



**CONESTOGA-ROVERS
& ASSOCIATES**

5900 Hollis Street, Suite A, Emeryville, California 94608
Telephone: 510-420-0700 Facsimile: 510-420-9170
www.CRAworld.com

SITE INVESTIGATION, PREFERENTIAL PATHWAY, AND WORKPLAN REPORT

**Encinal Properties
1436 Grant Avenue
San Lorenzo, California**

April 29, 2008

RECEIVED

10:13 am, May 01, 2008

Alameda County
Environmental Health

Prepared for:

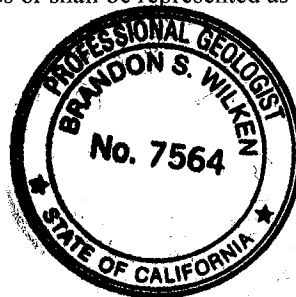
Mr. George Jaber
2801 Encinal Avenue
Alameda, CA 94501-4726

Prepared By:

Conestoga-Rovers & Associates, Inc.
5900 Hollis Street, Suite A
Emeryville, California 94608

Conestoga-Rovers & Associates, Inc. (CRA) prepared this document for use by our client and appropriate regulatory agencies. It is based partially on information available to CRA from outside sources and/or in the public domain, and partially on information supplied by CRA and its subcontractors. CRA makes no warranty or guarantee, expressed or implied, included or intended in this document, with respect to the accuracy of information obtained from these outside sources or the public domain, or any conclusions or recommendations based on information that was not independently verified by CRA. This document represents the best professional judgment of CRA. None of the work performed hereunder constitutes or shall be represented as a legal opinion of any kind or nature.

Christina McClelland
Staff Geologist



Brandon S. Wilken, P.G.
Senior Project Geologist

I:\MR\Encinal Property-San Lorenzo\2008 Subsurface Investigation\Feb 2008 Investigation-WP-Encinal-Draft.doc

Equal
Employment
Opportunity Employer



Table of Contents

1	INTRODUCTION AND SITE BACKGROUND.....	1
1.1	SITE DESCRIPTION AND USE.....	1
1.2	SITE BACKGROUND.....	1
2	PREFERENTIAL PATHWAY STUDY	4
2.1	WELL SURVEY.....	4
2.2	UTILITY SURVEY.....	4
3	INVESTIGATION – FEBRUARY 2008	6
4	PETROLEUM HYDROCARBON DISTRIBUTION.....	7
4.1	HYDROCARBON DISTRIBUTION IN SOIL.....	7
4.2	HYDROCARBON DISTRIBUTION IN GROUNDWATER.....	8
5	CONCLUSIONS AND RECOMMENDATIONS	9
6	PROPOSED SCOPE OF WORK.....	9
6.1	HEALTH AND SAFETY PLAN.....	10
6.2	PERMITS	10
6.3	UTILITY LOCATION	10
6.4	SOIL BORINGS.....	10
6.5	SOIL SAMPLING.....	10
6.6	GROUNDWATER SAMPLING.....	11
6.7	CHEMICAL ANALYSES.....	11
6.8	MONITORING WELL INSTALLATION.....	11
6.8.1	<i>Well Development and Sampling.....</i>	<i>11</i>
6.8.2	<i>Well Survey.....</i>	<i>12</i>
6.9	SOIL VAPOR PROBE INSTALLATION.....	12
6.9.1	<i>Soil Vapor Sampling.....</i>	<i>12</i>
6.10	WASTE MANAGEMENT/DISPOSAL.....	12
6.11	REPORTING.....	13
6.12	SCHEDULE	13



**CONESTOGA-ROVERS
& ASSOCIATES**

Encinal Properties, 1436 Grant Avenue
San Lorenzo, California
April 29, 2008

- Figures:
- 1 – Vicinity Map
 - 2 – Site Plan
 - 3 – Well Survey Location Map
 - 4 – Investigation Hydrocarbon Concentrations in Soil and Groundwater
 - 5 – TPHd in Soil Isoconcentration Contour Map
 - 6 – TPHg in Soil Isoconcentration Contour Map
 - 7 – Benzene in Soil Isoconcentration Contour Map
 - 8 – MTBE in Soil Isoconcentration Contour Map
 - 9 – Groundwater Elevation Contour and Hydrocarbon Concentration Map
 - 10 – Proposed Locations

- Tables:
- 1 – Monitoring Well Construction Details
 - 2 – Groundwater Analytical Data
 - 3 – Soil Analytical Data
 - 4 – Well Survey Data

- Appendices:
- A – Regulatory Correspondence
 - B – CRA's Standard Operating Procedures
 - C – Permits
 - D – Boring Logs
 - E – Laboratory Analytical Report



**CONESTOGA-ROVERS
& ASSOCIATES**

Encinal Properties, 1436 Grant Avenue
San Lorenzo, California
April 29, 2008

1 INTRODUCTION AND SITE BACKGROUND

On behalf of Mr. George Jaber, Conestoga-Rovers & Associates, Inc. (CRA) is submitting this report that includes the results of the Preferential Pathway Study and the February 2008 investigation for the Encinal Properties site (Former Olympic Station) located at 1436 Grant Avenue in San Lorenzo, California (Figure 1). The Alameda County Department of Environmental Health (ACEH) approved the scope of work to advance eight (8) soil borings to collect soil and groundwater samples in a letter dated January 22, 2008 (Appendix A). The objective of this investigation was to delineate the lateral and vertical extent of petroleum hydrocarbons at the site and to identify any preferential pathways for petroleum hydrocarbon migration. Also included in this report is a workplan to complete horizontal delineation of petroleum hydrocarbons and install four (4) soil vapor probes. A discussion of the site background, previous environmental assessments, sensitive receptors, subsurface investigation activities, hydrocarbon distribution in soil and groundwater, our conclusions and recommendations, and the workplan for the proposed additional investigation are presented below.

1.1 Site Description and Use

The site is located at 1436 Grant Avenue in San Lorenzo, California, on the south corner at the intersection of Grant Avenue and Channel Street (Figures 1, 2, and 3). The site is a former Olympic Service Station that currently operates as San Lorenzo Auto Repair. The property is owned by Mr. George Jaber (Encinal Properties) and Mr. Tony Malonzo operates the auto repair shop at the site. Commercial properties are located south and southwest of the site. A school is located north of the site. The remainder of the surrounding area is residential in nature (Figures 2 and 3). On July 10, 1998, four steel, single wall underground storage tanks (USTs) were removed from the site: one 10,000-gallon gasoline UST, one 8,000-gallon gasoline UST; one 5,000-gallon diesel UST, and one 250-gallon waste-oil UST (Figure 2). Six dispensers located on two islands north of the auto repair building were also removed. Based on the ACEH October 21, 1998 letter, the fuel USTs were constructed of tar-wrapped steel and the waste-oil UST was constructed of bare steel. During removal activities, holes were observed in the waste-oil tank.

1.2 Site Background

In 1998 the USTs and fueling facilities were removed from the site. From 1999 to 2002 soil and groundwater assessments were completed and five quarterly groundwater monitoring and sampling events were conducted during 1999 and 2000. A summary of the UST removals, site assessments, and quarterly groundwater monitoring results are below. Boring and well locations are presented on Figure 2.



**CONESTOGA-ROVERS
& ASSOCIATES**

Encinal Properties, 1436 Grant Avenue
San Lorenzo, California
April 29, 2008

Monitoring well construction details are presented in Table 1. Groundwater and soil analytical data are presented in Tables 2 and 3.

July 1998 UST Removal Activities: On July 10, 1998, Reese Construction removed four steel, single wall USTs: one 10,000-gallon gasoline UST, one 8,000-gallon gasoline UST, one 5,000-gallon diesel UST, and one 250-gallon waste-oil UST. Additionally, six dispensers and associated fuel piping were removed. The fuel UST excavation dimensions were approximately 40 feet (ft) by 30 ft and 10 to 12 ft deep, and the waste-oil tank excavation dimensions were approximately 8 ft by 6 ft and 6 ft deep. Groundwater was present in the fuel UST excavation at approximately 10 ft bgs and no groundwater was encountered in the waste-oil tank excavation. Eleven (11) confirmation soil samples were collected from the sidewalls and bottoms of the UST and waste oil excavations; at the piping intersections; and at the dispensers. Additional details are presented in Reese Construction September 14, 1998 *Tank Closure Report*.

September 1998 Excavation Dewatering: On September 8, 1998, Foss Environmental Services (FES), pumped, transported, and disposed of groundwater contained in the fuel UST excavation. A total of approximately 5,000 gallons of groundwater was pumped out of the excavation into the vacuum truck. Additional details are presented in FES's September 21, 1998 *Report of Excavation Dewatering Activities*.

November 1998 Soil Stockpile Sampling: In November 1998, Aqua Science Engineers Inc. (ASE) sampled the UST excavation soil stockpiles to characterize them for disposal or reuse. The highest concentrations detected were 280 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as diesel (TPHd), 0.066 mg/kg xylenes, 0.012 mg/kg methyl tertiary-butyl ether (MTBE), and 110 mg/kg total lead. No total petroleum hydrocarbons as gasoline (TPHg) or benzene were detected above laboratory detection limits. The ACEHD approved the UST excavation soil stockpile to be re-used as backfill in the fuel UST excavation. The fuel UST excavation was subsequently backfilled and compacted. Additional details are presented in ASE's November 24, 1998 *Stockpiled Soil Sampling Results*.

December 1998 Waste-Oil and Dispenser Overexcavation: On December 18, 1998 ASE oversaw the overexcavation of the waste-oil UST excavation and the northern dispenser island due to the presence of elevated concentrations of petroleum hydrocarbons, oil and grease, volatile organic compounds (VOCs), and/or total lead. The waste-oil excavation bottom was approximately 12 ft bgs and the dispenser excavation was approximately 3.5 ft bgs. Excavating deeper was not feasible due to the location of the waste-oil excavation in relation to the adjacent building wall. The waste-oil UST excavation was subsequently backfilled with clean imported fill material. The 15.3 tons of soil from the waste-oil excavation stockpile were transported from the site by Lutrell Trucking to Chemical Waste Management in Kettleman City, California for disposal on September 24, 1999. ASE collected confirmation soil



**CONESTOGA-ROVERS
& ASSOCIATES**

Encinal Properties, 1436 Grant Avenue
San Lorenzo, California
April 29, 2008

samples from the waste-oil (WO-OEX-12) and dispenser (D1G-OEX-3.5) excavations. Sample WO-OEX-12 contained 570 mg/kg oil and grease, 940 mg/kg TPHmo, and 250 mg/kg TPHd. No TPHg or benzene was detected above laboratory detection limits. No total petroleum hydrocarbons as motor oil (TPHmo), TPHd, TPHg, benzene, toluene, ethylbenzene, and xylenes (BTEX), and MTBE were detected above detection limits from sample D1G-OEX-3.5. Additional details are presented in ASE's January 7, 1999 *Report Detailing Former Waste-Oil UST Overexcavation Activities*.

1999 Monitoring Well Installation: On September 24, 1999, ASE installed groundwater monitoring well MW-1 downgradient of the former USTs, well MW-2 downgradient of the former waste-oil UST, and well MW-3 downgradient of the former dispensers. The two-inch wells were screened from approximately 5 ft bgs to 26.5 ft bgs (Table 1). Soil samples were either collected at 10 or 10.5 ft bgs. No semi-volatile organic compounds (SVOCs) or halogenated volatile organic compounds (HVOCs) were detected above laboratory detection limits. The highest concentrations of TPHg and benzene detected were 11 mg/kg and 0.63 mg/kg in boring MW-3 at 10 ft bgs, respectively. The highest MTBE concentration was 1.7 mg/kg in boring MW-1 at 10.5 ft bgs. Concentrations of oil and grease, TPHmo, and TPHd were detected at 700 mg/kg, 2,400 mg/kg, and 1,000 mg/kg, respectively, in boring MW-2 at 10 ft bgs. Additional details are presented in ASE's November 12, 1999 *Report of Soil and Groundwater Assessment*.

2002 Soil and Groundwater Assessment: On April 30, 2002, ASE advanced borings BH-A, BH-B, and BH-C approximately 30 ft southwest (downgradient) of the site. The borings were advanced to 20 ft bgs, and soil and grab groundwater samples were collected from each boring. The highest soil concentrations were 290 mg/kg TPHg, 320 mg/kg TPHd, 2.2 mg/kg benzene from boring BH-B. The highest groundwater concentrations were 2,300 micrograms per liter ($\mu\text{g/L}$) TPHg, 120 $\mu\text{g/L}$ benzene, and 2,000 $\mu\text{g/L}$ MTBE from boring BH-B. ASE recommended continuing quarterly groundwater monitoring, and to further delineate the petroleum hydrocarbon plume downgradient. Additional details are presented in ASE's May 31, 2002 *Report of Soil and Groundwater Assessment*.

Quarterly Monitoring: Five consecutive quarters of groundwater monitoring and sampling were initiated in October 1999 (Table 2). Samples were analyzed for TPHg, BTEX, and MTBE. Well MW-2 samples were also analyzed for oil and grease, TPHmo, SVOCs and HVOCs. Groundwater monitoring was reinstated in February 2007 and has continued quarterly since then. In February 2008, only MTBE was detected in wells MW-1, MW-2 and MW-3 at concentrations of 110 $\mu\text{g/L}$, 3.3 $\mu\text{g/L}$, and 97 $\mu\text{g/L}$, respectively. Historically depth to groundwater has ranged from 5.25 to 8.35 ft below top of casing.



**CONESTOGA-ROVERS
& ASSOCIATES**

Encinal Properties, 1436 Grant Avenue
San Lorenzo, California
April 29, 2008

2 PREFERENTIAL PATHWAY STUDY

2.1 WELL SURVEY

CRA requested Well Completion Reports for all wells within a ½ mile radius of the site from the California State Department of Water Resources (DWR). In addition, CRA requested a search of all wells within a ½ mile radius of the site from Alameda County Public Works Agency (ACPWA). The search identified a total of 34 wells located on 27 different sites. The 34 wells included three (3) domestic wells, ten (10) groundwater monitoring wells, twenty (20) irrigation wells, and one (1) well of unknown use. Figure 3 presents the locations of the 27 sites containing wells within the search radius, Table 4 presents the results of the DWR and ACPWA well search. CRA did not include copies of the DWR Well Completion Reports, since they are not intended for public use.

Historically, groundwater onsite has flowed toward the west and southwest. Based on the historical groundwater flow direction, wells M and N (Figure 3 and Table 4) appear to be the only wells that could be considered downgradient of the site. Irrigation well N is the closest well to the site and is located approximately 1,109 feet west-northwest of the source area (Figure 3). Irrigation well M is located approximately 1,162 feet southwest of the site. Soil and groundwater analytical data collected to date, demonstrate that the petroleum hydrocarbon plume's downgradient extent is likely less than 300 feet from the source area. Therefore, due to the limited extent of the petroleum hydrocarbon plume and the large distance to the nearest well, it is unlikely that any of the wells identified have or ever will be impacted by the petroleum hydrocarbon plume at the site.

2.2 UTILITY SURVEY

CRA completed a utility survey to assess whether utility trenches could be acting as potential preferential pathways for groundwater and petroleum hydrocarbon migration. To identify utilities in the site vicinity, CRA marked the site and notified Underground Service Alert (USA). USA then notified all utility purveyors to mark out any utilities in the public right-of-way along the site perimeter, including Grant Avenue and Channel Street. Next, CRA retained OHJ Subsurface Utility Locator to perform a utility survey onsite and to verify USA markings along Grant Avenue and Channel Street. Furthermore, CRA obtained and reviewed maps from East Bay Municipal Utility District for water lines, Pacific Gas & Electric (PG&E) for subsurface electric and gas lines and from the Oro Lomo Sanitary District for sanitary sewer and storm drain lines to verify that we had located all of the utilities. Figure 2 presents the locations of the utility conduits in the vicinity of the site in plan view.



**CONESTOGA-ROVERS
& ASSOCIATES**

Encinal Properties, 1436 Grant Avenue
San Lorenzo, California
April 29, 2008

Water Lines: A 12-inch diameter water main is located beneath Grant Avenue approximately 30 ft northwest of the site property boundary (Figure 2). This water line trends southwest to northeast down the center of Grant Avenue. A 12-inch diameter water main is located approximately 20 ft northeast of the site property boundary in Channel Street and trends northwest-southeast. A water lateral along Grant Avenue enters the site approximately 90 ft southwest of the intersection of Grant Avenue and Channel Street, and 5 ft southwest of the former pump islands and then enters the office/garage onsite. Based on a geophysical survey, the water lateral is approximately 3 ft bgs in Grant Avenue and approximately 5-inches below ground surface (bgs) onsite. A second lateral was identified downgradient of the site approximately 210 ft southwest of the intersection of Grant Avenue and Channel Street and enters the back corner of the Arroyo Center Building. Based on a geophysical survey, this water lateral is located approximately 2 ft bgs. In the Bay area, water lines are rarely buried deeper than 4 ft bgs.

Sanitary Sewer Lines: Two sanitary sewer lines, of varying diameters between 27-inches and 54-inches, are located beneath Grant Avenue approximately 40 ft northwest of the site property boundary. The sewer line trends northeast-southwest and flows toward the southwest (Figure 2). Several 8-inch diameter sanitary sewer lines are located in Via Seco downgradient of the site and flow toward Grant Avenue. According to drawings from 1950, the bottoms of the sanitary sewer lines are approximately 6 to 8 ft bgs.

Storm Drains: A 48-inch diameter reinforced concrete storm drain is located upgradient of the site at the intersection of Channel Street and Grant Avenue and continues down Channel Street approximately 10 ft northeast of the site boundary (Figure 2). The storm drain is buried approximately 5 ft bgs and flows toward the southeast. A storm drain is located in Via Seco and it bends 90-degrees at the intersection of Grant Avenue and Via Seco and continues down Grant Avenue toward the southwest. The depth of this storm drain is unknown. However, it is assumed to be no deeper than 5 ft bgs based on the depth of the storm drain in Channel Street.

Gas, Communication, & Electrical Lines: A trench containing gas lines exists beneath Grant Avenue. The utility trench, which runs northeast-southwest, is located approximately 5 feet northwest of the site property boundary and is buried approximately 3 ft bgs. A lateral enters the property approximately 60 ft southwest of the intersection of Grant Avenue and Channel Street, and then enters the back side of the office/garage onsite and is buried approximately 2.5 ft bgs. A second lateral enters the Arroyo Center buildings approximately 235 ft southwest of the intersection of Grant Avenue and Channel Street and is buried approximately 2.25 ft bgs. Additional electrical and communication lines are located overhead and enter the site from a power drop located near former pump islands, and enter the Arroyo Center buildings from a power drop located near and southwest corner of the building.



**CONESTOGA-ROVERS
& ASSOCIATES**

Encinal Properties, 1436 Grant Avenue
San Lorenzo, California
April 29, 2008

Likelihood to Impact Underground Utility Trenches: Based on historical groundwater monitoring data, the static depth to groundwater has ranged from approximately 5.25 to 8.35 fbg and flows toward the west-southwest. The sanitary sewer lines (~ 6 to 8 ft bgs) located downgradient of the site in Grant Avenue and the storm drain (~5 ft bgs) along Channel Street appear to be the only utilities that could possibly be preferential pathways for petroleum hydrocarbon migration at the site. CRA recommends that the potential for petroleum hydrocarbon migration be further investigated in these locations.

3 INVESTIGATION – FEBRUARY 2008

CRA advanced borings B-1 through B-8 on February 25 and 26, 2008 in accordance with Cambria's March 2, 2007 *Site Assessment and Preferential Pathway Study Work Plan* and CRA's May 31, 2007 *Site Assessment Work Plan Addendum* and September 26, 2007 *Site Assessment Work Plan Addendum 2*. This scope of work was approved in ACEH's January 22, 2008 letter (Appendix A). The objective for advancing borings B-1 through B-8 was to laterally and vertically delineate the soil and groundwater petroleum hydrocarbon plume at the site. The following tasks were completed to meet these objectives. CRA's standard operating procedures are in Appendix B.

Drilling Date: The drilling was completed on February 25th and 26th, 2008.

Personnel Present: CRA Staff Geologist, Christina McClelland, completed all field work under the supervision of California Professional Geologist (#7564), Brandon Wilken.

Permits: Encroachment permit # R08-LD9125 was issued by Alameda County Public Works Agency (ACPWA) to advance boring B-8 located in the sidewalk adjacent to Grant Avenue. ACPWA also issued boring permit # W2008-0055 for borings B-1 through B-8. Copies of these permits are presented in Appendix C.

Drilling Contractor: Gregg Drilling of Martinez, California (C57-485165) completed all drilling under the supervision of CRA.

Drilling Methods: Prior to drilling, all boring locations were utility cleared to 8 ft bgs using a hand auger. Borings B-1 through B-8 were advanced to 25 fbg using direct push technology.

Soil Sampling: Soil samples were collected continuously in soil borings B-1 through B-8. CRA logged the soil according to the Unified Soil Classification System (USCS). Soil samples were screened using a photo-ionization detector (PID).



Groundwater Sampling: Groundwater samples were collected using a stainless steel pen bailer that was lowered into the boring through temporary PVC screen. The groundwater was decanted from the bailer into laboratory provided containers, sealed, labeled, and stored in a cooler on ice under a chain-of-custody. The stainless steel pen bailer was decontaminated in an Alconox® wash and rinsed with clean tap water between sampling each boring location. Groundwater samples were collected from soil borings B-1 through B-8.

Soil Lithology: Sediments at the site generally consist of interbedded, horizontal layers of silty sand, sandy silt, clay, and silty clay with lenses of sand and gravel. The majority of the soils are estimated to have low to moderate permeability. Boring and well construction logs are presented as Appendix D.

Sample Analysis: Groundwater and select soil samples were analyzed for TPHd and TPHg by EPA Method 8015B, benzene, toluene, ethylbenzene, and xylenes (BTEX), and MTBE, TAME, ETBE, DIPE, EDB, TBA, Ethanol and 1,2-DCA by EPA Method 8260B. Samples were labeled, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Groundwater and soil analytical results are presented in Tables 2 and 3, respectively. The analytical laboratory reports are included in Appendix E.

Waste Disposal: Soil cuttings and rinseate generated during these activities were stored in one 55-gallon closed top steel drums. CRA is coordinating the disposal of this waste with a licensed vendor.

4 PETROLEUM HYDROCARBON DISTRIBUTION

4.1 Hydrocarbon Distribution in Soil

During the current investigation, CRA advanced borings B-1 through B-8. The highest concentrations of TPHd and TPHg detected were in boring B-1 at 1,700 mg/kg TPHd and 290 mg/kg TPHg at 7 ft bgs. The highest benzene concentration detected was 0.72 mg/kg at 11.5 ft bgs in boring B-8. The highest MTBE concentration detected was 1.8 mg/kg at 11.5 ft bgs in boring B-4. Moderate to low concentrations of petroleum hydrocarbons were detected in borings B-2 and B-5. Only low concentrations of MTBE were detected in submerged soil samples from borings B-3 and B-6; these concentrations are likely related to dissolved-phase MTBE. No petroleum hydrocarbons were detected in boring B-7. Soil analytical data is presented in Table 3 and on Figure 4.

TPHd, TPHg, benzene, and MTBE soil isoconcentrations maps are presented on Figures 5 through 8. As shown in Figures 5 through 8, additional lateral delineation is needed to the northwest, west, and



southwest of the site. The large majority of petroleum hydrocarbon mass is limited to soil between 7 and 12 ft bgs, at or below the water table. The vertical extent of petroleum hydrocarbons is fully defined.

4.2 Hydrocarbon Distribution in Groundwater

During the current investigation, CRA collected grab groundwater samples from borings B-1 through B-8. The highest TPHd and benzene concentrations were detected in the grab groundwater sample from boring B-1 at 260,000 $\mu\text{g/l}$ and 330 $\mu\text{g/l}$, respectively. The highest TPHg and MTBE concentrations were detected in the grab groundwater sample from boring B-4 at 7,300 $\mu\text{g/l}$ and 2,700 $\mu\text{g/l}$, respectively. Moderate concentrations of petroleum hydrocarbons were detected in borings B-2, B-8, and B-5. Low concentrations of petroleum hydrocarbons were detected in borings B-3, B-6, and B-7.

On February 1, 2008, during the first quarter 2008 sampling event, only MTBE was detected in wells MW-1, MW-2 and MW-3 at concentrations of 110 $\mu\text{g/l}$, 3.3 $\mu\text{g/l}$, and 97 $\mu\text{g/l}$ (Figure 9). No other petroleum hydrocarbon concentrations were detected in onsite wells. It appears that the grab groundwater sample concentrations are significantly elevated above the groundwater samples collected from properly installed and developed wells. For example, the high TPHd concentrations detected in boring B-1 were not detected in downgradient well MW-3, which is only approximately 65 feet from boring B-1. This suggests that the majority of petroleum hydrocarbon impact detected at the site is related to an older release where the dissolved-phase plume has attenuated and what remains is the adsorbed-phase fraction. However, MTBE and some of the petroleum hydrocarbon mass are likely from a more recent release, due to the short time frame that MTBE has been used in gasoline and the fact that MTBE is currently detected in groundwater samples from the monitoring wells.

The distribution of dissolved-phase petroleum hydrocarbons is defined to the south by borings B-3 and B-7. Additional groundwater delineation is needed upgradient of the site near boring B-4 and downgradient of the site to the northwest, west, and southwest of borings B-1, B-5, and B-8. Groundwater analytical results are presented in Table 2 and on Figures 4 and 9.



5 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of this and previous investigations, the following are our conclusions:

- It is unlikely that any of the wells identified by the well survey have or ever will be impacted by the petroleum hydrocarbon plume at the site.
- The sanitary sewer lines located downgradient of the site in Grant Avenue and the storm drain along Channel Street appear to be the only utilities that could possibly be preferential pathways for petroleum hydrocarbon migration at the site.
- The vertical extent of hydrocarbons in soil is defined on and offsite.
- The large majority of petroleum hydrocarbon mass is limited to soil between 7 and 12 ft bgs, at or below the water table.
- Additional horizontal delineation of hydrocarbons in soil and groundwater is needed to the northeast and east in Channel Street, and to the northwest, west, and southwest of the site along Grant Avenue.
- As requested in the January 22, 2008 letter from ACEH, CRA is providing a workplan in this report to complete soil vapor sampling at the site.

6 PROPOSED SCOPE OF WORK

Based on these conclusions, CRA proposes to advance seven (7) additional soil borings, install one (1) monitoring well, and install four (4) soil vapor sampling points. The objective for advancing the soil borings is to complete lateral delineation to the northeast and east of boring B-4 in Channel Street and to the northwest, west, and southwest of the site along Grant Avenue. The objective for installing on monitoring well in the vicinity of boring B-1 is to establish a TPHd concentration trend and determine if diesel non-aqueous phase liquid (NAPL) is present. As requested in the January 22, 2008 letter from ACEH, the objective for installing four (4) soil vapor probes is to determine whether soil vapor poses a health risk at the site and the businesses downgradient. Proposed boring and well locations are presented on Figure 10.



6.1 Health and Safety Plan

To protect the public and site personnel during the fieldwork, the site-specific Health and Safety Plan (HSP) will be distributed to all members of the project team. The HSP addresses physical health threats posed by drilling and potential health threats posed by contact with petroleum hydrocarbons. The HSP also prescribes appropriate personal protective equipment (PPE) to protect site workers.

6.2 Permits

Prior to initiating field activities, CRA will obtain soil boring and well installation permits from ACPWA. Also, an encroachment permit will be obtained from ACPWA for soil borings proposed in the public right-of-way.

6.3 Utility Location

The proposed boring and well locations will be marked and Underground Service Alert (USA) will be notified of our site activities to identify utilities in the site vicinity. Prior to drilling, the soil borings and well location will be cleared to 8 fbg to minimize the potential for damaging underground utilities.

6.4 Soil Borings

CRA proposes to advance soil borings B-9 through B-15 to approximately 25 ft bgs using a direct push drill rig. The anticipated depth to groundwater is between 6 to 8 fbg. Proposed boring locations are presented in Figure 10. CRA's standard field procedures for soil borings are presented in Appendix B.

6.5 Soil Sampling

Soil samples will be collected continuously as determined by field staff based on obvious changes in lithology, at depths previously identified as petroleum hydrocarbon-bearing, or where petroleum hydrocarbons are detected with a photo-ionization detector (PID). Sediments encountered in the samples and drill cuttings will be recorded in a boring/well log using the Unified Soil Classification System (USCS). The samples will be labeled, stored in a cooler on ice, and transported under a completed chain of custody to McCampbell Analytical, a state certified laboratory.



6.6 Groundwater Sampling

Grab groundwater samples will be collected from borings B-9 through B-15 to delineate the dissolved-phase hydrocarbon plume. The grab groundwater samples will be collected using a decontaminated stainless steel bailer and temporary PVC casing. The groundwater will be decanted into the appropriate glassware provided by the laboratory. The samples will be labeled, stored in a cooler on ice, and transported under a completed chain of custody to McCampbell Analytical, a state certified laboratory.

6.7 Chemical Analyses

Groundwater and select soil samples will be submitted for analysis. Sample selection will be based on visual field inspection, data obtained with a PID, and at depths previously identified as petroleum hydrocarbon-bearing. Selected samples will be analyzed for TPHd and TPHg by EPA Method 8015B, BTEX, MTBE, TAME, ETBE, EDB, DIPE, TBA, Ethanol and 1,2-DCA by EPA Method 8260B. CRA will request EDFs be created for the laboratory analytical data and will upload this data to the State's Geotracker Database.

6.8 Monitoring Well Installation

CRA proposes to install one (1) monitoring well adjacent to boring B-1 (Figure 9). The well will be installed using a hollow stem auger rig with 10-inch outside diameter augers. The well will be screened from approximately 5 to 20 ft bgs with 4-inch diameter Schedule 40 PVC, a well screen slot size of 0.010 inch, and number 2/12 sand filter pack. The filter pack will be installed from approximately 4 to 20 ft bgs. The annulus will then be sealed using hydrated bentonite pellets to approximately 3 ft bgs, and then sealed to the surface using Portland cement. A traffic grade well box will be installed at the surface and surrounded by concrete.

6.8.1 Well Development and Sampling

CRA will develop well MW-4 using a surge block and groundwater pump prior to the next quarterly sampling event. Well MW-4 will be incorporated into the quarterly sampling program. CRA's standard operating procedures for monitoring well installation and development are included in Attachment B.



6.8.2 Well Survey

CRA proposes to survey well MW-4 after installation. Well survey results will be included in the Subsurface Investigation Report along with an updated site plan and will be uploaded to the State's Geotracker Database.

6.9 Soil Vapor Probe Installation

CRA proposes to install four (4) soil vapor probes (Figure 10). The vapor probes (SV-1 through SV-4) will be advanced to a depth of 5 ft bgs using a hand auger. After the soil vapor borings are advanced, fixed vapor-sampling points will be installed in each boring using 1/4-inch diameter Teflon tubing. Each point will use a 3-inch screen interval attached to the Teflon tubing. A clean, fine-grained silica sand filter pack will be installed approximately 1.5 inches below to 1.5 inches above the screened interval. The annulus will then be sealed to the surface using hydrated bentonite pellets, set atop a six-inch base of dry bentonite pellets. Each soil probe will be completed at the surface using a traffic-rated well box set in concrete at grade.

6.9.1 Soil Vapor Sampling

Soil vapor sampling will be conducted a minimum of 72 hours following installation of the soil gas probes to allow the formation to return to equilibrium conditions. Soil vapor samples will be collected from each sampling point in Summa canisters. Helium gas will be used as a tracer gas at each sampling location to insure that the samples are not representative of ambient air. CRA will allow two days or more after a heavy rain event or onsite watering prior to collecting soil vapor samples. CRA's standard operating procedures for soil vapor probe installation and sampling are included in Attachment B.

6.10 Waste Management/Disposal

Drill cuttings will be temporarily stored onsite in DOT-approved drums, as necessary. CRA will characterize the soil and will have it transported by licensed waste haulers to the appropriate disposal facilities. CRA's standard procedures for waste handling and disposal are presented in Appendix B.



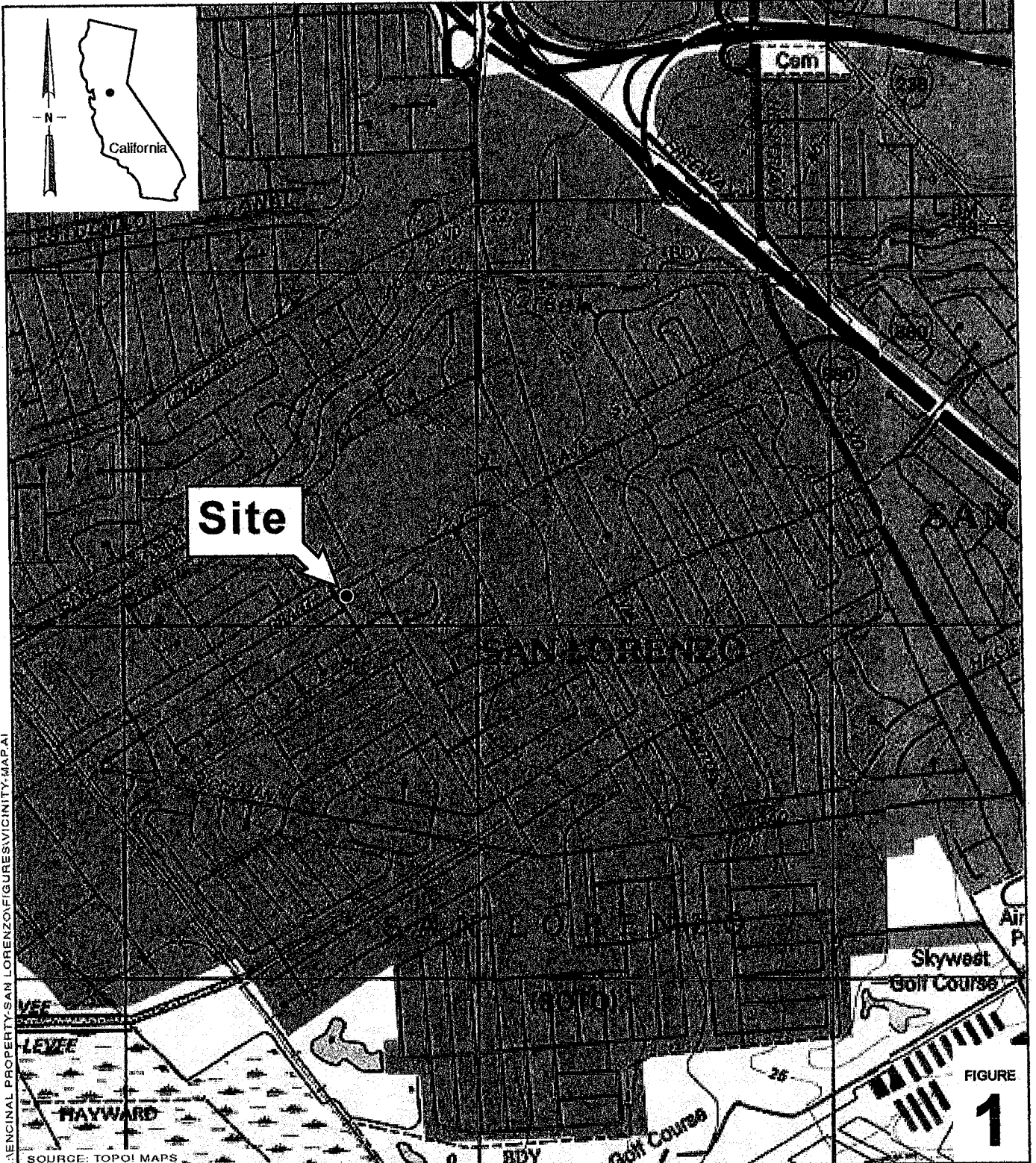
6.11 Reporting

After the analytical results are received, a Subsurface Investigation Report will be prepared that will include the following:

- A summary of the site background and history,
- Description of drilling and sampling methods,
- Lithologic and well construction logs,
- Tabulated results,
- A site map showing the boring locations,
- Geologic cross-sections;
- Analytical reports and chain-of-custody documentation,
- A discussion of hydrocarbon distribution at the site,
- Waste management/disposal methods,
- Our conclusions and recommendations.

6.12 SCHEDULE

Upon your approval of this scope of work, CRA will immediately begin the permitting process and will schedule the drilling. CRA will submit an Investigation Report within 90 days after the completion of field activities.



H:\MENCIAL PROPERTY SAN LORENZO\FIGURES\VICINITY-MAP.AI

SOURCE: TOPOI MAPS

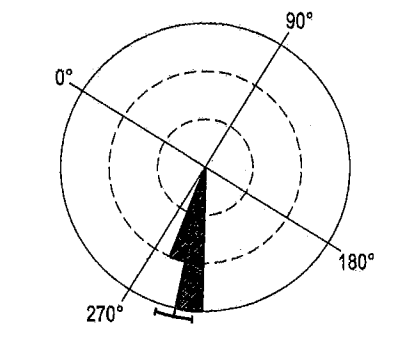
FIGURE 1

Olympic Service Station
 1436 Grant Avenue
 San Lorenzo, California

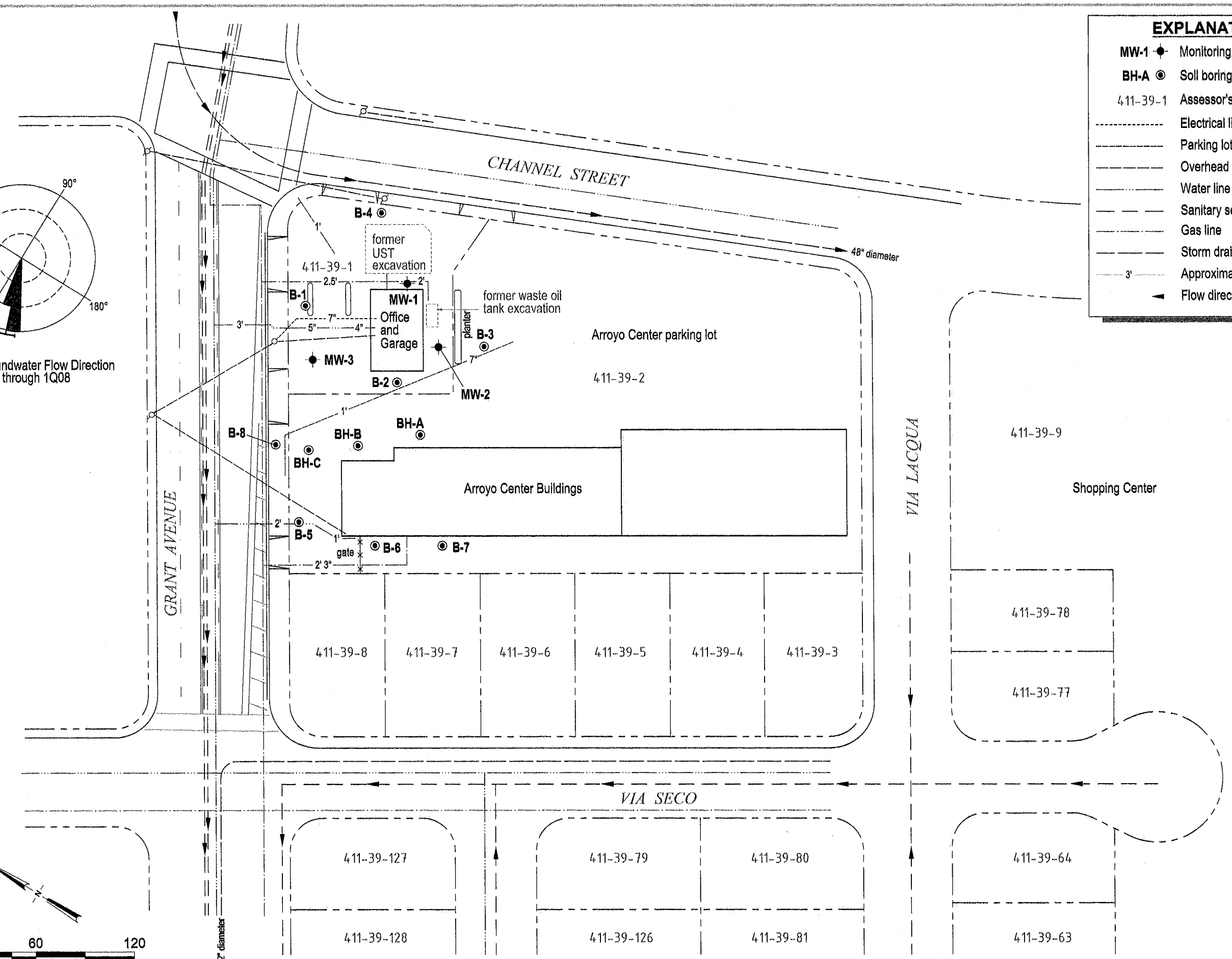
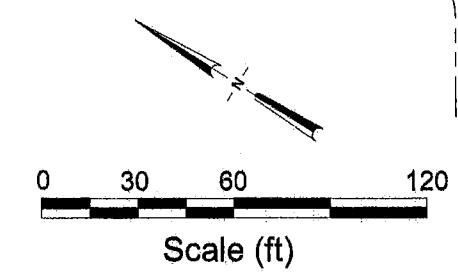


Vicinity Map

EXPLANATION	
MW-1	Monitoring well location
BH-A	Soil boring location
411-39-1	Assessor's Parcel Number
- - - - -	Electrical line
- - - - -	Parking lot electrical line
- - - - -	Overhead electrical line
- - - - -	Water line
- - - - -	Sanitary sewer line
- - - - -	Gas line
- - - - -	Storm drain line
- - - - -	Approximate depth to utility
▶	Flow direction



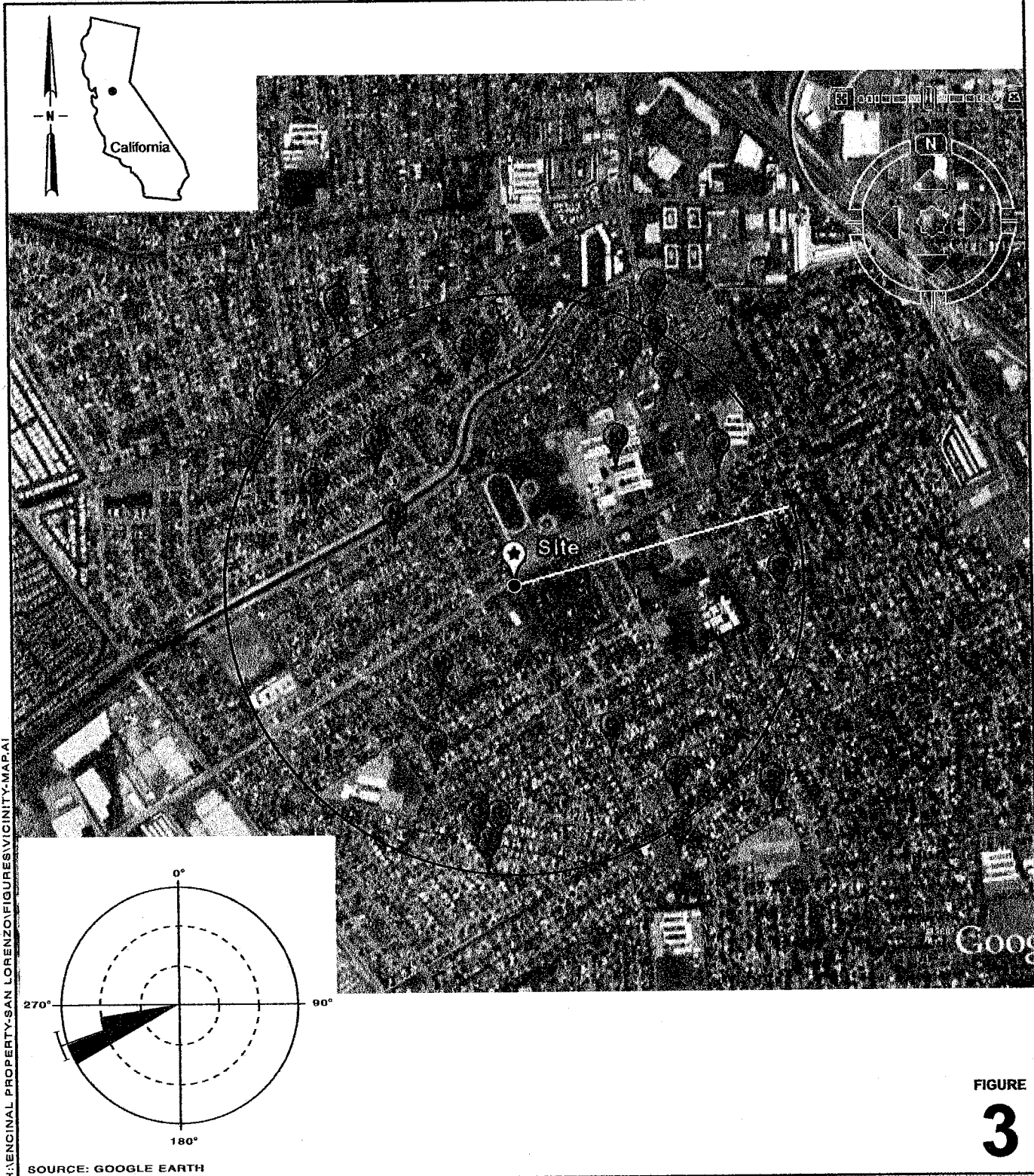
Historical Groundwater Flow Direction 1Q07 through 1Q08



CONESTOGA-ROVERS & ASSOCIATES

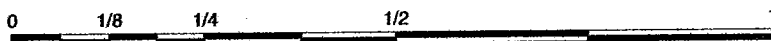
Olympic Service Station
1436 Grant Avenue
San Lorenzo, California

FIGURE 2



FIGURE

3



SCALE : 1" = 1/4 MILE

Olympic Service Station
 1436 Grant Avenue
 San Lorenzo, California



**CONESTOGA-ROVERS
 & ASSOCIATES**

Well Survey Location Map

(1/2 Mile Radius)

B-1				
Depth	TPHd	TPHg	Benz.	MTBE
3.0'	8.3	<1.0	<0.005	<0.005
7.0'	1,700	290	0.25	<0.20
10.5'	120	140	0.31	1.0
19.5'	120	85	0.42	1.7
GW	260,000	4,600	330	370

B-4				
Depth	TPHd	TPHg	Benz.	MTBE
7.0'	260	250	0.016	0.28
11.5'	12	110	0.28	1.8
15.0'	<1.0	<1.0	<0.005	0.045
24.5'	<1.0	<1.0	<0.005	<0.005
GW	6,800	7,300	150	2,700

B-3				
Depth	TPHd	TPHg	Benz.	MTBE
7.0'	<1.0	<1.0	<0.005	<0.005
15.0'	<1.0	<1.0	<0.005	0.0084
24.5'	<1.0	<1.0	<0.005	<0.005
GW	<50	<50	<0.5	4.0

EXPLANATION

- MW-1 ● Monitoring well location
- BH-A ● Soil boring location
- 411-39-1 Assessor's Parcel Number

Note: Concentrations are presented in milligrams per kilogram (mg/kg) for soil and micrograms per liter (µg/L) for groundwater.

B-8				
Depth	TPHd	TPHg	Benz.	MTBE
6.5'	4.3	5.8	0.015	<0.005
11.5'	16	270	0.72	<0.20
15.0'	1.5	4.9	<0.005	0.027
24.5'	<1.0	<1.0	<0.005	<0.005
GW	1,000	930	37	160

B-5				
Depth	TPHd	TPHg	Benz.	MTBE
7.0'	<1.0	<1.0	<0.005	<0.005
11.5'	7.2	49	<0.005	0.0056
15.0'	<1.0	<1.0	<0.005	0.019
24.5'	<1.0	<1.0	<0.005	0.022
GW	250	320	<10	630

B-6				
Depth	TPHd	TPHg	Benz.	MTBE
7.0'	<1.0	<1.0	<0.005	<0.005
11.5'	<1.0	<1.0	<0.005	<0.005
15.5'	<1.0	<1.0	<0.005	<0.005
24.5'	<1.0	<1.0	<0.005	0.020
GW	120	<50	<5.0	240

B-2				
Depth	TPHd	TPHg	Benz.	MTBE
7.0'	14	30	0.016	<0.005
11.5'	41	86	0.12	<0.005
15.0'	2.2	4.9	0.018	<0.005
24.5'	<1.0	<1.0	<0.005	0.033
GW	1,900	540	12	220

B-7				
Depth	TPHd	TPHg	Benz.	MTBE
7.0'	<1.0	<1.0	<0.005	<0.005
11.5'	<1.0	<1.0	<0.005	<0.005
15.5'	<1.0	<1.0	<0.005	<0.005
24.5'	<1.0	<1.0	<0.005	<0.005
GW	84	<50	<0.5	27

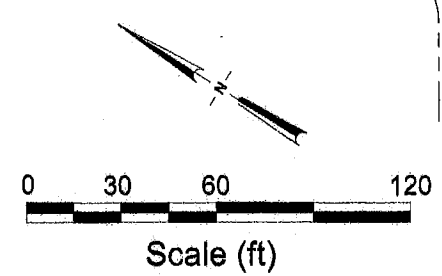
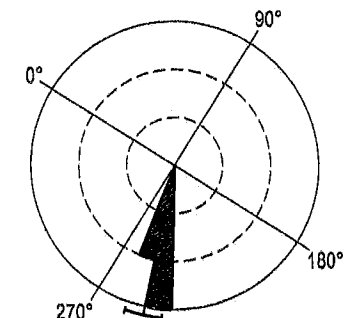


FIGURE 4

HEAVENLY PROPERTY, SAN LORENZO FIGURE 4 - FINAL - 11-11-2008.DWG

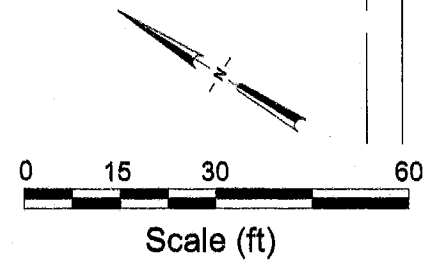
Investigation Hydrocarbon Concentrations in Soil and Groundwater
February 25-26, 2008



CONESTOGA-ROVERS & ASSOCIATES

Olympic Service Station
1436 Grant Avenue
San Lorenzo, California

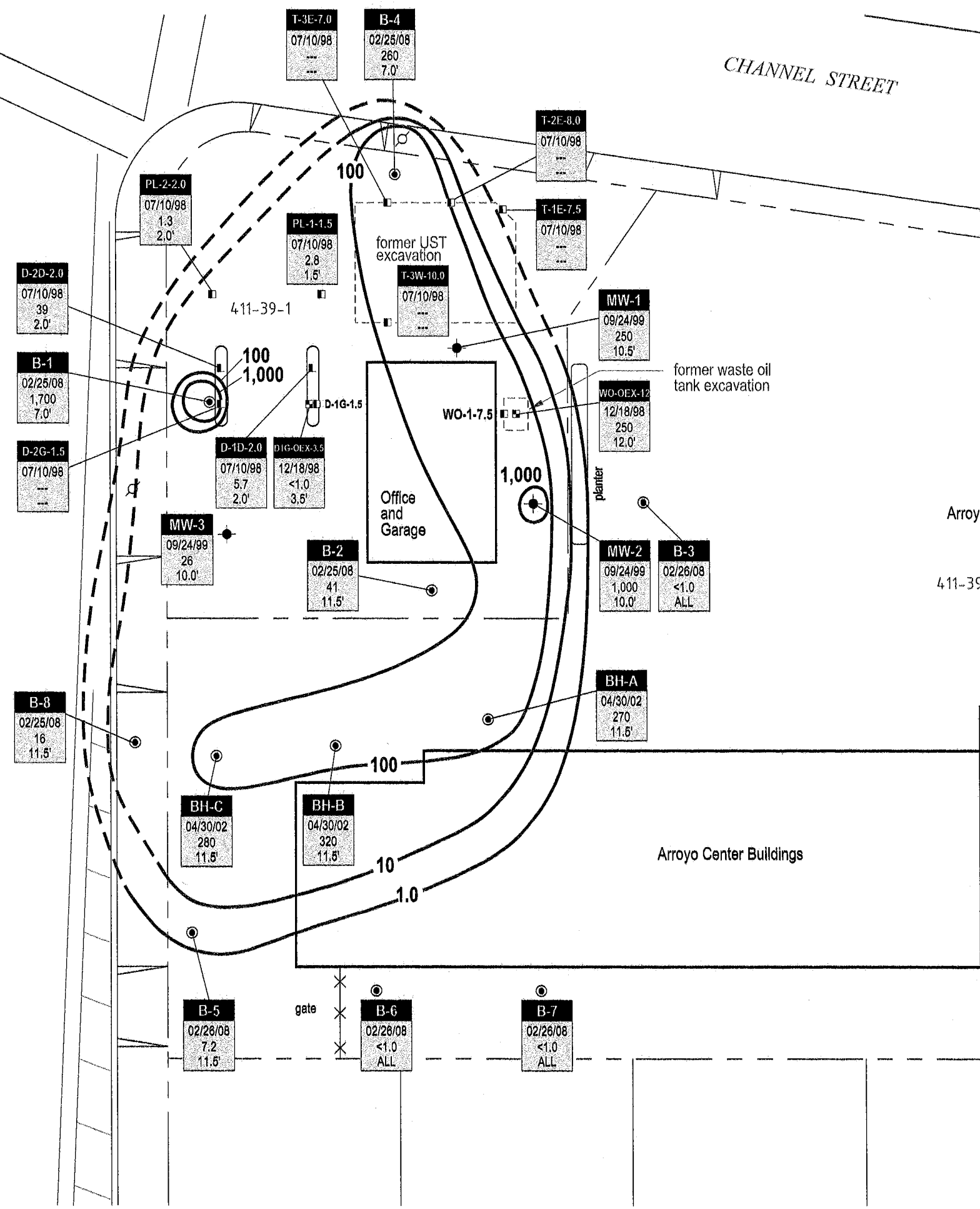
HECENAL PROPERTY-SAN LORENZO/FIGURE 5-TPHd-Contours.DWG



GRANT AVENUE

CHANNEL STREET

EXPLANATION	
MW-1	Monitoring well location
BH-A	Soil boring location
411-39-1	Assessor's Parcel Number
WO-1-7.5	Confirmation soil sample location (July 1998)
WO-OEX-12	Confirmation soil sample location (December 1998)
ID	Sample/Boring/Well designation
DATE	Date of Sample
TPHd	TPHd concentration in soil (mg/kg)
DEPTH	Depth of Sample



Arroyo Center parking lot

411-39-2

Arroyo Center Buildings

FIGURE 5



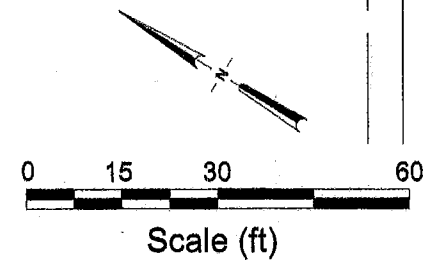
CONESTOGA-ROVERS & ASSOCIATES

TPHd Soil Isoconcentration Contour Map

Olympic Service Station

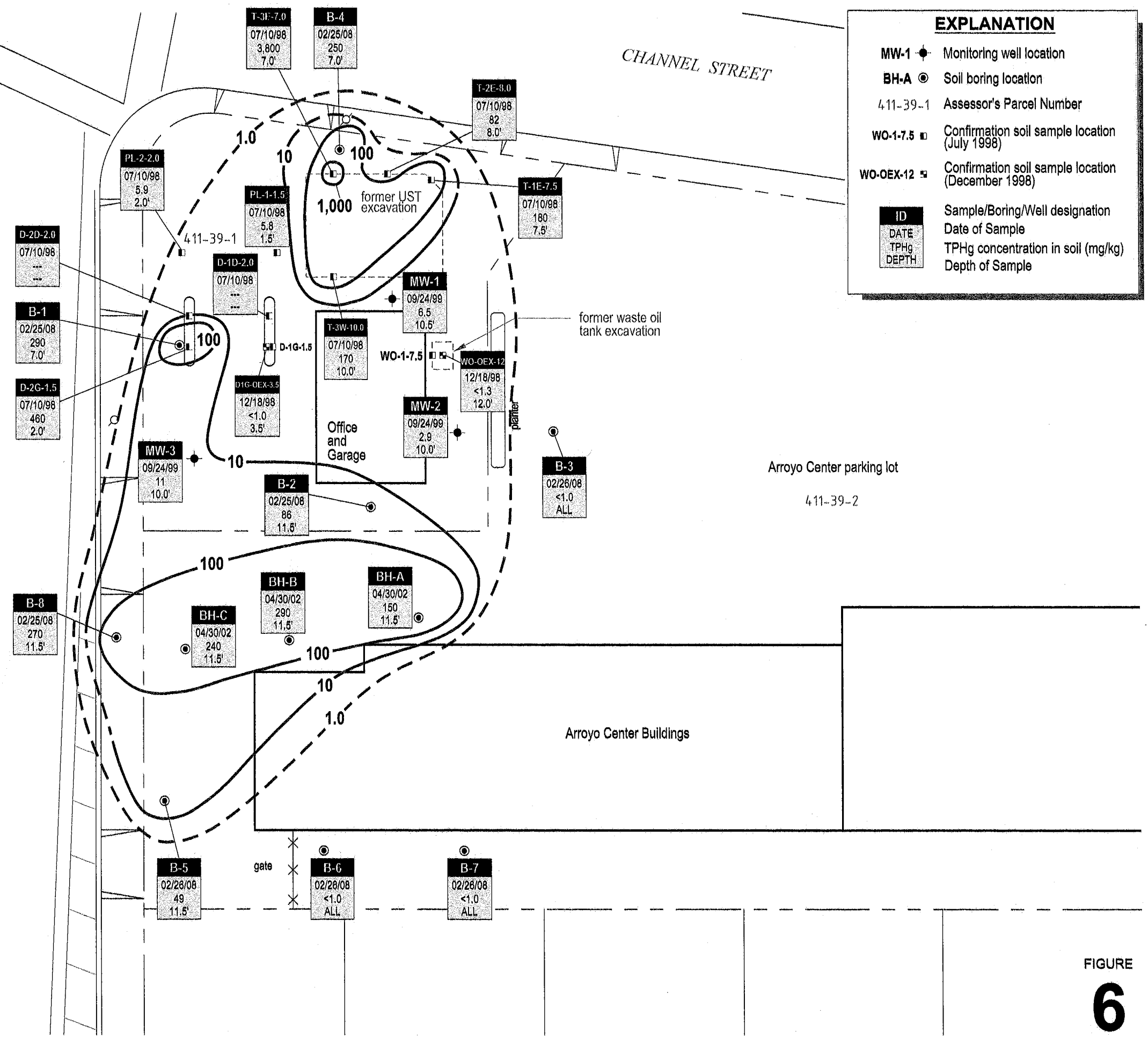
1436 Grant Avenue
San Lorenzo, California

HAZARDOUS PROPERTY-SAN LORENZO/FIGURE/ENCORIAL-TPHg-Contours.DWG



GRANT AVENUE

CHANNEL STREET



EXPLANATION	
MW-1	Monitoring well location
BH-A	Soil boring location
411-39-1	Assessor's Parcel Number
WO-1-7.5	Confirmation soil sample location (July 1998)
WO-OEX-12	Confirmation soil sample location (December 1998)
ID	Sample/Boring/Well designation
DATE	Date of Sample
TPHg	TPHg concentration in soil (mg/kg)
DEPTH	Depth of Sample

FIGURE 6



CONESTOGA-ROVERS & ASSOCIATES

TPHg Soil Isoconcentration Contour Map

Olympic Service Station
1436 Grant Avenue
San Lorenzo, California

EXPLANATION

- MW-1 ● Monitoring well location
- BH-A ○ Soil boring location
- 411-39-1 Assessor's Parcel Number
- WO-1-7.5 ■ Confirmation soil sample location (July 1998)
- WO-OEX-12 ■ Confirmation soil sample location (December 1998)
- ID Sample/Boring/Well designation
- DATE Date of Sample
- BENZ Benzene concentration in soil (mg/kg)
- DEPTH Depth of Sample

Benzene Soil Isoconcentration Contour Map



CONESTOGA-ROVERS & ASSOCIATES

Olympic Service Station
1436 Grant Avenue
San Lorenzo, California

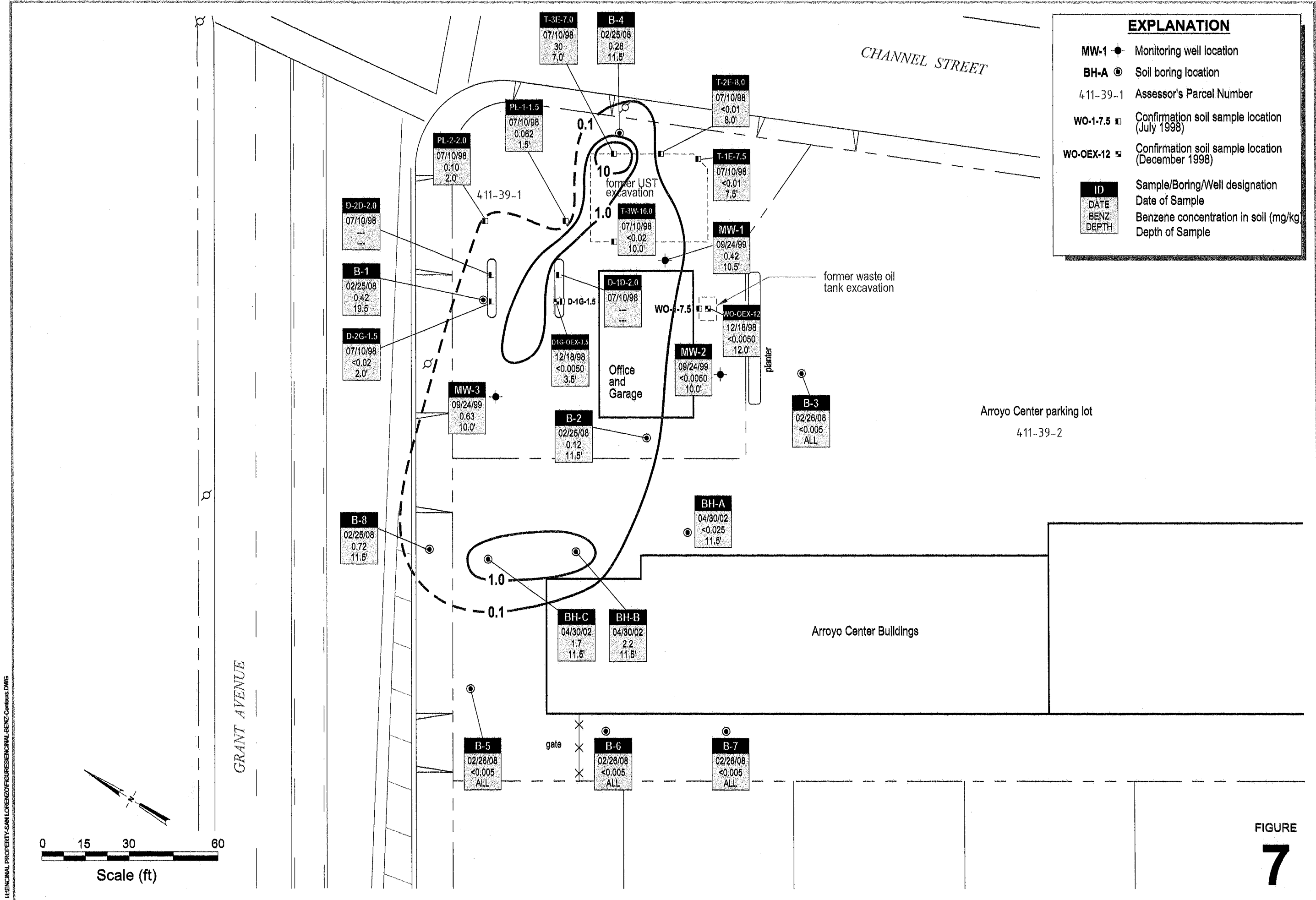
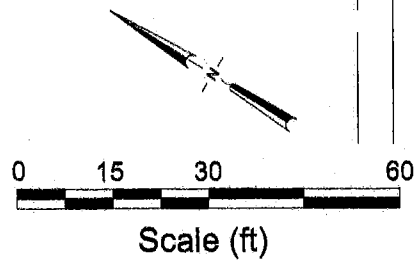


FIGURE 7

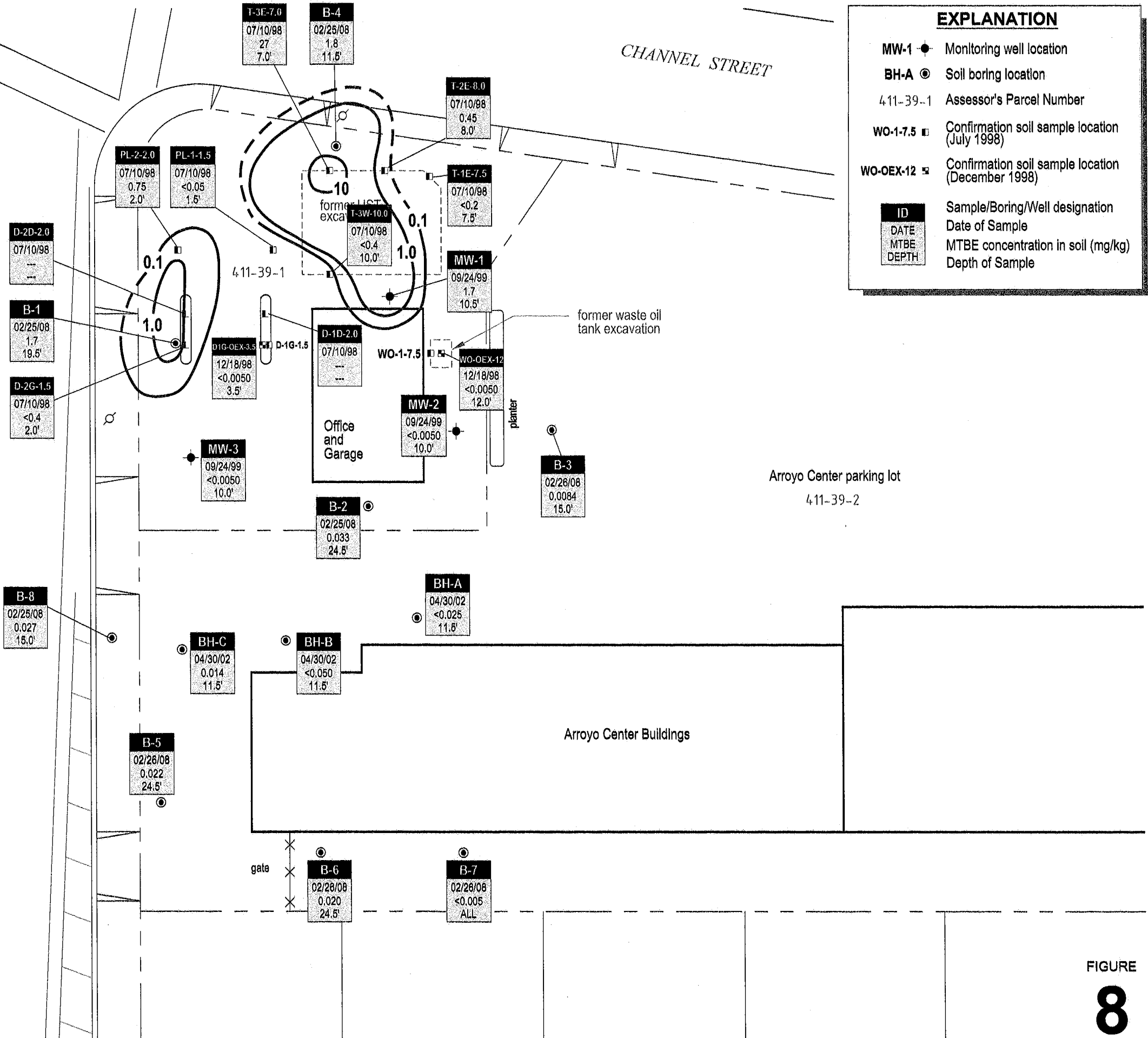
HAZARDOUS PROPERTY-SAN LORENZO/FIGURE/ENCLOSURE/BENZ/Contours.DWG

HEINCINAL PROPERTY-SANT LORENZO/FIGURE/ENCINAL-MTBE-Contours.DWG



GRANT AVENUE

CHANNEL STREET



EXPLANATION	
MW-1	Monitoring well location
BH-A	Soil boring location
411-39-1	Assessor's Parcel Number
WO-1-7.5	Confirmation soil sample location (July 1998)
WO-OEX-12	Confirmation soil sample location (December 1998)
ID	Sample/Boring/Well designation
DATE	Date of Sample
MTBE	MTBE concentration in soil (mg/kg)
DEPTH	Depth of Sample

FIGURE 8



CONESTOGA-ROVERS & ASSOCIATES

Olympic Service Station
1436 Grant Avenue
San Lorenzo, California

MTBE Soil Isoconcentration Contour Map

EXPLANATION

- MW-1 ● Monitoring well location
- BH-A ● Soil boring location
- Confirmation soil sample location (July 1998)
- Confirmation soil sample location (December 1998)
- 10.00 Groundwater elevation contour line

Well ID	Well designation
ELEV	Groundwater elevation
TPHd	Hydrocarbon concentrations in micrograms per liter (µg/L)
TPHg	
Benzene	
MTBE	

→ 0.003 Groundwater flow direction and gradient

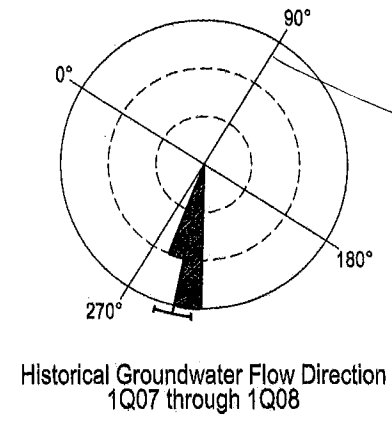
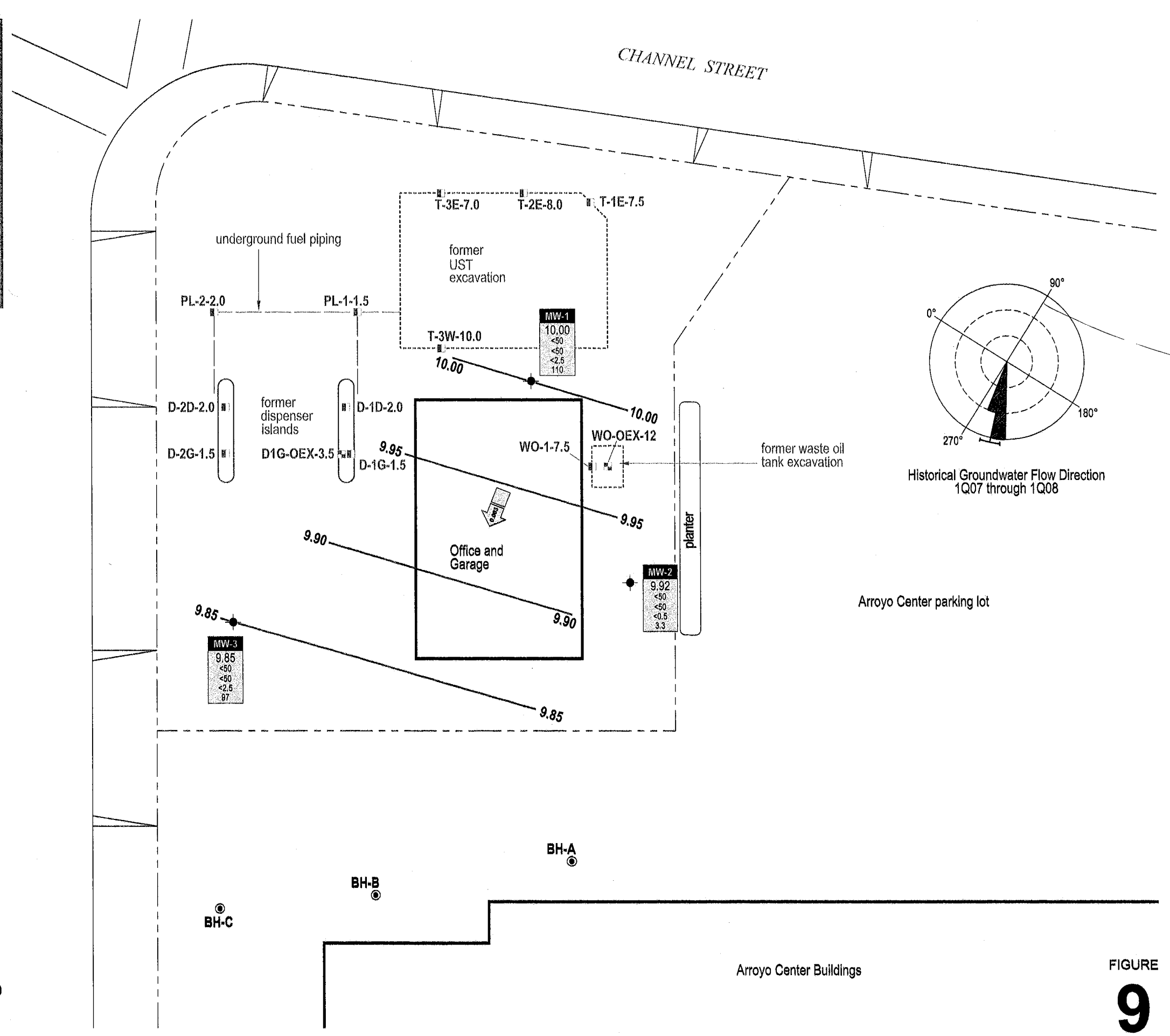
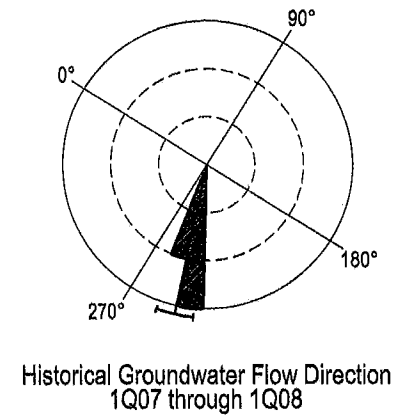


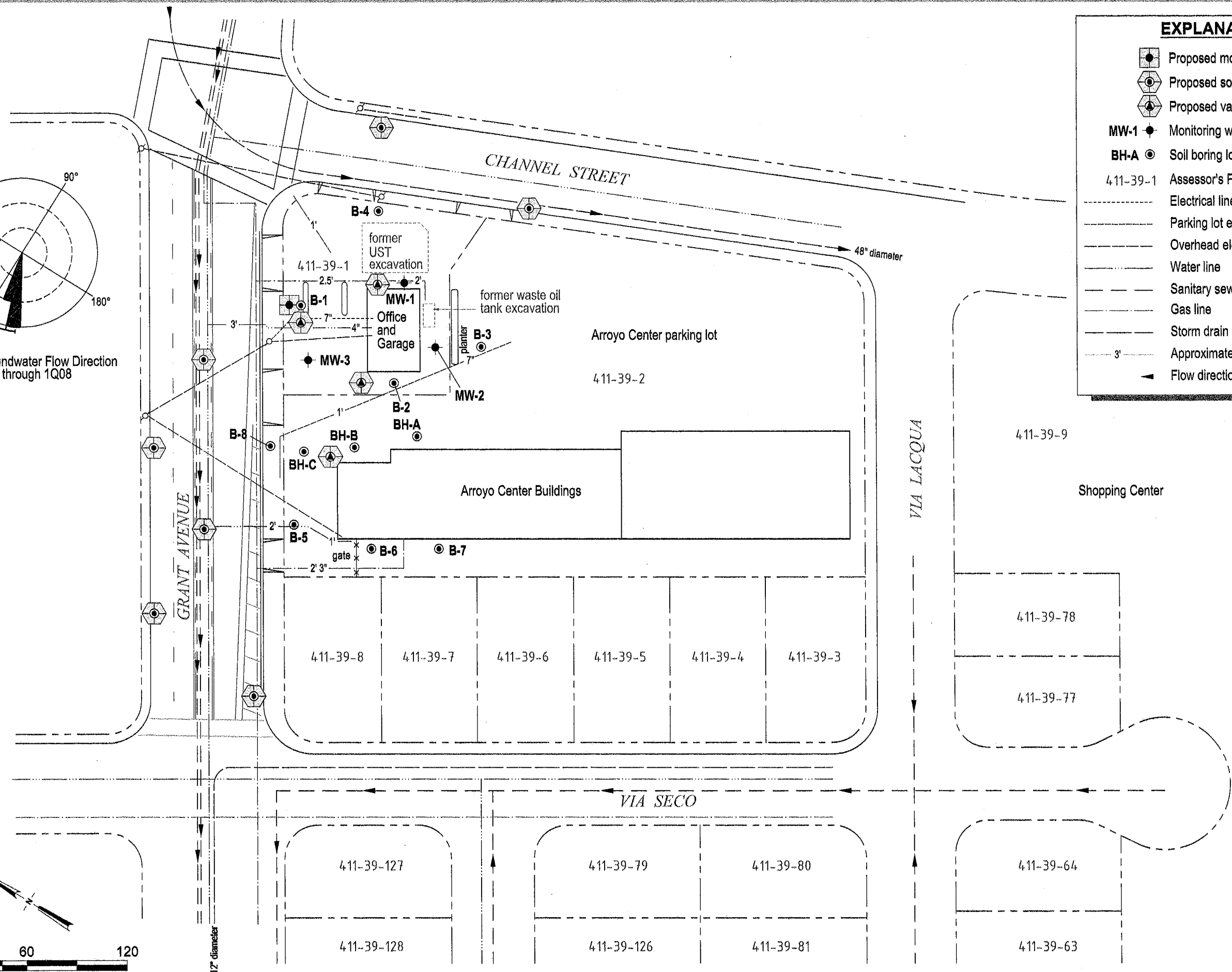
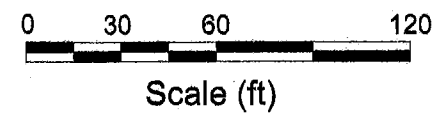
FIGURE 9

HAENCIAL PROPERTY-SAN LORENZO/FIGURE/ENCINAL-PROPOSED.DWG



EXPLANATION

- Proposed monitoring well location
- Proposed soil boring location
- Proposed vapor probe location
- MW-1** Monitoring well location
- BH-A** Soil boring location
- 411-39-1 Assessor's Parcel Number
- Electrical line
- - - - - Parking lot electrical line
- Overhead electrical line
- Water line
- Sanitary sewer line
- Gas line
- Storm drain line
- 3' --- Approximate depth to utility
- ▶ Flow direction



Proposed Locations



CONESTOGA-ROVERS & ASSOCIATES

Olympic Service Station
1436 Grant Avenue
San Lorenzo, California

FIGURE
10

Conestoga-Rovers & Associates

Table 1. Monitoring Well Construction Details - Encinal Properties, Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, California

Well ID	Date Installed	Borehole diameter (in)	Depth of borehole (ft)	Casing diameter (in)	Screened interval (ft bgs)	Slot Size (in)	Filter Pack (ft bgs)	Bentonite seal (ft bgs)	Cement (ft bgs)	TOC elevation (ft above msl)
MW-1	9/24/1999	8	26.5	2	5-26.5	0.020	3.5-26.5	3-3.5	1.5-3	15.71
MW-2	9/24/1999	8	20.0	2	5-20	0.020	3.5-20	3-3.5	1.5-3	15.17
MW-3	9/24/1999	8	21.5	2	5-21	0.020	3.5-21.5	3-3.5	1.5-3	15.13

Abbreviations / Notes

ft = feet

in = inches

ft bgs = feet below grade surface

ft above msl = feet above mean sea level

TOC = top of casing

TOC elevations were surveyed on March 8, 2007 by Virgil Chavez Land Surveying.

Prior to this date, TOC elevation were relative to a project datum determined by Aqua Science Engineers, Inc. in 1998.

Table 2. Groundwater Analytical Data - Encinal Properties, Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, California

Well ID	Date	DTW	GWE	Oil & Grease	TPHmo	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	SVOCs & HVOCs	DIPE	TAME	ETBE	TBA	Ethanol	EDB	1,2-DCA	Notes		
TOC	Sampled	(ft)	(ft above msl)	Concentrations in micrograms per liter (µg/L)																			
(ft above msl)																							
Final ESL (F-1s) - Groundwater is a current or potential drinking water resource				NE	NE	100	100	1	40	30	20	5	-	NE	NE	NE	NE	NE	NE	NE	NE	0.5	
Final ESL (E-1) Groundwater Screening Levels for Evaluation of Potential Vapor Intrusion	Residential	NE	NE	use soil gas	use soil gas	540	380,000	170,000	160,000	24,000	-	NE	NE	NE	use soil gas	NE	NE	NE	NE	NE	200		
	Commercial	NE	NE	use soil gas	use soil gas	1,800	530,000	170,000	160,000	80,000	-	NE	NE	NE	use soil gas	NE	NE	NE	NE	NE	690		

Grab Groundwater Samples

Pit Water	9/13/1998	--	--	--	--	2,100	3,600	350	130	39	380	17,000	--	--	--	--	--	--	--	--	--	
BH-A	4/30/2002	17/8	--	--	<100	<100	180	<0.50	<0.50	8.8	<0.50	82	--	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
BH-B	4/30/2002	16/8	--	--	<100	<200	2,300	120	11	60	150	2,000	--	<5.0	<5.0	<5.0	<5.0	--	--	--	--	
BH-C	4/30/2002	16/8	--	--	<100	<150	1,200	57	0.72	43	87	240	--	<0.50	1.0	<0.50	<5.0	--	--	--	--	
B-1-gw	2/25/2008	3/3.95	--	--	--	260,000	4,600	330	<5.0	33	<5.0	370	--	<5.0	<5.0	<5.0	<20	<500	<5.0	<5.0	*	
B-2-gw	2/25/2008	7.5/6.95	--	--	--	1,900	540	12	<2.5	<2.5	<2.5	220	--	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5	*	
B-3-gw	2/26/2008	8/NA	--	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	4.0	--	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	*	
B-4-gw	2/25/2008	7.5/7.80	--	--	--	6,800	7,300	150	<50	150	<50	2,700	--	<50	<50	<50	1,700	<5,000	<50	<50	*	
B-5-gw	2/26/2008	8/6.40	--	--	--	250	320	<10	<10	13	<10	630	--	<10	<10	<10	<40	<1,000	<10	<10	*	
B-6-gw	2/26/2008	8/6.95	--	--	--	120	<50	<5.0	<5.0	<5.0	<5.0	240	--	<5.0	<5.0	<5.0	<20	<500	<5.0	<5.0	*	
B-7-gw	2/26/2008	8/6.55	--	--	--	84	<50	<0.5	<0.5	<0.5	<0.5	27	--	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	*	
B-8-gw	2/25/2008	8/6.10	--	--	--	1,000	930	37	<2.5	64	23	160	--	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5	*	

Quarterly Groundwater Samples

MW-1	10/6/1999	8.35	6.65	--	--	84	3,900	<25	<25	<25	<25	3,500	--	--	--	--	--	--	--	--	--	*
15.00	1/13/2000	7.90	7.10	--	--	<50	<1,300	18	<13	<13	<13	1,700	--	--	--	--	--	--	--	--	--	*
	4/12/2000	7.08	7.92	--	--	56	<1,000	66	<10	<10	<10	1,600	--	--	--	--	--	--	--	--	--	*
	7/19/2000	7.66	7.34	--	--	52	<1,000	<10	<10	<10	<10	1,200	--	--	--	--	--	--	--	--	--	*
	10/25/2000	7.91	7.09	--	--	76	4,100	120	<25	<25	<25	6,100	--	--	--	--	--	--	--	--	--	*
15.71	2/16/2007	6.32	8.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*
	3/1/2007	5.88	9.12	--	<250	<50	<50	<1.2	<1.2	<1.2	<1.2	78	--	<1.2	<1.2	<1.2	<12	<120	<1.2	<1.2	*	
	5/1/2007	7.24	8.47	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	250	--	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0	*	
	8/1/2007	7.77	7.94	--	--	<50	<50	<25	<25	<25	<25	520	--	<25	<25	<25	<250	<2500	<25	<25	*	
	11/1/2007	7.71	8.00	--	--	<50	<50	<12	<12	<12	<12	460	--	<12	<12	<12	<120	<1,200	<12	<12	*	
	2/1/2008	5.71	10.00	--	--	<50	<50	<2.5	<2.5	<2.5	<2.5	110	--	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5	*	
14.46	MW-2	10/6/1999	7.87	6.59	<1,000	<500	<50	70	<0.5	<0.5	<0.5	11	ND	--	--	--	--	--	--	--	--	*
	1/13/2000	7.46	7.00	<1,000	<500	<50	<50	<0.5	<0.5	<0.5	<0.5	6.2	ND	--	--	--	--	--	--	--	--	*
	4/12/2000	6.67	7.79	1,100	<500	<50	<50	<0.5	<0.5	<0.5	<0.5	39	--	--	--	--	--	--	--	--	--	*
	7/19/2000	7.23	7.23	1,300	<500	<50	<1,000	<10	<10	<10	<10	990	--	--	--	--	--	--	--	--	--	*
	10/25/2000	7.52	6.94	--	<500	<50	370	<2.5	<2.5	<2.5	<2.5	690	--	--	--	--	--	--	--	--	--	*
	2/16/2007	5.89	8.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*
	3/1/2007	5.45	9.01	--	<250	<50	<50	<0.5	<0.5	<0.5	<0.5	9.8	--	<0.5	<0.5	<0.5	<5.0	<500	<5.0	<5.0	*	
	5/1/2007	6.83	8.34	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	120	--	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0	*	
15.17	8/1/2007	7.35	7.82	--	--	<50	<50	<5.0	<5.0	<5.0	<5.0	130	--	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0	*	
	11/1/2007	7.27	7.90	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	19	--	<0.5	<0.5	<0.5	<5.0	<50	<0.5	<0.5	*	
	2/1/2008	5.25	9.92	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	3.3	--	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	*	
14.41	MW-3	10/6/1999	7.90	6.51	--	--	300	3,900	900	89	160	560	790	--	--	--	--	--	--	--	--	*
	1/13/2000	7.50	6.91	--	--	210	740	110	4.8	35	18	290	--	--	--	--	--	--	--	--	--	*
	4/12/2000	6.61	7.80	--	--	640	2,200	650	9.7	180	24	140	--	--	--	--	--	--	--	--	--	*

Table 2. Groundwater Analytical Data - Encinal Properties, Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, California

Well ID	Date	DTW	GWE	Oil & Grease	TPHmo	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	SVOCs & HVOCs	DIPE	TAME	ETBE	TBA	Ethanol	EDB	1,2-DCA	Notes
		(ft)	(ft above msl)		Concentrations in micrograms per liter (µg/L)																
TOC (ft above msl)																					
MW-3	7/19/2000	7.24	7.17	--	--	270	2,700	420	<2.5	160	<2.5	99	--	--	--	--	--	--	--	--	*
(cont.)	10/25/2000	7.52	6.89	--	--	150	710	180	<2.5	24	<2.5	71	--	--	--	--	--	--	--	--	*
	2/16/2007	5.90	8.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/1/2007	5.44	8.97	--	<250	<50	82	20	<1.7	<1.7	<1.7	100	--	<1.7	<1.7	<1.7	<17	<170	<1.7	<1.7	*
15.13	5/1/2007	6.87	8.26	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	88	--	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0	*
	8/1/2007	7.40	7.73	--	--	<50	130	12	<2.5	<2.5	<2.5	98	--	<2.5	<2.5	<2.5	<25	<250	<2.5	<2.5	*
	11/1/2007	7.35	7.78	--	--	<50	77	<2.5	<2.5	<2.5	<2.5	68	--	<2.5	<2.5	<2.5	<25	<250	<2.5	<2.5	*
	2/1/2008	5.28	9.85	--	--	<50	<50	<2.5	<2.5	<2.5	<2.5	97	--	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5	

Abbreviations / Notes

TOC = Top of casing
 DTW = Depth to water
 GWE = Groundwater elevation in feet above mean sea level
 ft above msl = feet above mean sea level
 17/8 = Depth to first encountered groundwater/depth of static groundwater
 <n = Not detected above laboratory reporting limit
 -- = Not sampled, not analyzed, not available
 Oil and grease by EPA Method 5520 E&F
 TPHd = Total Petroleum Hydrocarbons as diesel range by EPA Method 8015
 TPHg = Total Petroleum Hydrocarbons as gasoline range by EPA Method 8015
 TPHmo = Total Petroleum Hydrocarbons as motor oil by EPA Method 8015
 Benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020
 MTBE = Methyl tertiary butyl ether by EPA Method 8260
 Di-isopropyl ether (DIPE), tertiary-aryl methyl ether (TAME), ethyl tertiary-butyl ether (ETBE), tertiary-butyl alcohol (TBA) by EPA Method 8260B
 SVOCs = Semi-volatile organic compounds by EPA Method 8270, refer to corresponding analytical laboratory report for a full list of compounds
 HVOCs = Halogenated volatile organic compound by EPA Method 8010, refer to corresponding analytical laboratory report for a full list of compounds
 * = See Analytical Laboratory Report for laboratory sample description and TPH chromatogram interpretation.
 TOC elevations were surveyed on March 8, 2007 by Virgil Chavez Land Surveying. Prior to this date, TOC elevation were relative to a project datum determined by Aqua Science Engineers, Inc. in 1998.

Table 3 - TPH Soil Analytical Data - Encinal Properties, Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, California

Sample ID	Sample Date	Sample Depth (ft)	Oil & Grease	TPHmo	TPHd	TPHg	Concentrations in mg/kg												Ethanol	Notes
							Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	TAME	ETBE	TBA	1,2-DCA	EDB			
Final ESL (K-1) Direct Exposure	Residential	NE	NE	110	110	#	0.12	63	230	31	29	#	NE	NE	NE	32,000	0.22	NE	NE	
Final ESL (K-2) Direct Exposure	Commercial	NE	NE	450	450	#	0.26	210	400	100	64	#	NE	NE	NE	32,000	0.48	NE	NE	
Final ESL (K-3) Direct Exposure	Construction/Trench Worker	NE	NE	4,200	4,200	#	11	650	400	420	2,600	#	NE	NE	NE	32,000	20	NE	NE	

July 1998 UST Removal

WO-1-7.5	7/10/1998	7.5	4,300	--	1,300	200	1.5	11	3.6	20	1.4	*	--	--	--	--	<0.025	--	--	a,b,g
T-1E-7.5	7/10/1998	7.5	--	--	--	180	<0.01	0.94	4.6	0.56	<0.2	*	--	--	--	--	--	--	--	a,j
T-2E-8.0	7/10/1998	8	--	--	--	82	<0.01	0.39	2.9	0.28	0.45	*	--	--	--	--	--	--	--	a,j
T-3E-7.0	7/10/1998	7	--	--	--	3,800	30	180	93	430	27	*	--	--	--	--	--	--	--	a,j
T-3W-10.0	7/10/1998	10	--	--	--	170	<0.02	0.71	5.3	6.6	<0.4	*	--	--	--	--	--	--	--	a,j
D-1G-1.5	7/10/1998	1.5	--	--	--	5,700	<0.25	14	54	280	<5	*	--	--	--	--	--	--	--	b
D-2G-1.5	7/10/1998	2	--	--	--	460	<0.02	0.26	0.61	5.0	<0.4	*	--	--	--	--	--	--	--	b,j
D-1D-2.0	7/10/1998	2	--	--	--	5.7	--	--	--	--	--	--	--	--	--	--	--	--	--	b
D-2D-2.0	7/10/1998	2	--	--	--	39	--	--	--	--	--	--	--	--	--	--	--	--	--	b
PL-1-1.5	7/10/1998	1.5	--	--	--	2.8	5.8	0.062	0.062	0.33	0.14	<0.05	*	--	--	--	--	--	--	a,b
PL-2-2.0	7/10/1998	2	--	--	--	1.3	5.9	0.10	0.56	0.19	0.42	0.75	*	--	--	--	--	--	--	a,b

December 1998 Waste Oil Tank Overexcavation

WO-OEX-12	12/18/1998	12	570	940	250	<1.3	<0.0050	0.024	0.057	0.24	<0.0050	*	--	--	--	--	<0.0050	--	--	
D1G-OEX-3.5	12/18/1998	3.5	--	<50	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	*	--	--	--	--	--	--	--	

1999 Assessment

MW-1	9/24/1999	10.5	--	--	250	6.5	0.42	0.18	0.065	0.027	1.7	*	--	--	--	--	--	--	--	
MW-2	9/24/1999	10	700	2,400	1,000	2.9	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	*	--	--	--	--	--	--	--	
MW-3	9/24/1999	10	--	--	26	11	0.63	0.18	0.31	1.1	<0.0050	*	--	--	--	--	--	--	--	

2002 Assessment

BH-A	4/30/2002	11.5	--	180	270	150	* <0.025	0.027	1.9	0.28	<0.025	<0.025	<0.025	<0.025	<0.25	--	--	--	--	
BH-B	4/30/2002	11.5	--	<10	320	290	* 2.2	0.49	5.0	12	<0.050	<0.050	<0.050	<0.050	<0.25	--	--	--	--	
BH-C	4/30/2002	11.5	--	12	280	240	* 1.7	0.016	4.3	5.1	0.014	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	

2008 Assessment

B-1@3'	2/25/2008	3	--	--	8.3	<1.0	* <0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25	
B-1@7'	2/25/2008	7	--	--	1,700	290	* 0.25	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<2.0	<0.16	<0.16	<10	
B-1@10.5'	2/25/2008	10.5	--	--	120	140	* 0.31	0.089	0.11	<0.050	1.0	<0.050	<0.050	<0.050	<0.50	<0.040	<0.040	<2.5	
B-1@19.5'	2/25/2008	19.5	--	--	120	85	* 0.42	<0.050	0.91	<0.050	1.7	<0.050	<0.050	<0.050	<0.50	<0.040	<0.040	<2.5	
B-2@7'	2/25/2008	7	--	--	14	30	* 0.016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25		
B-2@11.5'	2/25/2008	11.5	--	--	41	86	* 0.12	<0.005	0.020	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25		
B-2@15'	2/25/2008	15	--	--	2.2	4.9	* 0.018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25		
B-2@24.5'	2/25/2008	24.5	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.033	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25		
B-3@7'	2/26/2008	7	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25		
B-3@15'	2/26/2008	15	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25		
B-3@24.5'	2/26/2008	24.5	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25		
B-4@7'	2/25/2008	7	--	--	260	250	* 0.016	<0.010	0.037	<0.010	0.28	<0.010	<0.010	0.34	<0.0080	<0.0080	<0.50		
B-4@11.5'	2/25/2008	11.5	--	--	12	110	* 0.28	<0.050	1.1	<0.050	1.8	<0.050	<0.050	<0.50	<0.040	<0.040	<2.5		
B-4@15'	2/25/2008	15	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.045	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25		
B-4@24.5'	2/25/2008	24.5	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25		

Table 3 - TPH Soil Analytical Data - Encinal Properties, Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, California

Sample ID	Sample Date	Sample Depth (ft)	Oil & Grease	TPHmo	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	TAME	ETBE	TBA	1,2-DCA	EDB	Ethanol	Notes
B-5@7'	2/26/2008	7	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25	
B-5@11.5'	2/26/2008	11.5	--	--	7.2	49	* <0.005	<0.005	0.15	<0.005	0.0056	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25	
B-5@15'	2/26/2008	15	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.019	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25	
B-5@24.5'	2/26/2008	24.5	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.022	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25	
B-6@7'	2/26/2008	7	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25	
B-6@11.5'	2/26/2008	11.5	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25	
B-6@15.5'	2/26/2008	15.5	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25	
B-6@24.5'	2/26/2008	24.5	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.020	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25	
B-7@7'	2/26/2008	7	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25	
B-7@11.5'	2/26/2008	11.5	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25	
B-7@15.5'	2/26/2008	15.5	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25	
B-7@24.5'	2/26/2008	24.5	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25	
B-8@6.5'	2/25/2008	6.5	--	--	4.3	5.8	* 0.015	<0.005	0.0075	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25	
B-8@11.5'	2/25/2008	11.5	--	--	16	270	* 0.72	<0.20	2.5	0.99	<0.20	<0.20	<0.20	<0.20	<2.0	<0.16	<0.16	<10	
B-8@15'	2/25/2008	15	--	--	1.5	4.9	* <0.005	<0.005	0.014	<0.005	0.027	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25	
B-8@24.5'	2/25/2008	24.5	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.004	<0.004	<0.25	

Abbreviations and Notes:

- mg/kg = milligrams per kilograms
- Oil and grease by EPA Method 5520 E&F
- TPHd = Total Petroleum Hydrocarbons as diesel range by EPA Method 8015M
- TPHg = Total Petroleum Hydrocarbons as gasoline range by EPA Method 8015M
- Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020
- MTBE = Methyl tertiary butyl ether by EPA Method 8020 or 8260
- * = MTBE by EPA Method 8020; TPHg by EPA Method 8260
- Di-isopropyl ether (DIPE), tertiary-amyl methyl ether (TAME), ethyl tertiary-butyl ether (ETBE), tertiary-butyl alcohol (TBA) by EPA Method 8260B
- 1,2-dichloroethane (1,2-DCA) by EPA Method 8240A, 8010 list
- <n = Not detected above laboratory reporting limit
- = Not analyzed or not sampled.
- a = Unmodified or weakly modified gasoline is significant
- b = Gasoline range compounds are significant; diesel range compounds are significant; oil range compounds significant
- g = Strongly aged gasoline or diesel range compounds are significant
- j = No recognizable pattern

Conestoga-Rovers & Associates

Table 4. DWR/ACPWA Well Survey Summary - Encinal Properties- Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Map ID	State Well No.	Well Owner	Approximate Well Location	Installation Date	Well Type	Current Well Use	Total Well Depth (ft bgs)	Screened Interval (ft bgs)	Seal Interval (ft bgs)	Approximate Distance from Former USTs (ft)	Approximate Distance from Former USTs (mi)
A	3S/2W-7M3	Paul R. Frink	754 Grant Avenue, San Lorenzo	6/1/1977	Domestic	NA	31	10.5-30	0-10.5	3,188	0.60
B-1	3S/3W-12J5	Texaco	15595 Washington Avenue, San Lorenzo	8/1/1986	Monitoring	NA	15	NA	NA	2,429	0.46
B-2	3S/3W-12J6	Texaco	15595 Washington Avenue, San Lorenzo	8/1/1986	Monitoring	NA	15	NA	NA	2,429	0.46
B-3	3S/3W-12J7	Texaco	15595 Washington Avenue, San Lorenzo	8/1/1986	Monitoring	NA	16	NA	NA	2,429	0.46
C	3S-3W-12J4	Mrs. Frank Perry	15600 Lorenzo Avenue, San Lorenzo	8/2/1978	Irrigation	NA	80	56-76	0-20	2,165	0.41
D	3S-3W-12L3	Robert Perino	15596 Tilden Street, San Leandro	3/17/1977	Irrigation	NA	30	13-30	0-13	1,901	0.36
E	3S-3W-12L4	Aubrey Elliot	1018 Kramer Street, San Leandro	4/11/1977	Irrigation	NA	30	15-30	0-10	1,901	0.36
F	3S-3W-12M5	Ronald Stanley	15368 Churchill Road, San Leandro	5/3/1977	Irrigation	NA	30	10-30	0-10	2,798	0.53
G	3S-3W-12N3	William M. McTigue	1520 Sayre Street, San Leandro	3/18/1977	Irrigation	NA	21	9.8-19.8	0-8	1,954	0.37
H	3S/3W-12N4	Loretta and George F. Bolla	1335 Sayre Street, San Leandro	6/22/1977	Irrigation	NA	30	13-27	0-13	1,637	0.31
I	3S/3W-12N5	Alvin M. Brown	15501 Jutland Street, San Leandro	5/18/1977	Irrigation	NA	31	9-31	0-8.5	2,587	0.49
J	3/3W-12Q	Modern Vegetable Produce Co.	15550 Washington Avenue, San Lorenzo	9/12/1964	Irrigation	NA	460	136-181 206-262 283-303 343-382 402-460	NA	2,640	0.50
K-1	3S/3W-12R	San Lorenzo Unified School District	15701 Lorenzo Avenue, San Lorenzo	10/2/1957	Monitoring (MW 1)	NA	300	NA	NA	1,373	0.26

Conestoga-Rovers & Associates

Table 4. DWR/ACPWA Well Survey Summary - Encinal Properties- Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Map ID	State Well No.	Well Owner	Approximate Well Location	Installation Date	Well Type	Current Well Use	Total Well Depth (ft bgs)	Screened Interval (ft bgs)	Seal Interval (ft bgs)	Approximate Distance from Former USTs (ft)	Approximate Distance from Former USTs (mi)
K-2	2S/3W-28Q	San Lorenzo Unified School District	15701 Lorenzo Avenue, San Lorenzo	NA	Monitoring	NA	25	15-25	0-13	1,373	0.26
K-3	2S/3W-28Q6	San Lorenzo Unified School District	15701 Lorenzo Avenue, San Lorenzo	8/10/1992	Monitoring (MW-4)	NA	25	9-24	0-7	1,373	0.26
L-1	3S/3W-12R5	Chevron USA	997 Grant Avenue, San Lorenzo	11/12/1990	Monitoring (C-1)	NA	33.5	15-28	0-11	2,112	0.40
L-2	2S/3W-28Q6	Chevron USA	997 Grant Avenue, San Lorenzo	11/12/1990	Monitoring (C-2)	NA	29.5	15-28	0-11	2,112	0.40
L-3	2S/3W-28Q	Chevron USA	997 Grant Avenue, San Lorenzo	11/13/1990	Monitoring (C-4)	NA	30.5	15-29	0-11	2,112	0.40
L-4	2S/3W-28Q3	Chevron USA	997 Grant Avenue, San Lorenzo	2/2/1993	Monitoring (C-5)	NA	20.5	5-20.5	0-4	2,112	0.40
M	3S/3W-13C1	Thomas R. Bratton	15868 Corte Ulisse, San Lorenzo	5/30/1977	Irrigation	NA	21	10-21	0-10	1,162	0.22
N	3S/3W-13D1	Lawrence B. Moyers	1508 Via Hermana, San Lorenzo	4/17/1977	Irrigation	NA	30	11-30	0-10.5	1,109	0.21
O	3S/3W-13F1	Earl Zieran	1836 Bockman Road, San Lorenzo	7/21/1977	Irrigation	NA	28	10-28	0-10	2,270	0.43
P	3S/3W-13F2	David R. and Delia A. Norris, Jr.	16030 Via Nueva, San Lorenzo	7/15/1977	Irrigation	NA	20	10-20	0-10	1,848	0.35
Q	3S/3W-13G1	E.A. Lichty	16148 Channel Street, San Lorenzo	8/14/1956	Irrigation	NA	30	15-30	NA	1,742	0.33
R	3S/3W-13G2	Herman Eppenberger	1794 Via Redondo, San Lorenzo	7/9/1977	Irrigation	NA	29	10-29	0-10	2,323	0.44
S	3S/3W-13H2	Shirley S. Jones	17038 Via Del Rey, San Lorenzo	5/16/1988	Domestic	NA	32	21-32	0-21	3,115	0.59

Conestoga-Rovers & Associates

Table 4. DWR/ACPWA Well Survey Summary - Encinal Properties- Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Map ID	State Well No.	Well Owner	Approximate Well Location	Installation Date	Well Type	Current Well Use	Total Well Depth (ft bgs)	Screened Interval (ft bgs)	Seal Interval (ft bgs)	Approximate Distance from Former USTs (ft)	Approximate Distance from Former USTs (mi)
T	3S/3W-13H1	Robert Harris	1432 Via Lucas, San Lorenzo	8/12/1977	Irrigation	NA	40.5	11-39.5	0-10	2,376	0.45
U	3S/3W-13J4	Robert G. Zoller, Jr.	17050 Channel Street, San Lorenzo	6/24/1977	Irrigation	NA	28	17-27	0-8	2,851	0.54
V	3S/3W-13K3	Robert C. Harreschou	1782 Via Redondo, San Lorenzo	6/19/1977	Irrigation	NA	23.5	10-20	0-10	2,482	0.47
W	3S/3W-13A5	San Lorenzo Community Church	945 Paseo Grande, San Lorenzo	7/19/1990	Irrigation	NA	100	50-90	0-25	2,429	0.46
X	3S/3W-12K4	Ragle	15547 Sedgeman Street, San Lorenzo	1977	Irrigation	NA	30	NA	NA	2,429	0.46
Y	3S/3W-12N1	Aparodi	1508 Lewelling Boulevard, San Leandro	NA	Domestic	NA	NA	NA	NA	2,693	0.51
Z	3S/3W-12R2	Corso	15651 Washington Street, San Lorenzo	NA	NA	NA	NA	NA	NA	2,218	0.42
I	3S/3W-13A1	Mark Peterson	16124 Via Lupine, San Lorenzo	7/1/1977	Irrigation	NA	30	NA	NA	2,323	0.44

Notes and Abbreviations:

Well information provided by the State of California Department of Water Resources (DWR) and Alameda County Public Works Agency (ACPWA)

Map ID = Well identification letter refers to well location on Figure 4.

State Well Number = California State well identification number as recorded by the Department of Water Resources in Sacramento, California.

Approximate Well Location = Well locations plotted according to the information provided on the DWR *Well Completion Reports* and additional research.

Well Type = stated well use from *Well Completion Report* provided by DWR and ACPWA

NA = Not available

ft bgs = feet below ground surface

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



January 22, 2008

ORIGINAL

Mr. George Jaber
George H. Jaber Trust
2801 Encinal Avenue
Alameda, CA 94501-4726

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Subject: Fuel Leak Case No. RO00000373 Olympic Station (Global ID #T0600102256), 1436 Grant Avenue, San Lorenzo, CA

Dear Mr. Jaber:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site and the document entitled, "Work Plan Addendum," dated September 30, 2007 prepared by Conestoga Rover and Associates (CRA). The scope of work in the Work Plan Addendum recommends the installation soil borings advanced to 20 feet bgs., completion of a preferential pathway survey, followed by a soil vapor investigation to evaluate the potential risk associated with the vapor intrusion pathway. ACEH generally agrees with the scope of work as recommended in the work plan, provided the technical comments discussed below are addressed prior to the implementation of the work plan.

We request that you perform the proposed work, and send us the reports described below. Please provide 72-hour advance written notification to this office (e-mail preferred to steven.plunkett@acgov.org) prior to the start of field activities.

TECHNICAL COMMENTS

1. **Site Characterization.** CRA has proposes a phased approach to evaluate subsurface conditions beneath and downgradient of your site. The first phase of the investigation is to assess the vertical and horizontal extent of petroleum hydrocarbon contamination in soil and groundwater. CRA recommends the installation of five onsite and three offsite soil borings. The proposed soil borings will augment the existing soil and groundwater analytical data, and thus provide a more detailed assessment of subsurface contamination. ACEH request that one additional boring must be installed approximately 20 to 30 east of the soil boring placed in front of parcel 411-39-8 (See Figure 3).

CRA recommends the installation of soil borings to a depth of 20 feet bgs. Considering soil samples were not collected below 11.5 feet bgs and strong hydrocarbon odor was detected in soil borings BH-B and BH-C at a depth of between 15 feet to 20 feet bgs; consequently, ACEH requests that soil sampling must be completed to 25 to 30 feet bgs. Thus, verifying the absence of TPH and TPH constituents in soil in the source area and downgradient of your site. ACEH agrees with the proposed soil sampling analysis as recommended by CRA. Please present the results from the soil and groundwater investigation (SWI) in the report requested below.

2. **Soil Vapor Investigation.** In a correspondence dated September 2007, ACEH previously requested that soil vapor sampling must be completed in order to evaluate the potential risk

associated with the vapor intrusion pathway. CRA has concurred with ACEH's request to evaluate the vapor intrusion pathway, concluding that a soil vapor investigation must be implemented once the first phase of the investigation has been completed. The assertion is that once the soil and groundwater investigation has been completed, CRA will be more capable of identifying areas impacted by petroleum hydrocarbon contamination, and thus recommend the best locations to site soil vapor sampling points. The phased approach to site investigation is acceptable. However, once the first phase of site characterization has been completed, ACEH requires that you prepare a work plan detailing your proposal to perform a soil vapor investigation. Please present the soil vapor work plan in the report requested below.

3. **Preferential Pathway Survey.** In conjunction with site characterization activities, ACEH requested a preferential pathway survey to evaluate if utility corridors or other conduits may be acting as a preferential pathway for contamination migration. ACEH agrees with the plan proposed by CRA to complete the preferential pathway survey. Please present the results from the preferential pathway survey in the SWI report requested below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mr. Steven Plunkett), according to the following schedule:

- **March 1, 2008** – Soil and Groundwater Investigation and Preferential Pathway Survey
- **March 15, 2008** – Work Plan for Soil Vapor Investigation

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet.

Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

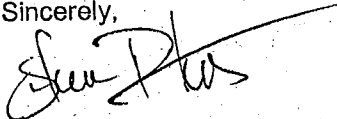
Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

Should you have any questions, do not hesitate to call me at (510) 383-1767.

Sincerely,

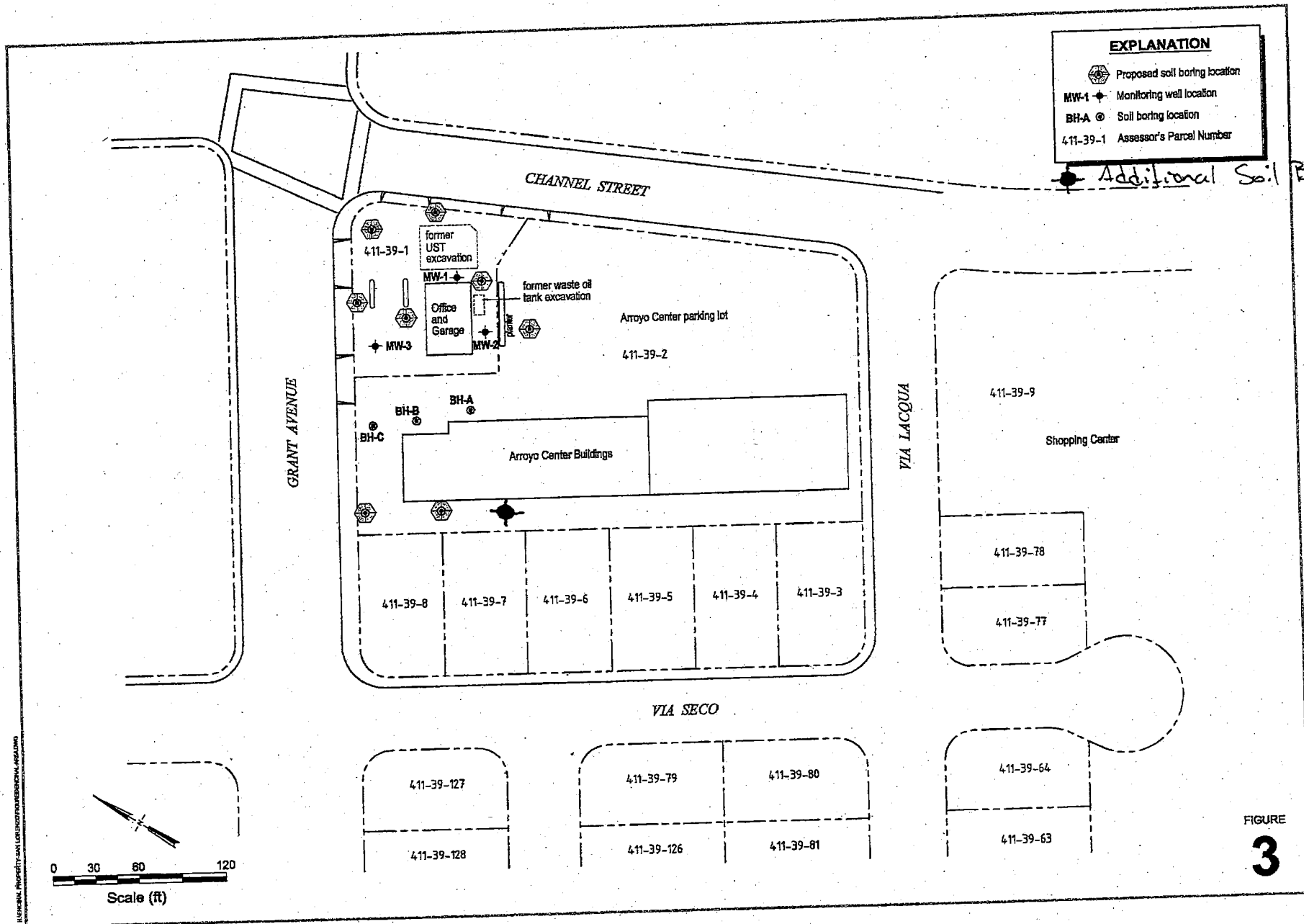


Steven Plunkett
Hazardous Materials Specialist

Mr. George Jaber
January 17, 2007
Page 4

cc: Brandon Wilken
Conestoga Rover Associates
5900 Hollis Street
Emeryville, Ca 94608

Donna Drogos, ACEH, Steven Plunkett, ACEH, File



Area Map



CAMBRIA

FIGURE

3

Olympic Service Station
 1436 Grant Avenue
 San Lorenzo, California

McClelland, Christina

From: Plunkett, Steven, Env. Health [steven.plunkett@acgov.org]
Sent: Monday, February 25, 2008 5:36 PM
To: Wilken, Brandon
Cc: McClelland, Christina
Subject: RO373 Jabber property

Brandon,

I just faxed the completed well survey form to your office. I noticed that I originally faxed it to your office on 2-7-2008.

With reference to the request for a time extension for submission of reports to ACEH. The new date for submission of Preferential Pathway Study and SWI is now April 30, 2008

Cheers,
Steven Plunkett
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
510-383-1767
510-337-9355 Fax
steven.plunkett@acgov.org

—○
— \< / —
(*) / (*)

*"The bicycle is a curious invention,
the passenger is its engine."*

Conestoga-Rovers & Associates

STANDARD FIELD PROCEDURES FOR GEOPROBE® SAMPLING

This document describes CRA's standard field methods for GeoProbe® soil and ground water sampling. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor odor or staining, estimate ground water depth and quality and to submit samples for chemical analysis.

Soil Classification/Logging

All soil samples are classified according to the Unified Soil Classification System by a trained geologist or engineer working under the supervision of a California Registered Geologist (RG) or a Certified Engineering Geologist (CEG). The following soil properties are noted for each soil sample:

- Principal and secondary grain size category (i.e., sand, silt, clay or gravel)
- Approximate percentage of each grain size category,
- Color,
- Approximate water or separate-phase hydrocarbon saturation percentage,
- Observed odor and/or discoloration,
- Other significant observations (i.e., cementation, presence of marker horizons, mineralogy), and
- Estimated permeability.

Soil Sampling

GeoProbe® soil samples are collected from borings driven using hydraulic push technologies. A minimum of one and one half ft of the soil column is collected for every five ft of drilled depth. Additional soil samples can be collected near the water table and at lithologic changes. Samples are collected using samplers lined with polyethylene or brass tubes driven into undisturbed sediments at the bottom of the borehole. The ground surface immediately adjacent to the boring is used as a datum to measure sample depth. The horizontal location of each boring is measured in the field relative to a permanent on-site reference using a measuring wheel or tape measure.

Drilling and sampling equipment is steam-cleaned or washed prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Storage, Handling and Transport

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon® tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Conestoga-Rovers & Associates

Field Screening

After a soil sample has been collected, soil from the remaining tubing is placed inside a sealed plastic bag and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable GasTech[®] or photoionization detector measures volatile hydrocarbon vapor concentrations in the bag's headspace, extracting the vapor through a slit in the plastic bag. The measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

Grab Ground Water Sampling

Ground water samples are collected from the open borehole using bailers, advancing disposable Tygon[®] tubing into the borehole and extracting ground water using a diaphragm pump, or using a hydro-punch style sampler with a bailer or tubing. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4° C, and transported under chain-of-custody to the laboratory.

Duplicates and Blanks

Blind duplicate water samples are usually collected only for monitoring well sampling programs, at a rate of one blind sample for every 10 wells sampled. Laboratory-supplied trip blanks accompany samples collected for all sampling programs to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory quality assurance/quality control (QA/QC) blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

STANDARD FIELD PROCEDURES FOR SOIL AND SOIL VAPOR SAMPLING

This document describes Conestoga-Rovers & Associates' standard field methods for soil and soil vapor sampling. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

Soil and soil vapor samples are collected and analyzed to characterize subsurface contaminant distribution and to assess whether vapor-phase subsurface contaminants pose a threat to human health or the environment.

Soil Sampling

Soil samples are collected using lined samplers driven into undisturbed sediments beyond the bottom of the borehole. The vertical location of each soil sample is determined by measuring the distance from the middle of the soil sample tube to the end of the drive rod used to advance the sampler. The ground surface immediately adjacent to the boring is used as a datum to measure sample depth. The horizontal location of each boring is measured in the field relative to a permanent on-site reference using a measuring wheel or tape measure.

Sampling equipment is washed prior to and between samples to prevent cross-contamination. Trisodium phosphate or an equivalent EPA-approved detergent is used to wash equipment.

Sample Storage, Handling and Transport

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Soil Vapor Sampling

Hand push soil vapor sampling method assures sample collection to shallow depths in most hydrogeologic environments. A hollow vapor probe is pushed into the ground, rather than augured, and the stratigraphy forms a vapor seal between the surface and subsurface environments ensuring that the surface and subsurface gases do not mix. Once the desired soil vapor sampling depth has been reached, the field technician installs disposable polyethylene tubing with a threaded adapter that screws into the bottom of the rods. The screw adapter ensures that the vapor sample comes directly from the bottom of the drill rods and does not mix with other vapor from inside the rod or from the ground surface. The operator then pulls up on the rods and exposes the desired stratigraphy by leaving an expendable drive point at the maximum depth. The required volume of soil vapor is then purged through the polyethylene tubing using a standard vacuum pump. The soil vapor can be sampled for direct injection into a field gas chromatograph, pumped into inert tedlar bags using a "bell jar" sampling device, or allowed to enter a Summa vacuum canister. Once collected, the vapor sample is transported under chain-of-custody to a state-certified laboratory. The ground surface immediately adjacent to the boring is used as a datum to measure sample depth. The horizontal location of each boring is measured in the field relative to a permanent on-site reference using a measuring wheel or tape measure. Drilling and sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

STANDARD FIELD PROCEDURES FOR SOIL AND SOIL VAPOR SAMPLING CONT'D

Sample Storage, Handling and Transport

Samples are stored out of direct sunlight in coolers and transported under chain-of-custody to a state-certified analytic laboratory.

Field Screening

After collecting a vapor sample for laboratory analysis, Cambria often collects an additional vapor sample for field screening using a portable photo-ionization detector (PID), flame-ionization detector (FID), or GasTech7 combustible gas detector to measure volatile hydrocarbon vapor concentrations. These measurements are used along with the field observations, odors, stratigraphy and ground water depth to help select the best location for additional borings to be advanced during the field mobilization.

Grouting

The borings are filled to the ground surface with neat cement.

STANDARD FIELD PROCEDURES FOR MONITORING WELL INSTALLATION

This document presents standard field methods for drilling and sampling soil borings and installing, developing and sampling groundwater monitoring wells. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

DRILLING AND SAMPLING

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor or staining, and to collect samples for analysis at a State-certified laboratory. All borings are logged using the Unified Soil Classification System by a trained geologist working under the supervision of a California Registered Geologist (RG).

Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or direct-push technologies such as the Geoprobe®. Prior to drilling, the first 8 ft of the boring are cleared using an air or water knife and vacuum extraction. This minimizes the potential for impacting utilities.

Soil samples are collected at least every five ft to characterize the subsurface sediments and for possible chemical analysis. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments at the bottom of the borehole.

Drilling and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Analysis

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 40 C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field Screening

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable volatile vapor analyzer measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. Volatile vapor analyzer measurements are used along with the field observations, odors, stratigraphy and groundwater depth to select soil samples for analysis.

Water Sampling

Water samples, if they are collected from the boring, are either collected using a driven Hydropunch® type sampler or are collected from the open borehole using bailers. The groundwater samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4oC, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

MONITORING WELL INSTALLATION, DEVELOPMENT AND SAMPLING

Well Construction and Surveying

Groundwater monitoring wells are installed to monitor groundwater quality and determine the groundwater elevation, flow direction and gradient. Well depths and screen lengths are based on groundwater depth, occurrence of hydrocarbons or other compounds in the borehole, stratigraphy and State and local regulatory guidelines. Well screens typically extend 10 to 15 feet below and 5 feet above the static water level at the time of drilling. However, the well screen will generally not extend into or through a clay layer that is at least three feet thick.

Well casing and screen are flush-threaded, Schedule 40 PVC. Screen slot size varies according to the sediments screened, but slots are generally 0.010 or 0.020 inches wide. A rinsed and graded sand occupies the annular space between the boring and the well screen to about one to two feet above the well screen. A two feet thick hydrated bentonite seal separates the sand from the overlying sanitary surface seal composed of Portland type I,II cement.

Well-heads are secured by locking well-caps inside traffic-rated vaults finished flush with the ground surface. A stovepipe may be installed between the well-head and the vault cap for additional security.

The well top-of-casing elevation is surveyed with respect to mean sea level and the well is surveyed for horizontal location with respect to an onsite or nearby offsite landmark.

Well Development

Wells are generally developed using a combination of groundwater surging and extraction. Surging agitates the groundwater and dislodges fine sediments from the sand pack. After about ten minutes of surging, groundwater is extracted from the well using bailing, pumping and/or reverse air-lifting through an eductor pipe to remove the sediments from the well. Surging and extraction continue until at least ten well-casing volumes of groundwater are extracted and the sediment volume in the groundwater is negligible. This process usually occurs prior to installing the sanitary surface seal to ensure sand pack stabilization. If development occurs after surface seal installation, then development occurs 24 to 72 hours after seal installation to ensure that the Portland cement has set up correctly.

All equipment is steam-cleaned prior to use and air used for air-lifting is filtered to prevent oil entrained in the compressed air from entering the well. Wells that are developed using air-lift evacuation are not sampled until at least 24 hours after they are developed.

Groundwater Sampling

Depending on local regulatory guidelines, three to four well-casing volumes of groundwater are purged prior to sampling. Purging continues until groundwater pH, conductivity, and temperature have stabilized. Groundwater samples are collected using bailers or pumps and are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

Waste Handling and Disposal

Soil cuttings from drilling activities are usually stockpiled onsite and covered by plastic sheeting. At least three individual soil samples are collected from the stockpiles and composited at the analytic laboratory. The composite sample is analyzed for the same constituents analyzed in the borehole samples in addition to any analytes required by the receiving disposal facility. Soil cuttings are transported by licensed waste haulers and disposed in secure, licensed facilities based on the composite analytic results.

Groundwater removed during development and sampling is typically stored onsite in sealed 55-gallon drums. Each drum is labeled with the drum number, date of generation, suspected contents, generator identification and consultant contact. Upon receipt of analytic results, the water is either pumped out using a vacuum truck for transport to a licensed waste treatment/disposal facility or the individual drums are picked up and transported to the waste facility where the drum contents are removed and appropriately disposed.

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: 02/07/2008 By jamesy

Permit Numbers: W2008-0055
Permits Valid from 02/25/2008 to 02/26/2008

Application Id: 1201565982005
Site Location: 1436 Grant Avenue
Project Start Date: 02/25/2008

City of Project Site: San Lorenzo

Completion Date: 02/26/2008

Applicant: Conestoga-Rovers & Associates - Christina
McClelland
5900 Hollis Street, Suite A, Emeryville, CA 94608
Property Owner: George Jaber
2801 Encinal Avenue, Alameda, CA 94501

Phone: 510-420-0700

Phone: 510-523-4821

Client: ** same as Property Owner **

Receipt Number: WR2008-0041 Total Due: \$200.00
Total Amount Paid: \$200.00
Payer Name : Conestoga-Rovers & Associates Paid By: CHECK PAID IN FULL

Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 8 Boreholes

Driller: Gregg Drilling - Lic #: 485165 - Method: DP

Work Total: \$200.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2008-0055	02/07/2008	05/25/2008	8	3.25 in.	25.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. 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.
4. Applicant shall contact James Yoo for an inspection time at 510-670-6633 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.
5. Permittee, 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

Alameda County Public Works Agency - Water Resources Well Permit

waterways or be allowed to move off the property where work is being completed.

6. 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.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

Work Order Number:* 80001
*This WO is ___ / is not open for charges.

Permit Number: R08-LD9125
Permit Issuance Date: 2/21/08
Permit Expiration Date: 2/21/09

**COUNTY OF ALAMEDA PUBLIC WORKS AGENCY
ROADWAY ENCROACHMENT PERMIT**

This Permit is issued in accordance with Chapter 12.08 of the Alameda County General Ordinance Code

Name & Address of Property Owner:
George Jaber
2801 Encinal Ave.
Alameda, CA 94501
Phone Number: (510)523-4821

Job Site Address:
1436 Grant Ave.
San Lorenzo, CA

Name & Address of Contractor:
CRA-Christina McClelland
5900 Hollis St., Suite A
Emeryville, CA 94608
Phone Number: (510)420-0700

(This statement to be completed by the Agency)
This permit is issued to the owner ___ / contractor ;
if "owner" is checked, he/she is ___ / is not ___ exempt
from the requirement that work in the roadway be
performed by a licensed contractor.

The Applicant intends to perform the following work scope:

Lane shift to allow boring to be advanced
in the sidewalk along Grant Avenue adjacent
to 1436 Grant Ave.

Licensed Contractor Declaration:

I hereby affirm, under penalty of perjury, that I hold the following contractor's license, which is in full force and effect, under the applicable provisions of the State Business and Professions Code.
License Class and No. _____
Contractor's Signature: [Signature]

Worker's Compensation Insurance Declaration:

I hereby affirm, under penalty of perjury, that I will, during the performance of any and all work authorized by this permit, satisfy the requirements of the State Labor Code with regard to Worker's Compensation Insurance, as declared below:
___ I will maintain a certificate of consent to self-insure.
 I will maintain the following insurance policy:
Carrier's Name and Policy No.: _____
___ I will not employ any person in any manner so as to become subject to the worker's compensation laws of the State.
Owner's/Contractor's Signature: [Signature]

All work and/or access shall be performed in accordance with the requirements of Chapter 12.08 and, unless otherwise specified below, shall be fully compliant with each of the terms and conditions of the attached General Provisions:

CALL THIS NUMBER FOR INSPECTIONS: 670-5591

Bond Information: _____
BY: J.K. Rogers, Alameda County

Insp. Fee or Deposit ___:
\$ 225
Work Completed (Date): _____
Inspector: _____

I certify that the information that I have entered into this permit application is correct, and I agree to comply with all of the terms and conditions and other requirements of the issued Permit.
[Signature] 2/21/08
Signature of Applicant Date

THIS PERMIT IS INCOMPLETE WITHOUT THE ATTACHED GENERAL PROVISIONS

Boring/Well Log Legend

KEY TO SYMBOLS/ABBREVIATIONS

- ▽ First encountered groundwater
- ▼ Static groundwater
- ⊔ Soils logged by hand-auger or air-knife cuttings
- ⊖ Soils logged by drill cuttings or disturbed sample
- ▭ Undisturbed soil sample interval
- Soil sample retained for submittal to analytical laboratory
- No recovery within interval
- ⊔ Hydropunch screen interval

- PID = Photo-ionization detector or organic vapor meter reading in parts per million (ppm)
- fbg = Feet below grade
- Blow Counts = Number of blows required to drive a California-modified split-spoon sampler using a 140-pound hammer falling freely 30 inches, recorded per 6-inch interval of a total 18-inch sample interval
- (10YR 4/4) = Soil color according to Munsell Soil Color Charts
- msl = Mean sea level
- Soils logged according to the USCS.

UNIFIED SOILS CLASSIFICATION SYSTEM (USCS) SUMMARY

Major Divisions		Graphic	Group Symbol	Typical Description
Coarse-Grained Soils (>50% Sands and/or Gravels)	Gravel and Gravelly Soils		GW	Well-graded gravels, gravel-sand mixtures, little or no fines
			GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
		Gravels with Fines (≥15% fines)	GM	Silty gravels, gravel-sand-silt mixtures
	GC		Clayey gravels, gravel-sand-clay mixtures	
	Sand and Sandy Soils			SW
		SP		Poorly-graded sands, gravelly sand, little or no fines
Sands with Fines (≥15% fines)		SM	Silty sands, sand-silt mixtures	
	SC	Clayey sands, sand-clay mixtures		
Fine-Grained Soils (>50% Silts and/or Clays)	Silts and Clays		ML	Inorganic silts, very fine sands, silty or clayey fine sands, clayey silts with slight plasticity
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL	Organic silts and organic silty clays of low plasticity	
	Silts and Clays		MH	Inorganic silts, micaceous or diatomaceous fine sand or silty soils
			CH	Inorganic clays of high plasticity
		OH	Organic clays of medium to high plasticity, organic silts	
Highly Organic Soils		PT	Peat, humus, swamp soils with high organic contents	

I:\MISC\TEMPLATES\BORING LOG LEGEND.A1



**CONESTOGA-ROVERS
& ASSOCIATES**



Conestoga-Rovers & Associates, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING/ WELL LOG

CLIENT NAME	George Jaber	BORING/WELL NAME	B-1
JOB/SITE NAME	Encinal Properties/Former Olympic Station	DRILLING STARTED	25-Feb-08
LOCATION	1436 Grant Avenue, San Lorenzo, CA	DRILLING COMPLETED	25-Feb-08
PROJECT NUMBER	629100	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3.25"	SCREENED INTERVALS	NA
LOGGED BY	C. McClelland	DEPTH TO WATER (First Encountered)	3.0 fbg (25-Feb-08) ▽
REVIEWED BY	B. Wilken, PG# 7564	DEPTH TO WATER (Static)	3.95 fbg (25-Feb-08) ▼
REMARKS	NW of garage, near former dispenser island.		

PID (ppm)	TPHg (mg/kg)	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
1	<1.0	B-1@3'	0.2			Surface: Asphalt, 2-inches thick. FILL: SAND: Olive gray (5Y 3/2); moist; 100% fine to coarse grained sand; non-plastic; high estimated permeability. @ 3-feet: Wet.	0.2	
			4.0	SM		Silty SAND: Olive gray (5Y 3/2); wet; 30% silt, 70% fine to medium grained sand; non-plastic; high estimated permeability. @ 5-feet: (N3)	4.0	
348	290	B-1@7'	6.0	ML		Clayey SILT: Dark gray (N3); wet; 30% clay, 70% silt; low plasticity; moderate estimated permeability. (sheen on hand auger)	6.0	
			8.5	CL		Silty CLAY: Olive gray (5Y 3/2); wet; 85% clay, 15% silt; medium plasticity; low to moderate estimated permeability. (odor)	8.5	
64	140	B-1@10.5'	11.0			No Recovery	11.0	
			16.0	CL		Silty, Sandy CLAY: Moderate yellowish brown (10YR 5/4); wet; 60% clay, 25% silt, 15% fine grained sand; medium plasticity; low to moderate estimated permeability. @ 18.5-feet: Lenses of gravel.	16.0	
	85	B-1@19.5'	20.0			No Recovery	20.0	
			25.0				25.0	Bottom of Boring @ 25 fbg

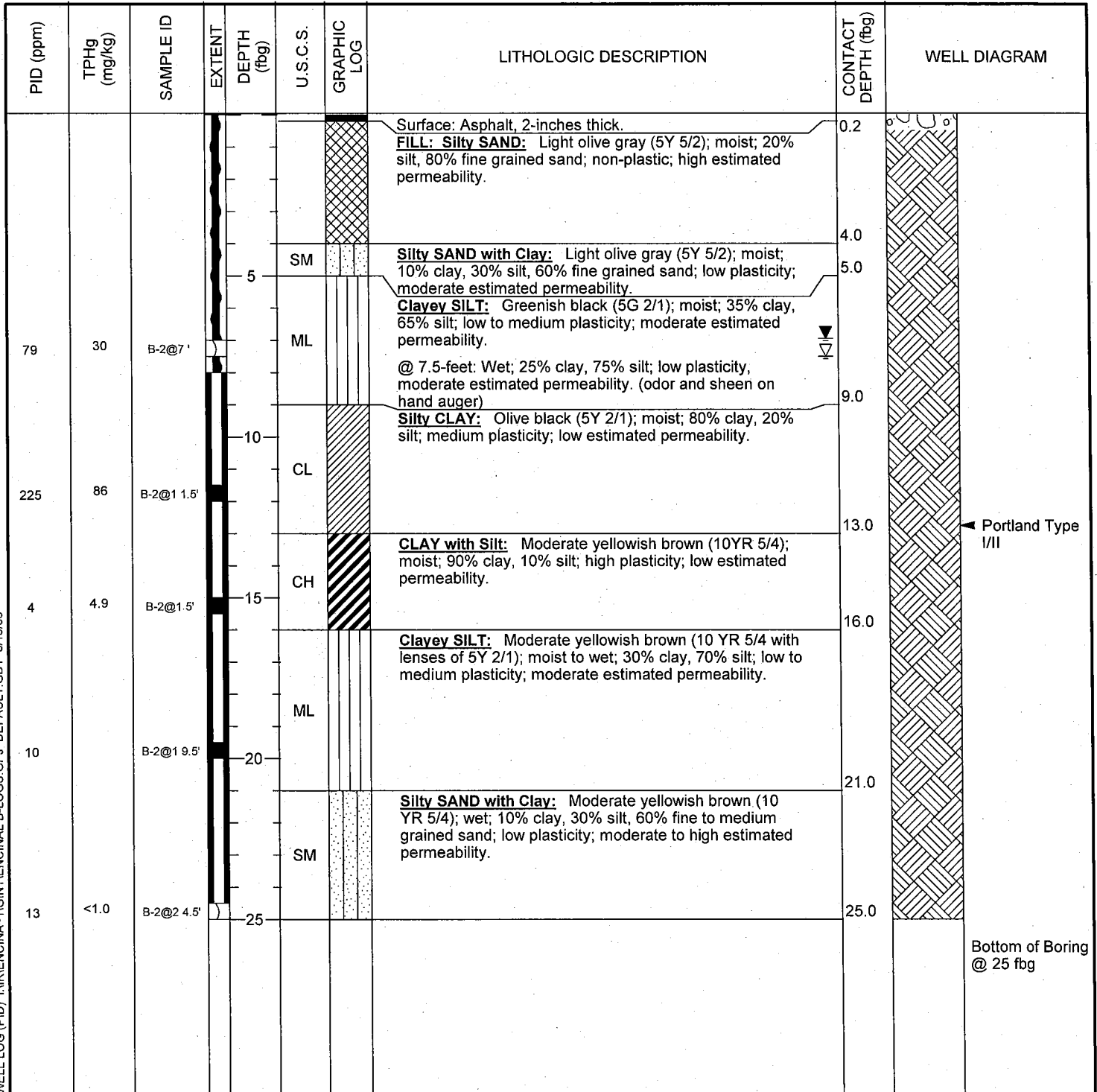
WELL LOG (PID) I:\RENCINA-1\GINTENCINAL-B-LOGS.GPJ DEFAULT.GDT 3/19/08



Conestoga-Rovers & Associates, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING/ WELL LOG

CLIENT NAME	George Jaber	BORING/WELL NAME	B-2
JOB/SITE NAME	Encinal Properties/Former Olympic Station	DRILLING STARTED	25-Feb-08
LOCATION	1436 Grant Avenue, San Lorenzo, CA	DRILLING COMPLETED	25-Feb-08
PROJECT NUMBER	629100	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3.25"	SCREENED INTERVALS	NA
LOGGED BY	C. McClelland	DEPTH TO WATER (First Encountered)	7.5 fbg (25-Feb-08) ▼
REVIEWED BY	B. Wilken, PG# 7564	DEPTH TO WATER (Static)	6.95 fbg (25-Feb-08) ▼
REMARKS	SW of garage		



WELL LOG (PID) \NRENCINA-1\GINTENCINAL B-LOGS.GPJ DEFAULT.GDT 3/19/08



Conestoga-Rovers & Associates, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING/ WELL LOG

CLIENT NAME	George Jaber	BORING/WELL NAME	B-3
JOB/SITE NAME	Encinal Properties/Former Olympic Station	DRILLING STARTED	26-Feb-08
LOCATION	1436 Grant Avenue, San Lorenzo, CA	DRILLING COMPLETED	26-Feb-08
PROJECT NUMBER	629100	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3.25"	SCREENED INTERVALS	NA
LOGGED BY	C. McClelland	DEPTH TO WATER (First Encountered)	8.0 fbg (26-Feb-08) ▽
REVIEWED BY	B. Wilken, PG# 7564	DEPTH TO WATER (Static)	NA ▼
REMARKS	SE of well MW-2.		

PID (ppm)	TPHg (mg/kg)	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				0.2			Surface: Asphalt, 2-inches thick. FILL: Silty SAND: Moderate yellowish brown (10YR 5/4); moist; 20% silt, 80% fine grained sand; non-plastic; high estimated permeability.	0.2	
				4.0			Sandy SILT with Clay: Dark yellowish brown (10YR 4/2); moist; 10% clay, 60% silt, 30% fine grained sand; low to medium plasticity; moderate estimated permeability. @ 5-feet: 10% clay, 50% silt, 40% fine grained sand; low plasticity; moderate estimated permeability. @ 6.5-feet: Sandy, Clayey SILT: 20% clay, 60% silt, 20% fine grained sand; medium plasticity; moderate estimated permeability.	4.0	
0	<1.0	B-3@7'		5	ML		@ 8-feet: Clayey SILT: Dark yellowish brown (10YR 4/2); wet; 30% clay, 70% silt; low to medium plasticity; moderate estimated permeability.	9.5	
0		B-3@11.5'		10	CL		Silty CLAY: Dark yellowish brown (10YR 4/2); moist; 65% clay, 35% silt; medium plasticity; low estimated permeability.		
0	<1.0	B-3@15'		15			@ 12-feet: Moist to wet; 60% clay, 40% silt; medium plasticity; low to moderate estimated permeability. @ 13-feet: 55% clay, 45% silt; medium to low plasticity; moderate estimated permeability. (lenses of sand and gravel, approximately 1-2 inches thick.)		
0				15.5			No Recovery	15.5	
				16.0			Clayey SILT: Pale yellowish brown (10YR 6/2); wet; 40% clay, 60% silt; low plasticity; moderate to high estimated permeability. (Poor Recovery)	16.0	
				20	ML				
0		B-3@22'		22			@ 22-feet: Clayey SILT with Sand: Moist to wet; 30% clay, 60% silt, 10% fine grained sand.	23.0	
0	<1.0	B-3@24.5'		25	SP		SAND with Silt: Moderate yellowish brown (10YR 5/4); wet; 10% silt, 90% fine grained sand; non-plastic; high estimated permeability.	25.0	
									Bottom of Boring @ 25 fbg

WELL LOG (PID) \PIRENCINA-1\GINTENCINAL B-LOGS.GPJ DEFAULT.GDT 3/19/08



Conestoga-Rovers & Associates, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING/ WELL LOG

CLIENT NAME	George Jaber	BORING/WELL NAME	B-4
JOB/SITE NAME	Encinal Properties/Former Olympic Station	DRILLING STARTED	25-Feb-08
LOCATION	1436 Grant Avenue, San Lorenzo, CA	DRILLING COMPLETED	25-Feb-08
PROJECT NUMBER	629100	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3.25"	SCREENED INTERVALS	NA
LOGGED BY	C. McClelland	DEPTH TO WATER (First Encountered)	7.5 fbg (25-Feb-08) ▼
REVIEWED BY	B. Wilken, PG# 7564	DEPTH TO WATER (Static)	7.80 fbg (25-Feb-08) ▼
REMARKS	NE of former excavation.		

PID (ppm)	TPHg (mg/kg)	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM	
							Surface: Asphalt, 2-inches thick. FILL: SAND: Moderate olive brown (5Y 4/4); moist; 100% fine grained sand; non-plastic; high estimated permeability.	0.2		
				5	SM		Silty SAND with Clay: Greenish black (5G 2/1); moist; 10% clay, 30% silt, 60% fine grained sand; low plasticity; moderate to high estimated permeability.	3.5		
87	250	B-4@7'			ML		Clayey SILT: Greenish Black (5G 2/1); moist; 25% clay, 75% silt; low plasticity; moderate estimated permeability. (odor) @ 7.5-feet: (5Y 3/2); wet; 15% clay, 85% silt; moderate to high estimated permeability.	8.0		
162	110	B-4@11.5'			CL		Silty CLAY: Olive gray (5Y 3/2); moist; 80% clay, 20% silt; high plasticity; low estimated permeability. @ 10-feet: Wet; lenses of sand and gravel, approximately 1-2 inches thick.			
1.7	<1.0	B-4@15'			ML		@ 13.5-feet: Moderate yellowish brown (10YR 5/4); 65% clay, 35% silt; medium plasticity; low to moderate estimated permeability. Clayey SILT: Moderate yellowish brown (10YR 5/4); wet; 40% clay, 60% silt; low plasticity; moderate estimated permeability. No Recovery	15.0		
15		B-4@21'			ML		Clayey SILT: Moderate olive gray (5Y 4/2); moist; 20% clay, 80% silt; medium plasticity; low to moderate estimated permeability.	20.0		
3.3	<1.0	B-4@24.5'					@ 23-feet: 25% clay, 75% silt. @ 24-feet: 40% clay, 60% silt; low to medium plasticity.	25.0		
				25						Bottom of Boring @ 25 fbg

WELL LOG (PID) \\IRRENCINA-1\GINTENCINAL B-LOGS.GPJ DEFAULT.GDT 3/19/08



Conestoga-Rovers & Associates, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING/ WELL LOG

CLIENT NAME	George Jaber	BORING/WELL NAME	B-5
JOB/SITE NAME	Encinal Properties/Former Olympic Station	DRILLING STARTED	26-Feb-08
LOCATION	1436 Grant Avenue, San Lorenzo, CA	DRILLING COMPLETED	26-Feb-08
PROJECT NUMBER	629100	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3.25"	SCREENED INTERVALS	NA
LOGGED BY	C. McClelland	DEPTH TO WATER (First Encountered)	8.0 fbg (26-Feb-08) ▽
REVIEWED BY	B. Wilken, PG# 7564	DEPTH TO WATER (Static)	6.40 fbg (26-Feb-08) ▽
REMARKS	SW of garage, in parking area adjacent to Grant Avenue.		

PID (ppm)	TPHg (mg/kg)	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				0.2			Surface: Asphalt, 2-inches thick.	0.2	
				3.0			FILL: Silty SAND: Moderate yellowish brown (10YR 5/4); moist; 20% silt, 80% fine grained sand; non-plastic; high estimated permeability.	3.0	
				5			Sandy SILT with Clay: Dark Yellowish brown (10YR 4/2); moist; 10% clay, 60% silt, 30% fine grained sand; low plasticity; high estimated permeability. (contains organic material and roots causing secondary permeability)		
2	<1.0	B-5@7'		7	ML		@ 6.5-feet: Clayey SILT: 20% clay, 80% silt; low plasticity; moderate estimated permeability. @ 8-feet: Greenish black (5G 2/1); wet. @ 9-feet: Moist.		
330	49	B-5@11.5'		11.5	CL		Silty CLAY: Greenish black (5G 2/1); moist; 65% clay, 35% silt; medium plasticity; low estimated permeability. (odor)	10.0	
0	<1.0	B-5@15'		15	CH		@ 13.5-feet: Moderate olive gray (5Y 4/2); 80% clay, 20% silt; high plasticity; low estimated permeability.	13.5	
				16.0				16.0	
				17.5	ML		Clayey SILT: Dark greenish gray (5GY 4/1); moist; 20% clay, 80% silt; low plasticity; low to moderate estimated permeability.	17.5	
				19.0	CL		Silty CLAY: Moderate yellowish brown (10YR 5/4); moist; 75% clay, 25% silt; medium plasticity; low estimated permeability.	19.0	
3		B-5@19.5'		19.5	ML		Sandy SILT with Clay: Yellowish brown (10YR 5/2); moist; 10% clay, 60% silt, 30% sand; low plasticity; low to moderate estimated permeability.	21.0	
				21.0			@ 20-feet: SILT with Clay: 10% clay, 90% silt.	21.0	
				23.0	CL		Silty CLAY: Yellowish brown (10YR 5/2); wet; 80% clay, 20% silt; medium plasticity; moderate estimated permeability.	23.0	
				24.0	ML		Sandy SILT: Yellowish brown (10YR 5/2); wet; 75% silt, 25% sand; non-plastic; moderate estimated permeability.	24.0	
0	<1.0	B-5@24.5'		24.5	SP		Silty SAND: Yellowish brown (10YR 5/2); wet; 35% silt, 65% fine grained sand; non-plastic; high estimated permeability.	25.0	
				25.0				25.0	

WELL LOG (PID) I:\HIRENCINA-1\GINTENCINAL B-LOGS.GPJ DEFAULT.GDT 3/19/08



Conestoga-Rovers & Associates, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING/ WELL LOG

CLIENT NAME	George Jaber	BORING/WELL NAME	B-6
JOB/SITE NAME	Encinal Properties/Former Olympic Station	DRILLING STARTED	26-Feb-08
LOCATION	1436 Grant Avenue, San Lorenzo, CA	DRILLING COMPLETED	26-Feb-08
PROJECT NUMBER	629100	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3.25"	SCREENED INTERVALS	NA
LOGGED BY	C. McClelland	DEPTH TO WATER (First Encountered)	8.0 fbg (26-Feb-08) ▼
REVIEWED BY	B. Wilken, PG# 7564	DEPTH TO WATER (Static)	6.95 fbg (26-Feb-08) ▼
REMARKS	Behind shopping center, closest to the gate.		

PID (ppm)	TPHg (mg/kg)	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				0.2			Surface: Asphalt, 2-inches thick.	0.2	<p>Portland Type I/II</p> <p>Bottom of Boring @ 25 fbg</p>
				2.0			FILL: Silty SAND: Moderate yellowish brown (10YR 5/4); moist; 20% silt, 80% fine grained sand; non-plastic; high estimated permeability.	2.0	
				5	ML		Clayey SILT: Dusky to dark yellowish brown (10YR 3/2); moist; 20% clay, 80% silt; low to medium plasticity; moderate estimated permeability.		
0	<1.0	B-6@7'		7			@ 5-feet: 40% clay, 60% silt.		
				8			@ 6-feet: 20% clay, 80% silt; medium plasticity; moderate estimated permeability. (contains organic material, roots.)		
				9			@ 8-feet: Wet.	9.0	
0	<1.0	B-6@11.5'		11.5	CL		Silty CLAY: Dusky to dark yellowish brown (10YR 3/2); moist; 60% clay, 40% silt; medium plasticity; low to moderate estimated permeability.		
0	<1.0	B-6@15.5'		15.5	CH		Silty CLAY: Dusky to dark yellowish brown (10YR 4/2); wet; 75% clay, 25% silt; medium to high plasticity; low estimated permeability. (lenses of sand and gravel, approximately 1-3 inches thick, from 12-16 feet.)	13.0	
0	<1.0	B-6@19.5'		19.5	ML		@ 17-feet: Moderate yellowish brown (10YR 5/4); Moist; 80% clay, 20% silt; high plasticity; low estimated permeability.	18.0	
1				20			Clayey SILT: Moderate yellowish brown (10YR 5/4); moist; 30% clay, 70% silt; low plasticity; low to moderate estimated permeability.	20.0	
				20			Silty SAND with Clay: Moderate yellowish brown (10YR 5/4); wet; 10% clay, 30% silt, 60% fine grained sand; low plasticity; moderate estimated permeability.		
1	<1.0	B-6@24.5'		24.5	SM		@ 23-feet: Silty SAND: 20% silt, 80% fine to medium grained sand; non plastic.	25.0	

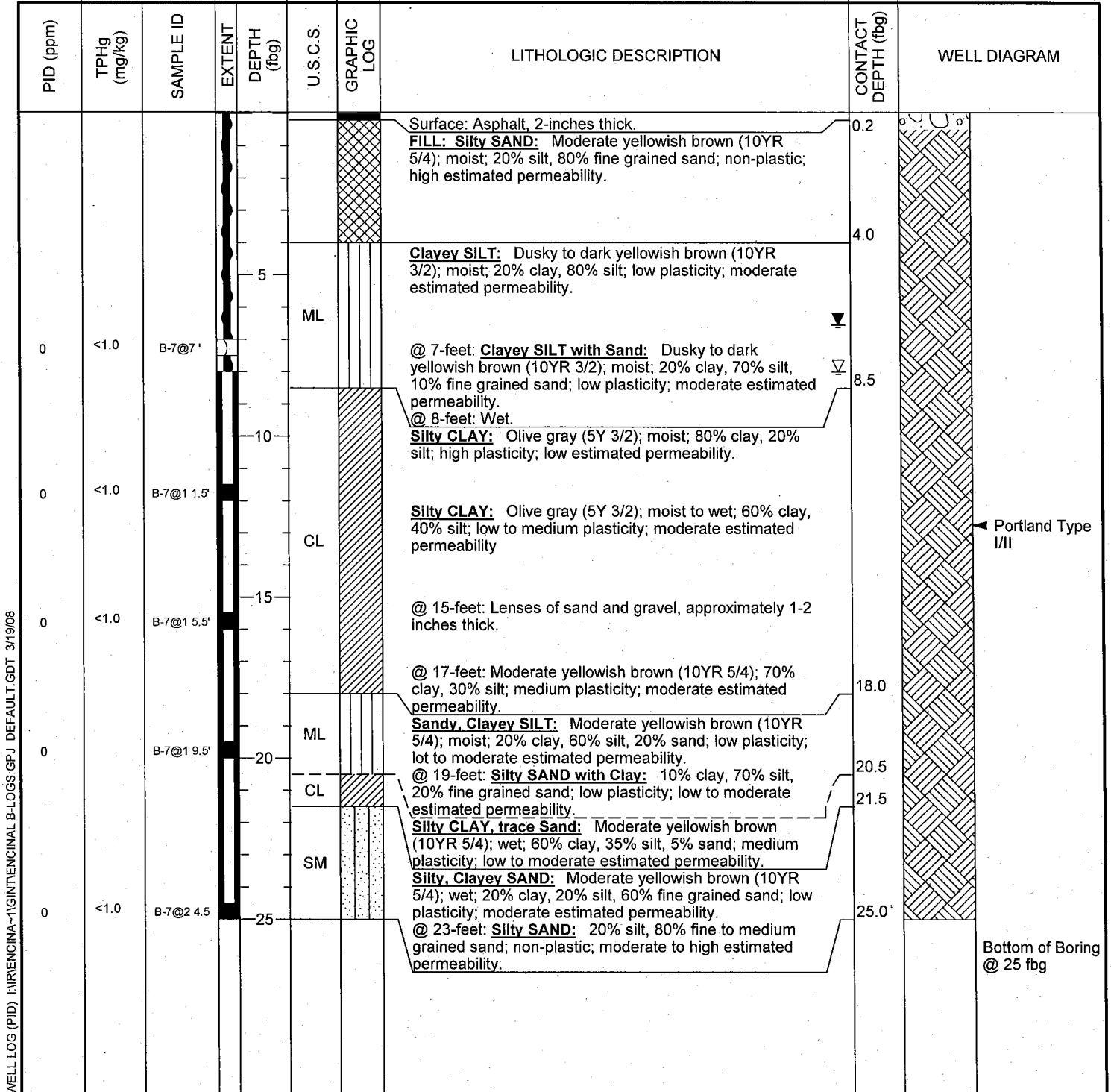
WELL LOG (PID) I:\RIENCINA-1\GINTIENCINAL B-LOGS.GPJ DEFAULT.GDT 3/19/08



Conestoga-Rovers & Associates, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING/ WELL LOG

CLIENT NAME	George Jaber	BORING/WELL NAME	B-7
JOB/SITE NAME	Encinal Properties/Former Olympic Station	DRILLING STARTED	26-Feb-08
LOCATION	1436 Grant Avenue, San Lorenzo, CA	DRILLING COMPLETED	26-Feb-08
PROJECT NUMBER	629100	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3.25"	SCREENED INTERVALS	NA
LOGGED BY	C. McClelland	DEPTH TO WATER (First Encountered)	8.0 fbg (26-Feb-08) ▼
REVIEWED BY	B. Wilken, PG# 7564	DEPTH TO WATER (Static)	6.55 fbg (26-Feb-08) ▼
REMARKS	Behind shopping center, furthest from the gate.		



WELL LOG (PID) I:\IRENCINA-1\GINTIENCINAL B-LOGS.GPJ DEFAULT.GDT 3/19/08



Conestoga-Rovers & Associates, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING/ WELL LOG

CLIENT NAME	George Jaber	BORING/WELL NAME	B-8
JOB/SITE NAME	Encinal Properties/Former Olympic Station	DRILLING STARTED	25-Feb-08
LOCATION	1436 Grant Avenue, San Lorenzo, CA	DRILLING COMPLETED	25-Feb-08
PROJECT NUMBER	629100	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3.25"	SCREENED INTERVALS	NA
LOGGED BY	C. McClelland	DEPTH TO WATER (First Encountered)	8.0 fbg (25-Feb-08) ▽
REVIEWED BY	B. Wilken, PG# 7564	DEPTH TO WATER (Static)	6.10 fbg (25-Feb-08) ▼
REMARKS	In sidewalk adjacent to Grant Avenue.		

WELL LOG (PID) \PIRENCINA-1\GINTENCINAL B-LOGS.GPJ DEFAULT.GDT 3/19/08

PID (ppm)	TPHg (mg/kg)	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Surface: Asphalt, 2-inches thick.	0.2	
							FILL: Sandy SILT with Clay: Greenish black to dark greenish gray (5GY 3/1); moist; 10% clay, 60% silt, 30% fine grained sand; low plasticity; moderate estimated permeability. (odor)	4.0	
8		B-8@5'		5	ML		Clayey SILT with Sand: Greenish black to dark greenish gray (5GY 3/1); moist; 30% clay, 60% silt, 10% fine grained sand; medium plasticity; low to moderate estimated permeability.	8.0	
13	5.8	B-8@6.5'					@ 6-feet: (N3); 30% clay, 70% silt; low plasticity; low to moderate estimated permeability.		
					CL		Silty CLAY: Dark gray (N3); moist to wet; 60% clay, 40% silt; medium plasticity; low estimated permeability. (lenses of sand, approximately 1-3 inches thick, from 8-15 feet)	10.0	
58	270	B-8@11.5'			CH		CLAY with Silt: Dark gray (N3); moist; 90% clay, 10% silt; high plasticity; low estimated permeability.	12.0	
					CL		Silty CLAY with Gravel: Dark yellowish brown (10YR 4/2); wet; 55% clay, 35% Silt, 10% gravel; medium plasticity; low to moderate estimated permeability.	17.0	
7	4.9	B-8@15'		15			@ 15-feet: Silty CLAY: Moderate yellowish brown (10YR 5/4); 60% clay, 40% silt; medium plasticity; low estimated permeability.		
					ML		Clayey SILT with Sand: Moderate yellowish brown (10YR 5/4); moist; 20% clay, 70% silt, 10% fine grained sand; low plasticity; low to moderate estimated permeability.	22.0	
7.2		B-8@20'		20			@ 18-feet: Sandy, Clayey SILT: 15% clay, 65% silt, 20% sand. @ 19-feet: Sandy SILT with Clay: 10% clay, 60% silt, 30% sand; moderate estimated permeability. @ 20.5-feet: Sandy SILT: Wet; 55% silt, 45% fine grained sand; moderate to high estimated permeability.		
0	<1.0	B-8@24.5'		25	SM		Silty SAND: Moderate yellowish brown (10YR 5/4); wet; 40% silt, 60% fine grained sand; non-plastic; moderate to high estimated permeability. @ 24-feet: Silty SAND with Clay: Moist; 10% clay, 30% silt, 60% fine to medium grained sand; low plasticity; moderate to high estimated permeability.	25.0	

Bottom of Boring @ 25 fbg



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
	Client Contact: Brandon Wilken	Date Received: 02/27/08
	Client P.O.:	Date Reported: 03/06/08
		Date Completed: 03/06/08

WorkOrder: 0802644

March 06, 2008

Dear Brandon:

Enclosed within are:

- 1) The results of the 8 analyzed samples from your project: #629100-003; Encinal Properties,
- 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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.



McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

0802644

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

GeoTracker EDF PDF Excel Write On (DW)

Check if sample is effluent and "J" flag is required

Report To: CRA - Brandon Wilken Bill To: CRA
Company: Conestoga-Rovers & Associates (CRA)
5900 Hollis Street, Ste A, Emeryville, CA 94608
E-Mail: bwilken@croworld.com CC: cmccllland@croworld.com
Tele: (510) 420-3355 Fax: (510) 420-9170
Project #: 629100-003 Project Name: Encinal Properties
Project Location: 1436 Grant Avenue, San Lorenzo, CA
Sampler Signature: *cmccllland*

Analysis Request Other Comments

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				TPH as Gas (8015)	TPH as Diesel (8015)	BTX ONLY (EPA 8260)	CAM 17 Metals (200.8 / 200.8 / 6010 / 6020)	8 Fuel Organics (MTBE, TAME, TBA, ETBE, DIPE, EDB, 1,2-DCA, & Ethanol) by 8260	Filter Samples for Metals analysis: Yes / No
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other						
+150 B-1-gw	B-1	2/25/08	12:15	5	400A (Amber)	X					X			X	X	X			X	
+130 B-2-gw	B-2	2/25/08	14:55	5		X					X			X	X	X			X	
+115 B-3-gw	B-3	2/26/08	10:25	5		X					X			X	X	X			X	
+120 B-4-gw	B-4	2/25/08	14:45	5		X					X			X	X	X			X	
+130 B-5-gw	B-5	2/26/08	10:35	5		X					X			X	X	X			X	
+120 B-6-gw	B-6	2/26/08	11:55	5		X					X			X	X	X			X	
+120 B-7-gw	B-7	2/26/08	13:10	5		X					X			X	X	X			X	
+130 B-8-gw	B-8	2/25/08	12:00	5	↓	X					X			X	X	X			X	

Relinquished By: *cmccllland* Date: 2/26/08 Time: 4:15 Received By: *Safe holding location*
Relinquished By: *Brandon Wilken* Date: 2/26/08 Time: 1:50 Received By: *[Signature]*
Relinquished By: *[Signature]* Date: 2/27/08 Time: 3:35 Received By: *Neil Vall*

COMMENTS:
ICE / *4.1c*
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB
PRESERVATION VO&S O&G METALS OTHER pH < 2

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0802644

ClientCode: CETE

EDF Excel Fax Email HardCopy ThirdParty

Report to:

Brandon Wilken
Conestoga-Rovers & Associates
5900 Hollis St, Suite A
Emeryville, CA 94608

Email: bwilken@CRAworld.com
TEL: (510) 420-0700 FAX: (510) 420-9170
ProjectNo: #629100-003; Encinal Properties
PO:

Bill to:

Accounts Payable
Conestoga-Rovers & Associates
5900 Hollis St, Ste. A
Emeryville, CA 94608

Requested TAT: 5 days

Date Received: 02/27/2008

Date Printed: 02/27/2008

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	
0802644-001	B-1-GW	Water	2/25/08 12:15:00	<input type="checkbox"/>	A	B	A										
0802644-002	B-2-GW	Water	2/25/08 2:55:00	<input type="checkbox"/>	A	B											
0802644-003	B-3-GW	Water	2/26/08 10:25:00	<input type="checkbox"/>	A	B											
0802644-004	B-4-GW	Water	2/25/08 2:45:00	<input type="checkbox"/>	A	B											
0802644-005	B-5-GW	Water	2/26/08 10:35:00	<input type="checkbox"/>	A	B											
0802644-006	B-6-GW	Water	2/26/08 11:55:00	<input type="checkbox"/>	A	B											
0802644-007	B-7-GW	Water	2/26/08 1:10:00	<input type="checkbox"/>	A	B											
0802644-008	B-8-GW	Water	2/25/08 12:00:00	<input type="checkbox"/>	A	B											

Test Legend:

1	G-MBTEX W	2	MBTEXOXY-8260B W	3	PREFD REPORT	4		5	
6		7		8		9		10	
11		12							

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

Prepared by: Melissa Valles

Comments:

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



Sample Receipt Checklist

Client Name: **Conestoga-Rovers & Associates**

Date and Time Received: **2/27/08 5:19:06 PM**

Project Name: **#629100-003; Encinal Properties**

Checklist completed and reviewed by: **Melissa Valles**

WorkOrder N°: **0802644** Matrix Water

Carrier: Rob Pringle (MAI Courier)

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: 4.7°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- TTLIC Metal - pH acceptable upon receipt (pH<2)? Yes No NA

Client contacted:

Date contacted:

Contacted by:

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
	Client Contact: Brandon Wilken	Date Received: 02/27/08
	Client P.O.:	Date Extracted: 02/29/08-03/04/08
		Date Analyzed: 02/29/08-03/04/08

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0802644

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	B-1-GW	W	4600,a,g,h,i	3.3	125
002A	B-2-GW	W	540,b,i	1	102
003A	B-3-GW	W	ND,i	1	99
004A	B-4-GW	W	7300,a,i	20	92
005A	B-5-GW	W	320,a,i	1	120
006A	B-6-GW	W	ND,i	1	90
007A	B-7-GW	W	ND,i	1	90
008A	B-8-GW	W	930,a,i	1	101

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

* 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 McC Campbell 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.



McC Campbell 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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
	Client Contact: Brandon Wilken	Date Received: 02/27/08
	Client P.O.:	Date Extracted: 03/02/08-03/05/08
		Date Analyzed: 03/02/08-03/05/08

Oxygenates and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0802644

Lab ID	0802644-001B	0802644-002B	0802644-003B	0802644-004B	Reporting Limit for DF =1	
Client ID	B-1-GW	B-2-GW	B-3-GW	B-4-GW		
Matrix	W	W	W	W		
DF	10	5	1	100		

Compound	Concentration				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND<5.0	ND<2.5	ND	ND<50	NA	0.5
Benzene	330	12	ND	150	NA	0.5
t-Butyl alcohol (TBA)	ND<20	ND<10	ND	1700	NA	2.0
1,2-Dibromoethane (EDB)	ND<5.0	ND<2.5	ND	ND<50	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<5.0	ND<2.5	ND	ND<50	NA	0.5
Diisopropyl ether (DIPE)	ND<5.0	ND<2.5	ND	ND<50	NA	0.5
Ethanol	ND<500	ND<250	ND	ND<5000	NA	50
Ethylbenzene	33	ND<2.5	ND	150	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND<5.0	ND<2.5	ND	ND<50	NA	0.5
Methyl-t-butyl ether (MTBE)	370	220	4.0	2700	NA	0.5
Toluene	ND<5.0	ND<2.5	ND	ND<50	NA	0.5
Xylenes	ND<5.0	ND<2.5	ND	ND<50	NA	0.5

Surrogate Recoveries (%)

%SS1:	105	107	109	107	
%SS2:	97	98	101	100	
%SS3:	100	101	99	99	
Comments	h				

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

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

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
	Client Contact: Brandon Wilken	Date Received: 02/27/08
	Client P.O.:	Date Extracted: 03/02/08-03/05/08
		Date Analyzed: 03/02/08-03/05/08

Oxygenates and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0802644

Lab ID	0802644-005B	0802644-006B	0802644-007B	0802644-008B	Reporting Limit for DF =1	
Client ID	B-5-GW	B-6-GW	B-7-GW	B-8-GW		
Matrix	W	W	W	W		
DF	20	10	1	5		

Compound	Concentration				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND<10	ND<5.0	ND	ND<2.5	NA	0.5
Benzene	ND<10	ND<5.0	ND	37	NA	0.5
t-Butyl alcohol (TBA)	ND<40	ND<20	ND	ND<10	NA	2.0
1,2-Dibromoethane (EDB)	ND<10	ND<5.0	ND	ND<2.5	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<10	ND<5.0	ND	ND<2.5	NA	0.5
Diisopropyl ether (DIPE)	ND<10	ND<5.0	ND	ND<2.5	NA	0.5
Ethanol	ND<1000	ND<500	ND	ND<250	NA	50
Ethylbenzene	13	ND<5.0	ND	64	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND<10	ND<5.0	ND	ND<2.5	NA	0.5
Methyl-t-butyl ether (MTBE)	630	240	27	160	NA	0.5
Toluene	ND<10	ND<5.0	ND	ND<2.5	NA	0.5
Xylenes	ND<10	ND<5.0	ND	23	NA	0.5

Surrogate Recoveries (%)

%SS1:	108	107	107	108	
%SS2:	100	100	100	99	
%SS3:	100	100	100	97	
Comments					

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

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

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
	Client Contact: Brandon Wilken	Date Received: 02/27/08
	Client P.O.:	Date Extracted 02/27/08
		Date Analyzed 02/28/08-02/29/08

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0802644

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0802644-001A	B-1-GW	W	260,000,a,h,i	500	96
0802644-002A	B-2-GW	W	1900,g,b,n,i	1	92
0802644-003A	B-3-GW	W	ND,i	1	92
0802644-004A	B-4-GW	W	6800,d,i	1	118
0802644-005A	B-5-GW	W	250,g,d,i	1	117
0802644-006A	B-6-GW	W	120,g,b,i	1	119
0802644-007A	B-7-GW	W	84,b,i	1	90
0802644-008A	B-8-GW	W	1000,d,g,i	1	112

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

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

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0802644

Analyte	EPA Method SW8015Cm		Extraction SW5030B			BatchID: 34031			Spiked Sample ID: 0802641-006A			
	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) ^f	ND	60	104	105	0.741	94.4	101	6.24	70 - 130	30	70 - 130	30
MTBE	ND	10	105	117	11.3	85.8	92.3	7.30	70 - 130	30	70 - 130	30
Benzene	ND	10	98.4	101	3.06	92.7	99.4	6.90	70 - 130	30	70 - 130	30
Toluene	ND	10	89.4	90.2	0.870	93.2	96.9	3.88	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	98.5	99.6	1.08	93.3	97.5	4.38	70 - 130	30	70 - 130	30
Xylenes	ND	30	96.7	97.8	1.08	94.6	91.3	3.55	70 - 130	30	70 - 130	30
%SS:	101	10	99	102	3.19	111	109	1.61	70 - 130	30	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 34031 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0802644-001A	02/25/08 12:15 PM	03/01/08	03/01/08 5:49 PM	0802644-002A	02/25/08 2:55 PM	02/29/08	02/29/08 11:20 AM
0802644-003A	02/26/08 10:25 AM	02/29/08	02/29/08 2:56 PM	0802644-004A	02/25/08 2:45 PM	02/29/08	02/29/08 3:26 PM
0802644-005A	02/26/08 10:35 AM	02/29/08	02/29/08 3:56 PM	0802644-005A	02/26/08 10:35 AM	03/04/08	03/04/08 2:40 AM
0802644-006A	02/26/08 11:55 AM	02/29/08	02/29/08 12:27 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0802644

EPA Method SW8015Cm	Extraction SW5030B			BatchID: 34046					Spiked Sample ID: 0802646-005B			
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) ^f	130	60	NR	NR	NR	77.5	103	28.7	70 - 130	30	70 - 130	30
MTBE	12	10	81.1	89.4	4.06	122	103	16.6	70 - 130	30	70 - 130	30
Benzene	ND	10	92	91.5	0.556	95	101	5.70	70 - 130	30	70 - 130	30
Toluene	5.2	10	91.9	85.1	4.81	86.5	90.4	4.48	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	92.9	90.9	2.14	95	99.3	4.43	70 - 130	30	70 - 130	30
Xylenes	2.3	30	82.1	79.5	2.97	93.1	97.4	4.50	70 - 130	30	70 - 130	30
%SS:	122	10	---#	---#	---#	93	98	5.52	70 - 130	30	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 34046 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0802644-007A	02/26/08 1:10 PM	02/29/08	02/29/08 1:00 PM	0802644-008A	02/25/08 12:00 PM	02/29/08	02/29/08 1:34 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.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0802644

EPA Method SW8260B	Extraction SW5030B			BatchID: 34032					Spiked Sample ID: 0802640-001C				
	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
tert-Amyl methyl ether (TAME)	ND	10	101	103	1.60	106	103	2.84	70 - 130	30	70 - 130	30	
Benzene	ND	10	91.2	94.2	3.25	99.2	93.4	5.99	70 - 130	30	70 - 130	30	
t-Butyl alcohol (TBA)	ND	50	89.9	89.5	0.423	74	74.3	0.318	70 - 130	30	70 - 130	30	
1,2-Dibromoethane (EDB)	ND	10	102	103	0.538	107	105	2.00	70 - 130	30	70 - 130	30	
1,2-Dichloroethane (1,2-DCA)	ND	10	101	103	2.26	106	102	3.07	70 - 130	30	70 - 130	30	
Diisopropyl ether (DIPE)	ND	10	89.4	91.9	2.85	94.2	91.5	2.85	70 - 130	30	70 - 130	30	
Ethyl tert-butyl ether (ETBE)	ND	10	96.1	98.1	2.05	101	97.9	3.01	70 - 130	30	70 - 130	30	
Methyl-t-butyl ether (MTBE)	2.1	10	72.7	74.7	2.13	99	95.8	3.24	70 - 130	30	70 - 130	30	
Toluene	ND	10	90.5	93.2	2.92	99.4	93.4	6.26	70 - 130	30	70 - 130	30	
%SS1:	106	10	105	105	0	106	107	0.308	70 - 130	30	70 - 130	30	
%SS2:	98	10	97	96	0.589	97	97	0	70 - 130	30	70 - 130	30	
%SS3:	102	10	91	90	0.702	90	91	0.668	70 - 130	30	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 34032 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0802644-001B	02/25/08 12:15 PM	03/02/08	03/02/08 3:11 PM	0802644-002B	02/25/08 2:55 PM	03/02/08	03/02/08 3:55 PM
0802644-003B	02/26/08 10:25 AM	03/03/08	03/03/08 9:22 AM	0802644-004B	02/25/08 2:45 PM	03/03/08	03/03/08 10:08 AM
0802644-005B	02/26/08 10:35 AM	03/03/08	03/03/08 10:56 AM	0802644-006B	02/26/08 11:55 AM	03/03/08	03/03/08 11:42 AM
0802644-007B	02/26/08 1:10 PM	03/03/08	03/03/08 2:00 PM	0802644-008B	02/25/08 12:00 PM	03/03/08	03/03/08 1:16 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.

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.



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0802644

Analyte	EPA Method SW8015C		Extraction SW3510C			BatchID: 34044			Spiked Sample ID: N/A			
	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(d)	N/A	1000	N/A	N/A	N/A	112	112	0	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	119	118	1.25	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 34044 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0802644-001A	02/25/08 12:15 PM	02/27/08	02/29/08 2:56 AM	0802644-002A	02/25/08 2:55 PM	02/27/08	02/28/08 1:47 PM
0802644-003A	02/26/08 10:25 AM	02/27/08	02/28/08 2:58 PM	0802644-004A	02/25/08 2:45 PM	02/27/08	02/28/08 3:46 AM
0802644-005A	02/26/08 10:35 AM	02/27/08	02/28/08 4:53 AM	0802644-006A	02/26/08 11:55 AM	02/27/08	02/28/08 6:01 AM
0802644-007A	02/26/08 1:10 PM	02/27/08	02/28/08 4:11 PM	0802644-008A	02/25/08 12:00 PM	02/27/08	02/28/08 8:15 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 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.



McC Campbell 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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
	Client Contact: Brandon Wilken	Date Received: 02/27/08
	Client P.O.:	Date Reported: 03/05/08
		Date Completed: 03/05/08

WorkOrder: 0802638

March 05, 2008

Dear Brandon:

Enclosed within are:

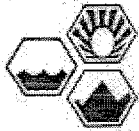
- 1) The results of the 31 analyzed samples from your project: #629100-003; Encinal Properties,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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 McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.



McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

GeoTracker EDF PDF Excel Write On (DW)

Check if sample is effluent and "J" flag is required

Report To: CRA - Brandon Wilken Bill To: CRA
Company: Conestoga-Rovers & Associates (CRA)
5900 Hollis Street, Ste A, Emeryville, CA 94608
E-Mail: bwilken@croworld.com CC: cmcclelland@croworld.com
Tele: (510) 420-3355 Fax: (510) 420-9170
Project #: 629100-003 Project Name: Encinal Properties
Project Location: 1436 Grant Avenue, San Lorenzo, CA
Sampler Signature: *[Signature]*

Analysis Request Other Comments

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				TPH as Gas (9015)	TPH as Diesel (8015)	BTX ONLY (EPA 9260)	CAN 17 Metals (200.7 / 200.8 / 6010 / 6020)	8 Fuel Oxygenates (MTBE, TAME, THA, ETBE, DPEL, EDB, 1,2-DCA, & Ethanol) by 8560	Filter Samples for Metals analysis: Yes / No		
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other								
B-6@24.5'	B-6	2/26/08	11:44	1	1/16	X					X			X	X	X						
B-7@ 7'	B-7		12:25								X			X	X	X						
B-7@11.5'	B-7		12:34								X			X	X	X						
B-7@15.5'	B-7		12:40								X			X	X	X						
B-7@19.5'	B-7		12:47								X			X	X	X						HOLD
B-7@24.5'	B-7		12:54								X			X	X	X						
B-8 @5'	B-8	2/25/08	9:05								X			X	X	X						HOLD
B-8@6.5'	B-8		9:25								X			X	X	X						
B-8@11.5'	B-8		9:43								X			X	X	X						
B-8@15'	B-8		9:55								X			X	X	X						
B-8@20'	B-8		10:05								X			X	X	X						HOLD
B-8@24.5'	B-8		10:15								X			X	X	X						

Relinquished By: *[Signature]* Date: 2/26/08 Time: 4:15 Received By: *[Signature]* Safe holding location
Relinquished By: *[Signature]* Date: 2/27/08 Time: 1:50 Received By: *[Signature]*
Relinquished By: *[Signature]* Date: 2/27/08 Time: 1:50 Received By: *[Signature]*

COMMENTS:
ICE/C _____
GOOD CONDITION _____
HEAD SPACE ABSENT _____
DECHLORINATED IN LAB _____
APPROPRIATE CONTAINERS _____
PRESERVED IN LAB _____
PRESERVATION VOAS O&G METALS OTHER
pH<2

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0802638

ClientCode: CETE

WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

Brandon Wilken
Conestoga-Rovers & Associates
5900 Hollis St, Suite A
Emeryville, CA 94608

Email: bwilken@CRAworld.com
TEL: (510) 420-0700 FAX: (510) 420-9170
PO:
ProjectNo: #629100-003; Encinal Properties

Bill to:

Accounts Payable
Conestoga-Rovers & Associates
5900 Hollis St, Ste. A
Emeryville, CA 94608

Requested TAT: 5 days

Date Received: 02/27/2008

Date Printed: 02/27/2008

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			
0802638-001	B-1@3'	Soil	2/25/2008 10:30	<input type="checkbox"/>	A	A													
0802638-002	B-1@7'	Soil	2/25/2008 10:49	<input type="checkbox"/>	A	A													
0802638-003	B-1@10.5'	Soil	2/25/2008 11:02	<input type="checkbox"/>	A	A													
0802638-004	B-1@19.5'	Soil	2/25/2008 11:15	<input type="checkbox"/>	A	A													
0802638-005	B-2@7'	Soil	2/25/2008 13:50	<input type="checkbox"/>	A	A													
0802638-006	B-2@11.5'	Soil	2/25/2008 14:00	<input type="checkbox"/>	A	A													
0802638-007	B-2@15'	Soil	2/25/2008 14:07	<input type="checkbox"/>	A	A													
0802638-009	B-2@24.5'	Soil	2/25/2008 14:20	<input type="checkbox"/>	A	A													
0802638-010	B-3@7'	Soil	2/26/2008 8:15	<input type="checkbox"/>	A	A													
0802638-012	B-3@15'	Soil	2/26/2008 8:32	<input type="checkbox"/>	A	A													
0802638-014	B-3@24.5'	Soil	2/26/2008 8:48	<input type="checkbox"/>	A	A													
0802638-015	B-4@7'	Soil	2/25/2008 12:40	<input type="checkbox"/>	A	A													
0802638-016	B-4@11.5'	Soil	2/25/2008 12:45	<input type="checkbox"/>	A	A													
0802638-017	B-4@15'	Soil	2/25/2008 13:00	<input type="checkbox"/>	A	A													
0802638-019	B-4@24.5'	Soil	2/25/2008 13:16	<input type="checkbox"/>	A	A													

Test Legend:

1	G-MBTEX S	2	MBTEXOXY-8260B S	3		4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 009A, 010A, 012A, 014A, 015A, 016A, 017A, 019A, 020A, 021A, 022A, 024A, 025A, 026A, 027A, 029A, 030A, 031A, 032A, 034A, 036A, 037A, 038A, 040A contain testgroup.

Prepared by: Maria Venegas

Comments:

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

McCampbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0802638

ClientCode: CETE

WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

Brandon Wilken
Conestoga-Rovers & Associates
5900 Hollis St, Suite A
Emeryville, CA 94608

Email: bwilken@CRAworld.com
TEL: (510) 420-0700 FAX: (510) 420-9170
PO:
ProjectNo: #629100-003; Encinal Properties

Bill to:

Accounts Payable
Conestoga-Rovers & Associates
5900 Hollis St, Ste. A
Emeryville, CA 94608

Requested TAT: 5 days

Date Received: 02/27/2008

Date Printed: 02/27/2008

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			
0802638-020	B-5@7'	Soil	2/26/2008 9:20	<input type="checkbox"/>	A	A													
0802638-021	B-5@11.5'	Soil	2/26/2008 9:30	<input type="checkbox"/>	A	A													
0802638-022	B-5@15'	Soil	2/26/2008 9:36	<input type="checkbox"/>	A	A													
0802638-024	B-5@24.5'	Soil	2/26/2008 9:55	<input type="checkbox"/>	A	A													
0802638-025	B-6@7'	Soil	2/26/2008 11:13	<input type="checkbox"/>	A	A													
0802638-026	B-6@11.5'	Soil	2/26/2008 11:22	<input type="checkbox"/>	A	A													
0802638-027	B-6@15.5'	Soil	2/26/2008 11:30	<input type="checkbox"/>	A	A													
0802638-029	B-6@24.5'	Soil	2/26/2008 11:44	<input type="checkbox"/>	A	A													
0802638-030	B-7@7'	Soil	2/26/2008 12:25	<input type="checkbox"/>	A	A													
0802638-031	B-7@11.5'	Soil	2/26/2008 12:34	<input type="checkbox"/>	A	A													
0802638-032	B-7@15.5'	Soil	2/26/2008 12:40	<input type="checkbox"/>	A	A													
0802638-034	B-7@24.5'	Soil	2/26/2008 12:54	<input type="checkbox"/>	A	A													
0802638-036	B-8@6.5'	Soil	2/25/2008 9:25	<input type="checkbox"/>	A	A													
0802638-037	B-8@11.5'	Soil	2/25/2008 9:43	<input type="checkbox"/>	A	A													
0802638-038	B-8@15'	Soil	2/25/2008 9:55	<input type="checkbox"/>	A	A													

Test Legend:

1	G-MBTEX S	2	MBTEXOXY-8260B S	3		4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 009A, 010A, 012A, 014A, 015A, 016A, 017A, 019A, 020A, 021A, 022A, 024A, 025A, 026A, 027A, 029A, 030A, 031A, 032A, 034A, 036A, 037A, 038A, 040A contain testgroup.

Prepared by: Maria Venegas

Comments:

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

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0802638

ClientCode: CETE

WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

Brandon Wilken
Conestoga-Rovers & Associates
5900 Hollis St, Suite A
Emeryville, CA 94608

Email: bwilken@CRAworld.com
TEL: (510) 420-0700 FAX: (510) 420-9170
PO:
ProjectNo: #629100-003; Encinal Properties

Bill to:

Accounts Payable
Conestoga-Rovers & Associates
5900 Hollis St, Ste. A
Emeryville, CA 94608

Requested TAT: 5 days

Date Received: 02/27/2008

Date Printed: 02/27/2008

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		
0802638-040	B-8@24.5'	Soil	2/25/2008 10:15	<input type="checkbox"/>	A	A												

Test Legend:

1	G-MBTEX S	2	MBTEXOXY-8260B S	3		4		5	
6		7		8		9		10	
11		12							

The following SampleIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 009A, 010A, 012A, 014A, 015A, 016A, 017A, 019A, 020A, 021A, 022A, 024A, 025A, 026A, 027A, 029A, 030A, 031A, 032A, 034A, 036A, 037A, 038A, 040A contain testgroup.

Prepared by: Maria Venegas

Comments:

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



Sample Receipt Checklist

Client Name: **Conestoga-Rovers & Associates**

Date and Time Received: **02/27/08 3:49:56 PM**

Project Name: **#629100-003; Encinal Properties**

Checklist completed and reviewed by: **Maria Venegas**

WorkOrder N°: **0802638** Matrix Soil

Carrier: Rob Pringle (MAI Courier)

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: 10.6°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:



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
		Date Received: 02/27/08
	Client Contact: Brandon Wilken	Date Extracted: 02/27/08
	Client P.O.:	Date Analyzed 02/27/08-03/04/08

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method SW5030B

Analytical methods SW8015Cm

Work Order: 0802638

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	B-1@3'	S	ND	1	80
002A	B-1@7'	S	290,g	100	128
003A	B-1@10.5'	S	140,g,m	20	---#
004A	B-1@19.5'	S	85,a	5	---#
005A	B-2@7'	S	30,g,m	1	95
006A	B-2@11.5'	S	86,g,m	20	111
007A	B-2@15'	S	4.9,g,m	1	87
009A	B-2@24.5'	S	ND	1	83
010A	B-3@7'	S	ND	1	95
012A	B-3@15'	S	ND	1	88
014A	B-3@24.5'	S	ND	1	88
015A	B-4@7'	S	250,g,m	20	102
016A	B-4@11.5'	S	110,a	5	118
017A	B-4@15'	S	ND	1	92
019A	B-4@24.5'	S	ND	1	88
020A	B-5@7'	S	ND	1	83

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	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 with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell 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.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
	Client Contact: Brandon Wilken	Date Received: 02/27/08
	Client P.O.:	Date Extracted: 02/27/08
		Date Analyzed 02/27/08-03/04/08

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method SW5030B

Analytical methods SW8015Cm

Work Order: 0802638

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
021A	B-5@11.5'	S	49,b,m	5	---#
022A	B-5@15'	S	ND	1	90
024A	B-5@24.5'	S	ND	1	83
025A	B-6@7'	S	ND	1	84
026A	B-6@11.5'	S	ND	1	98
027A	B-6@15.5'	S	ND	1	90
029A	B-6@24.5'	S	ND	1	91
030A	B-7@7'	S	ND	1	85
031A	B-7@11.5'	S	ND	1	92
032A	B-7@15.5'	S	ND	1	92
034A	B-7@24.5'	S	ND	1	86
036A	B-8@6.5'	S	5.8,g,m	1	84
037A	B-8@11.5'	S	270,a	20	---#
038A	B-8@15'	S	4.9,g,m	1	87
040A	B-8@24.5'	S	ND	1	88

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	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 with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell 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.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
	Client Contact: Brandon Wilken	Date Received: 02/27/08
	Client P.O.:	Date Extracted: 02/27/08
		Date Analyzed: 02/29/08-03/05/08

Oxygenates and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0802638

Lab ID	0802638-001A	0802638-002A	0802638-003A	0802638-004A	Reporting Limit for DF =1	
Client ID	B-1@3'	B-1@7'	B-1@10.5'	B-1@19.5'		
Matrix	S	S	S	S		
DF	1	40	10	10		

Compound	Concentration				mg/kg	ug/L
tert-Amyl methyl ether (TAME)	ND	ND<0.20	ND<0.050	ND<0.050	0.005	NA
Benzene	ND	0.25	0.31	0.42	0.005	NA
t-Butyl alcohol (TBA)	ND	ND<2.0	ND<0.50	ND<0.50	0.05	NA
1,2-Dibromoethane (EDB)	ND	ND<0.16	ND<0.040	ND<0.040	0.004	NA
1,2-Dichloroethane (1,2-DCA)	ND	ND<0.16	ND<0.040	ND<0.040	0.004	NA
Diisopropyl ether (DIPE)	ND	ND<0.20	ND<0.050	ND<0.050	0.005	NA
Ethanol	ND	ND<10	ND<2.5	ND<2.5	0.25	NA
Ethylbenzene	ND	ND<0.20	0.11	0.91	0.005	NA
Ethyl tert-butyl ether (ETBE)	ND	ND<0.20	ND<0.050	ND<0.050	0.005	NA
Methyl-t-butyl ether (MTBE)	ND	ND<0.20	1.0	1.7	0.005	NA
Toluene	ND	ND<0.20	0.089	ND<0.050	0.005	NA
Xylenes	ND	ND<0.20	ND<0.050	ND<0.050	0.005	NA

Surrogate Recoveries (%)

%SS1:	80	90	93	93	
%SS2:	94	94	100	100	
%SS3:	106	89	97	98	
Comments					

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

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

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
	Client Contact: Brandon Wilken	Date Received: 02/27/08
	Client P.O.:	Date Extracted: 02/27/08
		Date Analyzed: 02/29/08-03/05/08

Oxygenates and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0802638

Lab ID	0802638-005A	0802638-006A	0802638-007A	0802638-009A	Reporting Limit for DF = 1	
Client ID	B-2@7'	B-2@11.5'	B-2@15'	B-2@24.5'		
Matrix	S	S	S	S		
DF	1	1	1	1		

Compound	Concentration				mg/kg	ug/L
tert-Amyl methyl ether (TAME)	ND	ND	ND	ND	0.005	NA
Benzene	0.016	0.12	0.018	ND	0.005	NA
t-Butyl alcohol (TBA)	ND	ND	ND	ND	0.05	NA
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	0.004	NA
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	0.004	NA
Diisopropyl ether (DIPE)	ND	ND	ND	ND	0.005	NA
Ethanol	ND	ND	ND	ND	0.25	NA
Ethylbenzene	ND	0.020	ND	ND	0.005	NA
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	ND	0.005	NA
Methyl-t-butyl ether (MTBE)	ND	ND	ND	0.033	0.005	NA
Toluene	ND	ND	ND	ND	0.005	NA
Xylenes	ND	ND	ND	ND	0.005	NA

Surrogate Recoveries (%)

%SS1:	92	100	79	77	
%SS2:	95	105	94	94	
%SS3:	93	111	101	109	
Comments					

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

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

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
	Client Contact: Brandon Wilken	Date Received: 02/27/08
	Client P.O.:	Date Extracted: 02/27/08
		Date Analyzed: 02/29/08-03/05/08

Oxygenates and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0802638

Lab ID	0802638-010A	0802638-012A	0802638-014A	0802638-015A	Reporting Limit for DF = 1	
Client ID	B-3@7'	B-3@15'	B-3@24.5'	B-4@7'		
Matrix	S	S	S	S		
DF	1	1	1	2		

Compound	Concentration				mg/kg	ug/L
tert-Amyl methyl ether (TAME)	ND	ND	ND	ND<0.010	0.005	NA
Benzene	ND	ND	ND	0.016	0.005	NA
t-Butyl alcohol (TBA)	ND	ND	ND	0.34	0.05	NA
1,2-Dibromoethane (EDB)	ND	ND	ND	ND<0.0080	0.004	NA
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND<0.0080	0.004	NA
Diisopropyl ether (DIPE)	ND	ND	ND	ND<0.010	0.005	NA
Ethanol	ND	ND	ND	ND<0.50	0.25	NA
Ethylbenzene	ND	ND	ND	0.037	0.005	NA
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	ND<0.010	0.005	NA
Methyl-t-butyl ether (MTBE)	ND	0.0084	ND	0.28	0.005	NA
Toluene	ND	ND	ND	ND<0.010	0.005	NA
Xylenes	ND	ND	ND	ND<0.010	0.005	NA

Surrogate Recoveries (%)

%SS1:	99	78	77	92	
%SS2:	99	96	98	94	
%SS3:	103	101	100	91	
Comments					

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

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

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



McC Campbell 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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
	Client Contact: Brandon Wilken	Date Received: 02/27/08
	Client P.O.:	Date Extracted: 02/27/08
		Date Analyzed: 02/29/08-03/05/08

Oxygenates and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0802638

Lab ID	0802638-016A	0802638-017A	0802638-019A	0802638-020A	Reporting Limit for DF = 1	S	W
Client ID	B-4@11.5'	B-4@15'	B-4@24.5'	B-5@7'			
Matrix	S	S	S	S			
DF	10	1	1	1			

Compound	Concentration				mg/kg	ug/L
tert-Amyl methyl ether (TAME)	ND<0.050	ND	ND	ND	0.005	NA
Benzene	0.28	ND	ND	ND	0.005	NA
t-Butyl alcohol (TBA)	ND<0.50	ND	ND	ND	0.05	NA
1,2-Dibromoethane (EDB)	ND<0.040	ND	ND	ND	0.004	NA
1,2-Dichloroethane (1,2-DCA)	ND<0.040	ND	ND	ND	0.004	NA
Diisopropyl ether (DIPE)	ND<0.050	ND	ND	ND	0.005	NA
Ethanol	ND<2.5	ND	ND	ND	0.25	NA
Ethylbenzene	1.1	ND	ND	ND	0.005	NA
Ethyl tert-butyl ether (ETBE)	ND<0.050	ND	ND	ND	0.005	NA
Methyl-t-butyl ether (MTBE)	1.8	0.045	ND	ND	0.005	NA
Toluene	ND<0.050	ND	ND	ND	0.005	NA
Xylenes	ND<0.050	ND	ND	ND	0.005	NA

Surrogate Recoveries (%)

%SS1:	91	78	80	82	
%SS2:	94	96	103	103	
%SS3:	93	101	101	101	
Comments					

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

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

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
	Client Contact: Brandon Wilken	Date Received: 02/27/08
	Client P.O.:	Date Extracted: 02/27/08
		Date Analyzed: 02/29/08-03/05/08

Oxygenates and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0802638

Lab ID	0802638-021A	0802638-022A	0802638-024A	0802638-025A	Reporting Limit for DF =1	S	W
Client ID	B-5@11.5'	B-5@15'	B-5@24.5'	B-6@7'			
Matrix	S	S	S	S			
DF	1	1	1	1			

Compound	Concentration				mg/kg	ug/L
tert-Amyl methyl ether (TAME)	ND	ND	ND	ND	0.005	NA
Benzene	ND	ND	ND	ND	0.005	NA
t-Butyl alcohol (TBA)	ND	ND	ND	ND	0.05	NA
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	0.004	NA
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	0.004	NA
Diisopropyl ether (DIPE)	ND	ND	ND	ND	0.005	NA
Ethanol	ND	ND	ND	ND	0.25	NA
Ethylbenzene	0.15	ND	ND	ND	0.005	NA
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	ND	0.005	NA
Methyl-t-butyl ether (MTBE)	0.0056	0.019	0.022	ND	0.005	NA
Toluene	ND	ND	ND	ND	0.005	NA
Xylenes	ND	ND	ND	ND	0.005	NA

Surrogate Recoveries (%)

%SS1:	101	75	75	71	
%SS2:	107	100	100	100	
%SS3:	107	107	106	104	
Comments					

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

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

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
	Client Contact: Brandon Wilken	Date Received: 02/27/08
	Client P.O.:	Date Extracted: 02/27/08
		Date Analyzed: 02/29/08-03/05/08

Oxygenates and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0802638

Lab ID	0802638-026A	0802638-027A	0802638-029A	0802638-030A	Reporting Limit for DF=1		
Client ID	B-6@11.5'	B-6@15.5'	B-6@24.5'	B-7@7'			
Matrix	S	S	S	S			
DF	1	1	1	1		S	W

Compound	Concentration				mg/kg	ug/L
tert-Amyl methyl ether (TAME)	ND	ND	ND	ND	0.005	NA
Benzene	ND	ND	ND	ND	0.005	NA
t-Butyl alcohol (TBA)	ND	ND	ND	ND	0.05	NA
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	0.004	NA
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	0.004	NA
Diisopropyl ether (DIPE)	ND	ND	ND	ND	0.005	NA
Ethanol	ND	ND	ND	ND	0.25	NA
Ethylbenzene	ND	ND	ND	ND	0.005	NA
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	ND	0.005	NA
Methyl-t-butyl ether (MTBE)	ND	ND	0.020	ND	0.005	NA
Toluene	ND	ND	ND	ND	0.005	NA
Xylenes	ND	ND	ND	ND	0.005	NA

Surrogate Recoveries (%)

%SS1:	74	70	77	81		
%SS2:	100	100	96	103		
%SS3:	105	104	104	100		

Comments

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

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

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
	Client Contact: Brandon Wilken	Date Received: 02/27/08
	Client P.O.:	Date Extracted: 02/27/08
		Date Analyzed: 02/29/08-03/05/08

Oxygenates and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0802638

Lab ID	0802638-031A	0802638-032A	0802638-034A	0802638-036A	Reporting Limit for DF = 1	
Client ID	B-7@11.5'	B-7@15.5'	B-7@24.5'	B-8@6.5'		
Matrix	S	S	S	S		
DF	1	1	1	1		

Compound	Concentration				mg/kg	ug/L
tert-Amyl methyl ether (TAME)	ND	ND	ND	ND	0.005	NA
Benzene	ND	ND	ND	0.015	0.005	NA
t-Butyl alcohol (TBA)	ND	ND	ND	ND	0.05	NA
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	0.004	NA
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	0.004	NA
Diisopropyl ether (DIPE)	ND	ND	ND	ND	0.005	NA
Ethanol	ND	ND	ND	ND	0.25	NA
Ethylbenzene	ND	ND	ND	0.0075	0.005	NA
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	ND	0.005	NA
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	0.005	NA
Toluene	ND	ND	ND	ND	0.005	NA
Xylenes	ND	ND	ND	ND	0.005	NA

Surrogate Recoveries (%)

%SS1:	83	83	84	84	
%SS2:	103	103	104	102	
%SS3:	100	100	101	99	
Comments					

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

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

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
	Client Contact: Brandon Wilken	Date Received: 02/27/08
	Client P.O.:	Date Extracted: 02/27/08
		Date Analyzed: 02/29/08-03/05/08

Oxygenates and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0802638

Lab ID	0802638-037A	0802638-038A	0802638-040A	Reporting Limit for DF = 1	S	W
Client ID	B-8@11.5'	B-8@15'	B-8@24.5'			
Matrix	S	S	S			
DF	40	1	1			

Compound	Concentration			mg/kg	ug/L
tert-Amyl methyl ether (TAME)	ND<0.20	ND	ND	0.005	NA
Benzene	0.72	ND	ND	0.005	NA
t-Butyl alcohol (TBA)	ND<2.0	ND	ND	0.05	NA
1,2-Dibromoethane (EDB)	ND<0.16	ND	ND	0.004	NA
1,2-Dichloroethane (1,2-DCA)	ND<0.16	ND	ND	0.004	NA
Diisopropyl ether (DIPE)	ND<0.20	ND	ND	0.005	NA
Ethanol	ND<10	ND	ND	0.25	NA
Ethylbenzene	2.5	0.014	ND	0.005	NA
Ethyl tert-butyl ether (ETBE)	ND<0.20	ND	ND	0.005	NA
Methyl-t-butyl ether (MTBE)	ND<0.20	0.027	ND	0.005	NA
Toluene	ND<0.20	ND	ND	0.005	NA
Xylenes	0.99	ND	ND	0.005	NA

Surrogate Recoveries (%)

%SS1:	90	81	87
%SS2:	94	102	101
%SS3:	93	99	106
Comments			

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

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

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
		Date Received: 02/27/08
	Client Contact: Brandon Wilken	Date Extracted: 02/27/08
	Client P.O.:	Date Analyzed 02/27/08-02/29/08

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method SW3550C

Analytical methods SW8015C

Work Order: 0802638

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0802638-001A	B-1@3'	S	8.3,g,b	2	100
0802638-002A	B-1@7'	S	1700,a	20	90
0802638-003A	B-1@10.5'	S	120,a	2	100
0802638-004A	B-1@19.5'	S	120,a	1	101
0802638-005A	B-2@7'	S	14,g,b,n	1	100
0802638-006A	B-2@11.5'	S	41,g,b,n	1	87
0802638-007A	B-2@15'	S	2.2,b,n	1	90
0802638-009A	B-2@24.5'	S	ND	1	89
0802638-010A	B-3@7'	S	ND	1	89
0802638-012A	B-3@15'	S	ND	1	89
0802638-014A	B-3@24.5'	S	ND	1	89
0802638-015A	B-4@7'	S	260,d,b	1	98
0802638-016A	B-4@11.5'	S	12,d	1	118
0802638-017A	B-4@15'	S	ND	1	115
0802638-019A	B-4@24.5'	S	ND	1	113
0802638-020A	B-5@7'	S	ND	1	101

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

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

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; o) results are reported on a dry weight basis.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #629100-003; Encinal Properties	Date Sampled: 02/25/08-02/26/08
	Client Contact: Brandon Wilken	Date Received: 02/27/08
	Client P.O.:	Date Analyzed 02/27/08-02/29/08

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method SW3550C

Analytical methods SW8015C

Work Order: 0802638

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0802638-021A	B-5@11.5'	S	7.2,d,b	1	101
0802638-022A	B-5@15'	S	ND	1	105
0802638-024A	B-5@24.5'	S	ND	1	106
0802638-025A	B-6@7'	S	ND	1	107
0802638-026A	B-6@11.5'	S	ND	1	98
0802638-027A	B-6@15.5'	S	ND	1	99
0802638-029A	B-6@24.5'	S	ND	1	99
0802638-030A	B-7@7'	S	ND	1	102
0802638-031A	B-7@11.5'	S	ND	1	100
0802638-032A	B-7@15.5'	S	ND	1	99
0802638-034A	B-7@24.5'	S	ND	1	100
0802638-036A	B-8@6.5'	S	4.3,g,d	1	91
0802638-037A	B-8@11.5'	S	16,d,b	1	107
0802638-038A	B-8@15'	S	1.5,d,b	1	105
0802638-040A	B-8@24.5'	S	ND	1	105

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

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

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; o) results are reported on a dry weight basis.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0802638

Table with columns: EPA Method SW8015Cm, Extraction SW5030B, BatchID: 34016, Spiked Sample ID: 0802638-010A. Rows include analytes like TPH, MTBE, Benzene, Toluene, Ethylbenzene, Xylenes, and %SS with various metrics like Sample, Spiked, MS, MSD, MS-MSD, LCS, LCSD, LCS-LCSD, and Acceptance Criteria.

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 34016 SUMMARY

Summary table with columns: Lab ID, Date Sampled, Date Extracted, Date Analyzed. It lists multiple sample IDs and their corresponding dates.

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.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0802638

Analyte	Extraction SW5030B			BatchID: 34042					Spiked Sample ID: 0802638-040A			
	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) ^f	ND	0.60	121	101	17.9	121	114	6.57	70 - 130	20	70 - 130	20
MTBE	ND	0.10	89.2	79.3	11.8	83.4	90.1	7.72	70 - 130	20	70 - 130	20
Benzene	ND	0.10	85.6	83.1	3.03	92	97.7	6.04	70 - 130	20	70 - 130	20
Toluene	ND	0.10	104	100	3.22	113	116	2.53	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	104	104	0	111	113	1.26	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	113	111	1.32	120	122	1.55	70 - 130	20	70 - 130	20
%SS:	88	0.10	91	90	0.166	99	101	2.02	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 34042 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0802638-025A	02/26/08 11:13 AM	02/27/08	02/28/08 5:22 AM	0802638-026A	02/26/08 11:22 AM	02/27/08	02/28/08 5:17 AM
0802638-027A	02/26/08 11:30 AM	02/27/08	02/28/08 2:03 AM	0802638-029A	02/26/08 11:44 AM	02/27/08	02/28/08 4:47 AM
0802638-030A	02/26/08 12:25 PM	02/27/08	02/27/08 9:37 PM	0802638-031A	02/26/08 12:34 PM	02/27/08	02/27/08 10:44 PM
0802638-032A	02/26/08 12:40 PM	02/27/08	02/27/08 11:50 PM	0802638-034A	02/26/08 12:54 PM	02/27/08	02/27/08 10:10 PM
0802638-036A	02/25/08 9:25 AM	02/27/08	02/28/08 7:34 AM	0802638-037A	02/25/08 9:43 AM	02/27/08	02/28/08 8:40 PM
0802638-038A	02/25/08 9:55 AM	02/27/08	02/28/08 5:55 AM	0802638-040A	02/25/08 10:15 AM	02/27/08	02/28/08 8:08 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0802638

EPA Method SW8260B	Extraction SW5030B			BatchID: 33998					Spiked Sample ID: 0802617-001A			
	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
tert-Amyl methyl ether (TAME)	ND	0.050	111	112	0.927	105	104	0.997	70 - 130	30	70 - 130	30
Benzene	ND	0.050	96.8	101	4.06	92.2	90	2.45	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	109	104	4.78	87.5	92.5	5.60	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	107	107	0	99.3	101	1.42	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	110	111	1.39	103	102	0.887	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	105	106	0.778	98.6	96.5	2.14	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	108	109	0.382	102	101	1.23	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	105	105	0	97.3	97.5	0.188	70 - 130	30	70 - 130	30
Toluene	ND	0.050	92.8	95.9	3.36	92	89.3	2.95	70 - 130	30	70 - 130	30
%SS1:	95	0.050	91	91	0	100	99	1.12	70 - 130	30	70 - 130	30
%SS2:	94	0.050	95	95	0	97	97	0	70 - 130	30	70 - 130	30
%SS3:	100	0.050	89	90	0.438	93	92	0.516	70 - 130	30	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 33998 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0802638-001A	02/25/08 10:30 AM	02/27/08	03/03/08 10:13 AM	0802638-002A	02/25/08 10:49 AM	02/27/08	03/03/08 4:08 PM
0802638-003A	02/25/08 11:02 AM	02/27/08	03/04/08 11:03 PM	0802638-004A	02/25/08 11:15 AM	02/27/08	03/04/08 11:46 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.

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.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0802638

Table with columns: EPA Method SW8260B, Extraction SW5030B, BatchID: 34033, Spiked Sample ID: 8023638-014a. Rows include analytes like tert-Amyl methyl ether (TAME), Benzene, t-Butyl alcohol (TBA), etc., with columns for Sample, Spiked, MS, MSD, MS-MSD, LCS, LCSD, LCS-LCSD, and Acceptance Criteria (%).

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

NONE

BATCH 34033 SUMMARY

Summary table with columns: Lab ID, Date Sampled, Date Extracted, Date Analyzed. Lists multiple lab IDs and their corresponding dates.

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.

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.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0802638

Table with columns: EPA Method SW8260B, Extraction SW5030B, BatchID: 34034, Spiked Sample ID: 0802638-040A. Rows include analytes like tert-Amyl methyl ether (TAME), Benzene, t-Butyl alcohol (TBA), etc., with columns for Sample, Spiked, MS, MSD, MS-MSD, LCS, LCSD, LCS-LCSD, and Acceptance Criteria (%).

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 34034 SUMMARY

Summary table with columns: Lab ID, Date Sampled, Date Extracted, Date Analyzed. Rows list various lab IDs and their corresponding sampling and analysis dates.

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.

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.



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0802638

EPA Method SW8015C		Extraction SW3550C			BatchID: 33992			Spiked Sample ID: 0802602-001A				
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(d)	1.3	20	104	104	0	103	103	0	70 - 130	30	70 - 130	30
%SS:	88	50	89	89	0	98	98	0	70 - 130	30	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 33992 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0802638-001A	02/25/08 10:30 AM	02/27/08	02/28/08 4:11 PM	0802638-002A	02/25/08 10:49 AM	02/27/08	02/28/08 2:58 PM
0802638-003A	02/25/08 11:02 AM	02/27/08	02/28/08 1:47 PM	0802638-004A	02/25/08 11:15 AM	02/27/08	02/28/08 6:34 AM
0802638-005A	02/25/08 1:50 PM	02/27/08	02/28/08 7:46 AM	0802638-006A	02/25/08 2:00 PM	02/27/08	02/28/08 11:23 AM
0802638-007A	02/25/08 2:07 PM	02/27/08	02/28/08 3:00 AM	0802638-009A	02/25/08 2:20 PM	02/27/08	02/28/08 4:11 AM
0802638-010A	02/26/08 8:15 AM	02/27/08	02/28/08 5:23 AM	0802638-012A	02/26/08 8:32 AM	02/27/08	02/28/08 6:34 AM
0802638-014A	02/26/08 8:48 AM	02/27/08	02/28/08 7:46 AM	0802638-015A	02/25/08 12:40 PM	02/27/08	02/28/08 11:21 PM
0802638-016A	02/25/08 12:45 PM	02/27/08	02/28/08 5:21 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 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.



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0802638

Analyte	Extraction SW3550C			BatchID: 34041					Spiked Sample ID: 0802638-040A			
	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(d)	ND	20	113	118	4.48	113	113	0	70 - 130	30	70 - 130	30
%SS:	105	50	120	118	1.42	103	101	1.31	70 - 130	30	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 34041 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0802638-017A	02/25/08 1:00 PM	02/27/08	02/28/08 6:29 AM	0802638-019A	02/25/08 1:16 PM	02/27/08	02/28/08 7:38 AM
0802638-020A	02/26/08 9:20 AM	02/27/08	02/29/08 7:02 PM	0802638-021A	02/26/08 9:30 AM	02/27/08	02/28/08 11:43 AM
0802638-022A	02/26/08 9:36 AM	02/27/08	02/28/08 5:21 AM	0802638-024A	02/26/08 9:55 AM	02/27/08	02/28/08 6:29 AM
0802638-025A	02/26/08 11:13 AM	02/27/08	02/28/08 7:38 AM	0802638-026A	02/26/08 11:22 AM	02/27/08	02/28/08 11:23 AM
0802638-027A	02/26/08 11:30 AM	02/27/08	02/28/08 12:35 PM	0802638-029A	02/26/08 11:44 AM	02/27/08	02/27/08 10:10 PM
0802638-030A	02/26/08 12:25 PM	02/27/08	02/27/08 11:17 PM	0802638-031A	02/26/08 12:34 PM	02/27/08	02/28/08 12:25 AM
0802638-032A	02/26/08 12:40 PM	02/27/08	02/28/08 1:32 AM	0802638-034A	02/26/08 12:54 PM	02/27/08	02/28/08 2:39 AM
0802638-036A	02/25/08 9:25 AM	02/27/08	02/28/08 5:23 PM	0802638-037A	02/25/08 9:43 AM	02/27/08	02/28/08 6:01 AM
0802638-038A	02/25/08 9:55 AM	02/27/08	02/28/08 7:08 AM	0802638-040A	02/25/08 10:15 AM	02/27/08	02/28/08 8:15 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 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.