction of the Well Standards Program. A completed permit application *(30 Kb)** , along with a site map, should be submitted at least **ten (10) working days prior to the planned start of work**. Submittals should be sent to the address or fax number provided on the application form. When submitting an application via fax, please use a high resolution scan to retain legibility.

Fees
Beginning April 11, 2005 , the following fees shall apply:

A permit to construct, rehabilitate, or destroy wells, including cathodic protection wells, but excluding dewatering wells (*Horizontal hillside dewatering and dewatering for construction period only), shall cost $300.00 per well.

A permit to bore exploratory holes, including temporary test wells, shall cost $200 per site. A site includes the project parcel as well as any adjoining parcels.

Please make checks payable to: **Treasurer, County of Alameda**

Permit Fees are exempt to State & Federal Projects
Applicants shall submit a letter from the agency requesting the fee exemption.

Scheduling Work/Inspections:
Alameda County Public Works Agency (ACPWA), Water Resources Section requires scheduling and inspection of permitted work. All drilling activities must be scheduled in advance. Availability of inspections will vary from week to week and will come on a first come, first served bases. To ensure inspection availability on your desired or driller scheduled date, the following procedures are required:

Please contact **James Yoo at 510-670-6633** to schedule the inspection date and time (You must have drilling permit approved prior to scheduling).

Schedule the work as far in advance as possible (at least 5 days in advance); and confirm the scheduled drilling date(s) at least 24 hours prior to drilling.

Once the work has been scheduled, an ACPWA Inspector will coordinate the inspection requirements as well as how the Inspector can be reached if they are not at the site when Inspection is required. Expect for special circumstances given, all work will require the inspection to be conducted during the working hours of 8:30am to 2:30pm., Monday to Friday, excluding holidays.

Request for Permit Extension:
Permits are only valid from the start date to the completion date as stated on the drilling permit application and Conditions of Approval. To request an extension of a drilling permit application, applicants must request in writing prior to the completion date as set forth in the Conditions of Approval of the drilling permit application. Please send fax or email to Water Resources Section, Fax 510-782-1939 or email at wells@acpwa.org. There are no additional fees for permit extensions or for re-scheduling inspection dates. You may not extend your drilling permit dates beyond 90 days from the approval date of the permit application. **NO refunds** shall be given back after 90 days and the permit shall be deemed voided.

Cancel a Drilling Permit:
Applicants may cancel a drilling permit only in writing by mail, fax or email to Water Resources Section, Fax 510-782-1939 or email at wells@acpwa.org. If you do not cancel your drilling permit application before the drilling completion date or notify in writing within 90 days, Alameda County Public Works Agency, Water Resources Section may void the permit and No refunds may be given back.

Refunds/Service Charge:
A service charge of $25.00 dollars for the first check returned and $35.00 dollars for each subsequent check returned.

Applicants who cancel a drilling permit application **before** we issue the approved permit(s), will receive a **FULL** refund (at any amount) and will be mailed back within two weeks.

Applicants who cancel a drilling permit application **after** a permit has been issued will then be charged a service fee of $50.00 (fifty Dollars).

To collect the remaining funds will be determined by the amount of the refund to be refunded (see process below).

Board of Supervisors Minute Order, File No. 9763, dated January 9, 1996, gives blanket authority to the Auditor-Controller to process claims, from all County departments for the refund of fees which do not exceed $500 (Five Hundred Dollars)(with the exception of the County Clerk whose limit is $1,500).

Refunds over the amounts must be authorized by the Board of Supervisors Minute Order, File No. 9763 require specific approval by the Board of Supervisors. The forms to request for refunds under $500.00 (Five Hundred Dollars) are available at this office or any County Offices. If the amount is exceeded, a Board letter and Minute Order must accompany the claim. Applicant shall fill out the request form and the County Fiscal department will process the request.

Enforcement
Penalty. Any person who does any work for which a permit is required by this chapter and who fails to obtain a permit shall be guilty of a misdemeanor punishable by fine not exceeding Five Hundred Dollars ($500.00) or by imprisonment not exceeding six months, or by both such fine and imprisonment, and such person shall be deemed guilty of a separate offense for each and every day or portion thereof during which any such

violation is committed, continued, or permitted, and shall be subject to the same punishment as for the original offense. (Prior gen. code §3-160.6)

Enforcement actions will be determined by this office on a case-by-case basis
Drilling without a permit shall be the cost of the permit(s) and a fine of $500.00 (Five Hundred Dollars).

Well Completion Reports (State DWR-188 forms) must be filed with the Well Standards Program within 60 days of completing work. Staff will review the report, assign a state well number, and then forward it to the California Department of Water Resources (DWR). Drillers should not send completed reports to DWR directly. Failure to file a Well Completion Report or deliberate falsification of the information is a misdemeanor; it is also grounds for disciplinary action by the Contractors' State License Board. Also note that filed Well Completion Reports are considered private record protected by state law and can only be released to the well owner or those specifically authorized by government agencies.

See our website (www.acgov.org/pwa/wells/index.shtml) for links to additional forms.

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation.

Appl# X0800359 Job Site 245 8TH ST Parcel# 001 -0179-013-00

Descr To allow monitoring wells. Two on 7th and One on Alice St Permit Issued 03/03/08

Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job # Acctg#:
Util Fund #:

		Applcnt	Phone#	Lic#	--License Classes--
Owner	LUM RICHARD & LINDA TRS		(510)832-9014		
Contractor	ALL ENVIRONMENTAL INC	X	(925)283-6000	654919	A
Arch/Engr					
Agent	AEI/H. TOMSUM		(925)944-2899		

Applic Addr 2500 CAMINO DIABLO, WALNUT CREEK, CA, 94597

$416.55 TOTAL FEES PAID AT ISSUANCE

$63.00	Applic	$300.00	Permit
$.00	Process	$34.49	Rec Mgmt
$.00	Gen Plan	$.00	Invstg
$.00	Other	$19.06	Tech Enh

ADDRESS:

DIST:

JOB SITE

PAID 3/3/08

CITY OF OAKLAND
Office of Planning and Building

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERING

Permit valid for 90 days from date of issuance.

PERMIT NUMBER	SITE ADDRESS/LOCATION
X 08 00352	245 8th Street, Oakland
APPROX. START DATE: 4/2/08 — APPROX. END DATE: 4/3/08	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number): (510) 375-2314 cell
CONTRACTOR'S LICENSE # AND CLASS: 654919 A HAZ	CITY BUSINESS TAX #:

ATTENTION:

1- State law requires that the contractor/owner call Underground Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1-800-642-2444. Underground Service Alert (USA) # 708 6053

2- 48 hours prior to starting work, you MUST CALL (510) 238-3651 to schedule an inspection.

3- 48 hours prior to re-paving, a compaction certificate is required (waived for approved slurry backfill).

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law (Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code), or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than $500):

☐ I, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two structures more than once during any three-year period. (Sec. 7044 Business and Professions Code).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project. (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).

☐ I am exempt under Sec. _____, B&PC for this reason _____

WORKER'S COMPENSATION

X I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).

Policy # 4086944095 Company Name _____

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars ($100) or less).

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.

X _____ Date 3/3/08

Signature of Permittee ☒ Agent for ☒ Contractor ☐ Owner

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? ☐ YES ☐ NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) ☐ YES ☐ NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) ☐ YES ☐ NO
ISSUED BY		DATE ISSUED	

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation.

Appl# X0800360 Job Site 245 8TH ST Parcel# 001 -0179-013-00

Descr To allow monitoring wells. One on Alice St & two on 7th St Permit Issued 03/03/08

Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job # Acctg#:
Util Fund #:

		Applcnt	Phone#	Lic#	--License Classes--
Owner	LUM RICHARD & LINDA TRS		(510)832-9014		
Contractor	ALL ENVIRONMENTAL INC	X	(925)283-6000	654919	A
Arch/Engr					
Agent	AEI/H. TOMSUM		(925)944-2899		

Applic Addr 2500 CAMINO DIABLO, WALNUT CREEK, CA, 94597

$416.55 TOTAL FEES PAID AT ISSUANCE

$63.00	Applic	$300.00	Permit
$.00	Process	$34.49	Rec Mgmt
$.00	Gen Plan	$.00	Invstg
$.00	Other	$19.06	Tech Enh

ADDRESS

JOB SITE

DIST.

PAID
3/3/08 mh

CITY OF OAKLAND
Office of Planning and Building

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERING

Permit valid for 90 days from date of issuance.

PERMIT NUMBER: X0800360		SITE ADDRESS/LOCATION: 245 6th Street, Oakland
APPROX. START DATE: 4/2/08	APPROX. END DATE: 4/3/08	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number): (510) 375-2314 cell
CONTRACTOR'S LICENSE # AND CLASS: 654919 A HAZ		CITY BUSINESS TAX #:

ATTENTION:

1- State law requires that the contractor/owner call Underground Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has received an inquiry identification number issued by USA. The USA telephone number is 1-800-642-2444. Underground Service Alert (USA) # A08605 3

2- 48 hours prior to starting work, you MUST CALL (510) 238-3651 to schedule an inspection.

3- 48 hours prior to re-paving, a compaction certificate is required (waived for approved slurry backfill).

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than $500):

☐ I, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two structures more than once during any three-year period. (Sec. 7044 Business and Professions Code).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project. (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).

☐ I am exempt under sec. _____, B&PC for this reason _____

WORKER'S COMPENSATION

X I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).

Policy # 4086940095 Company Name _____

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars ($100) or less).

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.

X _____ 3/3/08

Signature of Permittee ☒ Agent for ☐ Contractor ☐ Owner Date

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? ☐ YES ☐ NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) ☐ YES ☐ NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) ☐ YES ☐ NO
ISSUED BY		DATE ISSUED	

PTS115-01 APPLICATION FEE PAYMENT HISTORY 3/03/08 15:06:49

Next Option: 112

Appl#: ENMI07302

Est Cost: 0 Rev Cost: 0 New Cost: 0

Type: Filed: 11/13/07 # Plans: 0 Disposition:

Addr1: 245 8TH ST Suite: Parcel: 001 -0179-013-00

Descr: To allow monitoring wells. Two on 7th and One on Alice St

X	Nbr	Type	Amount	Eff Date	Dlq	Paid	Reg	Rcpt#	NSF	Invc#	Refunded
_	001	FIL	974.23	11/13/07	X	01/02/08	R02	111921			
_	002	PCKOT	397.04	02/11/08	X						

F1=Hlp F3=Ext F7=Fwd F8=Bck F11=Fnd F12=Prv F24=Com

Vic's Auto

#116907

CITY OF OAKLAND
Community & Economic Development Agency
250 Frank H. Ogawa Pl, Oakland CA, 94612
Phone: (510)238-3587 FAX: (510)238-2263

PAYMENT RECEIPT

Application#: X0800360	Payment#: 001
APPLICATION FEE	$63.00
EXCAVATION PERMIT	$300.00
RECORDS MANAGEMENT FEE	$34.49
TECHNOLOGY ENHANCEMENT FE	$19.06
Subtotal:	$416.55

Application#: X0800359	Payment#: 001
APPLICATION FEE	$63.00
EXCAVATION PERMIT	$300.00
RECORDS MANAGEMENT FEE	$34.49
TECHNOLOGY ENHANCEMENT FE	$19.06
Subtotal:	$416.55

Application#: ENMI07302	Payment#: 002
PLANCHECK-OVERTIME	$346.00
RECORDS MANAGEMENT FEE (	$32.87
TECHNOLOGY ENHANCEMENT FE	$18.17
Subtotal:	$397.04

Sales Tax:	$.00
****** TOTAL PAID:	$1,230.14

Credit Card Sale : $1,230.14
MACH Card# **********2193 Exp 0508
Auth# 02503B Ref# R02-113026-000303

Payor: BRADFORD/RICHARD J
Date: 03/03/08 Time: 15:18:27
By: MKH Register R02 Receipt# 113026

****
ORIGINAL RECEIPT REQUIRED FOR REFUND
****

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation.

Job Site 245 8TH ST Parcel# 001 -0179-013-00 Appl# ENMI07302

Descr To allow monitoring wells. Two on 7th and One on Alice St Filed 11/13/07

Insurance Required? YES Carrier Expires

		Applcnt	Phone#	Lic#	--License Classes--
Owner	LUM RICHARD & LINDA TRS	X	(510) 832-9014		
Contractor					
Arch/Engr					
Agent	AEI/H. TOMSUM		(925) 944-2899		

Applic Addr 2188 HILLSIDE DR, SAN LEANDRO CA, 94577

$974.23 TOTAL FEES PAID AT FILING $.00 TOTAL FEES PAID AT ISSUANCE

$63.00	Applic	$.00	Permit
$786.00	Process	$80.66	Rec Mgmt
$.00	Gen Plan	$.00	Invstg
$.00	Other	$44.57	Tech Enh

ADDRESS:

DIST:

JOB SITE

Date: 01/02/08 Amt Paid: $974.23
By: MKH Register K02 Receipt# 111321

All Environmental, Inc.
City of Oakland

11/8/2007 19046

Date	Type	Reference	Original Amt.	Balance Due	Discount	Payment
11/8/2007	Bill	CHREQ110707	974.23	974.23		974.23
					Check Amount	974.23

Bank of America-NC 0 Minor Encroachment Permit for Well Installatiom 974.23

CITY OF OAKLAND
Community & Economic Development Agency
250 Frank H. Ogawa Pl, Oakland CA, 94612
Phone: (510)238-3507 FAX: (510)238-2263

PAYMENT RECEIPT

Application#: ENH107302 Payment#: 001

APPLICATION FEE	$63.00
PROCESS FEE	$706.00
RECORDS MANAGEMENT FEE (	$80.66
TECHNOLOGY ENHANCEMENT FE	$44.57
Subtotal:	$974.23
Sales Tax:	$.00
****** TOTAL PAID:	$974.23
Check Payment:	$974.23

Payor: ALL ENVIRONMENTAL INC
Date: 01/02/08 Time: 15:41:20
By: MKH Register R02 Receipt# 111921

****
ORIGINAL RECEIPT REQUIRED FOR REFUND
****

recording requested by:

CITY OF OAKLAND

when recorded mail to:

City of Oakland
CEDA - Building Services
Dalziel Administration Building
250 Ogawa Plaza - 2nd Floor
Oakland, CA 94612
Attn: City Engineer

9
M

2008099991 03/24/2008 01:34 PM
OFFICIAL RECORDS OF ALAMEDA COUNTY
PATRICK O'CONNELL
RECORDING FEE: 32.00

9 PGS

space above for Recorder's use only

INDENTURE AGREEMENT

Address 245 8th Street

permit no. ENMI 07302

parcel no. 001 -0179-013-00

authorities Municipal Code Section 15.04.705

description Encroach onto 7th Street with two monitoring wells and onto Alice Street with one monitoring well

RECITAL

The owner subscribed below of fee simple interest in the property referenced above and described in Exhibit B attached hereto, is hereby granted, for an indeterminate period of time, the revocable permit referenced above allowing the temporary encroachment described above and delineated in Exhibit C, attached hereto, and limiting the use, exercise, and operation of the encroachment with the requirements and restrictions set forth in Exhibit A, attached hereto, and the associated permit. The owner agrees by and between themselves to be bound by the general and special conditions in Exhibit A and to comply with these conditions faithfully and fully at all times. The conditions of this agreement and associated permit shall equally bind all agents, heirs, successors, and assigns of the owner.

ACKNOWLEDGEMENT OF PROPERTY OWNER

(notarization of signature required)

Richard Lum and Linda Lum, Trustees of the Richard Lum and Linda Lum Revocable Trust dated July 10, 2000

Signature _____ Date 03/03/08
Richard Lum, Trustee

Signature _____ Date 03/03/08
Linda Lum, Trustee

ATTACHMENTS

Exhibit A - Conditions of encroachment
Exhibit B - Description of privately owned parcel
Exhibit C - Limits of encroachment

CITY OF OAKLAND
a municipal corporation

by _____ date 3/5/08
RAYMOND M. DERANIA
Interim City Engineer
Community and Economic Development Agency

DEBORAH EDGERLY
City Administrator

COPY

recording requested by:

CITY OF OAKLAND

when recorded mail to:

City of Oakland
CEDA - Building Services
Dalziel Administration Building
250 Ogawa Plaza - 2nd Floor
Oakland, CA 94612
Attn: City Engineer

---------- *space above for Recorder's use only* ----------

INDENTURE AGREEMENT

Address 245 8th Street

permit no. ENMI 07302

parcel no. 001 -0179-013-00

authorities Municipal Code Section 15.04.705

description Encroach onto 7th Street with two monitoring wells and onto Alice Street with one monitoring well

RECITAL

The owner subscribed below of fee simple interest in the property referenced above and described in Exhibit B attached hereto, is hereby granted, for an indeterminate period of time, the revocable permit referenced above allowing the temporary encroachment described above and delineated in Exhibit C, attached hereto, and limiting the use, exercise, and operation of the encroachment with the requirements and restrictions set forth in Exhibit A, attached hereto, and the associated permit. The owner agrees by and between themselves to be bound by the general and special conditions in Exhibit A and to comply with these conditions faithfully and fully at all times. The conditions of this agreement and associated permit shall equally bind all agents, heirs, successors, and assigns of the owner.

ACKNOWLEDGEMENT OF PROPERTY OWNER

(notarization of signature required)

Richard Lum and Linda Lum, Trustees of the Richard Lum and Linda Lum Revocable Trust dated July 10, 2000

Signature _____ Date 03/03/08

Richard Lum, Trustee

Signature _____ Date 03/03/08

Linda Lum, Trustee

ATTACHMENTS

Exhibit A - Conditions of encroachment
Exhibit B - Description of privately owned parcel
Exhibit C - Limits of encroachment

CITY OF OAKLAND
a municipal corporation

by _____ date _____

RAYMOND M. DERANIA
Interim City Engineer
Community and Economic Development Agency

DEBORAH EDGERLY
City Administrator

EXHIBIT A

Conditions For An Encroachment In The Public Right-Of-Way

address 245 8th Street parcel no. 001 -0179-013-00

permittee Richard Lum & Linda Lum, Trustees permit no. ENMI 07302

- **General conditions of the encroachment**

1. This agreement may be voided and the associated permit for an encroachment may be revoked at any time and for any reason, at the sole discretion of the City Administrator or his or her designee, or the associated permit may be suspended at any time, at the sole discretion of the City Engineer, upon failure of the permittee to comply fully and continuously with each and all of the general and special conditions set forth herein and in the associated permit.

2. The property owner and permittee hereby disclaim any right, title, or interest in or to any portion of the public right-of-way, including the sidewalk and street, and agree that the encroachment is granted for indeterminate period of time and that the use and occupancy by the permittee of the public right-of-way is temporary and does not constitute an abandonment, whether expressed or implied, by the City of Oakland of any of its rights associated with the statutory and customary purpose and use of and operations in the public right-of-way.

3. The permittee agrees to indemnify and save harmless the City of Oakland, its officers, agents, employees, and volunteers, and each of them, from any suits, claims, or actions brought by any person or persons, corporations, or other entities for on account of any bodily injury, disease, or illness, including death, damage to property, real or personal, or damages of any nature, however caused, and regardless of responsibility for negligence, arising in any manner out of the construction of or installation of a private improvement itself or sustained as result of its construction or installation or resulting from the permittees' failure to maintain, repair, remove and/or reconstruct the private improvement.

4. The permittee shall maintain fully in force and effect at all times that the encroachment occupies the public right-of-way good and sufficient public liability insurance in a face amount not less than $300,000.00 for each occurrence, and property damage insurance in a face amount not less than $50,000.00 for each occurrence, both including contractual liability, insuring the City of Oakland, its officers, agents, employees, and volunteers against any and all claims arising out of the existence of the encroachment in the public right-of-way, as respects liabilities assume under this permit, and that a certificate of such insurance and subsequent notices of the renewal thereof, shall be filed with the City Engineer of the City of Oakland, and that such certificate shall state that the insurance coverage shall not be canceled or be permitted to lapse without thirty calendar (30) days written notice to the City Engineer. The permittee also agree that the City of Oakland may review the type and amount of insurance required of the permittee annually and may require the permittee to increase the amount of and/or change the type of insurance overage required.

5. The permittee shall be solely and fully liable and responsible for the repair, replacement, removal, reconstruction, and maintenance of any portion or all of the private improvements constructed or installed in the public right-of-way, whether by the cause, neglect, or negligence of the permittee or others and for the associated costs and expenses necessary to restore or remove the encroachment to the satisfaction of the City Engineer and shall not allow the encroachment to become a blight or a menace or a hazard to the health and safety of the general public.

6. The permittee acknowledge and agree that the encroachment is out of the ordinary and does not comply with City of Oakland standard installations. The permittee further acknowledge and agree that the City of Oakland and public utility agencies will periodically conduct work in the public right-of-way, including excavation, trenching, and relocation of its facilities, all of which may damage the encroachment. Permittee further acknowledge and agree that the City and public utility agencies take no responsibility for repair or replacement of the encroachment which may be damaged by the City or its contractors or public utility agencies or their contractors. Permittee further acknowledge and agree that upon notification by and to the satisfaction of the City Engineer, permittee shall immediately repair, replace, or remove, at the sole expense of the permittee, all damages to the encroachment that are directly or indirectly attributable to work by the City or its contractors or public utility agencies or their contractors.

7. Permittee shall remain liable for and shall immediately reimburse the City of Oakland for all costs, fee assessments, penalties, and accruing interest associated with the City's notification and subsequent abatement action for required maintenance, repairs, or removal, whether in whole or in part, of the encroachment or of damaged City infrastructure made necessary by the failure, whether direct or indirect, of the permittee to monitor the encroachment effectively and accomplish preventative, remedial, or restorative work expeditiously. The City reserves the unqualified right to collect all monies unpaid through any combination of available statutory remedies, including recordation of Prospective Liens and Priority Liens/ Special Assessments with the Alameda County Recorder, inclusion of non-reimbursed amounts by the Alameda County Assessor with the annual assessment of the general levy, and awards of judgments by a court of competent jurisdiction.

8. Upon revocation of the encroachment permit, permittee shall immediately, completely, and permanently remove the encroachment from the public right-of-way and restore the public right-of-way to its original conditions existing before the construction or installation of the encroachment, to the satisfaction of the City Engineer and all at the sole expense of the permittee.

9. This agreement and the associated permit for an encroachment shall become effective upon filing of this agreement with the Alameda County Recorder for recordation as an encumbrance of the property and its title.

- **Special conditions of the encroachment**

10. That said permittee shall obtain excavation permit(s) prior to construction and separate excavation permit(s) prior to the removal of the monitoring well.

11. That said permittee shall provide to the City of Oakland an AS BUILT plan showing the actual location of the monitoring well. And the results of all data collected from the monitoring well.

12. That said permittee shall remove the monitoring well and repair any damage to the street area in accordance with City standards two (2) years after construction or as soon as monitoring is complete.

13. That said permittee shall notify the Community & Economic Development Agency, Building Services Division after the monitoring well is removed and the street area restored to initiate the procedure to rescind the minor encroachment permit.

14. That the monitoring well cover installed within the sidewalk area shall have a skid-proof surface.

15. That the monitoring well casting and cover shall be iron and shall meet H-20 load rating. The cover shall be secured with a minimum of two stainless steel bolts. Bolts and cover shall be mounted flush with the surrounding surface. For sidewalk installations, a pre-cast concrete utility box and non-skid cover may be needed in conjunction with the bolted cast iron cover with City approval.

16. That said permittee acknowledges that the City makes no representations or warranties as to the conditions beneath said encroachment. By accepting this revocable permit, permittee agrees that it will use the encroachment area at its own risk, is responsible for the proper coordination of its activities with all other permittee, underground utilities, contractors, or workmen operating, within the encroachment area and for the safety of itself and any of its personnel in connection with its entry under this revocable permit.

17. That said permittee acknowledges that the City is unaware of the existence of any hazardous substances beneath the encroachment area, and permittee hereby waives and fully releases and forever discharges the City and its officers, directors, employees, agents, servants, representatives, assigns and successors from any and all claims, demands, liabilities, damages, actions, causes of action, penalties, fines, liens, judgments, costs, or expenses whatsoever (including, without limitation, attorneys' fees and costs), whether direct or indirect, known or unknown, foreseen or unforeseen, that may arise out of or in any way connected with the physical condition or required remediation of the excavation area of any law or regulation applicable thereto, including, without limitation, the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended (42 U.S.C. Sections 9601 et seq.), the Resource Conservation and Recovery Act of 1976 (42 U.S.C. Section 466 et seq.), the Safe Drinking Water Act (14 U.S.C. Sections 1401, 1450), the Hazardous Waste Control Law (California Health and Safety Code Sections 25100 et seq.), the Porter-Cologne Water Quality Control Act (California Health and Safety Code Section 13000 et seq.), the Hazardous Substance Account Act (California Health and Safety Code Sections 253000 et seq.), and the Safe Drinking Water and Toxic Enforcement Act (California Health and Safety Code Section 25249.5 et seq.).

18. That said permittee further acknowledges that it understands and agrees that it hereby expressly waives all rights and benefits which it now has or in the future may have, under and by virtue of the terms of California Civil Code Section 1542, which reads as follows: "A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS WHICH THE CREDITOR DOES NOT KNOW OR SUSPECT TO EXIST IN HIS FAVOR AT THE TIME OF EXECUTING THE RELEASE, WHICH IF KNOWN BY HIM MUST HAVE MATERIALLY AFFECTED HIS SETTLEMENT WITH THE DEBTOR."

19. That said permittee recognizes that by waiving the provisions of this section, permittee will not be able to make any claims for damages that may exist, and to which, if known, would materially affect its decision to agree to these encroachment terms and conditions, regardless of whether permittee's lack of knowledge is the result of ignorance, oversight, error, negligence, or any other cause.

20. (a) That said permittee, by the acceptance of this revocable permit, agrees and promises to indemnify, defend, and hold harmless the City of Oakland, its officers, agents, and employees, to the maximum extent permitted by law, from any and all claims, demands, liabilities damages, actions, causes of action, penalties, fines, liens, judgments, costs, or expenses whatsoever (including, without limitation, attorneys' fees and costs; collectively referred to as "claims", whether direct or indirect, known or unknown, foreseen or unforeseen, to the extent that such claims were either (1) caused by the permittee, its agents, employees, contractors or representatives, or, (2) in the case of environmental contamination, the claim is a result of

environmental contamination that emanates or emanated from 245 8th Street, Oakland, California site, or was otherwise caused by the permittee, its agents, employees, contractors or representatives.

(b) That, if any contamination is discovered below or in the immediate vicinity of the encroachment, and the contaminants found are of the type used, housed, stored, processed or sold on or from 245 8th Street, Oakland, California site, such shall amount to a rebuttable presumption that the contamination below, or in the immediate vicinity of, the encroachment was caused by the permittee, its agents, employees, contractors or representatives.

(c) That said permittee shall comply with all applicable federal, state, county and local laws, rules, and regulations governing the installation, maintenance, operation and abatement of the encroachment.

21. That said Minor Encroachment Permit and Agreement shall take effect when all the conditions hereinabove set forth shall have been complied with to the satisfaction of the City Engineer, and shall become null and void upon the failure of the permittee to comply with all conditions.

EXHIBIT B

Description Of the Private Property Abutting The Encroachment

address 245 8th Street

parcel no. 001 -0179-013-00

deed no. 2000217703

recorded July 21, 2000

City of Oakland, County of Alameda, State of California

LOTS 6, 7, 8, 9 AND THE WESTERN 12 FEET 6 INCHES OF LOT 10, ALL IN BLOCK 81, AS SAID LOTS AND BLOCK ARE SHOWN ON THE MAP ENTITLED KELLERSBERGER'S MAP OF OAKLAND IN THE OFFICIAL RECORDS OF ALAMEDA COUNTY, CALIFORNIA, FILED SEPTEMBER 2, 1853 IN BOOK 1 OF MAPS AT PAGE 21

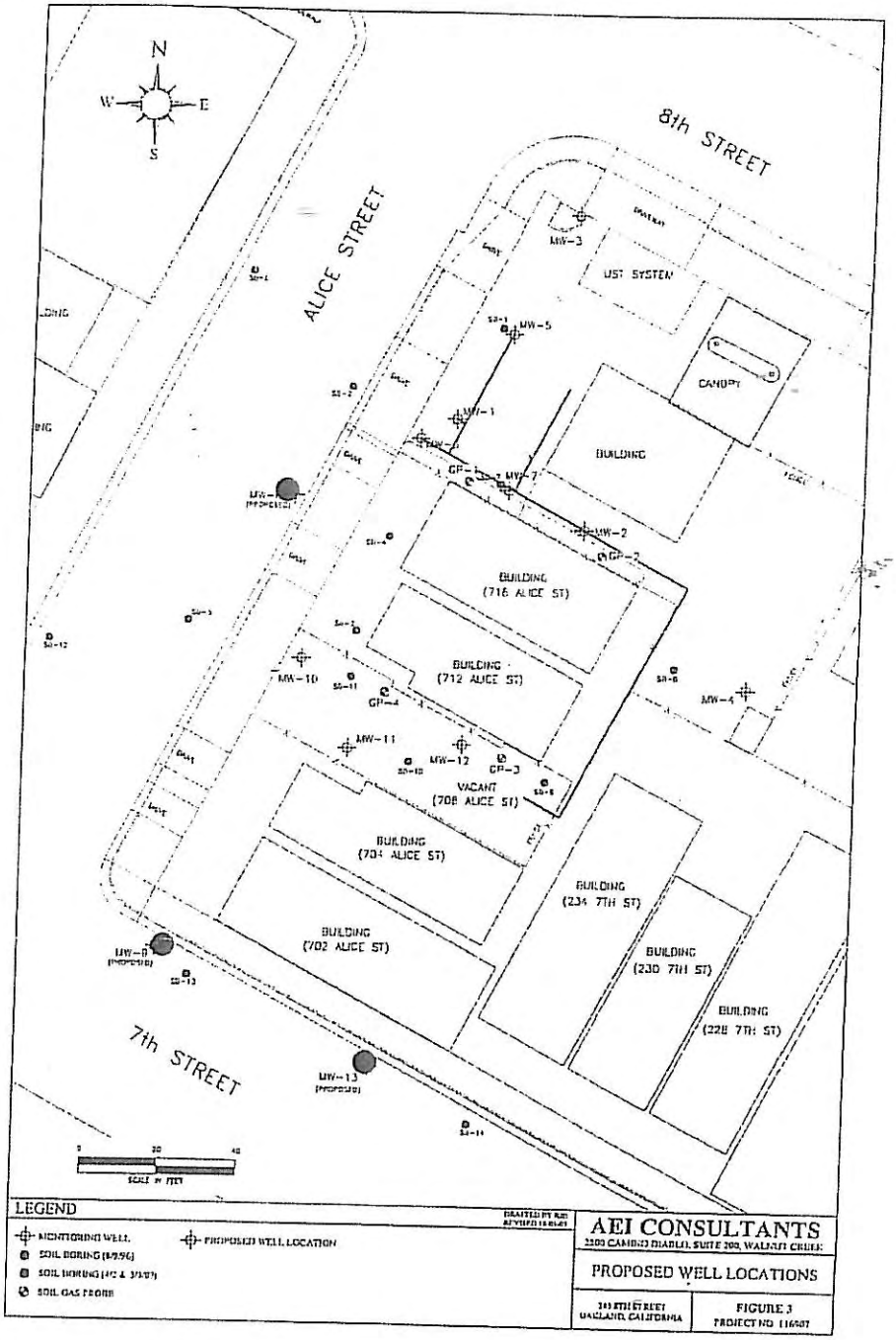
Commonly known as 245 8th Street, Oakland, California
APN. 001-0179-013-00

EXHIBIT C

Limits Of The Encroachment In The Public Right-Of-Way

address 245 8th Street

parcel no. 001 -0179-013-00



● Proposed well

ACKNOWLEDGMENT

State of California
County of Alameda)

On 03 03 2008 before me, Yi Fang
(insert name and title of the officer)

personally appeared Richard Lum and Linda Lum,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Seal)

YI FANG
Commission # 1702211
Notary Public - California
Alameda County
My Comm. Expires Oct 31, 2010

APPENDIX E

BORING & WELL CONSTRUCTION LOGS

Project: Vic's Automotive
Project Location: 245 8th Street, Oakland, California
Project Number: 116907

Log of Boring MW-8

Sheet 1 of 1

Date(s) Drilled **March 18, 2008**	Logged By **Ricky Bradford**	Checked By **Peter McIntyre**
Drilling Method **Hollow Stem Auger**	Drill Bit Size/Type **10 inch**	Total Depth of Borehole **22 feet bgs**
Drill Rig Type **CME 75**	Drilling Contractor **Precision Sampling, Inc.**	Approximate Surface Elevation **35 feet MSL**
Groundwater Level and Date Measured **Not Measured**	Sampling Method(s) **ModCal, Grab**	Hammer Data
Borehole Backfill **Well Completion**	Location **Parking Lane Along Alice Street Southwest of the Subject Property**	

Elevation (feet msl)	Depth (feet bgs)	Sample Type	Sample Number	USCS Symbol	MATERIAL DESCRIPTION	PID Reading (ppmv)	Well Completion Log	REMARKS AND OTHER TESTS
35	0			Other	Three (3) layers of concrete overburden, no granite paver stones.			
				Other	Baserock and fine-grained backfill sand from approx 1.5 to 2-feet bgs.			
				SC/SM	Fine-grained sand w/ silt and clay (SM-SC). Merritt Sand. 2.5Y 4/2 Dark Grayish Brown. Homogeneous. Moist. No blow count. No hc odor.			
30	5		MW-8-5'	SC/SM	Fine-grained sand w/ silt and clay (SM-SC). Merritt Sand. 10YR 4/4 Dark Yellowish Brown. Homogeneous. Moist. No blow count. No hc odor. *Note: description from auger returns.	0		Cement Grout
								4" SCH40 PVC Blank Well Casing
25	10		MW-8-10'	SM	Fine-grained sand w/ silt (SM). Merritt Sand. 10YR 4/4 Dark Yellowish Brown. Homogeneous. Moist. Blow count 15/20/22. Dense. No hc odor.	0		3/8 Bentonite Chips
20	15		MW-8-15'	SM	Fine-grained sand w/ silt and no clay (SM). Merritt Sand. GLEY1 3/10Y or 3/1 Very Dark Greenish Gray. Homogeneous. Wet. Blow Count 8/16/22. Dense. No hc odor.	0		4" SCH40 PVC 0.010 Slotted Well Screen
								# 2/12 Monterey Sand
15	20		MW-8-20'	SM	Fine-grained sand w/ silt and no clay (SM). Merritt Sand. 10YR 3/2 Very Dark Grayish Brown. Homogeneous. Saturated. Blow Count 18/22/33. Very Dense or Hard. No hc odor.	0		
10	25				Bottom of Boring at 22 feet bgs.			

Figure

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Project: Vic's Automotive
Project Location: 245 8th Street, Oakland, California
Project Number: 116907

Log of Boring MW-9

Sheet 1 of 1

Date(s) Drilled: **March 17, 2008**	Logged By: **Ricky Bradford**	Checked By: **Peter McIntyre**
Drilling Method: **Hollow Stem Auger**	Drill Bit Size/Type: **8 inch**	Total Depth of Borehole: **22 feet bgs**
Drill Rig Type: **CME 75**	Drilling Contractor: **Precision Sampling, Inc.**	Approximate Surface Elevation: **35 feet MSL**
Groundwater Level and Date Measured: **14.77 feet ATD, 15.1 feet after 2 hours**	Sampling Method(s): **ModCal, Grab**	Hammer Data:
Borehole Backfill: **Well Completion**	Location: **Parking Lane Along 7th Street Southwest of the Subject Property**	

Elevation (feet msl)	Depth (feet bgs)	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading (ppmv)	Well Completion Log	REMARKS AND OTHER TESTS
35	0			Other		Three (3) layers of concrete overburden w/ 6 to 8-inch granite paver stones.			
				Other SC/SM		Baserock and fine-grained backfill sand from approx. 1.5 to 2-feet bgs.			
						Fine-grained sand w/ silt and clay (SM-SC). Merritt Sand. 2.5Y 4/2 Dark Grayish Brown. Homogeneous. Moist. No blow count. Loose. No hc odor.			
30	5		MW-9-5'	SC/SM		Fine-grained sand w/ silt and clay (SM-SC). Merritt Sand. 10YR 4/4 Dark Yellowish Brown. Homogeneous. Moist. No blow count. No hc odor. *Note: description from auger returns.	0		Cement Grout
									2" SCH40 PVC Blank Well Casing
25	10		MW-9-10'	SM		Fine-grained sand w/ silt (SM). Merritt Sand. 10YR 4/4 Dark Yellowish Brown. Homogeneous. Moist. No blow count. No hc odor. *Note: description from auger returns.	0		3/8 Bentonite Chips
20	15		MW-9-15'	SM		(ATD) (after 2 hours) Fine-grained sand w/ silt and no clay (SM). Merritt Sand. GLEY1 3/10Y or 3/1 Very Dark Greenish Gray. Homogeneous. Wet. Blow Count 16/33/30. Very Dense or Hard. No hc odor.	0		2" SCH40 PVC 0.010 Slotted Well Screen
									# 2/12 Monterey Sand
15	20		MW-9-20'	SM		Fine-grained sand w/ silt and no clay (SM). Merritt Sand. 10YR 3/2 Very Dark Grayish Brown. Homogeneous. Saturated. Blow Count 18/50/50. Very Dense or Hard. No hc odor.	0		
10	25					Bottom of Boring at 22 feet bgs.			

Figure

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Project: Vic's Automotive
Project Location: 245 8th Street, Oakland, California
Project Number: 116907

Log of Boring MW-13

Sheet 1 of 1

Date(s) Drilled: **March 17, 2008**	Logged By: **Ricky Bradford**	Checked By: **Peter McIntyre**
Drilling Method: **Hollow Stem Auger**	Drill Bit Size/Type: **8 inch**	Total Depth of Borehole: **22 feet bgs**
Drill Rig Type: **CME 75**	Drilling Contractor: **Precision Sampling, Inc.**	Approximate Surface Elevation: **35 feet MSL**
Groundwater Level and Date Measured: **14.98 feet ATD, 15.2 feet after 2 hours**	Sampling Method(s): **ModCal**	Hammer Data:
Borehole Backfill: **Well Completion**	Location: **Parking Lane Along 7th Street Southwest of the Subject Property**	

Elevation (feet msl)	Depth (feet bgs)	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading (ppmv)	Well Completion Log	REMARKS AND OTHER TESTS
35	0			Other		Three (3) layers of concrete overburden w/ 6 to 8-inch granite paver stones.			
				Other		Baserock and fine-grained backfill sand from approx. 1.5 to 2-feet bgs.			
				SC/SM		Fine-grained sand w/ silt and clay (SM-SC). Merritt Sand. 2.5Y 4/2 Dark Grayish Brown. Homogeneous. Moist. No Blow Count. No hc odor.			
30	5		MW-13-5'	SC/SM		Fine-grained sand w/ silt and clay (SM-SC). Merritt Sand. 2.5Y 4/2 Dark Grayish Brown. Homogeneous. Moist. Blow Count 6/6/6. Medium Dense. No hc odor.	0		Cement Grout
									2" SCH40 PVC Blank Well Casing
25	10		MW-13-10'	SM		Fine-grained sand w/ silt and no clay (SM). Merritt Sand. GLEY1 4/5GY Dark Greenish Gray. Homogeneous. Moist. Blow Count 17/33/38. Very Dense or Hard. No hc odor.	0		3/8 Bentonite Chips
20	15		MW-13-15'			(ATD) ▽ (after 2 hours) ▽	0		2" SCH40 PVC 0.010 Slotted Well Screen
				SC/SM		Fine-grained sand w/ silt and clay (SM-SC). Merritt Sand. GLEY1 3/10Y or 3/1 Very Dark Greenish Gray. Homogeneous. Wet. Blow Count 8/24/26. Very Dense or Hard. No hc odor.			# 2/12 Monterey Sand
15	20		MW-13-20'	SM		Fine-grained sand w/ silt and no clay (SM). Merritt Sand. 10YR 3/2 Very Dark Grayish Brown. Homogeneous. Saturated. Blow Count 14/32/38. Very Dense or Hard. No hc odor.	0		
10	25					Bottom of Boring at 22 feet bgs.			

Figure

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED